

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 23701A 12 x 12 Hip Porch Add

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: I41060694 thru I41060703

My license renewal date for the state of North Carolina is December 31, 2020.

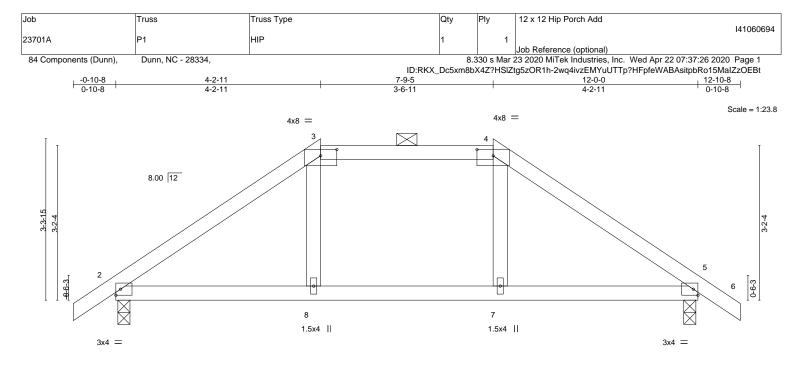
North Carolina COA: C-0844



April 22,2020

Sevier, Scott

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



| | | | 7-9-5 3-6-11 | | | 0-0-8 4-2-11 0-0-8 4-2-3 Plate Offsets (X,Y) [3:0-4-0,0-1-9], [4:0-4-0,0-1-9] | | | | | | |
|--|-----------|--------------------|------------------------|-----------------------|---------------------|---|--------------|-------------------------|-----------------------|--|-----------------------|---------------------------------|
| PLATES GRIP MT20 244/190 | MT20 | 9 240 | l/defl >999 >999 | (loc) 8-11 7-14 | in 0.06 -0.05 | DEFL. Vert(LL) Vert(CT) | 0.26 0.23 | CSI. TC BC | 2-0-0 1.15 1.15 | SPACING- Plate Grip DOL Lumber DOL | (psf) 20.0 10.0 | L OADING TCLL TCDL |
| Weight: 50 lb FT = 20% | | ′a n/a | n/a | 5 | -0.01 | Horz(CT) | 0.06 x-MS | WB Matri | YES PI2014 | Rep Stress Incr Code IRC2015/TF | 0.0 * 10.0 | BCLL BCDL |
| | hing dire | ood sheathing dire | Iral wood | Structu | | BRACING- TOP CHOR | x-MS | Matri | 912014 | | | LUMBER- |

BOT CHORD

2-0-0 oc purlins (6-0-0 max.): 3-4.

Rigid ceiling directly applied or 8-0-13 oc bracing.

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

REACTIONS. (size) 2=0-3-0, 5=0-3-0 Max Horz 2=-111(LC 10) Max Uplift 2=-195(LC 9), 5=-195(LC 8) Max Grav 2=533(LC 1), 5=533(LC 1)

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

TOP CHORD 2-3=-625/744, 3-4=-461/667, 4-5=-625/745

BOT CHORD 2-8=-511/465, 7-8=-499/461, 5-7=-511/465

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) 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.

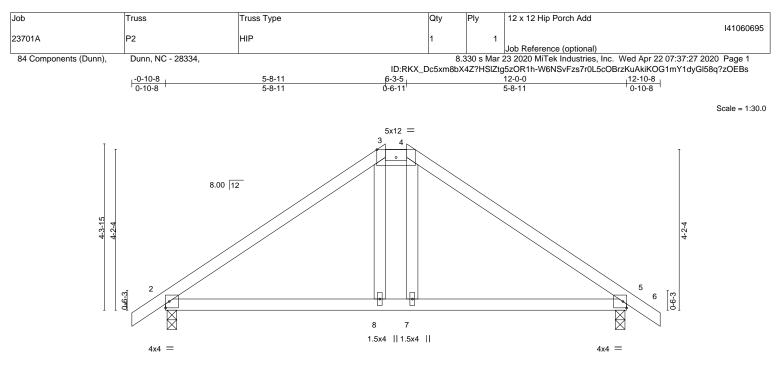
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=195, 5=195.

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



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





| | 0-0 <u>-8</u> 0-0-8 | <u>5-8-11</u> 5-8-3 | | 6-3-5 0-6-11 | | | 11-11-8 5-8-3 | | <u>12-</u> 0-0 0-0-8 | |
|---------------------|------------------------|------------------------|---------|-----------------|-------|-------|------------------|-----|-------------------------|----------|
| Plate Offsets (X,Y) | [3:0-6-0,0-2-7] | | | | | | | | 1 | |
| LOADING (psf) | SPACING- | 2-0-0 CS | a. | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL | 1.15 TC | 0.42 | Vert(LL) | 0.08 | 8-11 | >999 | 240 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 BC | 0.32 | Vert(CT) | -0.07 | 7-14 | >999 | 180 | | |
| BCLL 0.0 * | Rep Stress Incr | YES WI | 3 0.06 | Horz(CT) | -0.01 | 2 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2 | 2014 Ma | trix-MS | | | | | | Weight: 54 lb | FT = 20% |

TOP CHORD

BOT CHORD

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

REACTIONS. (size) 2=0-3-0, 5=0-3-0 Max Horz 2=-144(LC 10) Max Uplift 2=-147(LC 12), 5=-147(LC 13) Max Grav 2=533(LC 1), 5=533(LC 1)

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

 TOP CHORD
 2-3=-577/640, 3-4=-454/609, 4-5=-577/640

BOT CHORD 2-8=-397/405, 7-8=-389/402, 5-7=-397/405

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=147, 5=147.

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



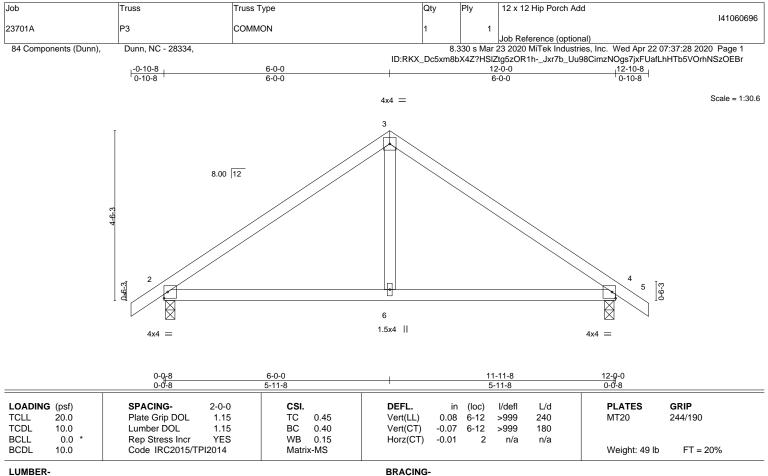
Structural wood sheathing directly applied or 6-0-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 3-4.

Rigid ceiling directly applied or 8-6-8 oc bracing.

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





TOP CHORD

BOT CHORD

TOP CHORD 2x4 SP No.2

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

REACTIONS. (size) 2=0-3-0, 4=0-3-0 Max Horz 2=153(LC 11) Max Uplift 2=-148(LC 12), 4=-148(LC 13) Max Grav 2=533(LC 1), 4=533(LC 1)

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

TOP CHORD 2-3=-569/624, 3-4=-569/624

BOT CHORD 2-6=-375/392, 4-6=-375/392

WEBS 3-6=-426/275

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=148. 4=148.

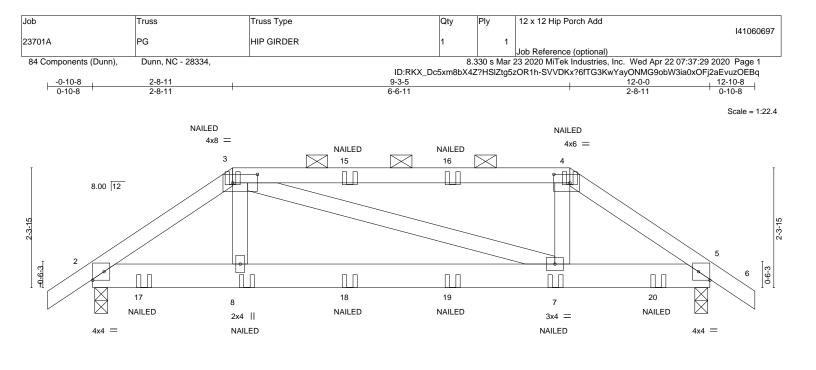


Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 8-10-12 oc bracing

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| 8 ₁ 0-0 | 2-8-11 | 1 | 9-3-5 | | <u>11-11-8</u> 12-ρ-0 | | |
|---------------------|-------------------------------|------------------------------------|----------------|-------------------------|--|--|--|
| 0-0-8 | 2-8-3 | 1 | 6-6-11 | | 2-8-3 0-0-8 | | |
| Plate Offsets (X,Y) | [2:Edge,0-2-0], [3:0-5-12,0-2 | -0], [4:0-3-12,0-2-0], [5:Edge,0-2 | -0] | | | | |
| LOADING (psf) | SPACING- 2 | -0-0 CSI. | DEFL. ii | n (loc) l/defl L/d | d PLATES GRIP | | |
| TCLL 20.0 | Plate Grip DOL | 1.15 TC 0.76 | Vert(LL) 0.05 | 5 7-8 >999 240 | D MT20 244/190 | | |
| CDL 10.0 | Lumber DOL | 1.15 BC 0.29 | Vert(CT) -0.05 | 5 7-8 >999 180 | D | | |
| BCLL 0.0 * | Rep Stress Incr | NO WB 0.11 | Horz(CT) 0.01 | 5 n/a n/a | a | | |
| 3CDL 10.0 | Code IRC2015/TPI20 | 014 Matrix-MS | | | Weight: 65 lb $FT = 20\%$ | | |
| UMBER- | | | BRACING- | | | | |
| OP CHORD 2x4 S | P No.2 *Except* | | TOP CHORD | Structural wood sheat | thing directly applied or 5-4-1 oc purlins, except | | |
| 3-4: 2 | x4 SP No.1 | | | 2-0-0 oc purlins (4-9-8 | | | |
| BOT CHORD 2x6 S | P No.2 | | BOT CHORD | | | | |
| WEBS 2x4 S | P No.3 | | | 0 0 , | | | |

REACTIONS. (size) 2=0-3-0, 5=0-3-0 Max Horz 2=-81(LC 33) Max Uplift 2=-463(LC 9), 5=-463(LC 8) Max Grav 2=810(LC 1), 5=810(LC 1)

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

TOP CHORD 2-3=-1052/1026, 3-4=-879/919, 4-5=-1047/1019

BOT CHORD 2-8=-778/870, 7-8=-798/884, 5-7=-778/866

WEBS 3-8=-266/293, 4-7=-259/291

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) 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 H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 5. 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.

8) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-3=-60, 3-4=-60, 4-6=-60, 9-12=-20

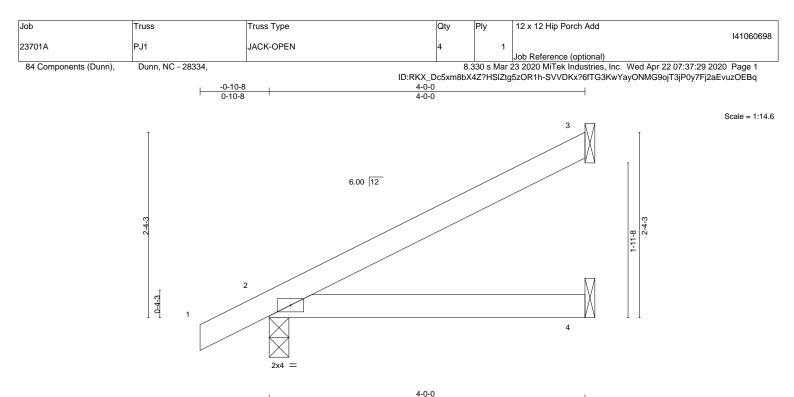
Concentrated Loads (lb)

Vert: 3=-40(B) 4=-40(B) 8=-31(B) 7=-31(B) 15=-40(B) 16=-40(B) 17=-134(B) 18=-31(B) 19=-31(B) 20=-134(B)



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A MiTek Affiliate B18 Soundside Road Edenton, NC 27932



| | | | | 4-0-0 | | | | | + | |
|---------------|---------------------|------------------|------|----------|-------|-------|--------|-----|---------------|----------|
| LOADING (psf) | SPACING- 2-0 | 0-0 CSI . | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1. | .15 TC | 0.25 | Vert(LL) | 0.04 | 4-7 | >999 | 240 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1. | .15 BC | 0.24 | Vert(CT) | 0.03 | 4-7 | >999 | 180 | | |
| BCLL 0.0 * | Rep Stress Incr YI | ES WB | 0.00 | Horz(CT) | -0.00 | 3 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI201 | 14 Matri | x-MP | () | | | | | Weight: 14 lb | FT = 20% |

LUMBER-

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

REACTIONS. (size) 3=Mechanical, 2=0-3-0, 4=Mechanical Max Horz 2=122(LC 12) Max Uplift 3=-81(LC 12), 2=-61(LC 12), 4=-31(LC 9) Max Grav 3=100(LC 1), 2=216(LC 1), 4=72(LC 3)

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

NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

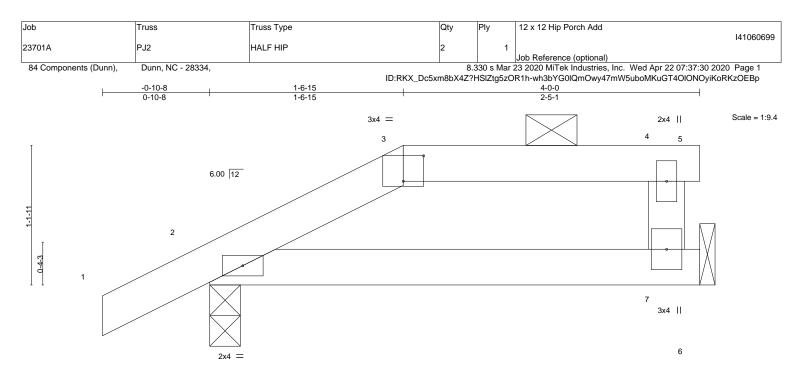
4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
- 6) One H2.5A Simpson Strong-Tie 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.



818 Soundside Road Edenton, NC 27932

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| | | \vdash | | <u>1-6-15</u> 1-6-15 | | | | | | -0-0 -5-1 | | |
|-----------------|------------|-----------------|--------|-------------------------|------|----------|-------|-------|--------|--------------|---------------|----------|
| Plate Offsets (| (X,Y) [3:0 |)-2-0,0-2-8] | | 1 | | 1 | | | | | 1 | |
| LOADING (ps | sf) | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20 | 0.0 | Plate Grip DOL | 1.15 | TC | 0.25 | Vert(LL) | 0.01 | 7-10 | >999 | 240 | MT20 | 244/190 |
| TCDL 10 | 0.0 | Lumber DOL | 1.15 | BC | 0.13 | Vert(CT) | -0.01 | 7-10 | >999 | 180 | | |
| BCLL 0 |).0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.00 | 7 | n/a | n/a | | |
| BCDL 10 | 0.0 | Code IRC2015/TF | PI2014 | Matri | k-MR | | | | | | Weight: 15 lb | FT = 20% |

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 7=Mechanical, 2=0-3-0

Max Horz 2=62(LC 12) Max Uplift 7=-99(LC 9), 2=-83(LC 9) Max Grav 7=154(LC 1), 2=207(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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Provide adequate drainage to prevent water ponding.

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

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

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

6) One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.

7) One H2.5A Simpson Strong-Tie 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.

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



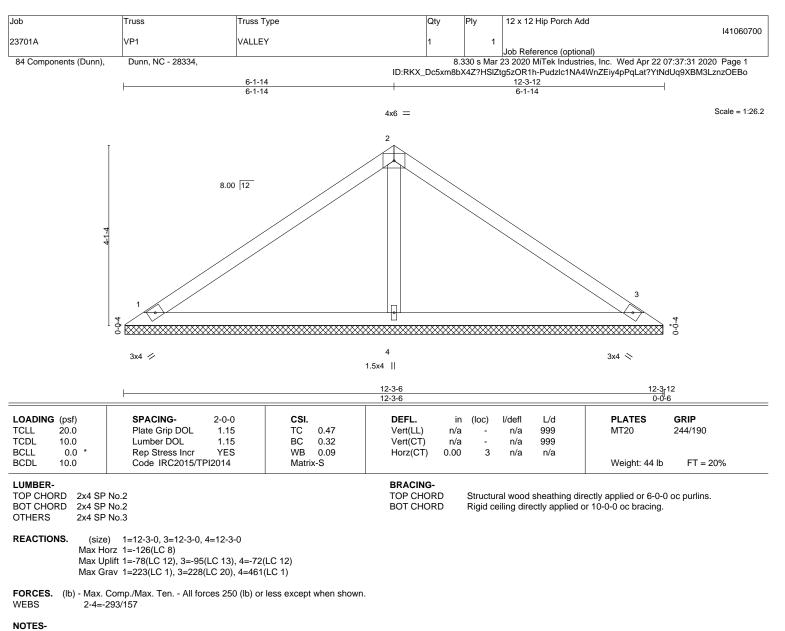
Structural wood sheathing directly applied or 4-0-0 oc purlins,

except end verticals, and 2-0-0 oc purlins: 3-5.

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

🔺 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE Design valid for use only design parameters and READ NOTES ON TIPS ON TIPS AND INCLODED MITCR REPERVICE PAGE MIT-14/3 refer to 1000 SEC. Design valid for use only with MITER deconnectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general quidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component** fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Qua** Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

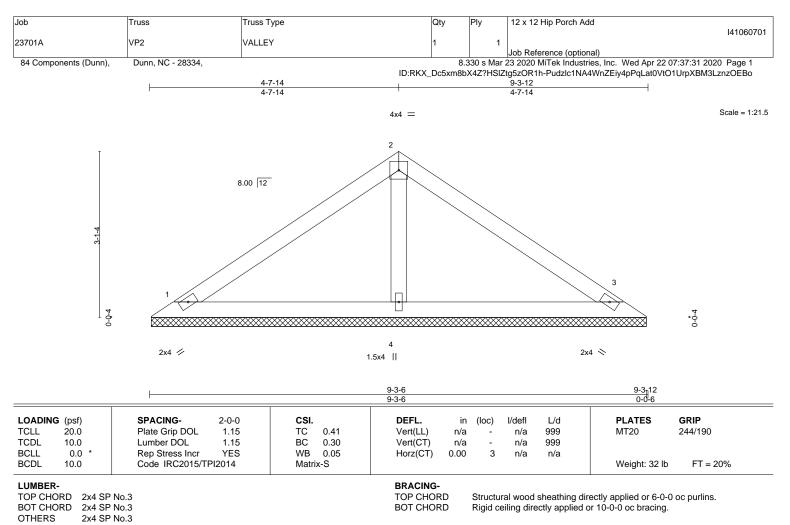
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5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.



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REACTIONS. 1=9-3-0, 3=9-3-0, 4=9-3-0 (size)

Max Horz 1=-93(LC 8) Max Uplift 1=-57(LC 12), 3=-69(LC 13), 4=-54(LC 12)

Max Grav 1=163(LC 1), 3=166(LC 20), 4=342(LC 1)

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

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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) Gable requires continuous bottom chord bearing.

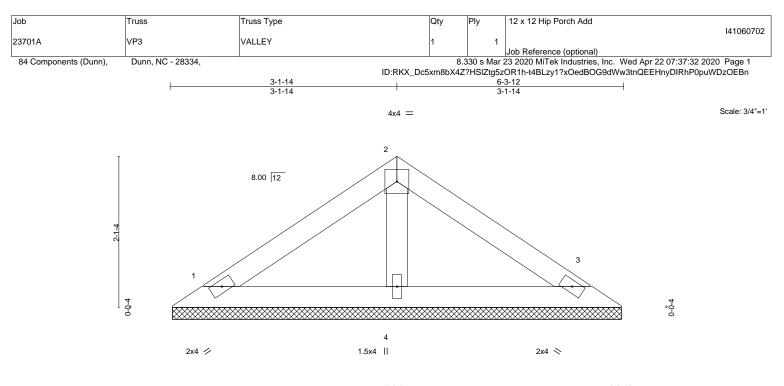
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

Von and and the WILLIAM INTERNATION SEAL 044925 mm April 22,2020

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| | | | -3-6 -3-6 | | <u> 6-3</u> _12 0-0-6 |
|---|--|-----------------------------------|---------------|---|--|
| LOADING (psf) TCLL 20.0 TCDL 10.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 | CSI. TC 0.22 BC 0.12 | | c) l/defl L/d - n/a 999 - n/a 999 | PLATES GRIP MT20 244/190 |
| BCLL 0.0 * BCDL 10.0 | Rep Stress Incr YES Code IRC2015/TPI2014 | WB 0.03 Matrix-P | Horz(CT) 0.00 | 3 n/a n/a | Weight: 21 lb FT = 20% |

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD2x4 SP No.3BOT CHORD2x4 SP No.3OTHERS2x4 SP No.3

OTHERS 2x4 SP No.3 OTHERS 2x4 SP No.3

REACTIONS. (size) 1=6-3-0, 3=6-3-0, 4=6-3-0 Max Horz 1=-60(LC 8) Max Uplift 1=-45(LC 12), 3=-53(LC 13), 4=-17(LC 12) Max Grav 1=115(LC 1), 3=115(LC 20), 4=199(LC 1)

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

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS

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

3) Gable requires continuous bottom chord bearing.

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

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

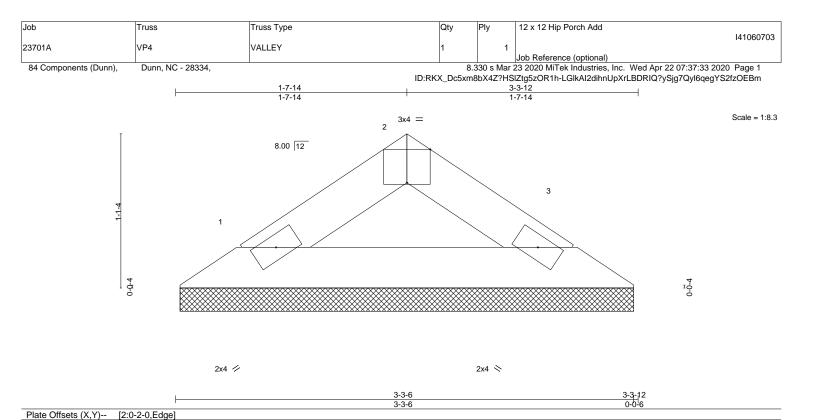
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Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

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SPACING-DEFL. PLATES GRIP LOADING (psf) 2-0-0 CSI. in (loc) l/defl L/d 244/190 TCLL 20.0 Plate Grip DOL 1.15 тс 0.04 Vert(LL) n/a 999 MT20 n/a TCDL 10.0 Lumber DOL 1.15 BC 0.11 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-P Weight: 9 lb FT = 20% BRACING-LUMBER-TOP CHORD 2x4 SP No.3 TOP CHORD Structural wood sheathing directly applied or 3-3-12 oc purlins. 2x4 SP No.3 BOT CHORD BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-3-0, 3=3-3-0 Max Horz 1=26(LC 9) Max Uplift 1=-24(LC 12), 3=-24(LC 13) Max Grav 1=94(LC 1), 3=94(LC 1)

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

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Gable requires continuous bottom chord bearing.

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

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

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