

**Trenco** 818 Soundside Rd Edenton, NC 27932

Re: 20040A 140.1445 B 10x10CP REV1

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Components - #2383.

Pages or sheets covered by this seal: I36342406 thru I36342441

My license renewal date for the state of North Carolina is December 31, 2019.

North Carolina COA: C-0844



March 8,2019

Sevier, Scott

**IMPORTANT NOTE:** Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.



|  | 10-3-4  | 16-0-0 20-0-0   | 24-0-0   | 29-8-12  |  | 40-0-0   | _                                  |
|--|---|---|--|--|--|--|------------------------------------|
|  |   | 5-8-12 4-0-0  | 4-0-0  | 5-8-12   |  | 10-3-4   |                                    |
| Plate Offsets (X,Y)  | [5:0-1-13,0-1-12], [7:0-1-13,0-1-12], [13:  | 0-4-0,0-3-8], [14:0-4-0,0-3-8]  |  |  |  |  |                                    |
| 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 IRC2015/TPI2014   | <b>CSI.</b><br>TC 0.75<br>BC 0.97<br>WB 0.98<br>Matrix-S  | DEFL.         in           Vert(LL)         -0.35           Vert(CT)         -0.49           Horz(CT)         0.11           Attic         -0.25                   | (loc) l/defl<br>12-13 >999<br>12-13 >976<br>10 n/a<br>13-14 394  | L/d<br>240<br>180<br>n/a<br>360                                | PLATES<br>MT20<br>Weight: 266 lb                                     | <b>GRIP</b><br>244/190<br>FT = 20% |
| LUMBER-<br>TOP CHORD 2x4<br>BOT CHORD 2x6<br>1-4<br>BOT CHORD 2x6<br>13-<br>WEBS 2x4   | 4 SP DSS *Except*<br>4,8-11: 2x4 SP No.1<br>6 SP No.2 *Except*<br>-14: 2x8 SP No.2<br>4 SP No.3   |   | BRACING-<br>TOP CHORD<br>BOT CHORD<br>JOINTS   | Structural wood s<br>Rigid ceiling dire<br>1 Brace at Jt(s):<br>This truss require<br>the room area.     | sheathing direct<br>ctly applied or 2<br>16<br>es both edges o | lly applied or 2-2-0 o<br>2-2-0 oc bracing.<br>If the bottom chord b | oc purlins.<br>De sheathed in      |
| REACTIONS. (Ib<br>Ma<br>Ma<br>Ma   | /size) 2=1691/0-3-8, 10=1691/0-3-8<br>ax Horz 2=174(LC 16)<br>ax Uplift 2=-184(LC 12), 10=-184(LC 13)<br>ax Grav 2=1813(LC 2), 10=1813(LC 2)  |   |  |  |  |  |                                    |
| FORCES. (lb) - M<br>TOP CHORD 2<br>9<br>BOT CHORD 2<br>WEBS 7<br>5   | Max. Comp./Max. Ten All forces 250 (lb) or<br>-3=-3483/355, 3-5=-3210/314, 5-6=-416/53,<br>1-10=-3483/355<br>-15=-400/3055, 14-15=-76/2552, 13-14=-74,<br>-12=-217/742, 9-12=-489/291, 5-15=-206/74<br>5-16=-2247/289, 7-16=-2247/289, 7-13=-91/7   | less except when shown.<br>6-7=-416/53, 7-9=-3210/314,<br>/2550, 12-13=-80/2552, 10-12=<br>/2, 3-15=-489/291, 5-14=-91/76<br>82   | =-226/3055<br>82,  |  |  |  |                                    |
| NOTES-<br>1) Unbalanced roo<br>2) Wind: ASCE 7-1<br>MWFRS (envelo<br>Interior(1) 23-0-1<br>DOL=1.60<br>3) This truss has<br>will fit between t<br>5) Ceiling dead loa<br>6) Bottom chord liv<br>7) One RT7A USP<br>uplift only and d<br>8) ATTIC SPACE S | f live loads have been considered for this de<br>l0; Vult=130mph (3-second gust) Vasd=103r<br>ope) gable end zone and C-C Exterior(2) -0-<br>0 to 40-10-8 zone;C-C for members and force<br>een designed for a 10.0 psf bottom chord liv<br>been designed for a live load of 20.0psf on the<br>bottom chord and any other members, wild<br>(5.0 psf) on member(s). 5-16, 7-16<br>re load (40.0 psf) and additional bottom chord<br>connectors recommended to connect truss<br>oes not consider lateral forces.<br>SHOWN IS DESIGNED AS UNINHABITABL | sign.<br>mph; TCDL=6.0psf; BCDL=6.0<br>I0-8 to 2-1-8, Interior(1) 2-1-8<br>es & MWFRS for reactions sho<br>e load nonconcurrent with any<br>he bottom chord in all areas w<br>th BCDL = 10.0psf.<br>d dead load (0.0 psf) applied o<br>to bearing walls due to UPLIFT<br>E. | psf; h=0ft; Cat. II; E:<br>to 20-0-0, Exterior(2<br>own; Lumber DOL='<br>other live loads.<br>here a rectangle 3-6<br>nly to room. 13-14<br>Γ at jt(s) 2 and 10. T | xp B; Enclosed;<br>!) 20-0-0 to 23-0-0<br>1.60 plate grip<br>3-0 tall by 2-0-0 wi<br>his connection is f | ,<br>de<br>for   | UNIOR TH   | SEAL<br>44925                      |



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 sand 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.

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|  | 1  | 7-0-5   | 10-3-4   | 20-6-4  |  | 1   | 29-   | 8-12   |  | -   | 40-0-0  |                                    |
|--|--|---|--|---|--|---|---|--|--|---|---|------------------------------------|
|  |  | 7-0-5   | 3-2-15   | 10-3-0  |  |   | 9-  | 2-8  |  |   | 10-3-4  |                                    |
| Plate Offsets (X,  | Y) ['  | 13:0-6-0,Edgej, [15:0-  | ·6-0,Eagej   |   |  |   |   |  |  |   |   |                                    |
| LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0                       | *  | <b>SPACING-</b><br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code IRC2015  | 2-0-0<br>1.15<br>1.15<br>YES<br>/TPI2014   | <b>CSI.</b><br>TC 0.92<br>BC 0.77<br>WB 0.99<br>Matrix-S  |  | DEFL.<br>/ert(LL)<br>/ert(CT)<br>Horz(CT)<br>Attic                          | in<br>-0.30<br>-0.41<br>0.03<br>-0.26             | (loc)<br>15-16<br>15-16<br>10<br>14-15               | l/defl<br>>826<br>>590<br>n/a<br>421                             | L/d<br>240<br>180<br>n/a<br>360                         | <b>PLATES</b><br>MT20<br>Weight: 266 lb                           | <b>GRIP</b><br>244/190<br>FT = 20% |
| LUMBER-<br>TOP CHORD 2<br>BOT CHORD 2<br>WEBS 2<br>REACTIONS.  | 2x4 SP I<br>2x6 SP I<br>13-15: 2<br>2x4 SP I<br>(Ib/size)<br>Max Ho                      | No.2<br>DSS *Except*<br>x8 SP No.2, 13-15: 2;<br>No.3<br>2=986/0-3-8, 10=9<br>rz 2=174(LC 12)   | x6 SP No.2<br>148/0-3-8, 14=144  | 3/0-3-8   | E<br>T<br>E<br>J   | BRACING-<br>OP CHOR<br>OT CHOR<br>OINTS                                     | D<br>D  | Structu<br>Rigid co<br>1 Brace<br>This tru<br>room a | ral wood s<br>eiling dired<br>e at Jt(s):<br>iss require<br>rea. | sheathing dire<br>ctly applied o<br>17<br>es both edges | ectly applied.<br>r 4-9-12 oc bracing.<br>s of the bottom chord b | e sheathed in the                  |
| FORCES. (Ib) -<br>TOP CHORD<br>BOT CHORD<br>WEBS   | Max Up<br>Max Gra<br>- Max. C<br>2-18=-<br>7-20=-<br>2-16=-<br>13-23=<br>3-16=-<br>5-15= | lift 2=-176(LC 12), 10<br>av 2=1023(LC 24), 10<br>comp./Max. Ten All<br>1713/314, 3-18=-154<br>277/28, 7-8=-1102/18<br>387/1476, 16-22=-58<br>59/743, 12-23=-62/7<br>490/291, 5-16=-212/2<br>719/235, 5-17=-512/2 | =-115(LC 13), 14=<br>=948(LC 1), 14=1<br>forces 250 (lb) or 1<br>9/340, 3-4=-1405/<br>37, 8-9=-1202/143,<br>727, 15-22=-56/73<br>33, 10-12=-93/12<br>341, 9-12=-486/29<br>90, 7, 17 - 512/28 | 134(LC 13)<br>771(LC 2)<br>less except when show<br>255, 4-5=-1299/298, 5<br>.9-21=-1340/205, 10-2<br>35, 14-15=-57/731, 13<br>77<br>1, 7-13=-843/314, 7-12 | /n.<br>19=-272/2<br>1=-1505/1<br>14=-57/73<br>=-235/866          | 27,<br>79<br>31,  |   |  |  |   |   |                                    |
| NOTES-<br>1) Unbalanced ro<br>2) Wind: ASCE 7<br>MWFRS (envv<br>Interior(1)23-<br>DOL=1.60<br>3) This truss has<br>4) * This truss has<br>will fit between | oof live I<br>7-10; Vu<br>elope) g<br>0-0 to 4<br>5 been d<br>as been<br>n the bo        | loads have been cons<br>lit=130mph (3-second<br>lable end zone and C<br>0-10-8 zone;C-C for r<br>lesigned for a 10.0 ps<br>designed for a live lo<br>ttom chord and any o   | sidered for this des<br>gust) Vasd=103m<br>-C Exterior(2) -0-1<br>nembers and force<br>f bottom chord live<br>ad of 20.0psf on th<br>ther members, wit                                       | sign.<br>hph; TCDL=6.0psf; BC<br>0-8 to 2-1-8, Interior(1<br>as & MWFRS for react<br>load nonconcurrent w<br>he bottom chord in all a<br>h BCDL = 10.0psf.  | DL=6.0psf<br>2-1-8 to 2<br>ons shown<br>ith any oth<br>reas wher | ; h=0ft; Cai<br>20-0-0, Exte<br>n; Lumber I<br>ner live load<br>e a rectanç | t. II; Ex<br>erior(2)<br>DOL=1<br>ds.<br>gle 3-6- | p B; End<br>20-0-0<br>.60 plate<br>-0 tall by        | closed;<br>to 23-0-0,<br>è grip<br>2-0-0 wid                     | e   | NORTH   | CAROLINA<br>SSICE                  |

- 5) Ceiling dead load (5.0 psf) on member(s). 5-17, 7-17
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 14-15, 13-14
- 7) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 10, and 14. This connection is for uplift only and does not consider lateral forces.
- 8) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

LOAD CASE(S) Standard



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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) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 3. This connection is for uplift only and does not consider lateral forces.



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

BOT CHORD

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

REACTIONS. All bearings 14-0-0. Max Horz 2=66(LC 16) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed;

MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 7-0-0, Corner(3) 7-0-0 to 10-0-0, Exterior(2) 10-0-0 to 14-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

4) 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, 8, 13, 14, 11, 10.



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|               |                         |             | 2-8-7         |              |                        |
|---------------|-------------------------|-------------|---------------|--------------|------------------------|
| LOADING (psf) | SPACING- 2-0-0 CS       | I. DEFL     | . in (loc)    | ) l/defl L/d | PLATES GRIP            |
| TCLL 20.0     | Plate Grip DOL 1.15 TC  | 0.20 Vert(L | L) -0.00 2-6  | 6 >999 240   | MT20 244/190           |
| TCDL 10.0     | Lumber DOL 1.15 BC      | 0.06 Vert(0 | CT) -0.00 2-6 | 6 >999 180   |                        |
| BCLL 0.0      | Rep Stress Incr NO WE   | 0.00 Horz(  | CT) 0.00      | n/a n/a      |                        |
| BCDL 10.0     | Code IRC2015/TPI2014 Ma | trix-P      |               |              | Weight: 11 lb FT = 20% |
| LUMBER-       |                         | BRAC        | ING-          |              |                        |

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3

REACTIONS. 6=74/Mechanical, 2=202/0-4-9 (lb/size) Max Horz 2=58(LC 8) Max Uplift 6=-17(LC 12), 2=-84(LC 8) Max Grav 6=75(LC 3), 2=202(LC 1)

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

NOTES.

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone;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) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6.
- 6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.



Structural wood sheathing directly applied or 2-8-7 oc purlins,

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

except end verticals.

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| F  | 8-3-4   | 18-0-0  | 22-0-0  |  | 31-8-12<br>9-8-12   | 40-0-0  |                                    |
|--|---|---|---|--|---|---|------------------------------------|
| Plate Offsets (X,  | Y) [3:0-4-0,Edge], [8:0-4-0,E   | idge]   | 4-0-0   |  | 5-0-12  | 0-0-4   |                                    |
| LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0 | * SPACING-<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code IRC2015/TF              | 2-0-0 CSI<br>1.15 TC<br>1.15 BC<br>YES WB<br>Pl2014 Mat                           | I. DEFL.<br>0.99 Vert(Ll<br>0.64 Vert(C<br>3 0.53 Horz(C<br>trix-S      | in (loc<br>.) -0.14 11-13<br>T) -0.32 11-13<br>T) 0.11 | c) l/defl L/d<br>3 >999 240<br>3 >999 180<br>9 n/a n/a  | PLATES<br>MT20<br>Weight: 262 lb  | <b>GRIP</b><br>244/190<br>FT = 20% |
| LUMBER-<br>TOP CHORD 2<br>BOT CHORD 2<br>WEBS 2  | 2x6 SP No.2 *Except*<br>5-6: 2x4 SP No.2, 1-3,8-10: 2x4<br>2x6 SP No.2<br>2x4 SP No.3         | SP No.1   | BRACI<br>TOP C<br>BOT C<br>WEBS   | NG-<br>HORD Struc<br>2-0-C<br>HORD Rigic<br>1 Ro       | ctural wood sheathing dir<br>0 oc purlins (4-1-2 max.):<br>d ceiling directly applied o<br>w at midpt 4 | ectly applied, except<br>5-6.<br>or 10-0-0 oc bracing.<br>-14, 6-14, 7-13 |                                    |
| REACTIONS.   | (Ib/size) 2=1650/0-3-8, 9=165<br>Max Horz 2=-156(LC 17)<br>Max Uplift 2=-196(LC 12), 9=-15    | 0/0-3-8<br>96(LC 13)  |   |  |   |   |                                    |
| FORCES. (Ib) -<br>TOP CHORD<br>BOT CHORD   | - Max. Comp./Max. Ten All for<br>2-4=-3078/380, 4-5=-2148/354<br>2-16=-343/2675, 14-16=-343/2 | ces 250 (Ib) or less excep<br>, 5-6=-1790/376, 6-7=-21<br>675, 13-14=-69/1787, 11 | pt when shown.<br>146/355, 7-9=-3079/380<br>I-13=-249/2676, 9-11=-249/2 | 676  |   |   |                                    |

WEBS 4-16=0/393, 4-14=-956/311, 5-14=-34/539, 6-13=-39/535, 7-13=-958/311, 7-11=0/396

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 18-0-0, Exterior(2) 18-0-0 to 26-2-15, Interior(1) 26-2-15 to 40-10-8 zone; 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, with BCDL = 10.0psf.

6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.

7) 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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|   | 10-3-4  | 16-0-0   18-0-0  <br>5-8-12 2-0-0  | 20-6-4 22-0-0<br>2-6-4 1-5-12  | 29-8-12<br>7-8-12  |   | 40-0-0<br>10-3-4  |                                    |
|---|---|--|--|--|---|---|------------------------------------|
| 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 IRC2015/TPI2014   | CSI.<br>TC 0.92<br>BC 0.85<br>WB 0.90<br>Matrix-S  | DEFL.<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)<br>Attic   | in (loc) l/defl<br>-0.32 17-19 >776<br>-0.43 17-19 >564<br>0.02 11 n/a<br>-0.27 16-17 415  | L/d<br>240<br>180<br>n/a<br>360   | PLATES<br>MT20<br>Weight: 265 lb  | <b>GRIP</b><br>244/190<br>FT = 20% |
| LUMBER-<br>TOP CHORD 2x4<br>BOT CHORD 2x6<br>15-1<br>WEBS 2x4   | SP No.2<br>SP No.2 *Except*<br>7: 2x8 SP No.2, 14-18: 2x6 SP DSS<br>SP No.3   |  | BRACING-<br>TOP CHORI<br>BOT CHORI<br>WEBS<br>JOINTS   | <ul> <li>Structural wood</li> <li>2-0-0 oc purlins</li> <li>Rigid ceiling din</li> <li>1 Row at midpt</li> <li>1 Brace at Jt(s)</li> <li>This truss requi</li> <li>the room area.</li> </ul> | sheathing dir<br>(6-0-0 max.):<br>ectly applied c<br>8<br>20, 21<br>res both edge | ectly applied, except<br>6-7.<br>or 5-4-4 oc bracing.<br>-15<br>s of the bottom chord I | be sheathed in                     |
| REACTIONS. (Ib/s<br>Max<br>Max<br>Max   | size) 2=975/0-3-8, 11=937/0-3-8, 16=14<br>x Horz 2=157(LC 16)<br>x Uplift 2=-172(LC 12), 11=-120(LC 13), 16<br>x Grav 2=1026(LC 24), 11=937(LC 1), 16=  | 70/0-3-8<br>=-99(LC 13)<br>1800(LC 2)  |  |  |   |   |                                    |
| FORCES. (Ib) - Ma<br>TOP CHORD 2-<br>8-<br>BOT CHORD 2-<br>11<br>WEBS 3-  | ux. Comp./Max. Ten All forces 250 (lb) of<br>3=-1720/328, 3-5=-1403/286, 5-6=-370/64,<br>10=-1176/224, 10-11=-1479/238<br>19=-359/1472, 17-19=-33/693, 16-17=-41/<br>-13=-109/1255<br>19=-493/291, 5-19=-211/971, 8-13=-216/8<br>19=-766/291, 5-90 - 432/296, 20, 91 - 439/   | less except when shown<br>6-7=-261/56, 7-8=-343/6<br>745, 15-16=-30/747, 13-1<br>38, 10-13=-487/291, 8-15<br>285, 9, 21- 430/295   | 2,<br>5=-33/693,<br>=-863/276,   |  |   |   |                                    |
| NOTES-<br>1) Unbalanced roof<br>2) Wind: ASCE 7-10<br>MWFRS (envelop<br>Interior(1) 26-2-19<br>DOL=1.60<br>3) Provide adequate<br>4) This truss has be<br>will fit between th<br>6) Ceiling dead load<br>7) Bottom chord live<br>8) One RT7A USP of | ive loads have been considered for this de<br>; Vult=130mph (3-second gust) Vasd=103<br>e) gable end zone and C-C Exterior(2) -0-<br>5 to 40-10-8 zone;C-C for members and fo<br>drainage to prevent water ponding.<br>en designed for a 10.0 psf bottom chord live<br>een designed for a live load of 20.0psf on<br>e bottom chord and any other members, w<br>(5.0 psf) on member(s). 5-20, 20-21, 8-21<br>load (40.0 psf) and additional bottom chor<br>onnectors recommended to connect truss | sign.<br>mph; TCDL=6.0psf; BCDI<br>10-8 to 2-1-8, Interior(1) 2<br>rces & MWFRS for reaction<br>e load nonconcurrent with<br>the bottom chord in all are<br>ith BCDL = 10.0psf.<br>d dead load (0.0 psf) app<br>to bearing walls due to UI | L=6.0psf; h=0ft; Cat<br>2-1-8 to 18-0-0, Exte<br>ons shown; Lumber<br>n any other live load<br>as where a rectang<br>lied only to room. 1<br>PLIFT at jt(s) 2, 11, | . II; Exp B; Enclosed;<br>prior(2) 18-0-0 to 26-2-<br>DOL=1.60 plate grip<br>ls.<br>le 3-6-0 tall by 2-0-0 w<br>6-17, 15-16<br>and 16. This connectio  | 15,<br>ride<br>on is  | Pur ORTH  | SEAL<br>944925                     |

for uplift only and does not consider lateral forces.

9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 10) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



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|  |  | 7-9-4<br>7-9-4  | 16-0-0<br>8-2-12   | 24-0-0<br>8-0-0   |                             | 32-2-<br>8-2-  | <u>12</u><br>12   | 40-0-0  |                                    |
|--|--|---|--|---|-----------------------------|--|---|---|------------------------------------|
| Plate Offsets (  | (X,Y)  | [12:0-4-8,0-3-0], [13:0-4-8,0-3-0]  |  |   |                             |  |   |   |                                    |
| LOADING (ps<br>TCLL 20.<br>TCDL 10.<br>BCLL 0.<br>BCDL 10. | sf)<br>.0<br>.0<br>.0 *<br>.0  | SPACING- 2-0-0<br>Plate Grip DOL 1.15<br>Lumber DOL 1.15<br>Rep Stress Incr YES<br>Code IRC2015/TPI2014                                       | CSI.<br>TC 0.92<br>BC 0.94<br>WB 0.33<br>Matrix-S  | DEFL. ir<br>Vert(LL) -0.24<br>Vert(CT) -0.46<br>Horz(CT) 0.16 | n (lo<br>12-1<br>12-1       | oc) l/defl<br>13 >999<br>13 >999<br>9 n/a                          | L/d<br>240<br>180<br>n/a  | PLATES<br>MT20<br>Weight: 204 lb                                  | <b>GRIP</b><br>244/190<br>FT = 20% |
| LUMBER-<br>TOP CHORD<br>BOT CHORD<br>WEBS<br>REACTIONS.    | 2x4 SP<br>5-6: 2x4<br>2x4 SP<br>2x4 SP<br>(Ib/size<br>Max Ho<br>Max Up | No.1 *Except*<br>4 SP DSS<br>No.2<br>No.3<br>e) 2=1650/0-3-8, 9=1650/0-3-8<br>orz 2=140(LC 12)<br>plift 2=-180(LC 12), 9=-180(LC 13)          |  | BRACING-<br>TOP CHORD<br>BOT CHORD<br>WEBS                    | Stru<br>2-0-<br>Rigi<br>1 R | uctural wood<br>I-0 oc purlins<br>jid ceiling dire<br>Row at midpt | sheathing direct<br>(3-9-12 max.): 5<br>ctly applied or 2<br>3-13 | lly applied, except<br>i-6.<br>2-2-0 oc bracing.<br>8, 6-13, 8-12 |                                    |
| FORCES. (III:<br>TOP CHORD<br>BOT CHORD<br>WEBS            | o) - Max. (<br>2-3=-3<br>2-14=<br>3-14=                                | Comp./Max. Ten All forces 250 (I<br>3021/385, 3-5=-2277/371, 5-6=-193<br>-292/2609, 13-14=-292/2609, 12-1<br>0/341, 3-13=-755/263, 5-13=0/564 | b) or less except when shown<br>30/390, 6-8=-2276/371, 8-9=-3<br>3=-113/1929, 11-12=-262/261<br>, 6-12=-15/564, 8-12=-756/26 | ı.<br>3022/385<br>10, 9-11=-262/2610<br>3, 8-11=0/341         |                             |  |   |   |                                    |
| NOTES-   |  |   |  |   |                             |  |   |   |                                    |

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 16-0-0, Exterior(2) 16-0-0 to 20-2-15, Interior(1) 20-2-15 to 24-0-0, Exterior(2) 24-0-0 to 28-2-15, Interior(1) 28-2-15 to 40-10-8 zone;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, with BCDL = 10.0psf.

6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.

7) 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  | 10-3-4   | 16-0-0 20-6-  | -4 24-0-0   | 29-8-12   |   | 40-0-0   |                                    |
|--|--|---|---|---|---|--|------------------------------------|
|  | 10-3-4   | 5-8-12 4-6-   | 4 3-5-12  | 5-8-12  |   | 10-3-4   |                                    |
| Plate Offsets (X,Y)  | [3:0-1-14,0-0-0], [4:0-4-8,Edge], [4:0-0-0   | ,0-1-12], [5:0-2-0,Edge], [6  | 5:0-2-0,Edge], [7:0-4-8,E   | Edge], [7:0-0-0,0-1   | -12], [8:0-1-14   | 1,0-0-0]   |                                    |
| LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0   | SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2015/TPI2014  | <b>CSI.</b><br>TC 0.94<br>BC 0.72<br>WB 0.87<br>Matrix-S  | DEFL.         in           Vert(LL)         -0.25           Vert(CT)         -0.35           Horz(CT)         0.03           Attic         -0.21  | (loc) l/defl<br>15-17 >995<br>15-17 >699<br>9 n/a<br>14-15 534  | L/d<br>240<br>180<br>n/a<br>360                                       | PLATES<br>MT20<br>Weight: 278 lb   | <b>GRIP</b><br>244/190<br>FT = 20% |
| LUMBER-<br>TOP CHORD 2x6 SF<br>5-6: 2x<br>BOT CHORD 2x6 SF<br>12-16:<br>WEBS 2x4 SF  | P No.2 *Except*<br>8 SP No.2, 1-4,7-10: 2x4 SP No.2<br>P No.2 *Except*<br>2x6 SP DSS, 13-15: 2x8 SP No.2<br>P No.3   | I   | BRACING-<br>TOP CHORD<br>BOT CHORD  | Structural wood a<br>2-0-0 oc purlins i<br>Rigid ceiling dire<br>This truss require<br>the room area.                             | sheathing dired<br>6-0-0 max.): 5<br>ctly applied or<br>es both edges | ctly applied or 2-2-0 c<br>i-6.<br>5-11-2 oc bracing.<br>of the bottom chord b   | oc purlins, except                 |
| REACTIONS. (Ib/size<br>Max H<br>Max U<br>Max G   | e) 2=1011/0-3-8, 9=975/0-3-8, 14=139<br>lorz 2=138(LC 12)<br> plift 2=-170(LC 12), 9=-133(LC 13), 14=<br> rav 2=1051(LC 24), 9=975(LC 1), 14=1   | 3/0-3-8<br>-45(LC 13)<br>719(LC 2)  |   |   |   |  |                                    |
| FORCES.         (lb) - Max.           TOP CHORD         2-3=-           BOT CHORD         2-17=           9-11=         9-11=           WEBS         5-17=           8-11=         8-11=   | Comp./Max. Ten All forces 250 (lb) or<br>.1752/311, 3-5=-1452/267, 5-6=-717/259<br>=-322/1496, 15-17=-38/741, 14-15=-42/8<br>=-140/1315<br>=-185/915, 5-15=-687/164, 6-13=-777/20<br>=-464/290   | less except when shown.<br>, 6-8=-1259/245, 8-9=-155<br>00, 13-14=-35/805, 11-13<br>6, 6-11=-193/823, 3-17=-4   | 51/260<br>=-41/745,<br>468/288,   |   |   |  |                                    |
| NOTES-<br>1) Unbalanced roof live<br>2) Wind: ASCE 7-10; V<br>MWFRS (envelope)<br>Interior(1) 20-2-15 tr<br>MWFRS for reaction<br>3) Provide adequate dt<br>4) All plates are 5x9 M<br>5) This truss has been<br>% This truss ha | e loads have been considered for this de<br>/ult=130mph (3-second gust) Vasd=103r<br>gable end zone and C-C Exterior(2) -0-<br>o 24-0-0, Exterior(2) 24-0-0 to 28-2-15, Ir<br>as shown; Lumber DOL=1.60 plate grip E<br>rainage to prevent water ponding.<br>T20 unless otherwise indicated.<br>designed for a 10.0 psf bottom chord live<br>n designed for a live load of 20.0psf on the<br>ottom chord and any other members, wi<br>.0 psf) on member(s). 5-6<br>ad (40.0 psf) and additional bottom chord<br>intectors recommended to connect truss for<br>bes not consider lateral forces.<br>presentation does not depict the size or for<br>OWN IS DESIGNED AS UNINHABITAB | sign.<br>hph; TCDL=6.0psf; BCDL=<br>0-8 to 2-1-8, Interior(1) 2-<br>terior(1) 28-2-15 to 40-10<br>OL=1.60<br>e load nonconcurrent with<br>he bottom chord in all area<br>h BCDL = 10.0psf.<br>I dead load (0.0 psf) applie<br>o bearing walls due to UP<br>he orientation of the purlin<br>L. | =6.0psf; h=0ft; Cat. II; E<br>1-8 to 16-0-0, Exterior(2<br>-8 zone;C-C for membe<br>any other live loads.<br>as where a rectangle 3-6<br>ed only to room. 14-15,<br>LIFT at jt(s) 2, 9, and 14<br>a along the top and/or bo | xp B; Enclosed;<br>2) 16-0-0 to 20-2-1<br>rs and forces &<br>3-0 tall by 2-0-0 wi<br>13-14<br>4. This connection<br>bottom chord. | 5,<br>de<br>is  | A CONTRACT OF CONTRACT | SEAL<br>GINEE                      |



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|   | 1  | 7-3-4  | 14-0-0  | 1  | 20-0-0   | 1   | 26-0-0                           | 1                                      |  | 32-8-12  | 40-0-0  | 1                                  |
|---|--|--|---|--|--|---|----------------------------------|--|--|--|---|------------------------------------|
|   | Γ  | 7-3-4  | 6-8-12  |  | 6-0-0  | 1   | 6-0-0                            | 1                                      |  | 6-8-12   | 7-3-4   | 1                                  |
| LOADING (F<br>TCLL 2<br>TCDL 1<br>BCLL<br>BCDL 1                              | osf)<br>0.0<br>0.0<br>0.0 *<br>0.0   | SPACING-<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Inci<br>Code IRC2015  | 2-0-0<br>- 1.15<br>1.15<br>r YES<br>5/TPI2014   | <b>CSI</b> .<br>TC<br>BC<br>WB<br>Matr                         | 0.73<br>0.85<br>0.65<br>rix-S                                      | DEFL.<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)                   | in<br>-0.28<br>-0.56<br>0.11     | (loc)<br>13-16<br>13-16<br>10          | l/defl<br>>999<br>>855<br>n/a                    | L/d<br>240<br>180<br>n/a                                 | PLATES<br>MT20<br>Weight: 238 lb  | <b>GRIP</b><br>244/190<br>FT = 20% |
| LUMBER-<br>TOP CHORE<br>BOT CHORE<br>WEBS<br>REACTIONS                        | <ol> <li>2x4 SP</li> <li>2x6 SP</li> <li>2x4 SP</li> <li>(Ib/size<br/>Max Ho<br/>Max Up</li> </ol> | No.2<br>No.2<br>No.3<br>) 2=1650/0-3-8, 10:<br>prz 2=123(LC 12)<br>plift 2=-162(LC 12), 10                           | =1650/0-3-8<br>D=-162(LC 13)  |  |  | BRACING<br>TOP CHO<br>BOT CHO<br>WEBS                       | -<br>RD<br>RD                    | Structu<br>2-0-0 o<br>Rigid c<br>1 Row | ral wood<br>c purlins<br>eiling dire<br>at midpt | sheathing dirr<br>(3-6-11 max.)<br>ectly applied o<br>6- | ectly applied or 2-2-0 d<br>: 5-7.<br>r 10-0-0 oc bracing.<br>:16, 6-13 | oc purlins, except                 |
| FORCES. (<br>TOP CHORE<br>BOT CHORE<br>WEBS                                   | (Ib) - Max. (<br>) 2-3=-3<br>9-10=<br>) 2-17=<br>3-16=<br>9-13=                                    | Comp./Max. Ten All<br>3062/413, 3-5=-2468/<br>-3062/412<br>-281/2654, 16-17=-28<br>-608/240, 5-16=-31/7<br>-608/241  | forces 250 (lb) or<br>381, 5-6=-2112/38<br>31/2654, 13-16=-19<br>38, 6-16=-431/177                              | less excep<br>7, 6-7=-21<br>98/2307, 12<br>, 6-13=-43          | t when shown.<br>12/387, 7-9=-2<br>2-13=-288/265<br>1/177, 7-13=-3 | 468/381,<br>4, 10-12=-288/26<br>1/738,                      | 654                              |  |  |  |   |                                    |
| NOTES-<br>1) Unbalance<br>2) Wind: ASC<br>MWFRS (<br>Interior(1)<br>MWFRS for | ed roof live<br>CE 7-10; Vi<br>envelope) (<br>18-2-15 to<br>or reactions                           | loads have been con<br>ult=130mph (3-second<br>gable end zone and C<br>26-0-0, Exterior(2) 26<br>s shown; Lumber DOI | sidered for this de<br>d gust) Vasd=103r<br>C-C Exterior(2) -0-1<br>5-0-0 to 30-2-15, Ir<br>L=1.60 plate grip D | sign.<br>nph; TCDL<br>0-8 to 2-1-<br>nterior(1) 30<br>00L=1.60 | =6.0psf; BCDL<br>8, Interior(1) 2<br>0-2-15 to 40-10               | .=6.0psf; h=0ft; C<br>-1-8 to 14-0-0, E<br>D-8 zone;C-C for | cat. II; E<br>xterior(2<br>membe | xp B; En<br>2) 14-0-0<br>rs and fo     | closed;<br>to 18-2-1<br>prces &                  | 15,  |   |                                    |

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, with BCDL = 10.0psf.

6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.

7) 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  | 6-6-5  | 10-3-4  | 14-0-0   | 20-6-4   |   | 26-0-0   | 29-8-12  | 33-5-11  | 40-0-  | 0   |
|--|--|--|---|--|--|---|--|--|--|--|---|
| Diata Offacta (  | <u> </u>   | 6-6-5<br>(5-0 6 12 0 1 4) (6-  | 3-8-15 '  | 3-8-12   | 6-6-4  |   | 5-5-12 '   | 3-8-12   | 3-8-15   | 6-6-5  | 5   |
| Flate Olisets (  | ∧, t <i>)</i>  | [5.0-0-12,0-1-4], [0.  | .0-0-12,0-1-4]  |  |  |   |  |  |  |  |   |
| LOADING         (ps           TCLL         20.           TCDL         10.           BCLL         0.           BCDL         10.   | sf)<br>.0<br>.0<br>.0 *<br>.0  | SPACING-<br>Plate Grip D<br>Lumber DOL<br>Rep Stress I<br>Code IRC20   | 2-0-0<br>OL 1.15<br>- 1.15<br>Incr YES<br>015/TPI2014   | C<br>T<br>E<br>V<br>N  | : <b>SI.</b><br>C 0.90<br>iC 0.81<br>VB 0.27<br>flatrix-S  | <b>DEFL.</b><br>Vert(LL)<br>Vert(CT)<br>Horz(CT)  | in (loc)<br>-0.13 16-17<br>-0.25 2-17<br>0.08 9                                    | l/defl L/c<br>>999 240<br>>961 180<br>n/a n/a                        |  | <b>PLATES</b><br>MT20<br>MT18H<br>Weight: 247 lb | <b>GRIP</b><br>244/190<br>244/190<br>FT = 20% |
| LUMBER-<br>TOP CHORD<br>BOT CHORD<br>WEBS  | 2x4 SP<br>5-6: 2x<br>2x6 SP<br>2x4 SP<br>5-12: 2   | 9 No.2 *Except*<br>6 SP DSS<br>9 No.2<br>9 No.3 *Except*<br>x4 SP No.2   |   |  |  | BRACING-<br>TOP CHOR<br>BOT CHOR<br>WEBS  | D Structu<br>2-0-0 o<br>D Rigid c<br>1 Row   | ral wood sheat<br>oc purlins (4-10-<br>eiling directly a<br>at midpt | hing directly<br>7 max.): 5-6<br>pplied or 10-<br>5-12 | applied, except<br>0-0 oc bracing.               |   |
| REACTIONS.   | (Ib/size<br>Max H<br>Max U<br>Max G  | e) 2=1447/0-3-8, 9<br>orz 2=122(LC 16)<br>plift 2=-193(LC 12),<br>rav 2=1447(LC 1),  | 9=1436/0-3-8, 1<br>, 9=-198(LC 13)<br>9=1436(LC 1),   | 4=417/0-3-8<br>14=474(LC 3   | )  |   |  |  |  |  |   |
| FORCES. (Ib<br>TOP CHORD<br>BOT CHORD<br>WEBS  | o) - Max.<br>2-3=-<br>2-17=<br>9-11<br>5-17=<br>8-11=  | Comp./Max. Ten<br>2619/496, 3-5=-228<br>365/2274, 16-17=-<br>=-375/2254<br>77/620, 5-12=-270<br>403/265  | All forces 250 (I<br>35/454, 5-6=-16<br>-195/1667, 14-1<br>0/179, 6-12=-27  | b) or less ex<br>39/453, 6-8=-<br>6=-197/1670<br>1/93, 6-11=-7   | cept when shown.<br>2263/456, 8-9=-2<br>, 12-14=-197/167(<br>1/644, 3-17=-403  | 596/499<br>), 11-12=-206/163<br>/265,   | 35,  |  |  |  |   |
| NOTES-<br>1) Unbalanced<br>2) Wind: ASCE<br>MWFRS (er<br>Interior(1) 1'<br>MWFRS for<br>3) Provide ade<br>4) All plates ar<br>5) This truss h<br>6) * This truss<br>will fit between | d roof live<br>E 7-10; V<br>nvelope)<br>8-2-15 to<br>reaction<br>equate dr<br>re MT20<br>as been<br>has been | e loads have been c<br>(ult=130mph (3-second<br>gable end zone and<br>p 26-0-0, Exterior(2)<br>is shown; Lumber D<br>ainage to prevent w<br>plates unless otherwork<br>designed for a 10.0<br>n designed for a liver<br>othom chard and an | considered for th<br>ond gust) Vasd=<br>d C-C Exterior(2<br>) 26-0-0 to 30-2-<br>00L=1.60 plate;<br>vater ponding,<br>wise indicated.<br>) psf bottom cho<br>e load of 20.0ps | is design.<br>=103mph; TC<br>) -0-10-8 to 2<br>15, Interior(1<br>grip DOL=1.6<br>rd live load n<br>f on the botto<br>rs with BCD | DL=6.0psf; BCDL<br>-1-8, Interior(1) 2-<br>) 30-2-15 to 40-10<br>0<br>onconcurrent with<br>m chord in all are<br>= 10.0psf | =6.0psf; h=0ft; Ca<br>-1-8 to 14-0-0, Ex<br>0-8 zone;C-C for n<br>any other live loa<br>as where a rectar | tt. II; Exp B; En<br>terior(2) 14-0-0<br>nembers and fo<br>ds.<br>gle 3-6-0 tall b | iclosed;<br>to 18-2-15,<br>prces &<br>y 2-0-0 wide                   |  |  | CAROLINIE<br>ESSION                           |

- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.
- 8) 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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|   |   | 6-9-4<br>6-9-4   | 12-0-0<br>5-2-12  |  | 20-0-0<br>8-0-0   |  | 28-0-0<br>8-0-0                  | 0   |  | 33-2-12<br>5-2-12                                      | 40-0-0<br>6-9-4  |                                    |
|---|---|--|---|--|---|--|----------------------------------|---|--|--|--|------------------------------------|
| LOADING<br>TCLL<br>TCDL<br>BCLL<br>BCDL                     | (psf)<br>20.0<br>10.0<br>0.0 *<br>10.0                                  | SPACING-<br>Plate Grip I<br>Lumber DO<br>Rep Stress<br>Code IRC2   | 2-0-0<br>DOL 1.15<br>L 1.15<br>Incr YES<br>015/TPI2014  | CSI.<br>TC<br>BC<br>WB<br>Matri                            | 0.96<br>0.90<br>0.42<br>x-S                                   | DEFL.<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)                    | in<br>-0.21<br>-0.47<br>0.17     | (loc)<br>13<br>11-13<br>8                 | l/defl<br>>999<br>>999<br>n/a                        | L/d<br>240<br>180<br>n/a                               | <b>PLATES</b><br>MT20<br>Weight: 207 lb                            | <b>GRIP</b><br>244/190<br>FT = 20% |
| LUMBER-<br>TOP CHOR<br>BOT CHOR<br>WEBS                     | D 2x4 SP<br>4-6: 2x4<br>D 2x4 SP<br>12-14: :<br>2x4 SP                  | No.2 *Except*<br>4 SP No.1<br>No.2 *Except*<br>2x4 SP No.1<br>No.3   |   | 1  |   | BRACING<br>TOP CHO<br>BOT CHO<br>WEBS                        | -<br>RD<br>RD                    | Structu<br>2-0-0 o<br>Rigid co<br>1 Row a | ral wood s<br>c purlins (<br>eiling dire<br>at midpt | sheathing dire<br>2-2-0 max.):<br>ctly applied o<br>5- | ectly applied, except<br>4-6.<br>r 10-0-0 oc bracing.<br>-15, 5-11 |                                    |
| REACTION  | S. (Ib/size<br>Max He<br>Max Uj   | e) 2=1650/0-3-8,<br>orz 2=106(LC 16)<br>plift 2=-142(LC 12   | 8=1650/0-3-8<br>), 8=-142(LC 13)  |  |   |  |                                  |   |  |  |  |                                    |
| FORCES.<br>TOP CHOR<br>BOT CHOR<br>WEBS                     | (Ib) - Max.<br>D 2-3=-3<br>7-8=-3<br>D 2-16=<br>8-10:<br>3-15=<br>6-11= | Comp./Max. Ten<br>3039/417, 3-4=-25<br>3039/417<br>291/2626, 15-16=<br>=-296/2626<br>467/185, 4-15=-3<br>-38/772, 7-11=-46 | - All forces 250 (lb) of<br>73/412, 4-5=-2227/4<br>291/2626, 13-15=-2<br>8/772, 5-15=-790/17<br>7/186 | less except<br>06, 5-6=-222<br>48/2749, 11<br>I, 5-13=0/38 | when shown.<br>7/406, 6-7=-2<br>-13=-248/274<br>4, 5-11=-790/ | 573/412,<br>9, 10-11=-296/26<br>171,                         | 26,                              |   |  |  |  |                                    |
| NOTES-<br>1) Unbaland<br>2) Wind: AS<br>MWFRS<br>Interior(1 | ced roof live<br>CE 7-10; V<br>(envelope)<br>) 16-2-15 to               | e loads have been<br>ult=130mph (3-sec<br>gable end zone ar<br>28-0-0. Exterior/2  | considered for this de<br>cond gust) Vasd=103<br>id C-C Exterior(2) -0-<br>) 28-0-0 to 32-2-15. I     | sign.<br>mph; TCDL=<br>10-8 to 2-1-{<br>nterior(1) 32      | 6.0psf; BCDL<br>Interior(1) 2-<br>-2-15 to 40-10              | .=6.0psf; h=0ft; C<br>-1-8 to 12-0-0, E:<br>)-8 zone:C-C for | at. II; Ex<br>(terior(2<br>membe | xp B; En<br>:) 12-0-0<br>rs and fo        | closed;<br>to 16-2-1<br>prces &                      | 5,   |  |                                    |

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, with BCDL = 10.0psf.

6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.

7) 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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|   | 6-   | -0-5  | 12-0-0  | 4  | 20-6-4   |                     | 1  | 28-0-                        | -0                           |                               | 33-11-11                       |                           | 40-0                            | -0                                 |  |
|---|--|---|---|--|--|---------------------|--|------------------------------|------------------------------|-------------------------------|--------------------------------|---------------------------|---------------------------------|------------------------------------|--|
|   | 6-   | -0-5  | 5-11-11   |  | 8-6-4  |                     | 1  | 7-5-1                        | 2                            | 1                             | 5-11-11                        | -                         | 6-0-                            | 5 '                                |  |
| LOADING<br>TCLL<br>TCDL<br>BCLL<br>BCDL | (psf)<br>20.0<br>10.0<br>0.0 *<br>10.0   | SPACI<br>Plate C<br>Lumbe<br>Rep Si<br>Code                                     | NG-         2-0-0           Grip DOL         1.15           or DOL         1.15           irress Incr         YES           IRC2015/TPI2014 | CSI.<br>TC<br>BC<br>WB<br>Matr                                     | 0.80<br>0.88<br>0.65<br>ix-S                           | D<br>V<br>V<br>H    | EFL.<br>fert(LL)<br>fert(CT)<br>lorz(CT) | in<br>-0.44<br>-0.90<br>0.03 | (loc)<br>8-10<br>8-10<br>8   | l/defl<br>>529<br>>259<br>n/a | L/d<br>240<br>180<br>n/a       | PLA<br>MT2<br>Weiq        | <b>TES</b><br>20<br>ght: 200 lb | <b>GRIP</b><br>244/190<br>FT = 20% |  |
| LUMBER-<br>TOP CHOR<br>BOT CHOR         | P-<br>DRD 2x4 SP No.2 *Except*<br>4-6: 2x4 SP No.1<br>DRD 2x4 SP No.1 *Except*<br>11-13: 2x4 SP No.2 |   |   |  |  | BI                  | RACING-<br>OP CHOR                       | D                            | Structu<br>except<br>2-0-0 o | ral wood<br>c purlins         | sheathing dir<br>(10-0-0 max.) | ectly applie<br>): 4-6.   | ed or 5-1-10                    | oc purlins,                        |  |
| WEBS                                    | 11-13: 2x4 SP No.2<br>2x4 SP No.3  |   |   |  |  | BO                  | OT CHOR<br>/EBS                          | D                            | Rigid c<br>1 Row             | eiling dire<br>at midpt       | ectly applied c<br>4           | or 10-0-0 oc<br>-12, 6-12 | c bracing.                      |                                    |  |
| REACTION                                | IS. (Ib/size<br>Max H<br>Max U<br>Max G  | e) 2=682/0-<br>orz 2=-106(L<br>plift 2=-108(L<br>rav 2=719(LC                   | 3-8, 12=1987/0-3-8, 8=<br>C 13)<br>C 12), 12=-165(LC 9), 8<br>C 23), 12=1987(LC 1), 8   | 630/0-3-8<br>8=-119(LC 13)<br>=668(LC 24)                          |  |                     |  |                              |                              |                               |                                |                           |                                 |                                    |  |
| FORCES.<br>TOP CHOR<br>BOT CHOR<br>WEBS | (lb) - Max.<br>2-3=-<br>D 2-14=<br>3-14=<br>6-10=  | Comp./Max. 7<br>974/188, 3-4=<br>191/827, 12-<br>445/258, 4-1<br>-0/538, 7-10=- | Fen All forces 250 (Ib)<br>566/90, 4-5=0/591, 5-<br>-14=0/435, 10-12=0/310<br>4=0/556, 4-12=-1144/1<br>-461/258                             | or less excep<br>6=0/591, 6-7=-<br>), 8-10=-108/7<br>48, 5-12=-557 | t when shown<br>448/92, 7-8=-i<br>31<br>/251, 6-12=-1( | 865/215<br>056/135, |  |                              |                              |                               |                                |                           |                                 |                                    |  |
| NOTES-                                  |  |   |   |  |  |                     |  |                              |                              |                               |                                |                           |                                 |                                    |  |

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

 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 12-0-0, Exterior(2) 12-0-0 to 16-2-15, Interior(1) 16-2-15 to 28-0-0, Exterior(2) 28-0-0 to 32-2-15, Interior(1) 32-2-15 to 40-10-8 zone;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, with BCDL = 10.0psf.

6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 12, and 8. This connection is for uplift only and does not consider lateral forces.

7) 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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| <b>—</b>   | 10-0-0  | 20-0-0  | 30-0-0   | 40-0-0<br>10-0-0   |
|--|---|---|--|--|
| Plate Offsets (X,Y)  | [5:0-4-0,0-4-8]   |   |  |  |
| 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 IRC2015/TPI2014 | CSI.<br>TC 0.65<br>BC 0.74<br>WB 0.77<br>Matrix-S | DEFL.         in (loc)         l/defl         L/d           Vert(LL)         -0.22         12         >999         240           Vert(CT)         -0.44         10-12         >999         180           Horz(CT)         0.13         8         n/a         n/a | PLATES         GRIP           MT20         244/190           Weight: 242 lb         FT = 20%                   |
| LUMBER-<br>TOP CHORD 2x4 S<br>4-5,5<br>BOT CHORD 2x6 S<br>WEBS 2x4 S   | P No.2 *Except*<br>-6: 2x6 SP No.2<br>-P No.2<br>-P No.3  |   | BRACING-<br>TOP CHORD Structural wood sheath<br>2-0-0 oc purlins (3-8-15<br>BOT CHORD Rigid ceiling directly ap<br>WEBS 1 Row at midot   | ing directly applied or 2-6-9 oc purlins, except<br>i max.): 4-6.<br>plied or 10-0-0 oc bracing.<br>5-14, 5-10 |

REACTIONS. (lb/size) 2=1650/0-3-8, 8=1650/0-3-8 Max Horz 2=89(LC 16) Max Uplift 2=-131(LC 9), 8=-131(LC 8)

- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
- 2-3=-3059/462, 3-4=-2806/419, 4-5=-2469/405, 5-6=-2469/405, 6-7=-2806/419, TOP CHORD

14

4x8 =

7-8=-3059/462

64 13

4x6 =

- BOT CHORD 2-14=-332/2659, 12-14=-408/3466, 10-12=-408/3466, 8-10=-339/2659
- WEBS 4-14=-37/843, 5-14=-1217/283, 5-10=-1217/283, 6-10=-37/843, 5-12=0/385

# NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-0-0, Exterior(2) 10-0-0 to 14-2-15, Interior(1) 14-2-15 to 30-0-0, Exterior(2) 30-0-0 to 34-2-15, Interior(1) 34-2-15 to 40-10-8 zone; 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) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for

uplift only and does not consider lateral forces

7) 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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|  | 12.2.2   |   | =  |   |   |  |                                    |
|--|--|---|--|---|---|--|------------------------------------|
| [  | 10-0-0   | 5-3-2                                     | 5-3-2                                    |   | 9-5-12  | 10-0-0   |                                    |
| Plate Offsets (X,Y)  | [4:0-4-10,Edge], [5:0-4-0,0-4-8]   | [6:0-4-10,Edge]                           |  |   |   |  |                                    |
| LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0 | SPACING- 2-0-<br>Plate Grip DOL 1.1<br>Lumber DOL 1.1<br>Rep Stress Incr YES<br>Code IRC2015/TPI2014 | D CSI.<br>5 TC<br>5 BC<br>6 WB<br>Matrix- | 0.76 Vert<br>0.45 Vert<br>0.76 Hor.<br>S | <b>FL.</b> in<br>t(LL) -0.07<br>t(CT) -0.16<br>z(CT) 0.03 | (loc) l/defl<br>8-10 >999 2<br>8-10 >999 5<br>8 n/a             | L/d <b>PLATES</b><br>240 MT20<br>180<br>n/a Weight: 243 lb         | <b>GRIP</b><br>244/190<br>FT = 20% |
| LUMBER-<br>TOP CHORD 2x<br>4-  | 4 SP No.2 *Except*<br>5,5-6: 2x6 SP No.2   |   | BRA<br>TOP                               | ACING-<br>CHORD   | Structural wood sh<br>except                                    | eathing directly applied or 5-0-1                                  | 3 oc purlins,                      |
| BOT CHORD 2x<br>WEBS 2x  | 6 SP No.2<br>4 SP No.3   |   | BOT<br>WEE                               | CHORD   | 2-0-0 oc purlins (10<br>Rigid ceiling directl<br>1 Row at midpt | 0-0-0 max.): 4-6.<br>y applied or 10-0-0 oc bracing.<br>4-12, 6-12 |                                    |
| REACTIONS. (It   | o/size) 2=752/0-3-8, 12=1844/0-3-  | 3. 8=703/0-3-8                            |  |   |   |  |                                    |

Max Horz 2=-89(LC 13) Max Uplift 2=-107(LC 12), 12=-217(LC 9), 8=-112(LC 13) Max Grav 2=769(LC 23), 12=1844(LC 1), 8=720(LC 24)

10-0-0

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

TOP CHORD 2-3=-1149/199, 3-4=-839/131, 4-5=0/346, 5-6=0/348, 6-7=-719/116, 7-8=-1038/186

14

4x4 =

15-3-2

BOT CHORD 2-14=-158/967, 12-14=-18/691, 10-12=0/580, 8-10=-102/870

- WEBS 3-14=-308/198, 4-14=0/503, 4-12=-1100/152, 6-12=-1003/143, 6-10=0/476,
- 7-10=-325/199, 5-12=-722/321

#### NOTES-

0-4-3

18

4x6 =

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

 Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-0-0, Exterior(2) 10-0-0 to 14-2-15, Interior(1) 14-2-15 to 30-0-0, Exterior(2) 30-0-0 to 34-2-15, Interior(1) 34-2-15 to 40-10-8 zone;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) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 12, and 8. This connection is for uplift only and does not consider lateral forces.

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



818 Soundside Road Edenton, NC 27932 9

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4x6

14

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Scale = 1:70.8



| 1  | 8-0-0   | 16-0-9   | 23-11-7   | 32-0-0  | 40-0-0   |
|--|---|--|---|---|--|
| Γ  | 8-0-0   | 8-0-9  | 7-10-13   | 8-0-9   | 8-0-0  |
| Plate Offsets (X,Y)  | [3:0-4-10,Edge], [4:0-4-0   | ),0-4-12], [5:0-4-10,Edge]   |   |   |  |
| LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0 | SPACING-<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code IRC2015/T         | 2-0-0         CSI.           1.15         TC         0.           1.15         BC         0.           YES         WB         0.           Pl2014         Matrix-S | DEFL.         in           77         Vert(LL)         -0.27           74         Vert(CT)         -0.55           49         Horz(CT)         0.11 | (loc) l/defl L/d<br>10 >999 240<br>8-10 >865 180<br>6 n/a n/a   | PLATES         GRIP           MT20         244/190           Weight: 232 lb         FT = 20% |
| LUMBER-<br>TOP CHORD 2x4 \$<br>3-4,4<br>BOT CHORD 2x6 \$<br>WEBS 2x4 \$<br>3-10,   | SP DSS *Except*<br>-5: 2x6 SP DSS<br>SP No.2<br>SP No.3 *Except*<br>5-10: 2x4 SP No.2 |  | BRACING-<br>TOP CHORD<br>BOT CHORD<br>WEBS  | Structural wood sheathing dire<br>except<br>2-0-0 oc purlins (3-2-10 max.)<br>Rigid ceiling directly applied o<br>1 Row at midpt 3- | ectly applied or 3-0-11 oc purlins,<br>: 3-5.<br>r 10-0-0 oc bracing.<br>10, 5-10            |

## REACTIONS. (lb/size) 2=1650/0-3-8, 6=1650/0-3-8 Max Horz 2=72(LC 16) Max Uplift 2=-167(LC 9), 6=-167(LC 8)

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

TOP CHORD 2-3=-3130/418, 3-4=-4467/692, 4-5=-4467/692, 5-6=-3130/418

BOT CHORD 2-12=-312/2718, 10-12=-316/2708, 8-10=-282/2708, 6-8=-278/2718

WEBS 3-12=0/450, 3-10=-426/1980, 4-10=-906/392, 5-10=-427/1980, 5-8=0/450

## NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-0-0, Exterior(2) 8-0-0 to 12-2-15, Interior(1) 12-2-15 to 32-0-0, Exterior(2) 32-0-0 to 36-2-15, Interior(1) 36-2-15 to 40-10-8 zone;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) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for

uplift only and does not consider lateral forces.

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

# SEAL 044925 WGINEER, HERMIN March 8,2019

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| L   | 8-0-0  | 16-0-0  | )   | 20-8-   | 0 23-4-0  | 26-3-8   |  | 32-0-0   | 40-0-0   |                                    |
|---|--|---|---|---|---|--|--|--|--|------------------------------------|
| Plate Offects (X V)   | 8-0-0 '  | 8-0-0   |   | 4-8-0   | ) 2-8-0   | 2-11-8   |  | 5-8-8  | 8-0-0  |                                    |
|   | [3.0-4-10,Euge], [4.0-3-12,  | 0-4-0], [0.0-4-10   | ,∟ugej  |   |   |  |  |  |  |                                    |
| LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0  | SPACING-<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code IRC2015/TPI2   | 2-0-0<br>1.15<br>1.15<br>YES<br>2014  | <b>CSI.</b><br>TC (<br>BC (<br>WB (<br>Matrix-5   | ).86<br>).57<br>).79<br>S   | DEFL.<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)   | in (loc)<br>-0.14 13-15<br>-0.30 13-15<br>0.03 7                                       | l/defl<br>>999<br>>809<br>7 n/a                        | L/d<br>240<br>180<br>n/a                               | PLATES<br>MT20<br>Weight: 238 lb                                 | <b>GRIP</b><br>244/190<br>FT = 20% |
| LUMBER-<br>TOP CHORD 2x4 SP<br>3-4,4-6<br>BOT CHORD 2x6 SP<br>WEBS 2x4 SP<br>3-13: 2  | No.2 *Except*<br>: 2x6 SP No.2<br>No.2<br>No.3 *Except*<br>x4 SP No.2  |   |   |   | BRACING-<br>TOP CHORE<br>BOT CHORE<br>WEBS  | 0 Struc<br>2-0-0<br>0 Rigid<br>1 Rov   | tural wood<br>oc purlins<br>ceiling dire<br>w at midpt | sheathing dir<br>(6-0-0 max.):<br>ectly applied c<br>3 | ectly applied or 3-1-9 o<br>3-6.<br>or 10-0-0 oc bracing.<br>-13 | c purlins, except                  |
| REACTIONS. All be<br>(lb) - Max H<br>Max U<br>Max G   | arings 0-3-8 except (jt=len;<br>orz 2=72(LC 12)<br>plift All uplift 100 lb or less<br>rav All reactions 250 lb oi<br>24), 12=916(LC 23)  | gth) 10=5-11-0,<br>s at joint(s) 2, 10<br>r less at joint(s)  | 10=5-11-0.<br>) except 7=-<br>except 2=8  | -104(LC 13), 1<br>57(LC 23), 10   | 12=-207(LC 9)<br>=1025(LC 1), 10:   | =1025(LC 1   | ), 7=514(L0  | с  |  |                                    |
| FORCES.         (lb) - Max.           TOP CHORD         2-3=-           BOT CHORD         2-15=           WEBS         3-15=           5-10=  | Comp./Max. Ten All force<br>1340/170, 4-5=0/360, 5-6=<br>66/1110, 13-15=-71/1099<br>:0/474, 3-13=-947/157, 4-1<br>255/116  | es 250 (lb) or les<br>0/363, 6-7=-520<br>, 9-10=-1/361, 7<br>3=-380/302, 4-1  | ss except w<br>0/109<br>7-9=0/369<br>0=-636/29,   | hen shown.<br>6-10=-859/14  | 1, 6-9=0/353,   |  |  |  |  |                                    |
| NOTES-<br>1) Unbalanced roof live<br>2) Wind: ASCE 7-10; V<br>MWFRS (envelope)<br>Interior(1) 12-2-15 to<br>MWFRS for reaction<br>3) Provide adequate dr<br>4) This truss has been<br>will fit between the b<br>6) Provide mechanical<br>1) Creation Provide mechanical | loads have been consider<br>ult=130mph (3-second gus<br>gable end zone and C-C E<br>932-0-0, Exterior(2) 32-0-0<br>s shown; Lumber DOL=1.6<br>ainage to prevent water po<br>designed for a 10.0 psf bot<br>n designed for a live load o<br>ottom chord and any other<br>connection (by others) of th | ed for this desig<br>st) Vasd=103mp<br>xterior(2) -0-10-<br>to 36-2-15, Inte<br>50 plate grip DO<br>inding.<br>tom chord live k<br>f 20.0psf on the<br>members.<br>uss to bearing p | n.<br>h; TCDL=6.<br>8 to 2-1-8, l<br>rior(1) 36-2:<br>L=1.60<br>boad noncon<br>bottom cho | 0psf; BCDL=6<br>nterior(1) 2-1-<br>15 to 40-10-8<br>current with a<br>rd in all areas<br>e of withstanc | 6.0psf; h=0ft; Cat<br>8 to 8-0-0, Exter<br>3 zone;C-C for mo<br>ny other live load<br>where a rectang<br>ling 100 lb uplift | . II; Exp B; E<br>ior(2) 8-0-0<br>embers and<br>ls.<br>le 3-6-0 tall<br>at joint(s) 10 | Enclosed;<br>to 12-2-15<br>forces &<br>by 2-0-0 w      | ,<br>vide  | UNIT OR THE  | CAROLIN                            |

- 7) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 7, and 12. This connection is for uplift only and does not consider lateral forces.
- 8) 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  | 6-0-0   | 15-4-9  | 24-7-7  | 34-0-0  | 40-0-0  |
|--|---|---|---|---|---|
| I  | 6-0-0   | 9-4-9   | 9-2-13  | 9-4-9   | 6-0-0   |
| Plate Offsets (X,  | Y) [3:0-4-10,Edge]  | , [7:0-4-10,Edge], [11:0-4-12,Edge  | , [12:0-4-11,0-0-0], [13:0-3-8,0-2-0]   |   |   |
| LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0 | * Rep Stre<br>Code IR   | G-         2-0-0         CS           p DOL         1.15         TC           DOL         1.15         BC           ss Incr         YES         WE           C2015/TPI2014         Ma | DEFL.         in           0.77         Vert(LL)         -0.44 1           0.55         Vert(CT)         -0.92 1           0.97         Horz(CT)         0.16           rix-S         Image: State St | (loc) I/defi L/d PL<br>1-13 >999 240 MT<br>1-13 >516 180 MT<br>8 n/a n/a Wd   | ATES         GRIP           120         244/190           118H         244/190           eight: 206 lb         FT = 20% |
| LUMBER-<br>TOP CHORD 2<br>BOT CHORD 2<br>WEBS 2<br>3   | 2x4 SP No.2 *Except*<br>3-5,5-7: 2x6 SP DSS<br>2x4 SP DSS<br>2x4 SP No.3 *Except*<br>3-13,7-11: 2x4 SP No.3 | 2   | BRACING-<br>TOP CHORD<br>BOT CHORD<br>WEBS  | Structural wood sheathing directly appl<br>2-0-0 oc purlins (3-2-4 max.): 3-7.<br>Rigid ceiling directly applied or 10-0-0<br>7-4-7 oc bracing: 11-13.<br>1 Row at midpt 4-11 | ied or 2-2-0 oc purlins, except   |

## REACTIONS. (lb/size) 2=1650/0-3-8, 8=1650/0-3-8 Max Horz 2=56(LC 16) Max Uplift 2=-203(LC 9), 8=-203(LC 8)

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

- TOP CHORD 2-3=-3195/443, 3-4=-5415/904, 4-6=-5427/903, 6-7=-5430/905, 7-8=-3194/443
- BOT CHORD 2-14=-375/2789, 13-14=-380/2780, 11-13=-861/5412, 10-11=-346/2778, 8-10=-342/2788
- WEBS 3-14=0/347, 3-13=-562/2840, 4-13=-662/283, 6-11=-654/278, 7-11=-564/2856, 7-10=0/346

#### NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-0-0, Exterior(2) 6-0-0 to 10-2-15, Interior(1) 10-2-15 to 34-0-0, Exterior(2) 34-0-0 to 38-2-15, Interior(1) 38-2-15 to 40-10-8 zone; 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) All plates are MT20 plates unless otherwise indicated.

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) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.

8) 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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|  | 0-0-0  | 10-0-0   | 20-0-4   | 20-1-12  | 34-0-0   | 40-0-0   |
|--|--|--|--|--|--|--|
|  | 6-0-0  | 7-0-0  | 7-6-4  | 5-7-8  | 7-10-4   | 6-0-0  |
| Plate Offsets (X,  | Y) [3:0-2-12,0-0-12                          | 2], [5:0-3-12,0-4-8], [7:0-4-10  | ,Edge]   |  |  |  |
| LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0 | * Rep Stre<br>Code IR                        | G-         2-0-0           p DOL         1.15           DOL         1.15           iss Incr         YES           C2015/TPI2014         14 | CSI.         DE           TC         0.39         Ver           BC         0.37         Ver           WB         0.53         Hor           Matrix-S         Hor         Hor | FL.         in         (loc)           t(LL)         -0.05         16           t(CT)         -0.11         14-16           z(CT)         0.03         8 | l/defi L/d PLJ<br>>999 240 MT<br>>999 180<br>n/a n/a We        | ATES GRIP<br>20 244/190<br>ight: 243 lb FT = 20% |
| LUMBER-<br>TOP CHORD   | 2x4 SP No.2 *Except*<br>3-5.5-7: 2x6 SP No.2 |  | BR/<br>TOF   | ACING-<br>P CHORD Structur<br>2-0-0 or   | ral wood sheathing directly appli                              | ed or 4-7-2 oc purlins, except                   |
| BOT CHORD 2<br>WEBS 2  | 2x6 SP No.2<br>2x4 SP No.3                   |  | BO   | CHORD Rigid co<br>6-0-0 o  | eiling directly applied or 10-0-0 o<br>c bracing: 13-14,11-13. | c bracing, Except:                               |
| REACTIONS.   | All bearings 0-3-8.                          |  | WE   | BS 1 Row a   | at midpt 4-14, 7-11  |  |

26 1 12

34 0 0

20 6 4

(lb) - Max Horz 2=56(LC 12)

600

Max Uplift All uplift 100 lb or less at joint(s) 2, 8 except 11=-147(LC 8), 13=-183(LC 9) Max Grav All reactions 250 lb or less at joint(s) except 2=819(LC 23), 11=878(LC 24), 8=523(LC 24), 13=1087(LC 23)

- TOP CHORD 2-3=-1338/203, 3-4=-1242/227, 5-6=-34/327, 6-7=-33/330, 7-8=-675/106
- BOT CHORD 2-17=-115/1131, 16-17=-119/1122, 14-16=-184/1239, 10-11=-19/526, 8-10=-15/535

13 0 0

- WEBS 3-17=0/281, 4-16=0/282, 4-14=-1586/260, 5-14=-343/154, 6-11=-469/212,
  - 7-11=-901/145, 7-10=0/318

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-0-0, Exterior(2) 6-0-0 to 10-2-15, Interior(1) 10-2-15 to 34-0-0, Exterior(2) 34-0-0 to 38-2-15, Interior(1) 38-2-15 to 40-10-8 zone; 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) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 11, 8, and 13. This connection is for uplift only and does not consider lateral forces.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



10 0 0

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

| Job                  |             | Truss             | Truss Ty  | ре      |        | Qty      | Ply        | 140.1445 B 10x10C    | P REV1                 |               |            |
|----------------------|-------------|-------------------|-----------|---------|--------|----------|------------|----------------------|------------------------|---------------|------------|
|                      |             |                   |           |         |        |          |            |                      |                        |               | 136342425  |
| 20040A               |             | HG                | Hip Girde | er      |        | 1        | 1          |                      |                        |               |            |
|                      |             |                   |           |         |        |          |            | Job Reference (opti  | onal)                  |               |            |
| 84 Componer          | nts (Dunn), | Dunn, NC - 28334, |           |         |        |          | 8.220 s No | ov 16 2018 MiTek Inc | lustries, Inc. Fri Mar | 8 08:55:04 20 | 019 Page 1 |
|                      |             |                   |           |         | ID:B   | ITDcF1mp | 8o7VHDtn   | YyQ8bzeFIK-7t0Qe_    | T3?B1GG9iDa?A7Q        | c?jTHAljVNjkc | RIOIzd1Or  |
| -0 <sub>г</sub> 10-8 | 4-0-0       | 8-8-2             | 13-2-7    | 17-8-13 | 22-3-3 | 26-      | 9-9        | 31-3-14              | 36-0-0                 | 40-0-0        | 40-10-8    |
| 0-10-8               | 4-0-0       | 4-8-2             | 4-6-6     | 4-6-6   | 4-6-6  | 4-6      | -6         | 4-6-6                | 4-8-2                  | 4-0-0         | 0-10-8     |
|                      |             |                   |           |         |        |          |            |                      |                        |               |            |

Scale = 1:68.7



| 1   | 4-0-0   | 8-8-2   | 13-2-7  | 17-8-13   | 22-3-3   | 26-9-9  | 31-  | 3-14  | 36-0-0  | 40-0-0  |                                       |
|---|---|---|---|---|--|---|--|---|---|---|---------------------------------------|
| Г   | 4-0-0   | 4-8-2   | 4-6-6   | 4-6-6   | 4-6-6  | 4-6-6   | 4-   | 6-6   | 4-8-2   | 4-0-0   |                                       |
| Plate Offse   | ets (X Y)   | [2:0-4-0 0-1-15] [3:0-5-  | 12 0-2-121 [12.0.   | 3-0 0-2-71 [13:0-4-0 0-1  | -15] [15:0-3-8.0   | -2-8] [17.0-6-0 0   | -5-01 [20.0  | )-6-0 0-4-81  |   |   |                                       |
|   | 510 (71,17)   | [2:0 1 0,0 1 10], [0:0 0  | 12,0 2 12], [12.0   | 0 0,0 2 1], [10.0 1 0,0 1   | 10], [10.0 0 0,0   | 2 0], [17:0 0 0,0   | 0 0], [20.0  | 700,010   |   |   |                                       |
| LOADING<br>TCLL<br>TCDL<br>BCLL<br>BCDL   | (psf)<br>20.0<br>10.0<br>0.0 *<br>10.0  | SPACING-<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr<br>Code IRC2015/  | 2-0-0<br>1.15<br>1.15<br>NO<br>TPI2014  | CSI.<br>TC 0.90<br>BC 0.89<br>WB 0.99<br>Matrix-S   | DEFL.<br>Vert(LL)<br>Vert(CT)<br>Horz(CT)  | in (loc)<br>1.02 18-19<br>-1.81 18-19<br>0.24 13  | l/defl<br>>467<br>>263<br>n/a  | L/d<br>240<br>180<br>n/a                                | <b>PLATES</b><br>MT20<br>MT18H<br>Weight: 250 I                 | <b>GRIP</b><br>244/190<br>244/190<br>b FT = 20% |                                       |
| LUMBER-<br>TOP CHO<br>BOT CHO<br>WEBS   | RD 2x6 SF<br>1-3,12-<br>RD 2x6 SF<br>2x4 SF<br>3-21,5-  | 2 DSS *Except*<br>14: 2x4 SP No.2<br>2 DSS<br>2 No.3 *Except*<br>21,5-19,8-19,8-17,11-1   | 7,11-15: 2x4 SP   | No.2  | BRACING<br>TOP CHO<br>BOT CHO<br>WEBS  | אר Structul<br>PRD Structul<br>2-0-0 סי<br>PRD Rigid סי<br>1 Row ו  | ral wood s<br>c purlins (i<br>eiling direc<br>at midpt                 | heathing dire<br>2-1-12 max.):<br>tly applied or<br>5-2 | ctly applied or 2-3-<br>3-12.<br>5-0-2 oc bracing.<br>21, 11-15 | 5 oc purlins, excep                             | t                                     |
| REACTIO   | NS. (Ib/size<br>Max H<br>Max U  | e) 2=2281/0-3-8, 13=2<br>orz 2=40(LC 12)<br>plift 2=-522(LC 9), 13=-  | 2310/0-3-8<br>557(LC 8)   |   |  |   |  |   |   |   |                                       |
| FORCES.<br>TOP CHO  | (lb) - Max.<br>RD 2-3=-<br>8-10=  | Comp./Max. Ten All f<br>4617/1134, 3-4=-7798/2<br>10260/2706, 10-11=-1  | orces 250 (lb) or<br>2037, 4-5=-7797/<br>0260/2706, 11-12   | less except when shown<br>2036, 5-7=-11417/2997,<br>2=-4004/1049, 12-13=-46   | 7-8=-11417/299<br>679/1185   | 7,  |  |   |   |   |                                       |
| BOT CHO   | RD 2-22=<br>18-19<br>13-19  | =-996/4075, 21-22=-100<br>9=-2976/11434, 17-18=-<br>5=-1022/4131  | 2/4062, 20-21=-2<br>2976/11434, 16-   | 2651/10217, 19-20=-265<br>17=-2027/7851, 15-16=-2   | 1/10217,<br>2027/7851,   |   |  |   |   |   |                                       |
| WEBS  | 3-22=<br>5-19=<br>11-17   | =0/281, 3-21=-1098/405<br>=-348/1308, 7-19=-364/2<br>7=-687/2617, 11-15=-41   | 4, 4-21=-417/236<br>209, 8-18=0/255,<br>49/1123, 12-15=-  | 5, 5-21=-2628/710, 5-20=<br>8-17=-1280/341, 10-17=<br>-354/1700   | =0/254,<br>=-378/210,  |   |  |   |   |   |                                       |
| NOTES-<br>1) Unbalar<br>2) Wind: A<br>MWFRS<br>Interior(<br>for reac<br>3) Provide<br>4) All plate<br>5) This tru<br>6) * This tru<br>6) * This tru<br>7) One RT<br>uplift on<br>8) Graphic<br>9) "NAILEI<br>10) In the | Anced roof live<br>SCE 7-10; V<br>S (envelope)<br>1) 8-2-15 to<br>tions shown;<br>adequate di<br>us are MT20<br>ss has been<br>uss has been<br>uss has been<br>etween the b<br>7A USP con<br>ly and does<br>al purlin repi<br>D" indicates<br>LOAD CASE | e loads have been consi<br>(ult=130mph (3-second<br>gable end zone and C<br>36-0-0, Exterior(2) 36-0<br>Lumber DOL=1.60 plat<br>rainage to prevent water<br>plates unless otherwise<br>designed for a 10.0 psf<br>n designed for a 10.0 psf<br>nottom chord and any ot<br>nectors recommended 1<br>not consider lateral forc<br>resentation does not de<br>3-10d (0.148"x3") or 3-1<br>(S) section, loads appli | dered for this des<br>gust) Vasd=103n<br>C Exterior(2) -0-1<br>-0 to 40-2-15, Intr<br>e grip DOL=160<br>r ponding.<br>indicated.<br>bottom chord live<br>d of 20.0psf on the<br>her members.<br>to connect truss t<br>es.<br>pict the size or th<br>2d (0.148"x3.25"<br>ed to the face of the | sign.<br>nph; TCDL=6.0psf; BCDI<br>0-8 to 2-1-8, Interior(1) 2<br>erior(1) 40-2-15 to 40-10<br>e load nonconcurrent with<br>ne bottom chord in all are<br>to bearing walls due to UI<br>e orientation of the purlin<br>) toe-nails per NDS guidd<br>he truss are noted as fro | L=6.0psf; h=0ft;<br>2-1-8 to 4-0-0, E><br>-8 zone;C-C for the<br>h any other live le<br>eas where a rect<br>PLIFT at jt(s) 2 a<br>h along the top at<br>lines.<br>ont (F) or back (E | Cat. II; Exp B; En<br>terior(2) 4-0-0 to<br>nembers and fore<br>pads.<br>angle 3-6-0 tall by<br>ind 13. This conn<br>nd/or bottom chor<br>b). | closed;<br>8-2-15,<br>ces & MW<br>y 2-0-0 wid<br>vection is for<br>rd. | FRS<br>le<br>pr   | Annun Bert  | H CARO<br>SEAL<br>044925                        | A A A A A A A A A A A A A A A A A A A |

- 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) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 13. This connection is for uplift only and does not consider lateral forces.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

## Continued on page 2

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 sand truss systems, see **ANSITTPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



March 8,2019

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| Job                   | Truss             | Truss Type | Qty | Ply        | 140.1445 B 10x10CP REV1                                  |           |
|-----------------------|-------------------|------------|-----|------------|--|-----------|
|                       |                   |            |     |            |  | 136342425 |
| 20040A                | HG                | Hip Girder | 1   | 1          |  |           |
|                       |                   |            |     |            | Job Reference (optional)                                 |           |
| 84 Components (Dunn), | Dunn, NC - 28334, |            |     | 8.220 s No | v 16 2018 MiTek Industries, Inc. Fri Mar 8 08:55:04 2019 | Page 2    |

8.220 s Nov 16 2018 MiTek Industries, Inc. Fri Mar 8 08:55:04 2019 Page 2 ID:BITDcF1mp8o7VHDtnYyQ8bzeFIK-7t0Qe\_T3?B1GG9iDa?A7Qc?jTHAIjVNjkqRIOIzd1Or

#### LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-3=-60, 3-12=-60, 12-14=-60, 2-13=-20

Concentrated Loads (lb)

Vert: 3=-46(B) 62=-46(B) 12=-54(B) 22=-18(B) 15=-18(B) 9=-46(B) 23=-44(B) 24=-46(B) 25=-46(B) 26=-46(B) 27=-46(B) 28=-46(B) 29=-46(B) 30=-46(B) 31=-46(B) 32=-46(B) 32=-46(B) 32=-46(B) 33=-46(B) 33

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 MiTeki® 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 **ANSITTPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



| Job                        | Truss             | Truss Type |        | Qty           | Ply        | 140.1445 B 10x10    | CP REV1                 |               |                |
|----------------------------|-------------------|------------|--------|---------------|------------|---------------------|-------------------------|---------------|----------------|
|                            |                   |            |        |               |            |                     |                         |               | 136342426      |
| 20040A                     | HGS               | Hip Girder |        | 1             | 1          |                     |                         |               |                |
|                            |                   |            |        |               |            | Job Reference (op   | tional)                 |               |                |
| 84 Components (Dunn),      | Dunn, NC - 28334, |            |        |               | 8.220 s No | ov 16 2018 MiTek Ir | ndustries, Inc. Fri Mar | 8 08:55:07 20 | 19 Page 1      |
|                            |                   |            |        | ID:BITDcF1mp8 | o7VHDtnY   | yQ8bzeFlK-XSiYH(    | 0VxI6Pr7cRoF8kq2FdI     | -IjVIKws5AQog | z_dzd1Oo       |
| -0 <sub>0</sub> 10-8 4-0-0 | 8-2-14 12-4       | -0 16-5-2  | 20-6-4 | 26-1-12       |            | 31-0-0              | 36-0-0                  | 40-0-0        | 40-10-8        |
| 0-10-8 4-0-0               | 4-2-14 4-1        | 2 4-1-2    | 4-1-2  | 5-7-8         | 1          | 4-10-4              | 5-0-0                   | 4-0-0         | 0-10-8         |
|                            |                   |            |        |               |            |                     |                         |               |                |
|                            |                   |            |        |               |            |                     |                         |               | Scale = 1:68.7 |
|                            |                   |            |        |               |            |                     |                         |               |                |
|                            |                   |            |        |               |            |                     |                         |               |                |



NAILED NAILED

| 4-0-0   | 8-2-14 12-4-0   | <u>16-5-2</u> 20-6   | 6-4 <u>26-1-12</u>   | 31-0-0   | 36-0-0   | 40-0-0                             |
|---|---|--|--|--|--|------------------------------------|
| Plate Offsets (X,Y)   | [3:0-7-0,0-2-8], [9:0-4-8,0-3-0], [10:0-3-  | 0,0-2-0], [18:0-4-0,0-4-8]   | 010  | - 10 +   | 000  | 400                                |
| 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 NO<br>Code IRC2015/TPI2014  | CSI.<br>TC 0.71<br>BC 0.45<br>WB 0.93<br>Matrix-S  | DEFL. i<br>Vert(LL) 0.1<br>Vert(CT) -0.1<br>Horz(CT) 0.0   | n (loc) l/defl L/d<br>) 19-20 >999 240<br>8 19-20 >999 180<br>2 17 n/a n/a   | PLATES<br>MT20<br>Weight: 224 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>REACTIONS. All b<br>(lb) - Max H<br>Max U<br>Max C  | <ul> <li>P No.2</li> <li>P No.2</li> <li>P No.3</li> <li>borz 2=41(LC 12)</li> <li>Jplift All uplift 100 lb or less at joint(s) 1</li> <li>Grav All reactions 250 lb or less at joint 11=493(LC 24)</li> </ul>  | 1 except 2=-199(LC 12),<br>(s) except 2=1028(LC 23)  | BRACING-<br>TOP CHORD<br>BOT CHORD<br>17=-507(LC 9), 15=-140<br>), 17=1923(LC 23), 15=7  | Structural wood sheathing c<br>2-0-0 oc purlins (3-6-13 ma:<br>Rigid ceiling directly applied<br>5-10-5 oc bracing: 17-18<br>5-10-6 oc bracing: 15-17.<br>I(LC 8)<br>718(LC 24), | directly applied or 4-1-3<br>x.): 3-10.<br>d or 10-0-0 oc bracing, | oc purlins, except<br>Except:      |
| FORCES. (lb) - Max.<br>TOP CHORD 2-3=<br>7-8=<br>BOT CHORD 2-21<br>15-7<br>WEBS 3-21<br>6-18<br>9-15  | Comp./Max. Ten All forces 250 (lb) o<br>-1785/415, 3-4=-2164/569, 4-5=-2164/5<br>-144/709, 8-9=-144/709, 9-10=-566/174<br>=-345/1533, 20-21=-340/1546, 19-20=-4<br>(7=-1468/393, 14-15=-152/482, 13-14=-<br>0/269, 3-20=-231/705, 4-20=-349/203,<br>=-299/174, 7-18=-576/2252, 7-17=-169<br>=-1188/212  | less except when shown<br>59, 5-6=-564/189, 6-7=-56<br>10-11=-686/164<br>76/1881, 18-19=-476/188<br>152/482, 11-13=-81/563<br>5-20=-66/315, 5-19=0/26<br>2/571, 7-15=-213/815, 8-1   | n.<br>64/189,<br>81, 17-18=-1468/393,<br>52, 5-18=-1462/374,<br>15=-410/221,   |  |  |                                    |
| NOTES-<br>1) Unbalanced roof liv<br>2) Wind: ASCE 7-10; MWFRS (envelope)<br>Interior(1) 8-2-14 to<br>for reactions shown<br>3) Provide adequate d<br>4) This truss has been<br>will fit between the I<br>6) One RT7A USP cor<br>is for uplift only and<br>7) Graphical purlin rep<br>8) "NAILED" indicates<br>9) In the LOAD CASE | e loads have been considered for this de<br>/ult=130mph (3-second gust) Vasd=103<br>gable end zone and C-C Exterior(2) -0-<br>36-0-0, Exterior(2) 36-0-0 to 40-2-15, In<br>; Lumber DOL=1.60 plate grip DOL=1.6<br>rainage to prevent water ponding.<br>designed for a 10.0 psf bottom chord liv<br>in designed for a live load of 20.0psf on<br>pottom chord and any other members.<br>unectors recommended to connect truss<br>does not consider lateral forces.<br>resentation does not depict the size or tt<br>3-10d (0.148"x3") or 3-12d (0.148"x3.25<br>S) section, loads applied to the face of t | esign.<br>mph; TCDL=6.0psf; BCDI<br>10-8 to 2-1-8, Interior(1) 2<br>terior(1) 40-2-15 to 40-10<br>o<br>re load nonconcurrent with<br>the bottom chord in all are<br>to bearing walls due to U<br>ne orientation of the purlin<br>") toe-nails per NDS guid<br>he truss are noted as from | L=6.0psf; h=0ft; Cat. II; 1<br>2-1-8 to 4-0-0, Exterior(2<br>-8 zone;C-C for membe<br>th any other live loads.<br>eas where a rectangle 3<br>IPLIFT at jt(s) 2, 17, 15,<br>n along the top and/or bo<br>tlines.<br>nt (F) or back (B). | Exp B; Enclosed;<br>1) 4-0-0 to 8-2-14,<br>rs and forces & MWFRS<br>-6-0 tall by 2-0-0 wide<br>and 11. This connection<br>ottom chord.   | A DE CONTRACT  | SEAL<br>044925                     |
| LOAD CASE(S) Stan   | dard  |  |  |  | 1,07   | THE CEN IN                         |

- is for uplift only and does not consider lateral forces.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
   8) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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

# Continued on page 2

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 collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses sand truss systems, see Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



March 8,2019

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| Job                   | Truss             | Truss Type | Qty | Ply        | 140.1445 B 10x10CP REV1                                   |           |
|-----------------------|-------------------|------------|-----|------------|---|-----------|
|                       |                   |            |     |            |   | 136342426 |
| 20040A                | HGS               | Hip Girder | 1   | 1          |   |           |
|                       |                   |            |     |            | Job Reference (optional)                                  |           |
| 84 Components (Dunn), | Dunn, NC - 28334, |            |     | 8.220 s No | ov 16 2018 MiTek Industries, Inc. Fri Mar 8 08:55:07 2019 | Page 2    |

ID:BITDcF1mp8o7VHDtnYyQ8bzeFIK-XSiYH0VxI6Pr7cRoF8kq2FdHjVIKws5AQogz\_dzd1Oo

LOAD CASE(S) Standard

Uniform Loads (plf) Vert: 1-3=-60, 3-10=-60, 10-12=-60, 2-11=-20

Concentrated Loads (lb)

Vert: 3=-46(F) 21=-18(F) 20=-18(F) 4=-46(F) 5=-46(F) 19=-18(F) 8=-54(F) 15=-18(F) 16=-18(F) 22=-44(F) 23=-46(F) 24=-46(F) 25=-46(F) 26=-46(F) 27=-46(F) 28=-46(F) 29=-46(F) 30=-46(F) 34=-42(F) 35=-18(F) 36=-18(F) 38=-18(F) 39=-18(F) 40=-18(F) 41=-18(F)

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|   |   |                                       | 4-0-0  |                          |   | 1                      |                |                        |
|---|---|---------------------------------------|--|--------------------------|---|------------------------|----------------|------------------------|
| LOADING (psf)<br>TCLL 20.0<br>TCDL 10.0<br>BCLL 0.0 * | SPACING- 2-0-0<br>Plate Grip DOL 1.15<br>Lumber DOL 1.15<br>Rep Stress Incr YES | CSI.<br>TC 0.23<br>BC 0.17<br>WB 0.00 | DEFL. in<br>Vert(LL) -0.01<br>Vert(CT) -0.02<br>Horz(CT) -0.00 | (loc)<br>2-4<br>2-4<br>3 | l/defl L<br>>999 24<br>>999 18<br>n/a n | ./d<br>40<br>80<br>n/a | PLATES<br>MT20 | <b>GRIP</b><br>244/190 |
| BCDL 10.0   | Code IRC2015/TPI2014  | Matrix-P                              |  |                          |   |                        | Weight: 14 lb  | FT = 20%               |

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (lb/size) 3=106/Mechanical, 2=221/0-3-8, 4=38/Mechanical Max Horz 2=91(LC 12) Max Uplift 3=-67(LC 12), 2=-32(LC 12) Max Grav 3=106(LC 1), 2=221(LC 1), 4=76(LC 3)

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

#### NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-11-4 zone;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) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.



Structural wood sheathing directly applied or 4-0-0 oc purlins.

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

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|   |  |                                       | 4-0-0  |   |  |
|---|--|---------------------------------------|--|---|--|
| LOADING (psf)<br>TCLL 20.0<br>TCDL 10.0<br>BCLL 0.0 * | SPACING- 2-0-0<br>Plate Grip DOL 1.15<br>Lumber DOL 1.15<br>Peo Strass Incr. YES | CSI.<br>TC 0.23<br>BC 0.17<br>WB 0.00 | DEFL.         in         (loc)         l/defl           Vert(LL)         -0.01         2-4         >999           Vert(CT)         -0.02         2-4         >999           Horz(CT)         -0.00         3         p/a | L/d <b>PLATES GRIP</b><br>240 MT20 244/190<br>180 |  |
| BCDL 10.0   | Code IRC2015/TPI2014   | Matrix-P                              | 1012(01) -0.00 0 1/4   | Weight: 14 lb FT = 20%                            |  |

LUMBER-

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

REACTIONS. (lb/size) 3=106/Mechanical, 2=221/0-3-8, 4=38/Mechanical Max Horz 2=91(LC 12) Max Uplift 3=-67(LC 12), 2=-32(LC 12) Max Grav 3=106(LC 1), 2=221(LC 1), 4=76(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-11-4 zone;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) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.



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BRACING-TOP CHORD BOT CHORD

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



|         |         | •                    |          | 4-0-0                                    |  |
|---------|---------|----------------------|----------|--|--|
| LOADING | í (psf) | SPACING- 2-0-0       | CSI.     | DEFL. in (loc) I/defl L/d PLATES GRIP    |  |
| TCLL    | 20.0    | Plate Grip DOL 1.15  | TC 0.27  | Vert(LL) -0.01 1-3 >999 240 MT20 244/190 |  |
| TCDL    | 10.0    | Lumber DOL 1.15      | BC 0.17  | Vert(CT) -0.02 1-3 >999 180              |  |
| BCLL    | 0.0 *   | Rep Stress Incr YES  | WB 0.00  | Horz(CT) -0.00 2 n/a n/a                 |  |
| BCDL    | 10.0    | Code IRC2015/TPI2014 | Matrix-P | Weight: 13 lb FT = 20%                   |  |

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 4-0-0 oc purlins.

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

LUMBER-

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

REACTIONS. (lb/size) 1=152/0-3-8, 2=114/Mechanical, 3=38/Mechanical Max Horz 1=78(LC 12) Max Uplift 1=-7(LC 12), 2=-71(LC 12)

Max Grav 1=152(LC 1), 2=114(LC 1), 3=76(LC 3)

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

#### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWERS (anyclose) gable and zone and C. C. Exterior(2) 0.1.12 to 3.1.12 to 3.1.14 zone; C. C. for members and
- MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 3-11-4 zone; 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) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.



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|               | 2-0-0                |                                     |                       |  |  |  |  |  |
|---------------|----------------------|-------------------------------------|-----------------------|--|--|--|--|--|
| LOADING (psf) | SPACING- 2-0-0       | CSI. DEFL. in (loc) I/defl L/d      | PLATES GRIP           |  |  |  |  |  |
| TCLL 20.0     | Plate Grip DOL 1.15  | TC 0.06 Vert(LL) -0.00 2 >999 240   | MT20 244/190          |  |  |  |  |  |
| TCDL 10.0     | Lumber DOL 1.15      | BC 0.04 Vert(CT) -0.00 2-4 >999 180 |                       |  |  |  |  |  |
| BCLL 0.0      | Rep Stress Incr YES  | WB 0.00 Horz(CT) -0.00 3 n/a n/a    |                       |  |  |  |  |  |
| BCDL 10.0     | Code IRC2015/TPI2014 | Matrix-P                            | Weight: 8 lb FT = 20% |  |  |  |  |  |

LUMBER-

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

 REACTIONS.
 (lb/size)
 3=46/Mechanical, 2=145/0-3-8, 4=20/Mechanical

 Max Horz
 2=53(LC 12)

 Max Uplift
 3=-31(LC 12), 2=-29(LC 12)

 Max Grav
 3=46(LC 1), 2=145(LC 1), 4=39(LC 3)

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

#### NOTES-

 Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;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) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.



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



|                                     |                | I        |       | 2-0-   | 0    |          |       |       |        | 4-0-0 |               |          |
|-------------------------------------|----------------|----------|-------|--------|------|----------|-------|-------|--------|-------|---------------|----------|
| Plate Offsets (X,Y) [3:0-2-0,0-2-8] |                |          |       |        |      |          |       |       |        |       |               |          |
| LOADING (ps                         | sf) SPACIN     | G-       | 2-0-0 | CSI.   |      | DEFL.    | in    | (loc) | l/defl | L/d   | PLATES        | GRIP     |
| TCLL 20                             | 0.0 Plate Gr   | ip DOL   | 1.15  | TC     | 0.23 | Vert(LL) | 0.02  | 2-5   | >999   | 240   | MT20          | 244/190  |
| TCDL 10                             | 0.0 Lumber     | DOL      | 1.15  | BC     | 0.24 | Vert(CT) | -0.03 | 2-5   | >999   | 180   |               |          |
| BCLL 0                              | 0.0 * Rep Stre | ess Incr | NO    | WB     | 0.00 | Horz(CT) | 0.02  | 4     | n/a    | n/a   |               |          |
| BCDL 10                             | .0 Code IF     | C2015/TP | 12014 | Matrix | κ-P  |          |       |       |        |       | Weight: 14 lb | FT = 20% |
|                                     |                |          |       |        |      |          |       |       |        |       |               |          |

LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2

BRACING-TOP CHORD

 TOP CHORD
 Structural wood sheathing directly applied or 4-0-0 oc purlins, except 2-0-0 oc purlins: 3-4.

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

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 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;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) 4.
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 46 lb down and 45 lb up at
- 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

# LOAD CASE(S) Standard

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

Vert: 1-3=-60, 3-4=-60, 2-5=-20 Concentrated Loads (lb) Vert: 6=-46(B)





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REACTIONS. (lb/size) 4=104/Mechanical, 2=244/0-3-8, 5=62/Mechanical Max Horz 2=54(LC 12) Max Uplift 4=-45(LC 9), 2=-61(LC 12) Max Grav 4=104(LC 1), 2=244(LC 1), 5=78(LC 3)