

RE: P240988-01 Roof - HT Lot 180

Site Information:

Customer: Clayton Properties Project Name: P240988-01 Lot/Block: 180 Model: Address: 1625 SW Arborway Terr City: Lee's Summit

Subdivision: Hawthorne Ridge State: MO

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2018/TPI2014 Wind Code: ASCE 7-16 Roof Load: 45.0 psf

Design Program: MiTek 20/20 8.6 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 53 individual, dated Truss Design Drawings and 0 Additional Drawings.

| No. | Seal# | Truss Name | Date | No. | Seal# | Truss Name | Date |
|-----|-----------|------------|-----------|-----|-----------|------------|-----------|
| 1 | 168602407 | A01 | 10/2/2024 | 21 | 168602427 | B12 | 10/2/2024 |
| 2 | 168602408 | A02 | 10/2/2024 | 22 | 168602428 | B13 | 10/2/2024 |
| 3 | 168602409 | A03 | 10/2/2024 | 23 | 168602429 | C01 | 10/2/2024 |
| 4 | 168602410 | A04 | 10/2/2024 | 24 | 168602430 | C02 | 10/2/2024 |
| 5 | 168602411 | A05 | 10/2/2024 | 25 | 168602431 | C03 | 10/2/2024 |
| 6 | 168602412 | A06 | 10/2/2024 | 26 | 168602432 | C04 | 10/2/2024 |
| 7 | 168602413 | A07 | 10/2/2024 | 27 | 168602433 | CJ1 | 10/2/2024 |
| 8 | 168602414 | A08 | 10/2/2024 | 28 | 168602434 | CJ02 | 10/2/2024 |
| 9 | l68602415 | A09 | 10/2/2024 | 29 | 168602435 | CJ03 | 10/2/2024 |
| 10 | 168602416 | B01 | 10/2/2024 | 30 | 168602436 | CJ04 | 10/2/2024 |
| 11 | 168602417 | B02 | 10/2/2024 | 31 | 168602437 | HG1 | 10/2/2024 |
| 12 | 168602418 | B03 | 10/2/2024 | 32 | 168602438 | HG2 | 10/2/2024 |
| 13 | 168602419 | B04 | 10/2/2024 | 33 | 168602439 | HG3 | 10/2/2024 |
| 14 | 168602420 | B05 | 10/2/2024 | 34 | 168602440 | HG4 | 10/2/2024 |
| 15 | 168602421 | B06 | 10/2/2024 | 35 | 168602441 | HG5 | 10/2/2024 |
| 16 | 168602422 | B07 | 10/2/2024 | 36 | 168602442 | J01 | 10/2/2024 |
| 17 | 168602423 | B08 | 10/2/2024 | 37 | 168602443 | J02 | 10/2/2024 |
| 18 | 168602424 | B09 | 10/2/2024 | 38 | 168602444 | J03 | 10/2/2024 |
| 19 | 168602425 | B10 | 10/2/2024 | 39 | 168602445 | J04 | 10/2/2024 |
| 20 | 168602426 | B11 | 10/2/2024 | 40 | 168602446 | J05 | 10/2/2024 |
| | | | | | | | |

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc under my direct supervision based on the parameters provided by . Truss Design Engineer's Name: Sevier, Scott

My license renewal date for the state of Missouri is December 31, 2025. Missouri COA: 001193

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. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek 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.



Sevier, Scott

| October 02, 2024 |
|------------------------------|
| RELEASE FOR CONSTRUCTION |
| AS NOTED ON PLANS REVIEW |
| DEVELOPMENT SERVICES |
| LEE'S SUMMIT, MISSOURI |
| 10/28/2024 10:57:46 |

MiTek, Inc. 16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200



RE: P240988-01 - Roof - HT Lot 180

MiTek, Inc. 16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200

Site Information:

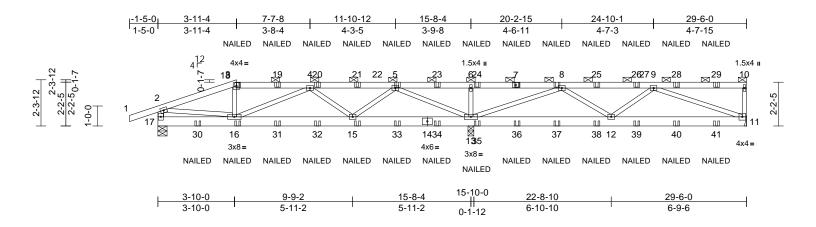
| Project Customer: Clayton Properties Project Name: P240988-01 | | | | | | | | | | | |
|---|-----------------|------------|-----------------------------|-----------|--|--|--|--|--|--|--|
| | lock: 180 | | Subdivision: Hawthorne Ride | | | | | | | | |
| | ess: 1625 SW | | | | | | | | | | |
| City, 0 | County: Lee's S | Summit | | State: MO | | | | | | | |
| | 0.1# | | | | | | | | | | |
| No. | Seal# | Truss Name | Date | | | | | | | | |

| | No. | Seal# | I russ Name | Date |
|---|-----|-----------|-------------|-----------|
| 4 | 41 | 168602447 | J06 | 10/2/2024 |
| | 42 | 168602448 | J07 | 10/2/2024 |
| 4 | 43 | 168602449 | J08 | 10/2/2024 |
| | 44 | 168602450 | J10 | 10/2/2024 |
| | 45 | 168602451 | J11 | 10/2/2024 |
| 4 | 46 | 168602452 | J13 | 10/2/2024 |
| 4 | 47 | 168602453 | J14 | 10/2/2024 |
| 4 | 48 | 168602454 | J15 | 10/2/2024 |
| 4 | 49 | 168602455 | J16 | 10/2/2024 |
| ł | 50 | 168602456 | J18 | 10/2/2024 |
| ł | 51 | 168602457 | J19 | 10/2/2024 |
| ł | 52 | 168602458 | M01 | 10/2/2024 |
| ł | 53 | 168602459 | M02 | 10/2/2024 |
| | | | | |



| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|-----------------|-----|-----|--------------------------|-----------|
| P240988-01 | A01 | Half Hip Girder | 1 | 2 | Job Reference (optional) | 168602407 |

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:26 ID:4_M9To87?QSqmdKZ76eMvozeBhO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:57.7

| Scale = 1:57.7 | | | | | | | | | | | | | |
|--|--|--|--|--|--|-----------------------------------|---|------------------------------|-------|-------------------------------|--------------------------|----------------------------------|--|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 NO IRC2018 | 3/TPI2014 | CSI TC BC WB Matrix-S | 0.45 0.19 0.26 | DEFL Vert(LL) Vert(CT) Horz(CT) | in -0.02 -0.05 0.01 | 15-16 | l/defl >999 >999 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 258 lb | GRIP 197/144 FT = 20% |
| | TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SPF No.2 WEBS 2x3 SPF No.2 *Except* 17-2:2x4 SP No.2 BRACING TOP CHORD Structural wood sheathing directly applied of 6-0-0 oc purlins, except end verticals, and 2-0-0 cc purlins, except end verticals, and 2 | | | | All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated. Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope exterior 20ne and C-C Exterior(2E) -1-5-0 to 3-7-0, Interior (1) 3-7-0 to 3-11-4, Exterior(2R) 3-11-4 to 111-0-2, Interior (1) 11-0-2 to 29-4-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 ptrovide adequate to trainage to prevent water ponding. All loads are considered equalty applied to all plies, excepting to a strain to the LOAD (0.148"x3.25") toe-nails per NDS guidlines. LOAD CASE(S) Standard Dead + Roof Live (balanced): Lumber Incr Plate Increase=1.15 Uniform Loads (lb/t) Vert: 3=-38 (B), 7=-38 (B), 29=-38 (B), 20=-38 (B), 29=-38 (B), 29=-38 (B), 29=-38 (B), 30=-117 (B), 31 -218 (B), 33=-18 (B), 33=-18 (B), 33=-18 (B), 33=-18 (B), 34=-18 (B), 35=-38 (B), 41=-18 (B) | | | | | | | | uidlines. hber Increase=1.15, 10, 11-17=-20 18 (B), 15=-18 (B), 19, 20=-38 (B), 21=-38 (B), 26=-38 (B), 7 (B), 31=-18 (B), (B), 35=-18 (B), |
| FORCES TOP CHORD BOT CHORD | Tension 1-2=0/35, 2-3=-1234 4-5=-960/243, 5-6=- 6-8=-287/1072, 8-9= 10-11=-172/98, 2-17 16-17=-205/214, 15 | · 4/324, 3-4=-1125/331 ·287/1072, =-871/160, 9-10=-56/5 7=-796/345 -16=-418/1330, | , 8) | 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3.06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. | | | | | | | | | |
| WEBS | 13-15=-169/444, 12 11-12=-317/944 2-16=-215/930, 3-10 4-15=-485/259, 4-10 5-15=-79/678, 5-13 8-13=-1727/481, 9- 9-12=-101/185, 8-12 | 6=0/207, 6-13=-440/2 6=-272/124, =-1681/474, 11=-965/298, | 11 | crushing cap) Refer to gird) Provide mec bearing plate joint 11. | acity of 425 psi, Ju acity of 425 psi. er(s) for truss to tr hanical connection capable of withst | uss conr n (by oth anding 1 | nections. ers) of truss to 148 lb uplift at | | | | | STATE OF I | |
| (0.131"x3" Top chords oc, 2x3 - 1 Bottom cho staggered | | | | recommende UPLIFT at jt(only and doe) This truss is International R802.10.2 at) Graphical pu | One H2.5T Simpson Strong-Tie connectors ecommended to connect truss to bearing walls due to IPLIFT at jt(s) 17 and 13. This connection is for uplift nly and does not consider lateral forces. his truss is designed in accordance with the 2018 thermational Residential Code sections R502.11.1 and 2802.10.2 and referenced standard ANSI/TPI 1. Graphical purlin representation does not depict the size r the orientation of the purlin along the top and/or | | | | | | | | ENGI |

October 2,2024

Page: 1

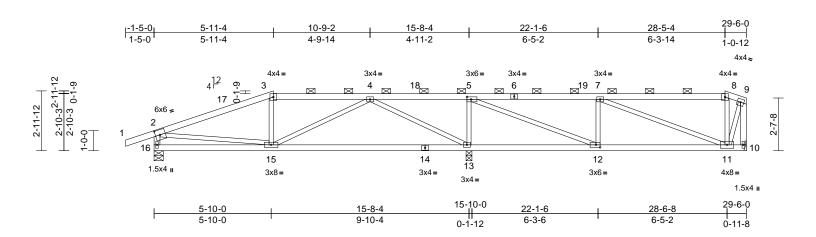
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 ANSUTPTI Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

bottom chord.



| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P240988-01 | A02 | Нір | 1 | 1 | Job Reference (optional) | 168602408 |

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:28 ID:53Ttk2zm_J0Bw4Xd6OsIg8zeBgK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:57.4

Plate Offsets (X, Y): [2:0-2-11,0-3-0], [5:0-2-8,0-1-8], [12:0-2-8,0-1-8]

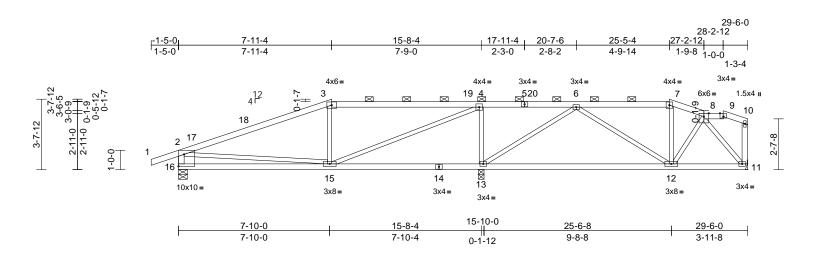
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 NO IRC201 | 8/TPI2014 | CSI TC BC WB Matrix-S | 0.94 0.77 0.80 | DEFL Vert(LL) Vert(CT) Horz(CT) | in -0.20 -0.39 0.01 | (loc) 13-15 13-15 10 | l/defl >954 >473 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 128 lb | GRIP 197/144 FT = 20% |
|--|--|---|--|--|---|--|---|------------------------------|-------------------------------|-------------------------------|------------------------------------|----------------------------------|------------------------------------|
| | No.2 Structural wood she: 5-6-11 oc purlins, e: 2-0-0 oc purlins (5-1 Rigid ceiling directly bracing, Except: 6-0-0 oc bracing: 12 | pt* 16-2,10-9:2x4 SP athing directly applied xcept end verticals, a 0-10 max.): 3-8. applied or 10-0-0 oc -13. anical, 13=0-3-8, .C 9) LC 9), 13=-326 (LC 8 LC 8) .C 26), 13=1534 (LC | l or nd 3) 4) 5)), 6) 1), | on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. | | | | | | | | | |
| FORCES | | 236, 3-4=-800/256, 622/192, 7-8=-219/92 | 8) 2, 9) | Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 113 lb uplift at joint 10. | | | | | | | and the second | | |
| BOT CHORD | 8-9=-195/78, 2-16=- 15-16=-300/280, 13- 12-13=-434/163, 11- 10-11=-44/51 | | | UPLIFT at jt(only and doe | ed to connect truss s) 16 and 13. This is not consider late designed in accord | connec ral force | tion is for upli es. | | | | Å | STATE OF A | AISSOLD |
| WEBS NOTES 1) Unbalance this design | 3-15=-80/125, 8-11= 9-11=-144/605, 5-13 4-15=-56/387, 4-13= 7-11=-437/152, 7-12 5-12=-334/1116 ed roof live loads have h. | 69, 11 | International R802.10.2 at Graphical put | Residential Code s and referenced stan rlin representation ation of the purlin a d. | sections dard AN does no | R502.11.1 a ISI/TPI 1. ot depict the s | | | | | SEVI NUMI PE-20010 SSIONA | JER DI8807 | |

- this design.
 - WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 besign value for use only with with twit even connectors. This design is based only upon parameters shown, and is for an individual building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

ΤΙΟΝ IEW DEVELOPMENT SERVICES LEE'S'SUMMIT'S MISSOURI 10/28/2024 10:57:47

| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|--------------|-----|-----|--------------------------|-----------|
| P240988-01 | A03 | Roof Special | 1 | 1 | Job Reference (optional) | 168602409 |

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Scale = 1:59.7

| ate Offsets () | (, Y): [9:0-2-0,Edge], | [16:Edge,0-7-8] | | | | | | | | | | | |
|-------------------------|------------------------|---|--|---|---------------------|------------|-----------------|--------|-------|--------|-----|----------------|----------|
| ading | (psf) | Spacing | 2-0-0 | | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| CLL (roof) | 25.0 | Plate Grip DOL | 1.15 | | TC | 0.97 | Vert(LL) | | 12-13 | >868 | 240 | MT20 | 197/144 |
| DL | 10.0 | Lumber DOL | 1.15 | | BC | 0.80 | Vert(CT) | | 12-13 | >431 | 180 | | |
| CLL | 0.0* | Rep Stress Incr | NO | | WB | 0.58 | Horz(CT) | 0.01 | 11 | n/a | n/a | | |
| CDL | 10.0 | Code | IRC201 | B/TPI2014 | Matrix-S | | | | | - | | Weight: 129 lb | FT = 20% |
| JMBER | | | 2) | Wind [.] ASCE | 7-16; Vult=115m | nh (3-sec | ond aust) | | | | | | |
| OP CHORD | 2x4 SP No.2 *Excep | t* 3-5·2x4 SP 1650F | _, | | ; TCDL=6.0psf; I | | | | | | | | |
| 0.10112 | 1.5E | | | | II; Exp C; Enclo | | | pe) | | | | | |
| T CHORD | 2x4 SP No.2 | | | exterior zone | and C-C Exterio | r(2E) -1-8 | -0 to 3-7-0, | • • | | | | | |
| EBS | | pt* 16-2,11-10:2x4 S | Р | Interior (1) 3- | 7-0 to 7-11-4, Ex | terior(2R | 7-11-4 to 15 | 5-0-2, | | | | | |
| | No.2 | , , | | Interior (1) 1 | 5-0-2 to 25-5-4, E | xterior(21 | E) 25-5-4 to | | | | | | |
| RACING | | | | | rior (1) 27-2-12 to | | |) | | | | | |
| P CHORD | Structural wood she | athing directly applied | d or | | -4-4 zone; cantil | | | | | | | | |
| | 4-7-5 oc purlins, ex | | | d vertical left and | | | | | | | | | |
| | 2-0-0 oc purlins (6-0 | | | | d forces & MWFF | | | ו; | | | | | |
| T CHORD | Rigid ceiling directly | applied or 6-0-0 oc | | Lumber DOL=1.60 plate grip DOL=1.60 | | | | | | | | | |
| | bracing. | | 3) | Provide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 psf bottom | | | | | | | | | |
| ACTIONS | (size) 11= Mech | 4) | | | | | | | | | | | |
| | 16=0-5-8 | C) | chord live load nonconcurrent with any other live loads. | | | | | | | | | | |
| Max Horiz 16=107 (LC 9) | | | | 5) * This truss has been designed for a live load of 20.0psf | | | | | | | | | |
| I | Max Uplift 11=-122 (| LC 9), 13=-292 (LC 8 | 5), | on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom | | | | | | | | | |
| | 16=-217 (| | | | | | | | | | | | |
| I | Max Grav 11=545 (L | | ^{),} 6) | chord and any other members.Bearings are assumed to be: Joint 16 SP No.2 crushing | | | | | | | | | |
| | 16=755 (L | .C 25) | 0) | | 65 psi, Joint 13 S | | | | | | | | |
| RCES | (lb) - Maximum Com | pression/Maximum | | of 565 psi. | | 1 110.2 0 | doning oupd | ony | | | | | |
| | Tension | | 7) | | | | | | | | | | |
| P CHORD | 1-2=0/35, 2-3=-888/2 | 253, 3-4=-767/283, | 8) | | | | | | | | | | |
| | | 99/175, 7-8=-531/163 | 3, -, | bearing plate capable of withstanding 122 lb uplift at | | | | | | | | | |
| | | 3/77, 2-16=-680/350, | | joint 11. | | 5 | | | | | | and | m |
| | 10-11=-81/59 | | 9) | One H2.5T S | impson Strong-T | ie conne | ctors | | | | | TATE OF M | AIS C |
| DT CHORD | 15-16=-416/484, 13- | | | recommende | d to connect trus | s to bear | ng walls due | e to | | | 1 | 950 | W.OS |
| EBS | 12-13=-222/402, 11- | | -0 | UPLIFT at jt(| s) 16 and 13. Thi | s connec | tion is for upl | ift | | | B | SCOT | N SA |
| 185 | | =-94/90, 8-12=-29/25 =0/338, 4-13=-889/3 | 10 | | s not consider lat | | | | | | R | ~/ | |
| | | =-667/250, 6-12=0/2 | | | designed in acco | | | | | | 4 | SEV | |
| | 4-15=-205/990, 0-13 | =-007/230, 0-12=0/2 | 10 | | Residential Code | | | and | | | NA | · · · | |
| DTES | d an of Barrier de P | have excludent 17 | | R802.10.2 and referenced standard ANSI/TPI 1. | | | | | | | | | |
| | d roof live loads have | been considered for | 11 | 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or | | | | | | | | | |
| this design. | | | | | | aiong the | top and/or | | | | 117 | PE-2001 | |
| | | | | bottom chord | | | | | | | N | ALTE-2001 | STOOL SA |
| | | | LC | DAD CASE(S) | Standard | | | | | | Y | 100 | NOT |

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 toulsable personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

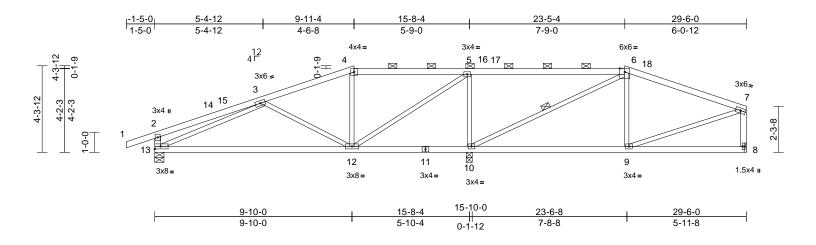


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| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P240988-01 | A04 | Нір | 1 | 1 | Job Reference (optional) | 168602410 |

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:28 ID:EkzC0?nEu5n2I_QGKB1ECZzeBe?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





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| oodio = norri | | | | | | | | | | | | | |
|---------------|-------------------------|-------------------------|-------|--------------|--|------------|----------------|--------|-------|--------|-----|----------------|-----------|
| Loading | (psf) | Spacing | 2-0-0 | | csi | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | | тс | 0.69 | Vert(LL) | | 12-13 | >790 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.87 | Vert(CT) | -0.48 | 12-13 | >389 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | | WB | 0.53 | Horz(CT) | 0.02 | 0 | n/a | n/a | | |
| BCDL | 10.0 | Code | | 18/TPI2014 | Matrix-S | 0.00 | 11012(01) | 0.02 | Ŭ | n/a | n/a | Weight: 130 lb | FT = 20% |
| | 10.0 | 0000 | | 10/11/2011 | Matrix 0 | - | | | | | | Wolgin. 100 lb | 11 - 2070 |
| LUMBER | | | 2 |) Wind: ASCE | 7-16; Vult=115m | nph (3-seo | cond gust) | | | | | | |
| TOP CHORD | 2x4 SP No.2 *Excep | ot* 4-6:2x4 SP 1650F | | Vasd=91mpl | h; TCDL=6.0psf; | BCDL=6. | 0psf; h=35ft; | | | | | | |
| | 1.5E | | | | t. II; Exp C; Enclo | | | ope) | | | | | |
| BOT CHORD | 2x4 SP No.2 | | | | e and C-C Exterio | | | | | | | | |
| WEBS | 2x3 SPF No.2 *Exce | ept* 13-2:2x4 SP 2400 |)F | () | -7-0 to 9-11-4, Ex | | , | 7-0-2, | | | | | |
| | 2.0E, 8-7:2x4 SP No | o.2 | | | 7-0-2 to 23-5-4, E | | | | | | | | |
| BRACING | | | | | cantilever left ar | | | | | | | | |
| TOP CHORD | | athing directly applied | | | nd right exposed | | | 1 | | | | | |
| | | cept end verticals, and | d | | FRS for reaction | | Lumber | | | | | | |
| | 2-0-0 oc purlins (6-0 | | | | late grip DOL=1.6 quate drainage to | | water pendia | ~ | | | | | |
| BOT CHORD | 0 0 , | applied or 6-0-0 oc | 3 | | as been designed | | | | | | | | |
| | bracing. | | 4 | | ad nonconcurrent | | | | | | | | |
| WEBS | 1 Row at midpt | 6-10 | 5 5 | | has been designe | | | | | | | | |
| REACTIONS | () | anical, 10=0-3-8, 13=0 | -5-8 | | n chord in all are | | | 000 | | | | | |
| | Max Horiz 13=78 (LO | , | | | by 2-00-00 wide v | | | tom | | | | | |
| | | _C 9), 10=-325 (LC 8), | | | ny other members | | | | | | | | |
| | 13=-196 (| | 6 | | assumed to be: | | SP No.2 crus | hing | | | | | |
| | | C 26), 10=1489 (LC 1) |), | | 65 psi, Joint 10 S | | | | | | | | |
| | 13=731 (I | , | | of 565 psi. | | | | | | | | | |
| FORCES | (lb) - Maximum Com | npression/Maximum | 7 | | er(s) for truss to | | | | | | | | |
| | Tension | 00 0 4 550/400 | 8 | | hanical connection | | | | | | | | |
| TOP CHORD | | | | | e capable of with | standing 1 | 09 lb uplift a | ıt | | | | | |
| | 2-13=-372/236. 7-8= | 47/227, 6-7=-578/165 | · | joint 8. | | | | | | | | | |
| BOT CHORD | , - | | 9 | | Simpson Strong-1 | | | | | | | | ~ |
| BOT CHOILD | 9-10=-125/493, 8-9= | | | | ed to connect true | | | | | | | A | and |
| WEBS | , | =0/209, 3-13=-607/238 | 3 | | s) 13 and 10. Th | | | lift | | | | B R OF M | AIS SAL |
| WEBC | 7-9=-64/457, 3-12=- | | | | es not consider la | | | | | | 4 | ATE OF M | N'SON |
| | 5-10=-1032/391, 5-1 | | 1 | | designed in acco Residential Code | | | and | | | B | SCOTT | M XA |
| | 6-10=-750/239 | | | | nd referenced sta | | | anu | | | R | SEVI | |
| NOTES | | | 1 | | Irlin representation | | | size | | | 8 | _/ SEVI | |
| | ed roof live loads have | been considered for | ' | | ation of the purlin | | | 5120 | | | 12 | | |
| this design | | | | bottom chore | | | | | | | | hatt 1 | Kerner > |
| | | | | OAD CASE(S) | | | | | | - | R. | NUMI | BER A |
| | | | - | | Standard | | | | | | N | PE-20010 | |
| | | | | | | | | | | | N | ALL LOON | 128 |
| | | | | | | | | | | | Y | 1000 | JON B |
| | | | | | | | | | | | | C'SSIONA | LENA |
| | | | | | | | | | | | | UNA | - |
| | | | | | | | | | | | | | |

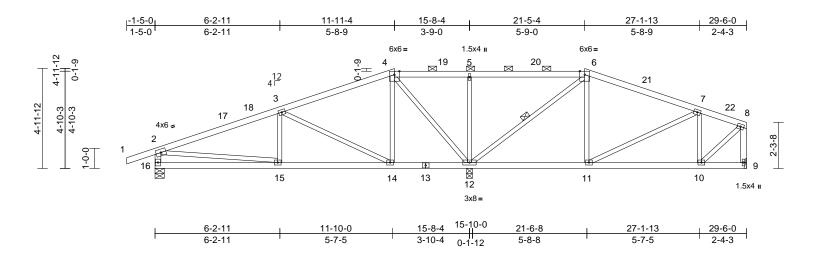
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 toulsable personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P240988-01 | A05 | Нір | 1 | 1 | Job Reference (optional) | 168602411 |

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:28 ID:X90YIehHE7EPoVfgERtqINzeBcq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:57.5

| Loading TCLL (roof) | (psf) 25.0 | Spacing Plate Grip DOL | 2-0-0 1.15 | | CSI TC | 0.60 | DEFL Vert(LL) | in -0.04 | (loc) 15-16 | l/defl >999 | L/d 240 | PLATES MT20 | GRIP 197/144 |
|---|---|---|--|--|---|---|--|--------------|----------------|----------------|------------|----------------|------------------------|
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.40 | Vert(CT) | -0.08 | 15-16 | >999 | 180 | | |
| BCLL BCDL | 0.0* 10.0 | Rep Stress Incr Code | NO | 18/TPI2014 | WB Matrix-S | 0.70 | Horz(CT) | 0.01 | 9 | n/a | n/a | Weight: 137 lb | FT = 20% |
| BCDL | 10.0 | Code | IKC20 | 10/11/2014 | Matrix-3 | | | | | | | weight. 137 lb | FT = 2076 |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD | 2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 *Exce Structural wood she 6-0-0 oc purlins, ex 2-0-0 oc purlins (10 Rigid ceiling directly | athing directly applie cept end verticals, ar 0-0 max.): 4-6. | d or nd | Vasd=91mpl Ke=1.00; Ca exterior zone Interior (1) 3 19-0-2, Inter to 28-6-2, Inter left and right exposed;C-C | 7-16; Vult=115m h; TCDL=6.0psf; it. II; Exp C; Enclo a and C-C Exterio -7-0 to 11-11-4, E ior (1) 19-0-2 to 2 terior (1) 28-6-2 t exposed ; end vo C for members an | BCDL=6. posed; MW pr(2E) -1-5 Exterior(2I 21-5-4, Ex o 29-4-4 z ertical left nd forces a | Opsf; h=35ft; FRS (envelo 5-0 to 3-7-0, R) 11-11-4 to terior(2R) 21 zone; cantilev and right & MWFRS fo | -5-4 /er | | | | | |
| 201 0110112 | bracing, Except: 6-0-0 oc bracing: 9- | | | DOL=1.60 | own; Lumber DO | • | | | | | | | |
| | | .C 9), 12=-327 (LC 8) (LC 8) C 26), 12=1611 (LC 7 |), 6 | All plates are This truss has chord live load * This truss has truss has chord live load * This truss has the bottor on the bottor 3-06-00 tall has been been been been been been been bee | quate drainage to a 3x4 MT20 unles as been designed ad nonconcurrent has been designed m chord in all are by 2-00-00 wide v | ss otherwi I for a 10.4 t with any ed for a liv as where will fit betw | se indicated. D psf bottom other live loa e load of 20. a rectangle | ads. Opsf | | | | | |
| FORCES | (lb) - Maximum Com Tension | pression/Maximum | 7 |) Bearings are | ny other members assumed to be: 65 psi, Joint 12 \$ | Joint 16 S | | | | | | | |
| TOP CHORD | 1-2=0/35, 2-3=-828/ 4-5=-72/432, 5-6=-7 7-8=-424/158, 2-16= | 2/432, 6-7=-392/140 =-622/297, 8-9=-506/ | | of 565 psi. Refer to gird | er(s) for truss to t | truss conr | nections. | | | | | | |
| BOT CHORD | 15-16=-186/266, 14 12-14=-21/110, 11-1 10-11=-138/404, 9-1 | 2=-49/308, | - | bearing plate joint 9. | e capable of withs | standing 1 | 05 lb uplift a | | | | | OF | |
| WEBS | | | 84, 20, | recommende UPLIFT at jt(only and doe 1) This truss is International | ed to connect trus (s) 16 and 12. Th es not consider la designed in acco Residential Code | ss to bear is connec iteral force ordance w e sections | ing walls due tion is for upl es. ith the 2018 s R502.11.1 a | lift | | | Hox No. | STATE OF M | |
| | ed roof live loads have n. | | R802.10.2 and referenced standard ANSI/TPI 1. 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. LOAD CASE(S) Standard | | | | | | | | | | |



DEVELOPMENT SERVICES LEE'S' SUMMIT'S MISSOURI 10/28/2024 10:57:47

ΤΙΟΝ **IEW**

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 toulsable personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P240988-01 | A06 | Hip Girder | 1 | 2 | Job Reference (optional) | 168602412 |

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:28 ID:MsQg8KANpQHkbfiMarbCMpzeBcC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

16-0-12 8-2-15 13-11 |<u>-1-5-0</u> | 1-5-0 13-0-12 6-11-8 19-5-4 26-2-14 33-4-8 1-3-7 0-10-8 2-1-8 4-9-13 7-1-10 6-11-8 3-4-8 6-9-10 6x6= 1.5x4 🛚 1.5x4 🛚 6x6= °_{±5}6 4¹² 5-7-12 0-1-9 8 0-1-9 _7 ⊠____ 3x4 🚅 3x4 = 4x4 **≈** 4 3 9 5-7-12 3x4 **≈** 5-6-3 5-6-3 22 5 21 10 3x4**≈** ÈB (6 4x6 🚅 te 2 2-0-0 11 to -0-0-1 P 20 15 ł ΠΠ 18 Ø ₿ 19 14 13 12 23 24 3x4 II 1.5x4 **I** 3x6 II 5x8= 4x12= 5x10= 7x8= 3x6 II Special HUS26 5x8= 7x8= 6-11-8 13-2-0 15-11-8 19-6-8 23-4-8 26-2-14 33-4-8 6-11-8 6-2-8 2-9-8 3-7-0 3-10-0 2-10-6 7-1-10

Scale = 1:61.6

| Plate Offsets (X, Y) | [11:Edge,0-3-5] | , [14:0-4-4,0-3-0], | , [16:0-3-4,Edge], | [17:0-2-4,0-3-0] |
|----------------------|-----------------|---------------------|--------------------|------------------|
|----------------------|-----------------|---------------------|--------------------|------------------|

| | X, 1): [11:Edge;0.0.0 |]; [1 1:0 1 1;0 0 0]; [1 | 10.0 0 4,2 | ago], [11.0 2 1 | ,0 0 0] | | | | | | | | | | |
|--|---|--|---|---|---|----------------------|--|--|-------------------------------|-------------------------------|---|----------------|------------------------|--|--|
| Loading TCLL (roof) TCDL BCLL | (psf) 25.0 10.0 0.0* | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr | 2-0-0 1.15 1.15 NO | | CSI TC BC WB | 0.78 0.70 0.67 | DEFL Vert(LL) Vert(CT) Horz(CT) | | (loc) 16-17 16-17 11 | l/defl >999 >957 n/a | L/d 240 180 n/a | PLATES MT20 | GRIP 244/190 | | |
| BCDL | 10.0 | Code | IRC201 | 8/TPI2014 | Matrix-S | | - (-) | | | | | Weight: 363 lb | FT = 20% | | |
| LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD REACTIONS | 2x4 SP No.2 *Excep 1.5E 2x4 SP No.2 *Excep No.2, 15-13:2x8 SPF 2400F 2.0E 2x3 SPF No.2 *Exce 2.0E Right 2x4 SP 2400F Structural wood she 4-6-4 oc purlins, exx 2-0-0 oc purlins, fo-4 Rigid ceiling directly bracing. (size) 11=0-5-8, Max Horiz 20=-88 (L Max Uplift 11=-934 (Max Grav 11=3942 for (lb) - Maximum Com Tension | t* 8-11:2x4 SP 1650 t* 18-5,7-15:2x3 SP F No.2, 13-11:2x8 SP 2005 3-8-13 athing directly applie cept end verticals, al -7 max.): 6-8. applied or 10-0-0 or 20=0-5-8 C 17) LC 9), 20=-423 (LC (LC 1), 20=1878 (LC ppression/Maximum | 1) F P DOF 2) 2d or nd c 3) c 3) c 4) 8) 2 1) | 2-ply truss to (0.131"x3") r Top chords o oc. Bottom chorr 0-9-0 oc, 2x3 at 0-5-0 oc. Web connec All loads are except if not CASE(S) see provided to o unless other Unbalanced this design. Wind: ASCE Vasd=91mpl Ke=1.00; Ca exterior zone Interior (1) 3 19-5-4, Exte 26-2-14 to 3 | Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x3 - 1 row at 0-9-0 oc, 2x8 - 2 rows staggered at 0-5-0 oc. Web connected as follows: 2x3 - 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated. Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-5-0 to 3-7-0, Interior (1) 3-7-0 to 13-11-4, Exterior(2E) 13-11-4 to 19-5-4, Exterior(2R) 19-5-4 to 26-2-14, Interior (1) 26-2-14 to 33-4-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for | | | | | | 10) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 20. This connection is for uplift only and does not consider lateral forces. 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 13) Use Simpson Strong-Tie HUS26 (14-16d Girder, 4-16d Truss) or equivalent at 31-4-8 from the left end to connect truss(es) to back face of bottom chord. 14) Fill all nail holes where hanger is in contact with lumber provided sufficient to support concentrated load(s) 203 Ib down and 492 Ib up at 29-7-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. LOAD CASE(S) Standard 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 | | | | |
| TOP CHORD | 1-2=0/35, 2-3=-3622 5-6=-5216/1469, 6-7 7-8=-5126/1410, 8-9 9-11=-5912/1534, 2- 19-20=-207/503, 18- | 7=-5144/1413, 9=-3573/1012, -20=-1796/610 | 5) | members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 Provide adequate drainage to prevent water ponding. | | | | | Uı | niform L | , | COLOR | MISSOL | | |
| | 5-17=-36/230, 16-17 15-16=-55/175, 7-16 14-15=-22/78, 12-14 11-12=-1354/5443 | 7=-1076/4783, 6=-343/152, | 7) | chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle | | | | | STATE OF MISSOCIE | | | | | | |
| WEBS NOTES | 3-19=-1280/438, 17- 3-17=-371/1668, 6-1 6-16=-211/804, 14-1 8-16=-600/2449, 8-1 9-14=-2350/687, 9-1 2-19=-691/2874 | 7=-321/895, 6=-856/3726, 4=-979/287, | 8) 9) | 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. Bearings are assumed to be: Joint 20 SP No.2 crushing capacity of 565 psi, Joint 11 SP 2400F 2.0E crushing capacity of 805 psi. Two H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11. This connection is for uplift only and does not consider lateral forces. | | | | | | PE-2001 | LENGT | | | | |

anno October 2,2024



| Continued on page 2 |
|---|
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| is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the |
| fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.t |
| and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com) |
| |

| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P240988-01 | A06 | Hip Girder | 1 | 2 | Job Reference (optional) | 168602412 |

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:28 ID:MsQg8KANpQHkbfiMarbCMpzeBcC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Vert: 1-2=-70, 2-6=-70, 6-8=-70, 8-11=-70, 18-20=-20, 16-17=-20, 11-15=-20 Concentrated Loads (lb) Vert: 23=-2038 (B), 24=-682 (B)

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| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P240988-01 | A07 | Нір | 1 | 1 | Job Reference (optional) | 168602413 |

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34-9-8

1-5-0

12

13

-1-5-0 17-5-4 10-8-8 15-11-4 27-11-2 5-5-6 22-8-0 33-4-8 1-5-0 5-5-6 5-3-1 5-2-12 1-6-0 5-2-12 5-3-1 5-5-6 6x6= 4x4= 6-3-12 0-1-9 ဂု 6 7 4¹² 89 45 22 23 TIFE 10 5x5≈ 5x5 ≠ 6-3-12 6-2-3 6-2-3 3 10 21 24 4x4 u 4x4 u 2 11 1-0-0 20 t) X 19 18 14 17 16 15 6x6= 6x6= 4x8= 17-6-8 8-0-14 15-10-0 25-3-10 33-4-8 7-9-2 8-0-14 8-0-14 7-9-2 1-8-8

Scale = 1:63.6

| Plate Olisets () | X, Y): [2:0-2-0,0-1-12 |], [11:0-2-0,0-1-12] | | | 1 | | | | | | | 1 | |
|------------------|---|-------------------------|------------|---|--|-----------|---------------|------|-------|--------|------|----------------|----------------|
| Loading | (psf) | | 2-0-0 | | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | 25.0 | | 1.15 | | TC | 0.74 | Vert(LL) | | 17-19 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | | 1.15 | | BC | 0.68 | Vert(CT) | | 17-19 | >944 | 180 | | |
| BCLL | 0.0* | | NO | | WB | 0.87 | Horz(CT) | 0.13 | 13 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC201 | 8/TPI2014 | Matrix-S | | | | | | | Weight: 155 lb | FT = 20% |
| UMBER | | | 2) | | 7-16; Vult=115n | | | | | | | | |
| FOP CHORD | 2x4 SP No.2 *Excep | ot* 1-4,9-12:2x4 SP | | | h; TCDL=6.0psf; | | | | | | | | |
| | 1650F 1.5E | | | | t. II; Exp C; Encl | | | pe) | | | | | |
| BOT CHORD | 2x4 SP 1650F 1.5E | | | | and C-C Exterio | | | | | | | | |
| VEBS | | ept* 20-2,13-11:2x4 SP | | | -7-0 to 15-11-4, I rior(2R) 17-5-4 to | | | | | | | | |
| | No.2 | | | | ne; cantilever left | | | | | | | | |
| BRACING | Structural wood at a | othing directly opplied | or | | nd right exposed | | | | | | | | |
| | Structural wood she 2-11-2 oc purlins, e | | | /FRS for reaction | | | | | | | | | |
| | 2-0-0 oc purlins (3-1 | u | DOL=1.60 p | late grip DOL=1. | 60 | | | | | | | | |
| BOT CHORD | | applied or 9-1-14 oc | 3) | Provide ade | quate drainage to | prevent v | vater ponding | g. | | | | | |
| | bracing. | 4) |) | | | | | | | | | | |
| NEBS | 1 Row at midpt | 3-20, 10-13 | 5) | | as been designed | | | | | | | | |
| REACTIONS | (size) 13=0-5-8, | 20=0-5-8 | | chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle | | | | | | | | | |
| | Max Horiz 20=81 (LC | C 12) | 6) | | | | | | | | | | |
| | Max Uplift 13=-339 (| LC 9), 20=-339 (LC 8) | | | by 2-00-00 wide | | | om | | | | | |
| | Max Grav 13=1598 | (LC 1), 20=1598 (LC 1) |) | | ny other member | | een me bou | UIII | | | | | |
| ORCES | (lb) - Maximum Com | pression/Maximum | 7) | 7) All bearings are assumed to be SP 1650F 1.5E crushing | | | | | | | | | |
| | Tension | | | capacity of 5 | | | | | | | | | |
| FOP CHORD | 1-2=0/35, 2-3=-436/ | | 8) | 8) One H2.5T Simpson Strong-Tie connectors | | | | | | | | | |
| | 5-6=-2253/629, 6-7= | | | | ed to connect tru | | | | | | | | |
| | 7-8=-2254/631, 8-10 | -12=0/35, 2-20=-435/26 | 22 | | (s) 20 and 13. Th | | | ift | | | | | |
| | 11-13=-435/261 | -12=0/33, 2-20=-433/20 | · · · | | es not consider la | | | | | | | 000 | TOP |
| BOT CHORD | 19-20=-609/2617, 1 | 7-19=-539/2492 | 9) | | designed in acco Residential Cod | | | and | | | | SOFA | AIG D |
| | 16-17=-375/2084, 14 | | | | nd referenced sta | | | anu | | | - 3 | BIE | -0.0 M |
| | 13-14=-577/2617 | , | 10 | | | | | size | | | A | N/ | Nest |
| NEBS | 6-17=-81/462, 6-16= | -235/245, 7-16=-89/42 | 27, | 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or | | | | | | | | | |
| | 3-20=-2512/608, 10- | | | bottom chore | | | | | | | Br | SEVI | ER \ |
| | | -12/277, 5-17=-565/21 | | DAD CASE(S) | Standard | | | | | | 0 | | (** * |
| | 8-16=-563/211, 8-14 | l=-12/277, 10-14=-88/1 | 67 - | | | | | | | | 8 L | | |
| NOTES | | | | | | | | | | | 3- | hasta | La rea |
|) Unbalance | ed roof live loads have | been considered for | | | | | | | | | YL V | | |

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



October 2,2024

PE-2001018

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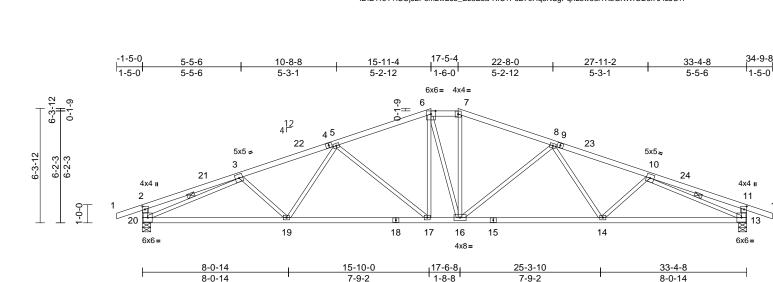
 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value to dury with with where outputs into design is based only door parameters shown, and is for an individual building design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members 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 and truss systems, see **ANS/TPH1 Quality Criteria**, and **DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P240988-01 | A08 | Нір | 1 | 1 | Job Reference (optional) | 168602414 |

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:29 ID:BYroY?fSOjJ2Pom2wEJb_EzeBba-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

12

13



Scale = 1:63.6

| Plate Offsets (X, Y): [2:0-2-0,0-1-12], [11:0-2-0,0-1-12] | | | | | | | | | | | | | |
|--|--|--|--|-----------|---|--|--|------------------------------|-------------------------------|-------------------------------|--------------------------|----------------------------------|------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 NO IRC2018 | 8/TPI2014 | CSI TC BC WB Matrix-S | 0.74 0.68 0.87 | DEFL Vert(LL) Vert(CT) Horz(CT) | in -0.20 -0.42 0.13 | (loc) 17-19 17-19 13 | l/defl >999 >945 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 155 lb | GRIP 244/190 FT = 20% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD | LUMBER 2) W TOP CHORD 2x4 SP No.2 *Except* 1-4,9-12:2x4 SP Va 1650F 1.5E Ka BOT CHORD 2x4 SP 1650F 1.5E ex WEBS 2x3 SPF No.2 *Except* 20-2,13-11:2x4 SP In 1650F 1.5E 17 BRACING to | | | | 7-16; Vult=11 h; TCDL=6.0ps t. II; Exp C; Er e and C-C Exte -7-0 to 15-11-2 rior(2R) 17-5-2 ne; cantilever I ind right expos | sf; BCDL=6.0 nclosed; MW erior(2E) -1-5 4, Exterior(2E 4 to 24-6-2, li left and right | Dpsf; h=35ft; FRS (envelo 5-0 to 3-7-0, E) 15-11-4 to nterior (1) 24 exposed ; er | pe) -6-2 nd | | | | | |
| BOT CHORD WEBS REACTIONS | CHORD Structural wood sheathing directly applied or 2-11-2 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-4 max.): 6-7. vertic forces CHORD Rigid ceiling directly applied or 9-1-14 oc bracing. 3) Provi 3S 1 Row at midpt 3-20, 10-13 5) This t chord CTIONS (size) 13=0-5-8 20=0-5-8 chord | | | | /FRS for reactilate grip DOL= quate drainage 3x4 MT20 un as been design ad nonconcurr pas been desid | ions shown; 1.60 to prevent v nless otherwi ned for a 10.0 ent with any | Lumber water pondin se indicated.) psf bottom other live loa | g. ads. | | | | | |

* This truss has been designed for a live load of 20.0psf

on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom

7) All bearings are assumed to be SP 1650F 1.5E crushing

International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 10) Graphical purlin representation does not depict the size

or the orientation of the purlin along the top and/or

One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 20 and 13. This connection is for uplift

only and does not consider lateral forces. This truss is designed in accordance with the 2018

chord and any other members.

capacity of 565 psi.

bottom chord. LOAD CASE(S) Standard

| ILLACHONG | (3120) | 13-0-3-0, 20-0-3-0 |
|-----------|-------------|-----------------------------------|
| | Max Horiz | 20=-81 (LC 17) |
| | Max Uplift | 13=-339 (LC 9), 20=-339 (LC 8) |
| | Max Grav | 13=1598 (LC 1), 20=1598 (LC 1) |
| FORCES | (lb) - Maxi | mum Compression/Maximum |
| | Tension | |
| TOP CHORD | 1-2=0/35, | 2-3=-440/136, 3-5=-2802/693, |
| | 5-6=-2253 | 8/629, 6-7=-2086/635, |
| | 7-8=-2254 | /631, 8-10=-2801/700, |
| | 10-11=-44 | 0/136, 11-12=0/35, 2-20=-436/262, |
| | 11-13=-43 | 6/262 |
| BOT CHORD | 19-20=-60 | 9/2617, 17-19=-539/2492, |
| | 16-17=-37 | /5/2084, 14-16=-508/2492, |
| | 13-14=-57 | 6/2617 |
| WEBS | 6-17=-81/4 | 462, 6-16=-235/245, 7-16=-89/427, |
| | 3-20=-250 | 8/607, 10-13=-2507/603, |
| | 3-19=-88/ | 167, 5-19=-12/277, 5-17=-565/212, |
| | 8-16=-563 | /211, 8-14=-12/277, 10-14=-88/167 |
| | | |

NOTES

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

OF MISS SCOTT M. SEVIER NUMBER PE-200101880 C SIONAL October 2,2024

 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponent.com)

6)

8)

9)



| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|---------------------|-----|-----|--------------------------|-----------|
| P240988-01 | A09 | Roof Special Girder | 1 | 2 | Job Reference (optional) | 168602415 |

Run: 8,63 S Jul 12 2024 Print: 8,630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:29 ID:82tMaDSkXvGZgcMDrwyXakyXpc4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



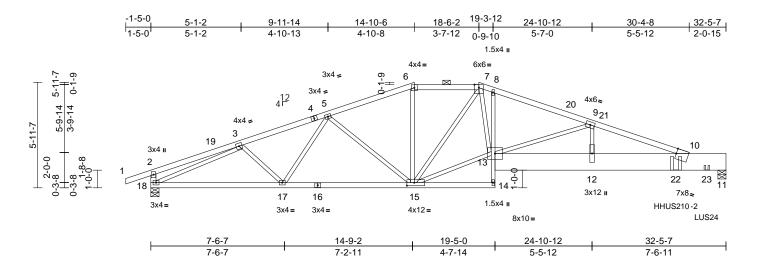
Page: 1

DEVELOPMENT SERVICES LEE'S'SUMMIT'S MISSOURI 10/28/2024 10:57:47

TION

IEW

October 2,2024



Scale = 1:65

Plate Offsets (X, Y): [10:0-0-2,Edge], [15:0-5-0,0-2-0]

| | , , , , , [:e:e e 2,2age | j/E / j | | | | | | | | | | | | |
|--|--|--|---|---|--|---|---|---|---|--|--|---|---|--|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 NO IRC201 | 8/TPI2014 | CSI TC BC WB Matrix-S | 0.81 0.81 0.67 | DEFL Vert(LL) Vert(CT) Horz(CT) | | (loc) 12-13 12-13 11 | l/defl >999 >915 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 370 lb | GRIP 244/190 FT = 20% | |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS | 13-11:1 1/2" x 11 1/2 2x3 SPF No.2 *Exce Structural wood she 3-4-7 oc purlins, exi 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. (size) 11=0-5-8, Max Horiz 18=114 (L Max Uplift 11=-1138 | 4" 2.0E Microllam® L pt* 18-2:2x4 SP No. athing directly applie cept end verticals, a i-0 max.): 6-7. applied or 10-0-0 or 18=0-5-8 _C 12) (LC 9), 18=-413 (LC | 2, _VL 2 ed or nd 2) c 2 3) | (0.131"x3") n Top chords o oc. Bottom chor 0-9-0 oc, 2x: staggered at Web connec All loads are except if not CASE(S) se provided to o unless other | b be connected to hails as follows: connected as follows: ds connected as follows: 3 - 1 row at 0-9-0 t 0-2-0 oc. ted as follows: 2x considered equa ed as front (F) or ction. Ply to ply co distribute only loa- wise indicated. roof live loads ha | ows: 2x4 follows: 2 oc, 2x12 3 - 1 row Ily applie back (B) ponnection ds noted | 1 row at 0-9 x4 - 1 row at - 2 rows at 0-9-0 oc. d to all plies, face in the LC s have been as (F) or (B), | DAD | rec UP doe 11) Thi: Inte R8(12) Gra or t bott 13) Use 10- to c 14) Use | ommend LIFT at j as not cc s truss is ernationa 02.10.2 aphical p he orien tom cho e Simps 16d Tru connect e Simps | ded to d it(s) 18 onsider s desig al Resid and ref ourlin re tation d rd. on Stro ss) or e truss(e on Stro | . This connection lateral forces. Ined in accordanc dential Code sect ferenced standard apresentation doe of the purlin along ong-Tie HHUS21C aquivalent at 29-7 s) to front face of | bearing walls due to is for uplift only and the with the 2018 ions R502.11.1 and d ANSI/TPI 1. es not depict the size g the top and/or 0-2 (30-16d Girder, '-9 from the left end bottom chord. -10d Girder, 2-10d | |
| FORCES TOP CHORD BOT CHORD | Itax Grav 11=5917 (LC 1), 18=1920 (LC 1) (lb) - Maximum Compression/Maximum Wind: ASCE 7-16; Vult=115mph (3-second gust) Yest Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Tension Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; 1-2=0/35, 2-3=-444/144, 3-5=-3603/860, Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; 5-6=-3242/849, 6-7=-3039/843, Interior (1) 3-7-0 to 14-10-6, Exterior(2E) 14-10-6 to 7-8=-4647/1210, 8-9=-4736/1162, Interior (1) 3-7-0 to 14-10-6, Exterior(2E) 14-10-6 to 910=-8100/1821, 2-18=-442/261 18-6-2, Exterior(2R) 18-6-2 to 23-6-2, Interior (1) 23-6-2 17-18=-761/3244, 15-17=-758/3347, vertical left and right exposed; c-C for members and 14-15=-42/199, 13-14=0/64, 8-13=-172/201, forces & MWFRS for reactions shown; Lumber 12-13=-1623/7478, 10-12=-1623/7478, DOL=1.60 | | | | | | | -6-2 id | the truss. LOAD CASE(S) Standard | | | | | |
| WEBS | 6-15=-89/631, 7-15= 13-15=-817/3874, 7- 9-13=-3296/744, 9-1 3-18=-3212/742, 3-1 5-15=-440/222 | -13=-666/2748, 2=-364/2284, | 5) 6) /183, 8) 9) | This truss ha chord live lo. * This truss I on the bottoo 3-06-00 tall I chord and al Bearings are capacity of 5 crushing cap LGT2 Simps connect trus | as been designed ad nonconcurrent has been designe m chord in all area by 2-00-00 wide w ny other members assumed to be: 165 psi, Joint 11 T boacity of 750 psi. Son Strong-Tie cou s to bearing walls tion is for uplift on | for a 10.0 with any d for a liv as where vill fit betw s. Joint 18 s rus Joist nnectors due to U | D psf bottom other live loa e load of 20.0 a rectangle veen the botto SP No.2 crush B LVL 2.0 E recommende PLIFT at jt(s) | dds. Dpsf om hing d to 11. | | | A STATE | NUM PE-2001 | T M. ER BER 018807 | |

connect truss to bearing walls due to UPLIFT at jt(s) 11. This connection is for uplift only and does not consider lateral forces.

Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 besign value to dury with with where outputs into design is based only door parameters shown, and is for an individual building design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members 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 and truss systems, see **ANS/TPH1 Quality Criteria**, and **DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|---------------------|-----|-----|--------------------------|-----------|
| P240988-01 | A09 | Roof Special Girder | 1 | 2 | Job Reference (optional) | 168602415 |

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:29 ID:82tMaDSkXvGZgcMDrwyXakyXpc4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2

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

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-6=-70, 6-7=-70, 7-10=-70, 14-18=-20, 10-13=-20, 10-11=-90

Concentrated Loads (lb)

Vert: 22=-4354 (F), 23=-487 (F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 touls be personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



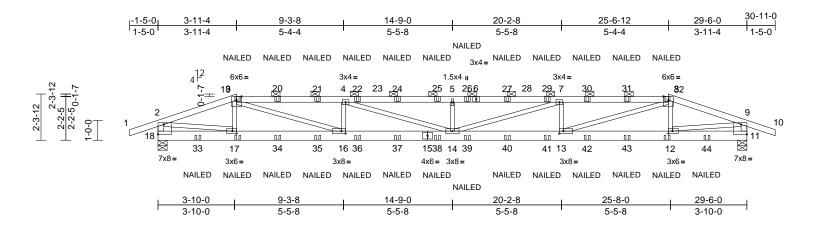
| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P240988-01 | B01 | Hip Girder | 1 | 2 | Job Reference (optional) | 168602416 |

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:29 ID:57e2QzG5EP7bJXy1aKBqV1zeC6L-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

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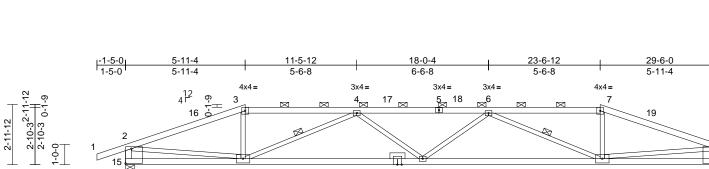
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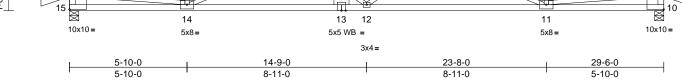
| Plate Offsets (2 | X, Y): [11:Edge,0-6-0] |], [12:0-2-8,0-1-8], [1 | 3:0-2-8,0- | 1-8], [16:0-2-8 | ,0-1-8], [17:0-2-8,0 |)-1-8], [1 | 8:Edge,0-6-0 |] | | | | | | |
|--|---|--|---|--|---|--|---|----------|-------------------------------|-------------------------------|--------------------------|--|------------------------|--|
| Loading TCLL (roof) TCDL BCLL | (psf) 25.0 10.0 0.0* | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr | 2-0-0 1.15 1.15 NO | | CSI TC BC WB | 0.94 0.66 0.53 | DEFL Vert(LL) Vert(CT) Horz(CT) | | (loc) 14-16 14-16 11 | l/defl >996 >536 n/a | L/d 240 180 n/a | PLATES MT20 | GRIP 197/144 | |
| BCDL | 10.0 | Code | | 8/TPI2014 | Matrix-S | | - (-) | | | | | Weight: 265 lb | FT = 20% | |
| | 2x4 SP No.2 2x6 SPF No.2 2x3 SPF No.2 *Exce No.2 Structural wood she: 6-0-0 oc purlins, exi 2-0-0 oc purlins (3-1 Rigid ceiling directly bracing. (size) 11=0-5-8, Max Horiz 18=8 (LC Max Uplift 11=-502 (| athing directly applie cept end verticals, ar 1-3 max.): 3-8. applied or 10-0-0 oc 18=0-5-8 16) | 3) d or 4) d | this design. Vert: 3=-38 (F), 17=-18 (F), 12=-18 (F), 8=-38 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vert: 3=-38 (F), 17=-18 (F), 12=-18 (F), 8=-38 Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; 20=-38 (F), 21=-38 (F), 22=-38 (F), 24=-38 (F) Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) automatication of the second gust) exterior zone and C-C Exterior(2E) -1-5-0 to 3-7-0, automatication of the second gust) Interior (1) 3-7-0 to 3-11-4, Exterior(2E) 25-6-12 to 3018 (F), 36=-18 (F), 41=-18 (F), 42=-18 (F) 30-11-0 zone; cantilever left and right exposed ; end automatication of the second gust) 43=-18 (F), 44=-117 (F) | | | | | | | | | | |
| | Max Grav 11=1874 (| ,,, ,, , , , , , , , , , , , , , , , , | , | | ind right exposed; /FRS for reactions | | | | | | | | | |
| FORCES | (lb) - Maximum Com | pression/Maximum | | DOL=1.60 plate grip DOL=1.60 | | | | | | | | | | |
| TOP CHORD BOT CHORD | | r=-7170/1771, 9=-3311/834, 9-10=0/ 1=-1744/575 -17=-712/3112, 13-14=-1431/5975, | 5) Provide adequate drainage to prevent water ponding. 4=-6021/1532, 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 834, 9-10=0/35, 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 2/3112, 3-06-00 tall by 2-00-00 wide will fit between the bottom | | | | | | | | | T | | |
| $\begin{array}{c} 14-16=-1411/6018, 13-14=-1431/5975,\\ 12-13=-736/3123, 11-12=-101/433\\ \mbox{WEBS} & 3-17=-659/2702, 9-12=-663/2717,\\ 3-16=-751/3103, 8-13=-736/3046,\\ 4-16=-940/366, 4-14=-299/1234,\\ 5-14=-511/253, 7-14=-308/1279,\\ 7-13=-967/372\\ \mbox{NOTES} \\ 1) $2-ply$ truss to be connected together with 10d $(0.131"x3")$ nails as follows: $2x4 - 1$ row at 0-9-0$ oc. $Pointer shared exercised on fully and $2-0$ proves $12-120, 1$ | | | | capacity of 4 Two H2.5T S recommende UPLIFT at jt only and doe)) This truss is International R802.10.2 a () Graphical pu or the orient: bottom chord | Simpson Strong-Tie ed to connect truss (s) 18 and 11. This as not consider late designed in accorr Residential Code nd referenced star urlin representation ation of the purlin a d. | e connec s to bear s connec eral force dance w sections ndard AN does no along the | ctors ing walls due tion is for upli ss. ith the 2018 is R502.11.1 at ISI/TPI 1. ot depict the s top and/or | ft nd | | | | STATE OF M SCOT SEVI NUM PE-2001 | ER SER 018807 | |
| staggered | ords connected as follo at 0-9-0 oc. ected as follows: 2x3 - | | | 12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines. LOAD CASE(S) Standard October 2,2024 | | | | | | | | | | |

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Claulity Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P240988-01 | B02 | Нір | 1 | 1 | Job Reference (optional) | 168602417 |

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:30 ID:sCAwEKnRLJPdM_A519xhCuzeC5h-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





| Scale = 1:57.2 | |
|-----------------------|------------------------------------|
| Plate Offsets (X, Y): | [10:Edge,0-8-12], [15:Edge,0-8-12] |

| Plate Offsets () | X, Y): [10:Edge,0-8-1 | 2], [15:Edge,0-8-12] | - | | | | | | | | | | |
|---|---|---|--|--|---|--|--|---|-------------------------------|-------------------------------|--------------------------|----------------|------------------------|
| Loading TCLL (roof) TCDL BCLL | (psf) 25.0 10.0 0.0* | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr | 2-0-0 1.15 1.15 NO | | CSI TC BC WB | 0.92 0.83 0.69 | DEFL Vert(LL) Vert(CT) Horz(CT) | | (loc) 12-14 11-12 10 | l/defl >999 >617 n/a | L/d 240 180 n/a | PLATES MT20 | GRIP 197/144 |
| BCDL | 10.0 | Code | IRC201 | 8/TPI2014 | Matrix-S | | | | | | | Weight: 125 lb | FT = 20% |
| | 2x4 SP No.2 *Excep 2.0E 2x4 SP 1650F 1.5E 2x3 SPF No.2 *Exce No.2 2x4 SP No.2 Structural wood she 2-11-1 oc purlins, e 2-0-0 oc purlins (3-2 Rigid ceiling directly bracing. 1 Row at midpt (size) 10=0-5-8, Max Horiz 15=18 (LC Max Uplift 10=-351 (Max Grav 10=1424 + (lb) - Maximum Com Tension 1-2=0/35, 2-3=-2540 | ept* 15-2,10-8:2x4 SF athing directly applie xcept end verticals, a -8 max.): 3-7. applied or 7-6-2 oc 4-14, 6-11 15=0-5-8 C 16) LC 9), 15=-351 (LC 8 (LC 1), 15=1424 (LC ppression/Maximum | d or and 3) 4) 5) 3) 6) 1) 7) | Vasd=91mp Ke=1.00; Ca exterior zonm Interior (1) 3 Interior (1) 1 30-11-0 zon vertical left a forces & MW DOL=1.60 p Provide ade This truss ha chord live lo * This truss ha chord live lo * This truss lo on the botto 3-06-00 tall I chord and al All bearings capacity of § One H2.5T § recommende | 7-16; Vult=115m h; TCDL=6.0psf; t. II; Exp C; Enclc e and C-C Exteric -7-0 to 5-11-4, Es 3-0-2 to 23-6-12, e; cantilever left a ind right exposed /FRS for reaction late grip DOL=1.6 quate drainage to as been designed ad nonconcurrent has been designed ad nonconcurrent has been designed an chord in all are by 2-00-00 wide v hy other members are assumed to b 65 psi. Simpson Strong-T ed to connect trus (s) 15 and 10. Th | BCDL=6. based; MW or(2E) -1-5 kterior(2R Exterior(2R Exterior(2) and right e ;C-C for n s shown; 60 p prevent 0 I for a 10. t with any ed for a liv as where will fit betv s. be SP 165 Fie connection | Dpsf; h=35ft; FRS (envelop i-0 to 3-7-0,) 5-11-4 to 13 (E) 23-6-12 tr xposed ; end nembers and Lumber water ponding 0 psf bottom other live loa e load of 20.0, a rectangle ween the botto 0F 1.5E crus xtors ing walls due | 3-0-2, o l g. dds. Opsf om whing to | | | | | |
| | 4-6=-3746/930, 6-7= 7-8=-2538/614, 8-9= 8-10=-1370/486 | =-2328/611, =0/35, 2-15=-1369/49 | | only and doe This truss is International | es not consider la designed in acco Residential Code | teral force ordance w e sections | es. ith the 2018 R502.11.1 a | | | | | OF M | |
| BOT CHORD WEBS | 14-15=-163/352, 12- 11-12=-903/3652, 10 3-14=-29/510, 7-11= 2-14=-410/2012, 8-1 4-12=0/298, 4-14=-1 6-11=-1534/446 | 0-11=-141/358 37/534, 1=-399/2004, | 9) 4, LC | Graphical pu | | on does no | ot depict the s | size | | | Hox No. | STATE OF A | |
| NOTES | | | | | | | | | | | XV | att 2 | Same A |
| Unbalance this design | ed roof live loads have | been considered for | | | | | | | | | R | NUM | BER A |

this design.





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October 2,2024

PE-2001018

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Page: 1

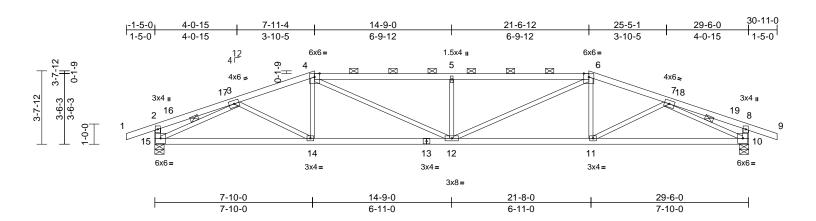
30-11-0

1-5-0

8

| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P240988-01 | B03 | Нір | 1 | 1 | Job Reference (optional) | 168602418 |

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:30 ID:OH8zbozTaEQMHSOAzWDRrGzeC5R-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:57.2

| Loading | (psf) | Spacing | 2-0-0 | | csi | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|----------------------------|-------------------------|-------------|--|--|-----------|------------|-------|-------|--------|-----|----------------|------------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | | TC | 0.76 | Vert(LL) | -0.22 | 12-14 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.79 | Vert(CT) | -0.40 | 12-14 | >885 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | | WB | 0.51 | Horz(CT) | 0.10 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC201 | 8/TPI2014 | Matrix-S | | | | | | | Weight: 128 lb | FT = 20% |
| LUMBER | | | 2 | Wind: ASCE | 7-16; Vult=115m | ph (3-sec | ond gust) | | | | | | |
| TOP CHORD | 2x4 SP No.2 *Excep 1.5E | t* 4-6:2x4 SP 1650F | | | h; TCDL=6.0psf; E t. II; Exp C; Enclo | | | pe) | | | | | |
| BOT CHORD | 2x4 SP No.2 | | | | and C-C Exterio | | | - / | | | | | |
| WEBS | | ept* 15-2,10-8:2x4 SP |) | Interior (1) 3-7-0 to 7-11-4, Exterior(2R) 7-11-4 to 14-9-0, | | | | | | | | | |
| | No.2 | , | | Interior (1) 14-9-0 to 21-6-12, Exterior(2R) 21-6-12 to | | | | | | | | | |
| BRACING | | | | 28-7-10, Interior (1) 28-7-10 to 30-11-0 zone; cantilever | | | | | | | | | |
| TOP CHORD | Structural wood she | athing directly applied | dor | | exposed ; end ve | | | | | | | | |
| | | cept end verticals, an | | | c for members and | | | r | | | | | |
| | 2-0-0 oc purlins (3-4 | | | reactions shown; Lumber DOL=1.60 plate grip | | | | | | | | | |
| BOT CHORD | Rigid ceiling directly | applied or 7-8-15 oc | | DOL=1.60 | | | | | | | | | |
| | bracing. | | 3 | | quate drainage to | | | g. | | | | | |
| WEBS | 1 Row at midpt | 3-15, 7-10 | 4) | | s been designed | | | | | | | | |
| REACTIONS | (size) 10=0-5-8, | 15=0-5-8 | | | ad nonconcurrent | | | | | | | | |
| | Max Horiz 15=30 (LC | C 16) | 5 | 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle | | | | | | | | | |
| | Max Uplift 10=-344 (| , | 3) | | | | | | | | | | |
| | Max Grav 10=1424 | | | 3-06-00 tall by 2-00-00 wide will fit between the bottom | | | | | | | | | |
| FORCES | (lb) - Maximum Com | | ., | chord and any other members.All bearings are assumed to be SP No.2 crushing | | | | | | | | | |
| IONOLO | Tension | ipression/maximum | 0 | capacity of 5 | | e SP NO. | z crusning | | | | | | |
| TOP CHORD | 1-2=0/35, 2-3=-289/ | 92 3-4=-2469/647 | 7 | | Simpson Strong-T | io conno | tore | | | | | | |
| | 4-5=-3075/857, 5-6= | | 1, | | ed to connect trus | | | to | | | | | |
| | 6-7=-2468/646, 7-8= | | | | (s) 15 and 10. Thi | | | | | | | | |
| | 2-15=-356/223, 8-10 | | | | s not consider lat | | | | | | | | |
| BOT CHORD | 14-15=-564/2082, 12 | | 8 | | designed in acco | | | | | | | | |
| | 11-12=-498/2316, 10 | | 0, | | Residential Code | | | and | | | | | an |
| WEBS | 4-14=-34/188, 4-12= | -248/953. | | | nd referenced sta | | | | | | | OF | ALC D |
| | 5-12=-595/282, 6-12 | | 9 | | Irlin representation | | | size | | | | ACE | N SCIM |
| | 6-11=-35/188, 3-15= | -2108/604, | 0, | | ation of the purlin | | | 5.20 | | | 6 | | N.S. |
| | | 4=-11/412, 7-11=-11 | /411 | bottom chore | | and and | | | | | A | STATE OF M | IM. VEN |
| NOTES | , | 1. | OAD CASE(S) | | | | | | | H | SEV | ER YY | |
| | ed roof live loads have | been considered for | - | | Glandard | | | | | | 8. | | |
| ., | | | | | | | | | | | NA | at | · D |

this design.



October 2,2024

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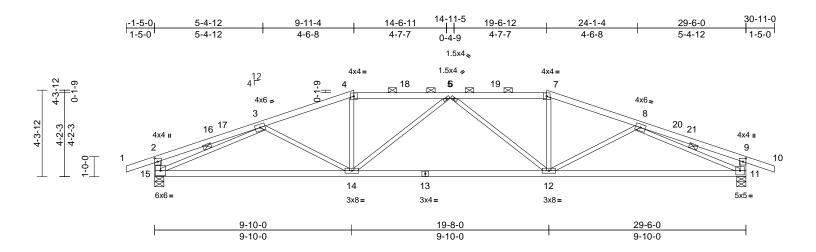
NUMBER PE-2001018807

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 **ANSITPTI Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P240988-01 | B04 | Нір | 1 | 1 | Job Reference (optional) | 168602419 |

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:30 ID:W2yJu2LHWSC6t3hxjpmT3azeC4z-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:57.5

| Plate Offsets (X, Y): [2:0-2-0,0-1-12], [9:0-2-0,0-1-12] | | | | | | | | | | | | | |
|--|-------|-----------------|-------|-----|------|----------|-------|-------|--------|-----|--------|--|--|
| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | | |
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | тс | 0.56 | Vert(LL) | -0.36 | 12-14 | >975 | 240 | MT20 | | |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.97 | Vert(CT) | -0.81 | 12-14 | >432 | 180 | | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.73 | Horz(CT) | 0.09 | 11 | n/a | n/a | | | |

| BCDL | 10.0 | Code | IRC2018 | 8/TPI2014 | Matrix-S | | Weight: 129 lb | FT = 20% |
|---------------------|--|----------------|-----------|-------------|---|----------------|----------------|----------|
| LUMBER TOP CHORD | 2x4 SP No.2 | | 2) | | 7-16; Vult=115mph (3-sec a; TCDL=6.0psf; BCDL=6.0 | 5, | | |
| BOT CHORD | | *Except* 13-1 | 1:2x4 SP | Ke=1.00; Ca | t. II; Exp C; Enclosed; MW and C-C Exterior(2E) -1-5 | FRS (envelope) | | |
| WEBS | 2x3 SPF No.2 *Exce 1650F 1.5E | ept* 15-2,11-9 | :2x4 SP | | 7-0 to 9-11-4, Exterior(2R) 7-0-2 to 19-6-12, Exterior(2 | | | |
| BRACING | | | | , | rior (1) 26-7-10 to 30-11-0 | | | |
| TOP CHORD | Structural wood she 3-3-7 oc purlins, ex 2-0-0 oc purlins (3-4 | cept end verti | cals, and | exposed;C-C | exposed ; end vertical left for members and forces & own; Lumber DOL=1.60 pla | MWFRS for | | |

| BOT CHORD | Rigid ceiling directly applied or 8-11-2 oc | | | | | | | |
|-----------|---|--|--|--|--|--|--|--|
| | bracing. | | | | | | | |
| WEBS | 1 Row at midpt 3-15, 8-11 | | | | | | | |
| REACTIONS | (size) 11=0-5-8, 15=0-5-8 | | | | | | | |
| | Max Horiz 15=43 (LC 12) | | | | | | | |
| | Max Uplift 11=-334 (LC 9), 15=-334 (LC 8) | | | | | | | |
| | Max Grav 11=1424 (LC 1), 15=1424 (LC 1) | | | | | | | |
| FORCES | (lb) - Maximum Compression/Maximum | | | | | | | |
| | Tension | | | | | | | |
| TOP CHORD | 1-2=0/35, 2-3=-391/124, 3-4=-2390/644, | | | | | | | |
| | 4-5=-2218/639, 5-6=-2478/763, | | | | | | | |
| | 6-7=-2208/641, 7-8=-2379/646, | | | | | | | |
| | 8-9=-410/125, 9-10=0/35, 2-15=-418/256, | | | | | | | |
| | 9-11=-422/256 | | | | | | | |
| BOT CHORD | 14-15=-622/2234, 12-14=-596/2478, | | | | | | | |
| | 11-12=-587/2231 | | | | | | | |
| WEBS | 4-14=-50/428, 7-12=-51/426, | | | | | | | |
| | 3-15=-2135/626, 8-11=-2111/628, | | | | | | | |
| | 6-12=-479/191, 5-14=-466/194, | | | | | | | |
| | 8-12=-54/216, 3-14=-46/222 | | | | | | | |
| | 0 12 0 12 10, 0 1 10/22E | | | | | | | |

NOTES

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

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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 15 SP 1650F 1.5E 6) crushing capacity of 565 psi, Joint 11 SP 2400F 2.0E crushing capacity of 805 psi.
- 7) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15 and 11. This connection is for uplift only and does not consider lateral forces.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- LOAD CASE(S) Standard

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GRIP

197/144

Page: 1

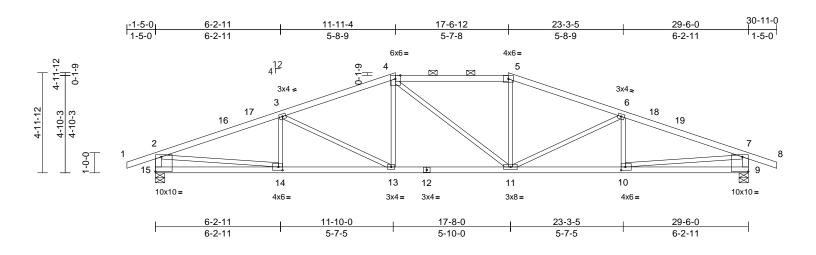
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponent.com)



| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P240988-01 | B05 | Нір | 1 | 1 | Job Reference (optional) | 168602420 |

Run: 8,63 S Jul 12 2024 Print: 8,630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:30 ID:tYp24OpIKR7a329RWVzc8pzeC4M-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:57.3

| Plate Offsets (X, Y): [9:Edge,0-8-12], [10:0-2-8,0-2-0], [14:0-2-8,0-2-0], [15:Edge,0-8-12] | | | | | | | | | | | | |
|---|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.81 | Vert(LL) | -0.15 | 13-14 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.74 | Vert(CT) | -0.30 | 11-13 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.68 | Horz(CT) | 0.07 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 132 lb | FT = 20% |
| JUMBER 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) | | | | | | | | | | | | |

| LUMBER | | -2) | Wind: ASCE 7-16; Vult=1 |
|-----------|--|----------|---|
| TOP CHORD | 2x4 SP No.2 | | Vasd=91mph; TCDL=6.0 |
| BOT CHORD | 2x4 SP No.2 | | Ke=1.00; Cat. II; Exp C; E |
| WEBS | 2x3 SPF No.2 *Except* 15-2,9-7:2x4 SP No.2 | | exterior zone and C-C Ex |
| BRACING | | | Interior (1) 3-7-0 to 11-11 |
| TOP CHORD | Structural wood sheathing directly applied or | | 17-6-12, Exterior(2R) 17- |
| | 3-2-3 oc purlins, except end verticals, and | | 24-7-10 to 30-11-0 zone; |
| | 2-0-0 oc purlins (3-0-14 max.): 4-5. | | exposed ; end vertical left |
| BOT CHORD | Rigid ceiling directly applied or 7-7-14 oc | | members and forces & M |
| | bracing. | 2) | Lumber DOL=1.60 plate g Provide adequate drainad |
| REACTIONS | (size) 9=0-5-8, 15=0-5-8 | 3) 4) | This truss has been desid |
| | Max Horiz 15=56 (LC 16) | 4) | chord live load nonconcu |
| | Max Uplift 9=-323 (LC 9), 15=-323 (LC 8) | 5) | * This truss has been des |
| | Max Grav 9=1424 (LC 1), 15=1424 (LC 1) | 5) | on the bottom chord in all |
| FORCES | (lb) - Maximum Compression/Maximum | | 3-06-00 tall by 2-00-00 wi |
| | Tension | | chord and any other mem |
| TOP CHORD | 1-2=0/35, 2-3=-2515/691, 3-4=-2196/649, | 6) | All bearings are assumed |
| | 4-5=-2019/677, 5-6=-2193/673, | | capacity of 565 psi. |
| | 6-7=-2516/712, 7-8=0/35, 2-15=-1351/503, | 7) | One H2.5T Simpson Stro |
| | 7-9=-1352/493 | | recommended to connect |
| BOT CHORD | | | UPLIFT at jt(s) 15 and 9. |
| | 11-13=-451/2022, 10-11=-571/2319, | | only and does not conside |
| | 9-10=-75/354 | 8) | This truss is designed in a |
| WEBS | 3-14=-148/137, 3-13=-372/181, 4-13=-9/335, | | International Residential |
| | 4-11=-203/194, 5-11=-3/326, 6-11=-377/177, | | R802.10.2 and reference |
| | 6-10=-144/142, 2-14=-487/1978, 7-10=-503/1980 | 9) | Graphical purlin represen |
| NOTES | 1-10=-303/1900 | | or the orientation of the pro- |
| | | | |

NOTES

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

- Opsf; BCDL=6.0psf; h=35ft; Enclosed; MWFRS (envelope) xterior(2E) -1-5-0 to 3-7-0, 1-4, Exterior(2E) 11-11-4 to -6-12 to 24-7-10, Interior (1) cantilever left and right ft and right exposed;C-C for MWFRS for reactions shown; grip DOL=1.60 age to prevent water ponding.
- igned for a 10.0 psf bottom urrent with any other live loads. signed for a live load of 20.0psf
- Il areas where a rectangle vide will fit between the bottom mbers.
- d to be SP No.2 crushing
- ong-Tie connectors ct truss to bearing walls due to This connection is for uplift der lateral forces.
- accordance with the 2018 Code sections R502.11.1 and ed standard ANSI/TPI 1.
- ntation does not depict the size purlin along the top and/or bottom chord.
- LOAD CASE(S) Standard



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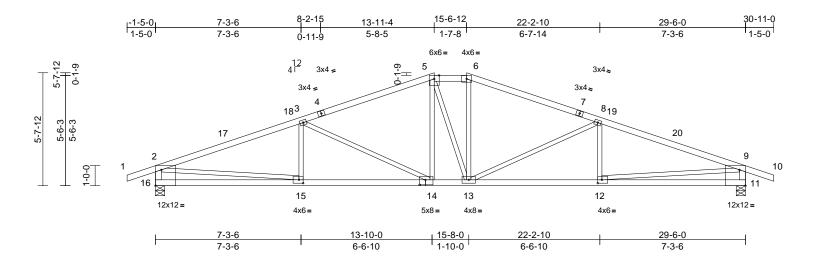
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 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value to dury with with where outputs into design is based only door parameters shown, and is for an individual building design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members 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 and truss systems, see **ANS/TPH1 Quality Criteria**, and **DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P240988-01 | B06 | Нір | 1 | 1 | Job Reference (optional) | 168602421 |

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:30 ID:i3pSAVvquOafT2dwL75yK?zeC2x-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



| Scale = 1 | 1:57.6 |
|-----------|--------|
|-----------|--------|

| Plate Offsets (| X, Y): [11:Edge,0-9-8 |], [12:0-2-8,0-2-0], [14 | l:0-3-8,0- | 3-0], [15:0-2-8, | ,0-2-0], [16:Edge, | ,0-9-8] | | | | | | | |
|--|--|---|---------------------------------------|---|--|--|---|------------------------------|-------------------------------|-------------------------------|--------------------------|----------------------------------|------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 NO IRC201 | 8/TPI2014 | CSI TC BC WB Matrix-S | 0.94 0.81 0.80 | DEFL Vert(LL) Vert(CT) Horz(CT) | in -0.16 -0.33 0.07 | (loc) 14-15 14-15 11 | l/defl >999 >999 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 136 lb | GRIP 244/190 FT = 20% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS | 2x4 SP No.2 *Excep 1.5E 2x4 SP No.2 2x3 SPF No.2 *Exce No.2 Structural wood she 2-9-3 oc purlins, ex 2-0-0 oc purlins (4-0 Rigid ceiling directly bracing. (size) 11=0-5-8, Max Horiz 16=68 (LC Max Uplift 11=-309 (Max Grav 11=1424 (lb) - Maximum Com | t* 4-5,6-7:2x4 SP 165 pt* 16-2,11-9:2x4 SP athing directly applied cept end verticals, and -8 max.): 5-6. applied or 8-0-12 oc 16=0-5-8 C 12) LC 9), 16=-309 (LC 8 (LC 1), 16=1424 (LC - | 2) 50F d 3) 4) 5) | Wind: ASCE Vasd=91mpl Ke=1.00; Ca exterior zone Interior (1) 3: 15-6-12, Extt 22-7-10 to 30 exposed ; er members an Lumber DOL Provide aded This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar All bearings | 7-16; Vult=115m n; TCDL=6.0psf; I t. II; Exp C; Enclc e and C-C Exterio -7-0 to 13-11-4, E erior(2R) 15-612 o-11-0 zone; cant d vertical left and d forces & MWFF =1.60 plate grip I quate drainage to us been designed ad nonconcurrent has been designed has been designed ha | BCDL=6.0 ssed; MW fr(2E) -1-5 Exterior(2E) tidever left d right exp RS for rea DOL=1.60 prevent to for a 10.0 with any d for a liv as where vill fit betw s. | Dpsf; h=35ft; FRS (envelop i-0 to 3-7-0, E) 13-11-4 to 0, Interior (1) and right iosed;C-C for ctions shown 0) water ponding 0 psf bottom other live loa e load of 20.0 a rectangle veen the bottom |) r g. ads. 0psf | | | | Weight: 136 lb | FT = 20% |
| TOP CHORD BOT CHORD WEBS | 5-6=-1828/580, 6-8= 8-9=-2528/640, 9-10 9-11=-1346/483 15-16=-207/483, 13 12-13=-493/2317, 1 |)=0/35, 2-16=-1349/48 -15=-522/2322, 1-12=-140/488 616/189, 5-14=-57/3 =-59/363, 2=-63/154, | 35, 8) | recommende UPLIFT at jt(only and doe This truss is International R802.10.2 at Graphical pu or the orienta | Simpson Strong-T ad to connect trus (s) 16 and 11. Thi is not consider lat designed in acco Residential Code nd referenced sta arlin representatio ation of the purlin | ss to beari is connec teral force ordance w e sections andard AN on does no | ing walls due tion is for upli es. R502.11.1 a ISI/TPI 1. ot depict the s | ift and | | | ł | STATE OF M | AISSOUR |
| NOTES 1) Unbalance this design | ed roof live loads have | | LC | bottom chord DAD CASE(S) | | | | | | | * | SEVI | |



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October 2,2024

PE-20010188

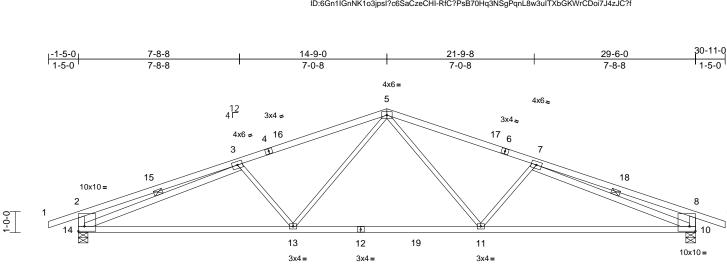
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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual 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 toulsable personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

| - | Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|---|------------|-------|------------|-----|-----|--------------------------|-----------|
| | P240988-01 | B07 | Common | 1 | 1 | Job Reference (optional) | 168602422 |

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:30 ID:6Gn1IGnNK1o3jpsI?c6SaCzeCHI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



| 10-3-2 19-2- | 4 29-6-0 | 1 |
|--------------|----------|---|
| 10-3-2 8-11- | | 1 |

Scale = 1:55.1

5-11-0

Plate Offsets (X, Y): [2:Edge,0-2-12], [10:Edge,0-2-12]

and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for

reactions shown; Lumber DOL=1.60 plate grip

DOL=1.60

| Fiate Offsets (A, 1). [2:Luge,0-2-12], [10:Luge,0-2-12] | | | | | | | | | | | | |
|--|--|--|---|---|--|---|------------------------------|-------------------------------|-------------------------------|--------------------------|----------------------------------|------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 NO IRC2018/TPI2014 | CSI TC BC WB Matrix-S | 0.91 0.68 0.68 | | in -0.40 -0.60 0.07 | (loc) 11-13 11-13 10 | l/defl >876 >586 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 138 lb | GRIP 244/190 FT = 20% |
| | 2x4 SP 1650F 1.5E 2x4 SP 2400F 2.0E 2x3 SPF No.2 *Exce 14-2,14-3,10-8,10-7: Structural wood shea except end verticals. Rigid ceiling directly bracing. 1 Row at midpt (size) 10=0-5-8, Max Horiz 14=74 (LC Max Uplift 10=-303 (I Max Grav 10=1461 ((Ib) - Maximum Com Tension 1-2=0/35, 2-3=-594/' 5-7=-2445/569, 7-8= 2-14=-532/321, 8-10 13-14=-504/2427, 11 10-11=-474/2411 5-13=-110/779, 3-13 3-14=-2102/457, 7-1 | 2x4 SP No.2 athing directly applie applied or 10-0-0 oc 3-14, 7-10 14=0-5-8 212) LC 9), 14=-303 (LC 8 (LC 2), 14=1460 (LC pression/Maximum 197, 3-5=-2464/568, -619/195, 8-9=0/35, =-535/320 I-13=-285/1808, =-410/269, =-408/270, | d, 5) All bear capacity d, 5) All bear capacity d, 5) All bear capacity d, 6) One H2 recomm UPLIFT only and 7) This trus Internati | is has been designed f e load nonconcurrent v uss has been designed ottom chord in all area: tall by 2-00-00 wide wi d any other members, ngs are assumed to be of 805 psi. 5T Simpson Strong-Tik ended to connect truss t jt(s) 14 and 10. This does not consider late is is designed in accord onal Residential Code .2 and referenced star E(S) Standard | with any for a live s where Il fit betw with BC SP 240 e connect connect eral force dance w sections | other live loads re load of 20.0p a rectangle veen the bottor CDL = 10.0psf. 00F 2.0E crushi ctors ing walls due to tion is for uplift es. ith the 2018 s R502.11.1 an | n ing o | | | | THE OF M | MISS |
| this design 2) Wind: ASC Vasd=91m Ke=1.00; C exterior zo Interior (1) | d roof live loads have b. E 7-16; Vult=115mph ph; TCDL=6.0psf; BCi Cat. II; Exp C; Enclose ne and C-C Exterior(2 3-7-0 to 14-9-0, Exter erior (1) 19-9-0 to 30-1 | (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) -1-5-0 to 3-7-0, ior(2R) 14-9-0 to | e) | | | | | | Ż | S. | SEVI | server |

October 2,2024

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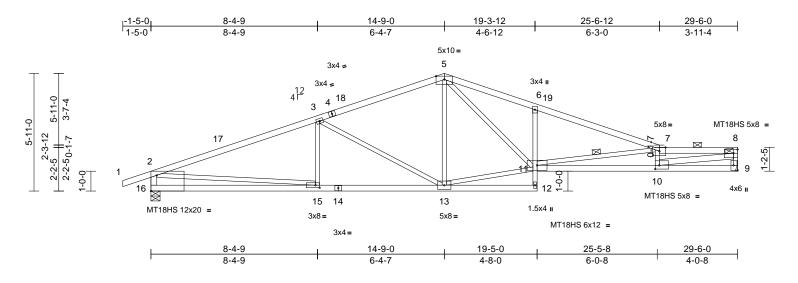
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 colleges with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Page: 1

| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|--------------|-----|-----|--------------------------|-----------|
| P240988-01 | B08 | Roof Special | 1 | 1 | Job Reference (optional) | 168602423 |

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:31 ID:0mMEUz1XEfAcWAfckRIX3PzeC1V-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:57.9

| Plate Offsets (2 | X, Y): [7:0-3-12,Edge |], [8:Edge,0-2-4], [9:Edge | 9,0-2-8 | 3], [10:0-2-8,0- | 2-4], [15:0-2-8,0- ⁻ | 1-8], [16:E | dge,0-9-8] | | | | | | |
|---|---|--|----------------------|--|---|---|---|---------------------------|------------------------------|-------------------------------|--------------------------|--------------------------|-----------------------------------|
| .oading TCLL (roof) TCDL BCLL | (psf) 25.0 10.0 0.0* | Plate Grip DOL1.Lumber DOL1.Rep Stress IncrNo | 15 ጋ | | CSI TC BC WB | 0.88 0.73 0.87 | DEFL Vert(LL) Vert(CT) Horz(CT) | | (loc) 10-11 10-11 9 | l/defl >999 >583 n/a | L/d 240 180 n/a | PLATES MT20 MT18HS | GRIP 244/190 197/144 |
| BCDL | 10.0 | Code IR | C201 | 8/TPI2014 | Matrix-S | - | | | | | | Weight: 136 lb | FT = 20% |
| UMBER OP CHORD OT CHORD /EBS RACING OP CHORD OT CHORD | 11-9:2x4 SP 2400F 2 2x3 SPF No.2 *Exce 1650F 1.5E Structural wood shea 3-0-3 oc purlins, exc 2-0-0 oc purlins (2-4 Rigid ceiling directly bracing. | t* 12-6:2x3 SPF No.2, 2.0E pt* 10-8,16-2:2x4 SP athing directly applied or sept end verticals, and -7 max.): 7-8. applied or 7-10-5 oc | 2) 3) 4) 5) | Vasd=91mpl Ke=1.00; Ca exterior zone Interior (1) 3 19-9-0, Inter and right exp exposed;C-0 reactions sh DOL=1.60 Provide adee All plates are This truss ha | 7-16; Vult=115m n; TCDL=6.0psf; I t. II; Exp C; Enclc and C-C Exterio -7-0 to 14-9-0, Ex- ior (1) 19-9-0 to 2 oosed; end vertic c for members an own; Lumber DO quate drainage to a MT20 plates uni as been designed ad nonconcurrent | BCDL=6. psed; MW pr(2E) -1-5 cterior(2R 29-4-12 zc al left and d forces 8 L=1.60 pl prevent less other for a 10.0 | Dpsf; h=35ft; FRS (envelo i-0 to 3-7-0,) 14-9-0 to nne; cantileve I right & MWFRS fo ate grip water ponding wise indicate D psf bottom | er left r g. ed. | | | | | |
| | (size) 9= Mecha Max Horiz 16=109 (L Max Uplift 9=-232 (L Max Grav 9=1313 (L | C 9), 16=-301 (LC 8) .C 1), 16=1429 (LC 1) | 6) 7) | * This truss I on the bottor 3-06-00 tall I chord and ar | nas been designe m chord in all area by 2-00-00 wide v ny other members e assumed to be: | ed for a liv as where vill fit betv s. | e load of 20.0 a rectangle veen the botte | 0psf om | | | | | |
| DRCES | (lb) - Maximum Com Tension | pression/Maximum | • | capacity of 5 | | | | - | | | | | |
| OP CHORD | | | 8) 9) 10 | Provide mec bearing plate joint 9. | er(s) for truss to t hanical connection capable of withs Simpson Strong-T | on (by oth standing 2 | ers) of truss t 32 lb uplift at | | | | | 51100 | aller |
| OT CHORD | 15-16=-316/699, 13- 12-13=-27/67, 11-12 10-11=-1023/4399, 9 | =0/76, 6-11=-419/234, -10=-73/205 | 10 | recommende UPLIFT at jt | (s) 16. This connect areas (s) 16. This connections | ss to bear | ng walls due | | | | Å | STATE OF M | MISSOLA |
| /EBS | 5-11=-414/1586, 8-1 2-15=-240/1577, 5-1 11-13=-364/1706, 3- 3-15=-3/186, 7-10=-3 | 3=-44/181, | 7 | International R802.10.2 a | designed in acco Residential Code nd referenced sta Irlin representatio | e sections andard AN | R502.11.1 a ISI/TPI 1. | | | | Ø | SEVI | I MI. YON |
| OTES Unbalance this design | ed roof live loads have n. | been considered for | | | ation of the purlin d. | | | | | - | A SA | PE-20010 | 018807 E 4 |

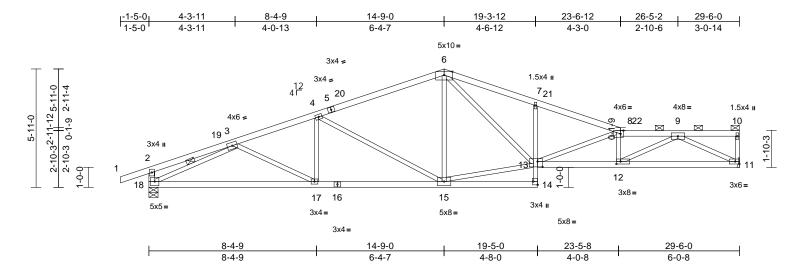


October 2,2024

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| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|--------------|-----|-----|--------------------------|-----------|
| P240988-01 | B09 | Roof Special | 1 | 1 | Job Reference (optional) | 168602424 |

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Scale = 1:57.5

1.5E

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.72 | Vert(LL) | -0.24 | 12-13 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.91 | Vert(CT) | -0.42 | 12-13 | >829 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.86 | Horz(CT) | 0.12 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 135 lb | FT = 20% |

| BOT CHORD | |
|-----------|---|
| | 13-11:2x4 SP 1650F 1.5E |
| WEBS | 2x3 SPF No.2 *Except* 18-2:2x4 SP 2400F 2.0E |
| BRACING | |
| TOP CHORD | Structural wood sheathing directly applied or |
| | 2-11-13 oc purlins, except end verticals, and |
| | |
| DOTOLODD | 2-0-0 oc purlins (2-9-7 max.): 8-10. |
| BOT CHORD | Rigid ceiling directly applied or 7-2-2 oc |
| | bracing. |
| WEBS | 1 Row at midpt 3-18 |
| REACTIONS | (size) 11= Mechanical, 18=0-5-8 |
| | Max Horiz 18=112 (LC 12) |
| | Max Uplift 11=-235 (LC 9), 18=-299 (LC 8) |
| | Max Grav 11=1313 (LC 1), 18=1429 (LC 1) |
| FORCES | (lb) - Maximum Compression/Maximum |
| | Tension |
| TOP CHORD | 1-2=0/35, 2-3=-343/68, 3-4=-2430/575, |
| | 4-6=-1903/508, 6-7=-3006/803, |
| | 7-8=-3025/742, 8-9=-3840/893, 9-10=-66/36, |
| | 10-11=-105/57, 2-18=-382/221 |
| BOT CHORD | |
| | 14-15=-22/109, 13-14=0/77, 7-13=-314/186, |
| | 12-13=-919/3789, 11-12=-628/2226 |
| WEBS | 6-13=-396/1521, 8-13=-1027/227, |
| WEBO | 3-18=-2075/571, 6-15=-39/191, |
| | 13-15=-415/1666. 8-12=-748/241. |
| | , , |
| | 9-12=-346/1819, 9-11=-2460/681, |
| | 4-15=-663/207, 4-17=0/198, 3-17=0/208 |

NOTES

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

Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-5-0 to 3-7-0, Interior (1) 3-7-0 to 14-9-0, Exterior(2R) 14-9-0 to 19-9-0, Interior (1) 19-9-0 to 29-4-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) 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. * This truss has been designed for a live load of 20.0psf 5) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Bearings are assumed to be: Joint 18 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections. 7)

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 235 lb uplift at joint 11.

- 9) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18. This connection is for uplift only and does not consider lateral forces.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

LOAD CASE(S) Standard



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Page: 1

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| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|--------------|-----|-----|--------------------------|-----------|
| P240988-01 | B10 | Roof Special | 1 | 1 | Job Reference (optional) | 168602425 |

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Page: 1 ID:OQRODo8J0QDn?4XEUhOZflzeC_m-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -1-5-0 1-5-0 4-3-11 8-4-9 14-9-0 19-3-12 21-6-12 25-5-2 29-6-0 4-3-11 4-0-13 6-4-7 4-6-12 2-3-0 3-10-6 4-0-14 5x10= 6 3x4 -1.5x4 **I** 5-11-0 3-7-12 3x4 -412 41 0-1-9 2-3-4 7₂₁ 20 6x6= 1.5x4 u 4x8= 5 4 8 10 ⊠ TE g 22 9 \boxtimes \bowtie 4x6 🚅 51 19 ³ 3-6-3 3-6-3 3x4 II 2 1-0-0 ł ę 12 8 18 14 3x4 **I** × 5x8= 17 16 15 1.5x4 🛚 5x5 = 3x4= 5x8=



Scale = 1:58.7

5-11-0

Plate Offsets (X, Y): [11:Edge,0-2-8], [12:0-1-12,0-2-8], [13:0-3-0,0-3-4]

| | X, Y): [11:Edge,0-2-8 | j, [12.0-1-12,0-2-0], [| 13.0-3-0,0 | J-J-4] | | | | | | | | | |
|--|--|---|---|--|--|--|--|---|------------------------------|-------------------------------|--------------------------|----------------------------------|------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 NO IRC201 | 8/TPI2014 | CSI TC BC WB Matrix-S | 0.72 0.91 0.86 | DEFL Vert(LL) Vert(CT) Horz(CT) | in -0.21 -0.39 0.11 | (loc) 7-13 17-18 11 | l/defl >999 >896 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 137 lb | GRIP 244/190 FT = 20% |
| | | t* 14-7:2x3 SPF No.: 5 1.5E spt* 18-2:2x4 SP No.: athing directly applie xcept end verticals, a -11 max.): 8-10. applied or 6-11-8 oc 3-18 anical, 18=0-5-8 .C 12) LC 9), 18=-296 (LC 8 | 2, 2 d or 3) 4) 5) 3) | Vasd=91mpl Ke=1.00; Ca exterior zone Interior (1) 3 19-9-0, Inter and right exp exposed;C-C reactions shh DOL=1.60 Provide ader This truss ha chord live loa * This truss ha chord live loa * This truss ha chord live loa * This truss ha chord and ar | 7-16; Vult=115m h; TCDL=6.0psf; E ti. TI; Exp C; Enclo e and C-C Exterior -7-0 to 14-9-0, Ex ior (1) 19-9-0 to 2 boosed ; end vertica C for members and own; Lumber DOL quate drainage to as been designed ad nonconcurrent has been designed op 2-00-00 wide w hy other members e assumed to be: . | SCDL=6. sed; MW r(2E) -1-5 terior(2R 9-4-12 zc al left and d forces 4 =1.60 pl prevent v for a 10.0 with any d for a liv as where vill fit betv | Dipsf; h=35ft; FRS (envelop i-0 to 3-7-0, 14-9-0 to ne; cantileve I right & MWFRS for ate grip vater ponding 0 psf bottom other live loa e load of 20.0 a rectangle veen the bottom | er left r g. ds. opsf om | | | | | |
| FORCES | (lb) - Maximum Com Tension | pression/Maximum | 7) | capacity of 5 | | | | | | | | | |
| TOP CHORD | 1-2=0/35, 2-3=-331/4 4-6=-1903/509, 6-7= 7-8=-3005/728, 8-9= 9-10=-2084/492, 10- 2-18=-376/221 | 2994/794, 2087/494, | 8) 9) | Provide mec bearing plate joint 11. One H2.5T \$ | chanical connectio capable of withs Simpson Strong-T | n (by oth tanding 2 ie conne | ers) of truss t 40 lb uplift at ctors | t | | | | A1111 | aller |
| BOT CHORD | 17-18=-663/2111, 15 14-15=-34/93, 13-14 12-13=-852/3260, 1 | =0/77, 7-13=-211/14 | , | UPLIFT at jt does not cor | (s) 18. This conne nsider lateral force designed in accor | ction is fo | or uplift only a | | | | 6 | TATE OF M | AISSOL |
| WEBS NOTES 1) Unbalance this design | 6-13=-384/1507, 8-1 8-12=-1366/347, 10- 3-18=-2088/572, 6-1 13-15=-439/1685, 4- 4-17=0/198, 3-17=0/ ed roof live loads have | 3=-634/179, +12=-589/2360, 5=-43/184, +15=-663/207, /208, 9-12=-346/190 | 11 | International R802.10.2 a) Graphical pu | Residential Code nd referenced sta Irlin representation ation of the purlin d. | e sections ndard AN n does no | R502.11.1 a SI/TPI 1. ot depict the s | | | ~ | | SEVI | ER BER 018807 |

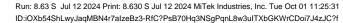
 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value to dury with with where outputs into design is based only door parameters shown, and is for an individual building design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members 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 and truss systems, see **ANS/TPH1 Quality Criteria**, and **DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

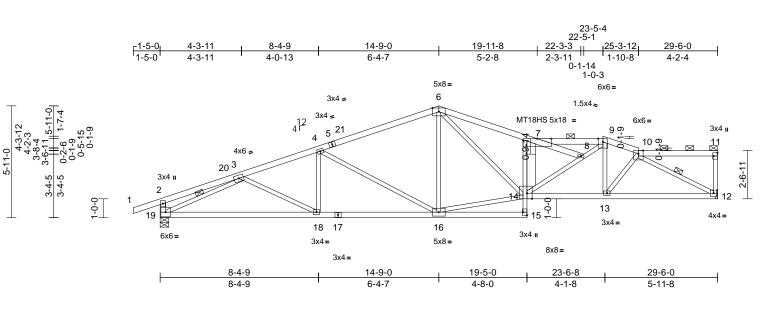


October 2,2024

2-6-3

| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|--------------|-----|-----|--------------------------|-----------|
| P240988-01 | B11 | Roof Special | 1 | 1 | Job Reference (optional) | 168602426 |





Scale = 1:61

Plate Offsets (X, Y): [11:Edge,0-2-8], [14:0-3-4,Edge], [15:Edge,0-2-8]

| | | | - | | | | | | | | | | |
|--------------|-------------------------|--------------------------------------|--------------------|----------------|--|---------------|-----------------|-------|-------|--------|-----|----------------|-----------|
| Loading | (psf) | Spacing | 2-0-0 | | csi | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | | TC | 0.71 | Vert(LL) | -0.19 | 14 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.91 | Vert(CT) | -0.38 | 18-19 | >914 | 180 | MT18HS | 197/144 |
| BCLL | 0.0* | Rep Stress Incr | NO | | WB | 0.86 | Horz(CT) | 0.11 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code | | 8/TPI2014 | Matrix-S | 0.00 | 11012(01) | 0.11 | 12 | n/a | n/a | Weight: 146 lb | FT – 20% |
| | 10.0 | oode | 11(0201 | 0/11/12/014 | Matrix O | | | | | | | Weight. 140 lb | 11 = 2070 |
| LUMBER | | | 2 |) Wind: ASCE | 7-16; Vult=115m | ph (3-seo | cond gust) | | | | | | |
| TOP CHORD | 2x4 SP No.2 *Excep | t* 5-6:2x4 SP 1650F | | Vasd=91mp | h; TCDL=6.0psf; E | BCDL=6. | Opsf; h=35ft; | | | | | | |
| | 1.5E | | | Ke=1.00; Ca | t. II; Exp C; Enclo | sed; MW | FRS (envelo | pe) | | | | | |
| BOT CHORD | 2x4 SP No.2 *Excep | t* 15-7:2x3 SPF No.2 | 2 | exterior zone | and C-C Exterior | r(2E) -1-{ | 5-0 to 3-7-0, | | | | | | |
| WEBS | 2x3 SPF No.2 *Exce | pt* 19-2:2x4 SP No.2 | <u>2,</u> | | -7-0 to 14-9-0, Ex | | | | | | | | |
| | 7-14:2x6 SPF No.2 | | | | ior (1) 20-0-2 to 2 | | | -5-4 | | | | | |
| BRACING | | | | | nterior (1) 25-3-12 | | | | | | | | |
| TOP CHORD | Structural wood she | athing directly applie | d or | | t and right expose | | | | | | | | |
| | 2-9-9 oc purlins, ex | cept end verticals, ar | d | 0 1 | d;C-C for member | | | RS | | | | | |
| | 2-0-0 oc purlins (3-2 | -11 max.): 7-8, 7-9, | | | shown; Lumber D | DOL=1.60 |) plate grip | | | | | | |
| | 10-11. | | 2 | DOL=1.60 | austa drainaga ta | nrovent | votor pondin | ~ | | | | | |
| BOT CHORD | 0 0 , | applied or 6-10-5 oc | 3) 4) | | quate drainage to MT20 plates unle | | | | | | | | |
| | bracing. | | 5 | | e 3x4 MT20 unles | | | | | | | | |
| WEBS | | 10-12, 3-19 | 6 | | s been designed | | | | | | | | |
| | | anical, 19=0-5-8 | 0, | | ad nonconcurrent | | | ads. | | | | | |
| | Max Horiz 19=114 (L | , | . 7 | | has been designe | | | | | | | | |
| | Max Uplift 12=-242 (| | s) ' | | n chord in all area | | | | | | | | |
| | Max Grav 12=1310 | | 1) | 3-06-00 tall I | oy 2-00-00 wide w | rill fit betw | veen the bott | om | | | | | |
| FORCES | (lb) - Maximum Com | pression/Maximum | | chord and a | y other members | | | | | | | | |
| | Tension | | 8) | | assumed to be: | Joint 19 S | SP No.2 crus | hing | | | | | |
| TOP CHORD | 1-2=0/35, 2-3=-331/ | | 100 | capacity of 5 | | | | | | | | | |
| | , | -2996/883, 7-8=-125 | , , | | er(s) for truss to ti | | | | | | | | |
| | 7-9=-2904/800, 9-10 |)=-2259/602, ?=-148/85, 2-19=-376 | /222 | | hanical connectio | | | | | | | 000 | The |
| BOT CHORD | 18-19=-682/2108, 16 | | /222 | | e capable of withs | tanding 2 | 242 lb uplift a | t | | | | OFM | ALC D |
| BOTCHORD | 15-16=-43/215, 14-1 | | | joint 12. | | | | | | | | THE OF I | AISSO |
| | 7-14=-1288/466, 13- | | 1 | | Simpson Strong-T ed to connect trus | | | to | | | 6 | 174 | N CAN |
| | 12-13=-586/1974 | 11-001/2121, | | | (s) 19. This conne | | | | | | R | SCOT | ГМ. \С. \ |
| WEBS | 6-14=-440/1463, 8-1 | 4=-318/1097. | | , | sider lateral force | | or upint only a | anu | | | 8 | SEVI | ER \Y |
| | | 8=-83/82, 10-13=-9/24 | 49, 1 [.] | | designed in accor | | ith the 2018 | | | | 2 * | | \★∅ |
| | 10-12=-2235/630, 3- | -19=-2085/605, | | | Residential Code | | | and | | | W | | ·(1. |
| | 6-16=-12/220, 14-16 | | | | nd referenced sta | | | - | | | X. | No U/ | COMMANT. |
| | 4-16=-664/207, 4-18 | 8=0/200, 3-18=0/207 | 1; | | Irlin representation | | | size | | - | WE | | TEN I |
| NOTES | | | | | ation of the purlin | | | | | | N, | PE-2001 | 018807 |
| 1) Unbalance | ed roof live loads have | been considered for | | bottom chore | j. | - | | | | | V | | 158 |
| this design | ۱. | | L | OAD CASE(S) | Standard | | | | | | | SSIONA | FNUE |

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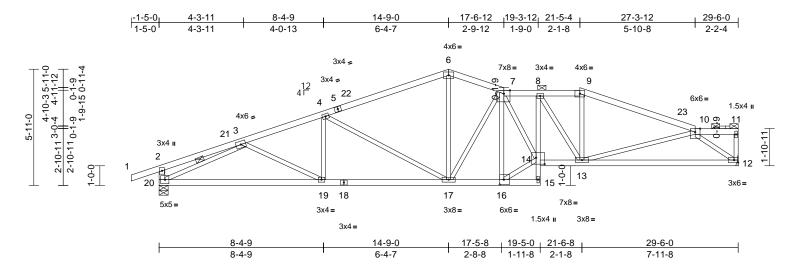
 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value for use only with with twit even connectors. This design is based only upon parameters shown, and is for an individual building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)



Page: 1

| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|--------------|-----|-----|--------------------------|-----------|
| P240988-01 | B12 | Roof Special | 1 | 1 | Job Reference (optional) | 168602427 |

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Scale = 1:58.7

Plate Offsets (X, Y): [7:0-3-12,0-2-0], [14:0-5-4,0-4-0], [16:0-2-8,0-3-0]

| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 NO | 3/TPI2014 | CSI TC BC WB Matrix-S | 1.00 0.91 0.86 | DEFL Vert(LL) Vert(CT) Horz(CT) | in -0.17 -0.38 0.11 | (loc) 19-20 19-20 12 | l/defl >999 >929 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 142 lb | GRIP 244/190 |
|---|---|--|-----------------------------|---|---|---|---|------------------------------|-------------------------------|-------------------------------|--------------------------|---|------------------------|
| BCDL | 10.0 | Code | IRC2010 | 0/TFI2014 | Matrix-3 | | - | | - | | | Weight. 142 lb | FT = 20% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD | 1.5E 2x4 SP No.2 *Excep 2x3 SPF No.2 *Excep Structural wood shea except end verticals, (3-6-8 max.): 7-9, 10 Rigid ceiling directly | t* 15-8:2x3 SPF No.2 pt* 20-2:2x4 SP No.2 athing directly applied and 2-0-0 oc purlins)-11. | 2 2 d, | Vasd=91mph Ke=1.00; Car exterior zone Interior (1) 3- 17-6-12, Inte 21-5-4 to 26- cantilever lef right exposed | 7-16; Vult=115m n; TCDL=6.0psf; I t. II; Exp C; Enclo and C-C Exterio 7-0 to 14-9-0, Ex rior (1) 17-6-12 to 5-4, Interior (1) 2 t and right expose d;C-C for membe shown; Lumber [| 3CDL=6. sed; MW r(2E) -1-{ terior(2E) 21-5-4, 6-5-4 to 2 ed; end v rs and fo | Dpsf; h=35ft; FRS (envelop 5-0 to 3-7-0, 14-9-0 to Exterior(2R) 29-4-12 zone; rertical left an rces & MWFF | d | | | | | |
| WEBS REACTIONS | | LC 9), 20=-295 (LC 8 | | Provide adec This truss ha chord live loa * This truss h on the bottom | uate drainage to s been designed ad nonconcurrent as been designe n chord in all area by 2-00-00 wide w | for a 10. with any d for a liv as where |) psf bottom other live loa e load of 20.0 a rectangle | ds.)psf | | | | | |
| FORCES | (lb) - Maximum Com | pression/Maximum | 0) | chord and an | y other members | i. | | | | | | | |
| TOP CHORD | Tension 1-2=0/35, 2-3=-330/6 4-6=-1900/529, 6-7= 7-8=-2550/714, 8-9= 9-10=-2350/582, 10- 11-12=-37/19, 2-20= | -1852/540, -2148/587, 11=-66/20, | 6) 7) 8) | capacity of 5 Refer to girde Provide mec | assumed to be: 65 psi. er(s) for truss to t hanical connection capable of withs | russ conr n (by oth | ections. ers) of truss t | 0 | | | | | |
| BOT CHORD | | 7-19=-618/2270, 5-16=-17/102, 35/460, | 9) | One H2.5T S recommende UPLIFT at jt(| impson Strong-T d to connect trus s) 20. This conne sider lateral force | s to bear | ng walls due | | | | B | 181 | AISSOL |
| WEBS NOTES 1) Unbalance this design | 7-16=-1229/358, 14- 7-14=-305/1130, 8-1 9-13=-43/444, 10-13 10-12=-1983/591, 3- 6-17=-173/832, 7-17 4-17=-664/205, 4-19 ed roof live loads have | 16=-622/2304, 3=-761/258, =-71/574, 20=-2089/587, =-566/185, =0/203, 3-19=0/210 | 11 LC |) This truss is International R802.10.2 ar) Graphical pu | designed in acco Residential Code nd referenced sta rlin representatio ation of the purlin I. | rdance w sections ndard AN n does no | R502.11.1 a ISI/TPI 1. ot depict the s | | | L | | SCOTT SEVI SEVI PE-20010 PE-20010 | ER |

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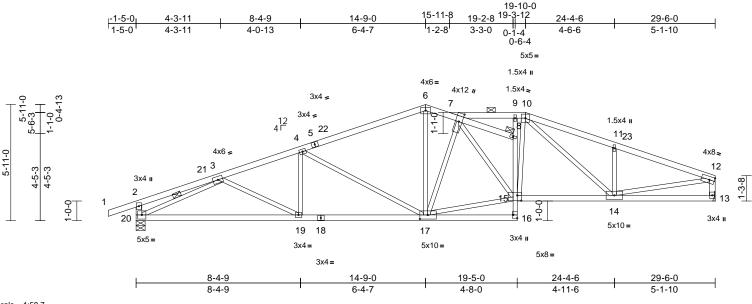
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October 2,2024

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| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|--------------|-----|-----|--------------------------|-----------|
| P240988-01 | B13 | Roof Special | 1 | 1 | Job Reference (optional) | 168602428 |

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Scale = 1:58.7

Plate Offsets (X, Y): [7:0-5-4,0-2-0], [15:0-2-8,0-3-4], [16:Edge,0-2-8], [17:0-4-12,0-2-8]

| | (, .). [| 1 | | | 1 | | | | | | | 1 | |
|-------------|---|------------------------|--------|-----------------|--|--------------|----------------|-------|-------|--------|-----|----------------|----------|
| Loading | (psf) | Spacing | 2-0-0 | | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | | тс | 0.70 | Vert(LL) | -0.17 | 19-20 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.91 | Vert(CT) | -0.37 | 19-20 | >941 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | | WB | 0.85 | Horz(CT) | 0.09 | 13 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC201 | 18/TPI2014 | Matrix-S | | | | | | | Weight: 149 lb | FT = 20% |
| LUMBER | | | 2 |) Wind: ASCE | 7-16; Vult=115r | mph (3-sec | ond aust) | | | | | | |
| TOP CHORD | 2x4 SP No.2 *Excep 1.5E | ot* 5-6:2x4 SP 1650F | | Vasd=91mp | h; TCDL=6.0psf; it. II; Exp C; Enc | ; BCDL=6.0 | Opsf; h=35ft; | pe) | | | | | |
| BOT CHORD | 2x4 SP No.2 *Excep | ot* 16-9:2x3 SPF No. | 2 | exterior zone | e and C-C Exteri | ior(2E) -1-5 | 5-0 to 3-7-0, | | | | | | |
| WEBS | 2x3 SPF No.2 *Exce 2.0E, 13-12:2x4 SP | | 0F | () | -7-0 to 14-9-0, E ior (1) 16-4-3 to | | | | | | | | |
| BRACING | | | | 19-10-0 to 2 | 4-10-0, Interior (| 1) 24-10-0 | to 29-4-4 zo | ne; | | | | | |
| TOP CHORD | Structural wood she | athing directly applie | d or | | ft and right expo | | | | | | | | |
| | | xcept end verticals, | | | d;C-C for memb | | | RS | | | | | |
| | 2-0-0 oc purlins (3-1 | 0-15 max.): 7-8, 7-1 | Э. | | shown; Lumber | r DOL=1.60 |) plate grip | | | | | | |
| BOT CHORD | Rigid ceiling directly | applied or 7-3-9 oc | 2 | DOL=1.60 | quoto droinogo t | o provont v | votor popdio | ~ | | | | | |
| | bracing. | | 3 | | quate drainage t as been designe | | | y. | | | | | |
| WEBS | 1 Row at midpt | 3-20 | 4 | | ad nonconcurrer | | | de | | | | | |
| JOINTS | 1 Brace at Jt(s): 8 | | 5 | | has been design | | | | | | | | |
| REACTIONS | () | nanical, 20=0-5-8 | 0 | | m chord in all are | | | 0001 | | | | | |
| | Max Horiz 20=110 (I | | | | by 2-00-00 wide | | | om | | | | | |
| | Max Uplift 13=-233 (| | | | ny other member | | | | | | | | |
| | Max Grav 13=1311 | (LC 1), 20=1427 (LC | 1) 6 | | assumed to be | | SP No.2 crus | hing | | | | | |
| FORCES | (lb) - Maximum Corr | pression/Maximum | | capacity of 5 | | | | U | | | | | |
| | Tension | | 7 |) Refer to gird | er(s) for truss to | truss conr | nections. | | | | | | |
| TOP CHORD | 1-2=0/35, 2-3=-342/ | , , | 8 |) Provide med | hanical connect | ion (by oth | ers) of truss | to | | | | | |
| | , | -1803/560, 7-8=-2/1 | 5, | bearing plate | e capable of with | nstanding 2 | 33 lb uplift a | t | | | | | |
| | 7-9=-2061/625, 9-10 | , | | joint 13. | | | | | | | | | 11 |
| | 10-11=-2228/683, 1 | | 9 | | Simpson Strong- | | | | | | | O DE M | ALL ALL |
| | 2-20=-381/221, 12-1 | | | | ed to connect tru | | | | | | | RE OF I | AISSO |
| BOT CHORD | | | | | (s) 20. This conr | | or uplift only | and | | | 4 | TATE OF A | NS |
| | 16-17=-20/78, 15-16 | | 450 | | sider lateral for | | | | | | H | SCOTI | M YPN |
| | , | 88/2000, 13-14=-71/ | 150 1 | | designed in acc | | | | | | B | SEVI | |
| WEBS | 4-19=0/199, 11-14= | , | | | Residential Coc | | | ind | | | 8. | | |
| | 3-20=-2073/575, 12 6-17=-150/749, 4-17 | | 000 | | nd referenced st | | | | | | 8 - | ۲ ۱ | 1 ~ 2 |
| | 10-15=-89/386, 10-1 | | 200, 1 | | Irlin representati | | | size | | | R | 10 | 2 ~ 1 |
| | 7-17=-800/236, 7-15 | | | | ation of the purli | n along the | lop and/or | | | | 27 | KCOMM | ener g |
| | 15-17=-483/1942 | -02/210, | | bottom chore | | | | | | | NA | O PE-20010 | 18807 |
| NOTES | 10 17 = 400/1042 | | L | OAD CASE(S) | Standard | | | | | | N | 11-2001 | 128 |
| NOTES | ed roof live loads have | haan appaidared for | | | | | | | | | Y | 1000 | NO B |
| , | | Deen considered for | | | | | | | | | | C'SSIONA | TENA |
| this desigr | | | | | | | | | | | | CONA | - |

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TION IEW DEVELOPMENT SERVICES LEE'S'SUMMIT'SMISSOURI 10/28/2024 10:57:48

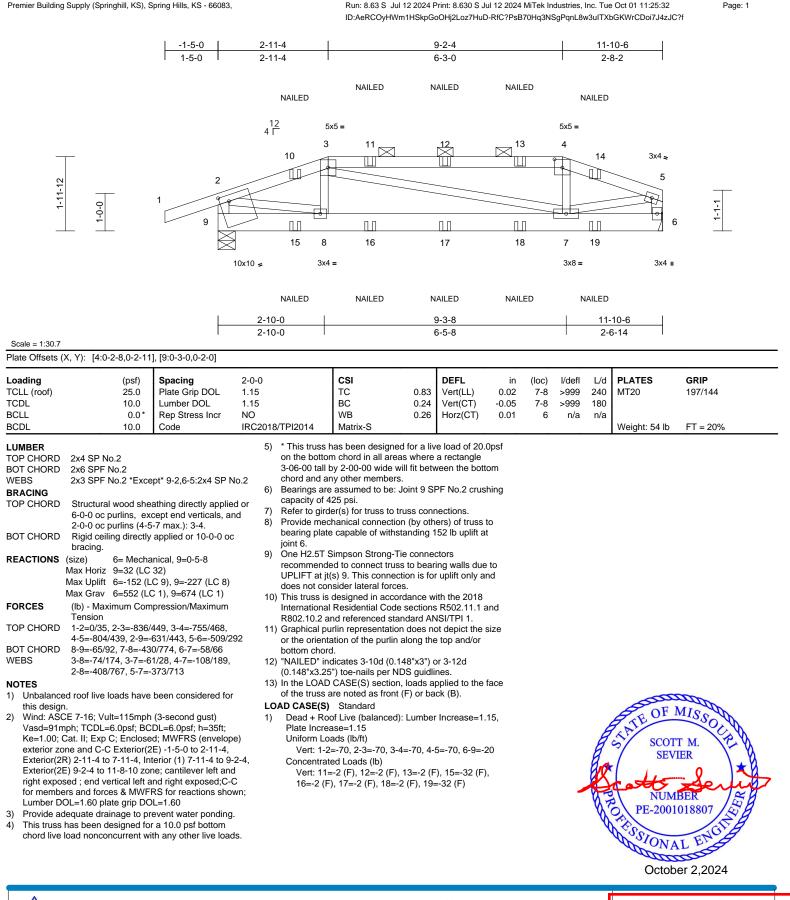
October 2,2024

Page: 1

| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P240988-01 | C01 | Hip Girder | 1 | 1 | Job Reference (optional) | 168602429 |

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:32

Page: 1



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| ſ | Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|---|------------|-------|---------------------|-----|-----|--------------------------|-----------|
| | P240988-01 | C02 | Roof Special Girder | 1 | 2 | Job Reference (optional) | 168602430 |

TCDL

BCLL

BCDL

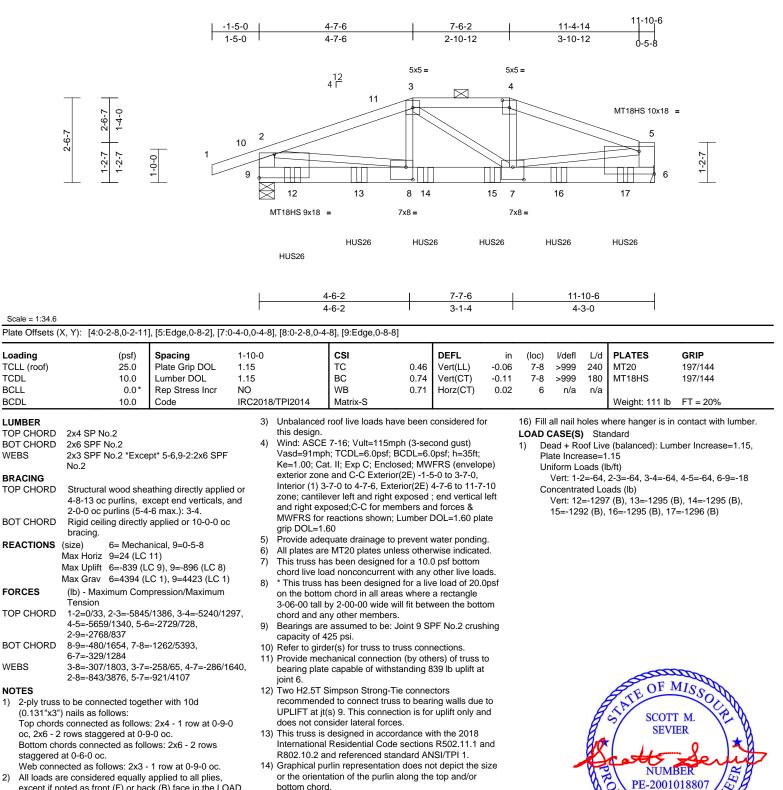
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WEBS

NOTES

Run: 8.63 S. Jul 12 2024 Print: 8.630 S. Jul 12 2024 MiTek Industries. Inc. Tue Oct 01 11:25:32 ID:RoDROLE8cpiSAiewuld1vzz7Hrh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 15) Use Simpson Strong-Tie HUS26 (14-16d Girder, 4-16d Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-0-0 from the left end to 11-0-0 to connect truss(es) to back face of bottom chord.

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CTION LEE'S'SUMMIT'SMISSOURI 10/28/2024 10:57:48

E

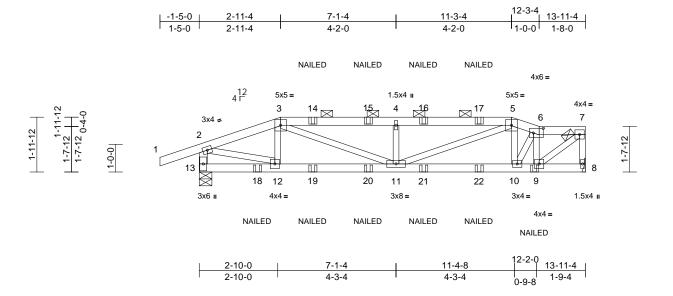
October 2,2024

SSIONAL

| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|---------------------|-----|-----|--------------------------|-----------|
| P240988-01 | C03 | Roof Special Girder | 1 | 1 | Job Reference (optional) | 168602431 |

Run: 8,63 S Jul 12 2024 Print: 8,630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:32 ID:JltgWHgfhNn71UYudwH0V2z7HsQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:41.6

Plate Offsets (X, Y): [6:0-4-4,0-2-0]

| | (X, 1): [0:0 4 4,0 2 0] | | | | | | | | | | | | |
|--|--|---|--|--|--|---|--|--|---------------------------|-------------------------------|--------------------------|--|------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 NO IRC2018 | 3/TPI2014 | CSI TC BC WB Matrix-S | 0.29 0.32 0.32 | DEFL Vert(LL) Vert(CT) Horz(CT) | in 0.05 -0.08 0.01 | (loc) 11 11-12 8 | l/defl >999 >999 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 62 lb | GRIP 197/144 FT = 20% |
| this design 2) Wind: AS(Vasd=91n Ke=1.00; exterior zc Exterior(2 11-3-4, E) to 13-10-0 vertical lef forces & M | 2x4 SP No.2 2x3 SPF No.2 *Exce Structural wood she 5-8-14 oc purlins, e 2-0-0 oc purlins (4-8 Rigid ceiling directly bracing. (size) 8= Mecha Max Horiz 13=67 (LC Max Uplift 8=-219 (L Max Grav 8=702 (LC (lb) - Maximum Com Tension 1-2=0/35, 2-3=-998/ 4-5=-1416/753, 5-6= 7-8=-662/363, 2-13= 12-13=-144/119, 11 10-11=-490/896, 9-1 3-12=-106/128, 5-10 6-10=-169/351, 6-9= 2-12=-452/904, 5-11 4-11=-321/249, 3-11 | applied or 8-3-15 oc anical, 13=0-5-8 C 9) C 9), 13=-289 (LC 8) C 1), 13=820 (LC 1) ppression/Maximum 516, 3-4=-1416/753, -926/461, 6-7=-746/3 -774/507 -12=-503/918, 10=-387/701, 8-9=-31)=-161/141, -585/300, 7-9=-489/9 [=-275/566] been considered for a (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelope 2E) -1-5-0 to 2-11-4, terior (1) 7-11-4 to 2-3-4, Interior (1) 12-31 and right exposed; en | 3) 4) 2 5) d or ind 6) 7) 8) 9) 383, 10 3383, 11 332, 12 13 13 LC 1) e) -4 | Provide ader This truss ha chord live loi * This truss I on the botton 3-06-00 tall I chord and an Bearings are capacity of 5 Refer to gird Provide mec bearing plate joint 8. One H2.5T 5 recommende UPLIFT at jt does not cor) This truss is International R802.10.2 a) Graphical pL or the orient bottom chorr) "NAILED" in (0.148"x3.25) In the LOAD of the truss a DAD CASE(S) Dead + Rop Plate Incre: Uniform Lo Vert: 1-2 8-13=-20 Concentrat Vert: 9=- | ler(s) for truss to tru- hanical connection e capable of withste Simpson Strong-Tile d to connect truss (s) 13. This connect hisider lateral forces designed in accorr Residential Code nd referenced star urlin representation ation of the purlin a d. dicates 3-10d (0.14 5") toe-nails per NE 0 CASE(S) section, are noted as front (Standard of Live (balanced): ase=1.15 ads (lb/tt) ==-70, 2-3=-70, 3-5 | ior a 10. with any I for a livs s where II fit betv oint 13 s uss conne to bear to bear to bear to bear to bear to bear dance w sections adang the 48"x3") o DS guidli loads a (F) or ba Lumbel =-70, 5- | 0 psf bottom other live loa ve load of 20.1 a rectangle veen the bott SP No.2 crusi hections. ers) of truss i 219 lb uplift at ctors ing walls due or uplift only at s R502.11.1 at sSI/TPI 1. ot depict the s e top and/or or 3-12d nes. pplied to the ck (B). | ads. Opsf om hing to t and size face 15, 70, | | - | B | STATE OF J STATE OF J SCOT SEV DE 2001 | |
| | | | | | | | | | | | | | 0.0004 |

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 colleges with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

ΤΙΟΝ 'IEW DEVELOPMENT SERVICES

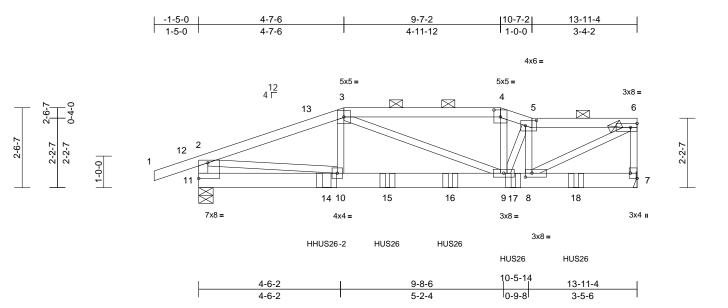
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| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|---------------------|-----|-----|--------------------------|-----------|
| P240988-01 | C04 | Roof Special Girder | 1 | 2 | Job Reference (optional) | 168602432 |

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:32 ID:hcNYYgARUTPXvY1juzV5XCz7HqU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-

Page: 1



Scale = 1:36.6

unless otherwise indicated.

| Scale = 1.30.0 | | | | | | | | | | | | | |
|--|--|---|--|--|--|---|---|-------------------------------|---|---|---|--|--|
| Plate Offsets | (X, Y): [4:0-2-8,0-2-11 |], [5:0-4-4,0-2-0], [7:1 | Edge,0-2- | 8], [8:0-2-8,0-1 | -8], [11:Edge,0-6-0 | 0] | | | | | | | |
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 1-10-0 1.15 1.15 NO IRC201 | 8/TPI2014 | CSI TC BC WB Matrix-S | 0.32 0.56 0.59 | DEFL Vert(LL) Vert(CT) Horz(CT) | in -0.07 -0.12 0.01 | (loc) 9-10 9-10 7 | l/defl >999 >999 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 133 lb | GRIP 197/144 FT = 20% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS | 2x4 SP No.2 2x6 SPF No.2 2x3 SPF No.2 *Exce Structural wood she 6-0-0 oc purlins, ex 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. (size) 7= Mecha | ept* 11-2:2x4 SP No.: athing directly applie cept end verticals, ar 0-0 max.): 3-4, 5-6. applied or 10-0-0 oc anical, 11=0-5-8 | 3) 4) 2 d or nd | Unbalanced this design. Wind: ASCE Vasd=91mpl Ke=1.00; Ca exterior zone Interior (1) 3 Interior (1) 1 right exposes for members Lumber DOL Provide adee | roof live loads hav 7-16; Vult=115mp n; TCDL=6.0psf; E t. II; Exp C; Enclose and C-C Exterior -7-0 to 4-7-6, Exter 0-7-2 to 13-10-0 z d; end vertical left and forces & MW =1.60 plate grip D quate drainage to | oh (3-sed 3CDL=6. sed; MW (2E) -1-{ one; can t and righ /FRS for DOL=1.60 prevent | cond gust) Opsf; h=35ft; /FRS (envelop 5-0 to 3-7-0, 4-7-6 to 10-7- tilever left and nt exposed;C- reactions sho 0 water ponding | be) -2, d ⊷C own; | Tru: 6-0- fron 16) Fill LOAD (1) De Pla Ur | ss) or ec -0 from t all nail h CASE(S) ead + Ro ate Incre hiform Lo | uivale he left bottor oles w of Live ease=1 bads (II 2=-64, 8 | ng-Tie HUS26 (ent spaced at 2-Ci end to 12-0-0 to m chord. /here hanger is i ndard e (balanced): Lu I.15 b/ft) 2-3=-64, 3-4=-6 | 14-16d Girder, 4-16d 0-0 oc max. starting at o connect truss(es) to n contact with lumber. mber Increase=1.15, 4, 4-5=-64, 5-6=-64, |
| FORCES | Max Horiz 11=83 (L0 Max Uplift 7=-481 (L Max Grav 7=2056 (I (lb) - Maximum Com | .C 9), 11=-470 (LC 8) LC 1), 11=1819 (LC 1 | 6) | This truss ha chord live loa * This truss h on the bottor | as been designed ad nonconcurrent nas been designed n chord in all area | for a 10. with any d for a liv is where | 0 psf bottom other live load ve load of 20.0 a rectangle | ds.)psf | | | =-604 | (F), 15=-483 (F) | i, 16=-526 (F), 17=-534 |
| TOP CHORD | 4-5=-3435/1039, 5-6 6-7=-1782/600, 2-1 10-11=-358/488, 9-1 | l=-1738/687 l0=-1059/3106, | 11, 8) 9) | chord and ar Bearings are crushing cap | by 2-00-00 wide w by other members assumed to be: J pacity of 425 psi. er(s) for truss to tr | Joint 11 § | SPF No.2 | om | | | | | |
| WEBS | 8-9=-946/2990, 7-8= 3-10=-145/750, 3-9= 5-9=-211/728, 5-8=- 6-8=-1059/3442, 2- ⁻ | =-39/229, 4-9=-167/7 1693/568, | 86, | bearing plate joint 7. | hanical connection e capable of withst Simpson Strong-Ti | tanding 4 | 181 Ib uplift at | | | | | THE REAL PROPERTY AND INCOMENT | and |
| (0.131"x3' Top chord oc, 2x3 - Bottom ch staggered Web conn All loads a except if r CASE(S) provided t | s to be connected toge ") nails as follows: Is connected as follows frow at 0-9-0 oc. hords connected as foll at 0-9-0 oc. hected as follows: 2x3 - are considered equally hoted as front (F) or ba section. Ply to ply com to distribute only loads | s: 2x4 - 1 row at 0-9-0 ows: 2x6 - 2 rows - 1 row at 0-9-0 oc. applied to all plies, ck (B) face in the LO nections have been | 1: | UPLIFT at jtt does not cor 2) This truss is International R802.10.2 a 3) Graphical pu or the orienta bottom chore 4) Use Simpson 4-10d Truss) | ed to connect trust (s) 11. This conne- usider lateral force designed in accor Residential Code nd referenced star rlin representation ation of the purlin d. n Strong-Tie HHU or equivalent at 4 s(es) to front face | ction is for s. dance w sections ndard AN n does no along the S26-2 (1 4-0-13 fro | or uplift only a rith the 2018 s R502.11.1 a VSI/TPI 1. ot depict the s e top and/or 4-10d Girder, om the left end | and nd size | | | * | SCOT SEV SEV PE-200 | TER * |

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 colleges with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com) RELEASE FOR CONSTRUCTION

DEVELORMENTSSERVICES LEE'S'SUMMITSMISSOURI 10/28/2024 10:57:48

October 2,2024

ONALE

| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P240988-01 | CJ1 | Jack-Open | 3 | 1 | Job Reference (optional) | 168602433 |

<u>-2-0-1</u> 2-0-1

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

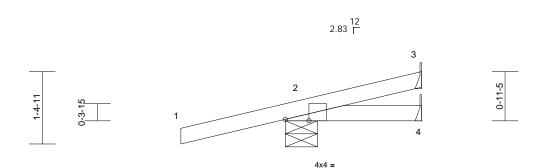
Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:32 ID:arBBSFclbmGJfU5Z_G5kznzeD92-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

2-7-6

2-7-6

2-7-6

Page: 1



Scale = 1:22.1

Plate Offsets (X, Y): [2:0-5-7,Edge]

| | A, f). [2.0-5-7,Euge] | | | | | | | | | | | | |
|--|--|--|--|--|---|--|--|----------------------------|--------------------------|-------------------------------|--------------------------|---|------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 NO IRC2018/TPI | 2014 C: TC BC W | | 0.62 0.06 0.00 | DEFL Vert(LL) Vert(CT) Horz(CT) | in 0.00 0.00 0.00 | (loc) 2-4 2-4 3 | l/defl >999 >999 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 11 lb | GRIP 244/190 FT = 20% |
| LUMBER TOP CHORD BOT CHORD BRACING TOP CHORD BOT CHORD REACTIONS | 2x4 SP No.2 2x4 SP No.2 Structural wood she 2-7-6 oc purlins. Rigid ceiling directly bracing. | athing directly applie applied or 10-0-0 or 3= Mechanical, 4= al 8) C 8), 3=-8 (LC 13) | 6) Pro bea 3. 7) On ed or rec doo c 8) Thi Inte R8 LOAD | vide mechan aring plate cap e H2.5T Simp ommended to LIFT at jt(s) 2 se not conside s truss is des ernational Res | ical connection (pable of withstar oson Strong-Tie o o connect truss to . This connection er lateral forces. igned in accorda sidential Code se eferenced stando | nding 8 connec o beari n is for ance wi ections | Ib uplift at joi ctors ng walls due uplift only an th the 2018 R502.11.1 au | nt to d | | | | | |
| Vasd=91m Ke=1.00; (exterior zo and right e exposed;C reactions s DOL=1.60 2) This truss chord live 3) * This truss on the bott 3-06-00 ta chord and 4) Bearings a capacity of | (lb) - Maximum Com Tension 1-2=0/30, 2-3=-44/1 2-4=0/0 CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Corner (3 exposed ; end vertical I 2-C for members and for shown; Lumber DOL= has been designed for load nonconcurrent wi s has been designed for tom chord in all areas ill by 2-00-00 wide will any other members. are assumed to be: , Jo | 7 (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop)) zone; cantilever lef left and right orces & MWFRS for 1.60 plate grip r a 10.0 psf bottom th any other live loa or a live load of 20.0 where a rectangle fit between the botto pint 2 SP No.2 crush | ft ds. Jpsf om | | | | | | | 2 | | STATE OF M SCATT SCOT SEVI NUM PE-2001 | BER 018807 |

October 2,2024

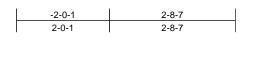
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 oulgase with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)



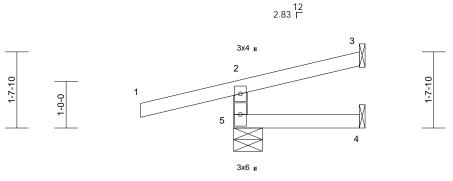
| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P240988-01 | CJ02 | Jack-Open | 2 | 1 | Job Reference (optional) | 168602434 |

Run: 8,63 S Jul 12 2024 Print: 8,630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:33 ID:B20vsS3NPLsGVEHwG3RjVOzeDLN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

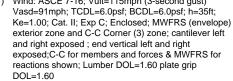


2-8-7



Scale = 1:24.8

| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 NO IRC201 | 8/TPI2014 | CSI TC BC WB Matrix-R | 0.54 0.10 0.00 | DEFL Vert(LL) Vert(CT) Horz(CT) | in 0.00 0.00 0.01 | (loc) 4-5 4-5 3 | l/defl >999 >999 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 12 lb | GRIP 244/190 FT = 20% |
|--|---|---|---------------------------------------|---|---|--|---|----------------------------|--------------------------|-------------------------------|--------------------------|---------------------------------|------------------------------------|
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS | 2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 Structural wood she 2-8-7 oc purlins, ex Rigid ceiling directly bracing. (size) 3= Mecha 5=0-7-6 Max Horiz 5=44 (LC Max Grav 3=40 (LC (LC 1) | cept end verticals. applied or 10-0-0 oc anical, 4= Mechanica 9) 2 12), 5=-152 (LC 8) | , 8) I, L(| bearing plate 3. One H2.5T S recommende UPLIFT at jt(does not con This truss is International | hanical connecti a capable of with Simpson Strong- ed to connect tru (s) 5. This conne isider lateral force designed in acco Residential Cod nd referenced st Standard | standing 2 Tie connect ss to bearing totion is for the sections and ance with the sections | 7 lb uplift at j ctors ng walls due uplift only ar th the 2018 R502.11.1 a | oint to nd | | | | | |
| | (lb) - Maximum Com Tension 2-5=-285/420, 1-2=0 4-5=0/0 CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC |)/35, 2-3=-31/14 (3-second gust) | | | | | | | | | | | |



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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 5 SP No.2 crushing 4) capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.



 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 besign value to dury with with where outputs into design is based only door parameters shown, and is for an individual building design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members 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 and truss systems, see **ANS/TPH1 Quality Criteria**, and **DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

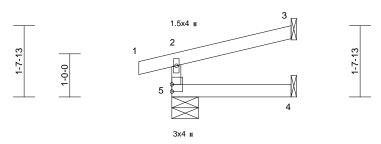


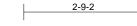
| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P240988-01 | CJ03 | Jack-Open | 2 | 1 | Job Reference (optional) | 168602435 |

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:33 ID:CFLd4WwsxGnoTg8BEEJWeHzeDQj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-9-3 2-9-2 0-9-3 2-9-2







Scale = 1:26.7

| Loading | (psf) | Spacing | 2-0-0 | | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--|---|--|-------------|--|---|--|--|---------------------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | | TC | 0.17 | Vert(LL) | 0.00 | 4-5 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.09 | Vert(CT) | 0.00 | 4-5 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | | WB | 0.00 | Horz(CT) | -0.01 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC201 | 8/TPI2014 | Matrix-R | | | | | | | Weight: 10 lb | FT = 20% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS | 2x4 SP No.2 2x3 SPF No.2 Structural wood she 2-9-2 oc purlins, ex Rigid ceiling directly bracing. | | c 8) al. | bearing plate 3. One H2.5T S recommende UPLIFT at jt does not cor This truss is International | hanical connect e capable of with Simpson Strong ed to connect tr (s) 5. This conn sider lateral for designed in acc Residential Co nd referenced s Standard | -Tie connectures to bearing 4 ection is for ces. cordance with de sections | 2 lb uplift at ctors ng walls due uplift only a th the 2018 R502.11.1 a | joint e to nd | | | | | |
| | Max Horiz 5=38 (LC) Max Uplift 3=-42 (LC) Max Grav 3=79 (LC) (LC 1) (LC) | C 12), 5=-61 (LC 8) | 188 | | | | | | | | | | |
| FORCES | (lb) - Maximum Con Tension | npression/Maximum | | | | | | | | | | | |
| TOP CHORD BOT CHORD | 2-5=-163/216, 1-2= | 0/14, 2-3=-32/15 | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | | |
| Vasd=91n Ke=1.00; (exterior zc and right e exposed;(reactions s DOL=1.60 | CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Corner (3 exposed ; end vertical C-C for members and t shown; Lumber DOL=) has been designed for | DL=6.0psf; h=35ft; ad; MWFRS (envelop) zone; cantilever le left and right 'orces & MWFRS for 1.60 plate grip | ft | | | | | | | | A | STATE OF J | N S S |

2 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

Bearings are assumed to be: , Joint 5 SP No.2 crushing 4) capacity of 565 psi.

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

PE-2001018807 SIONAL E October 2,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 oulgase with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

CTION **IEW** DEVELOPMENT SERVICES LEE'S'SUMMIT'S MISSOURI 10/28/2024 10:57:48

SEVIER

Page: 1

| Job | Truss | Truss Type | Qty Ply | | Roof - HT Lot 180 | | |
|------------|-------|------------|---------|---|--------------------------|-----------|--|
| P240988-01 | CJ04 | Jack-Open | 3 | 1 | Job Reference (optional) | 168602436 | |

-2-0-1

2-0-1

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

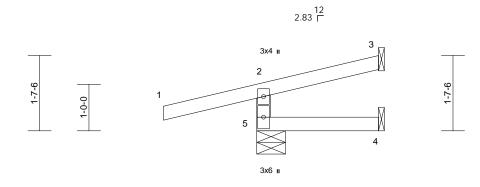
Run: 8,63 S Jul 12 2024 Print: 8,630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:33 ID:wvI4XGEnRkvU_zOfJK2?MkzeDAq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

2-7-6

2-7-6

2-7-6





Scale = 1:24.7

| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 NO IRC201 | 8/TPI2014 | CSI TC BC WB Matrix-R | 0.54 0.10 0.00 | DEFL Vert(LL) Vert(CT) Horz(CT) | in 0.00 0.00 0.01 | (loc) 4-5 4-5 3 | l/defl >999 >999 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 12 lb | GRIP 244/190 FT = 20% |
|---|--|---|---------------------------------------|---|---|---|---|----------------------------|--------------------------|-------------------------------|--------------------------|---------------------------------|------------------------------------|
| | 2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 Structural wood she 2-7-6 oc purlins, ex Rigid ceiling directly bracing. (size) 3= Mecha 5=0-7-6 Max Horiz 5=44 (LC Max Uplift 3=-25 (LC Max Grav 3=35 (LC (LC 1) | cept end verticals. applied or 10-0-0 or anical, 4= Mechanica 9) 2 12), 5=-153 (LC 8) | c 8) ^{al,} L(| bearing plate 3. One H2.5T S recommende UPLIFT at jtt does not cor This truss is International | chanical connect e capable of wit Simpson Strong ed to connect tr (s) 5. This conn ssider lateral for designed in ac Residential Co nd referenced s Standard | thstanding 2 g-Tie connectruss to bear nection is for rces. cordance with ode sections | 5 lb uplift at j ctors ng walls due uplift only ar th the 2018 R502.11.1 a | ioint to nd | | | | | |
| FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 2-5=-284/419, 1-2=0/35, 2-3=-31/14 BOT CHORD 4-5=0/0 NOTES 1) 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) | | | | | | | | | | | | | |

exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

This truss has been designed for a 10.0 psf bottom 2) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Bearings are assumed to be: , Joint 5 SP No.2 crushing 4) capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.



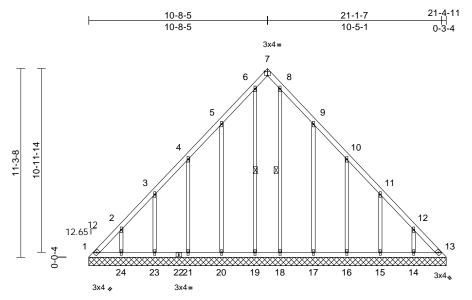
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value to dury with with where outputs into design is based only door parameters shown, and is for an individual building design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members 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 and truss systems, see **ANS/TPH1 Quality Criteria**, and **DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)



| Job | Truss | Truss Type | Qty Ply | | Roof - HT Lot 180 | |
|------------|-------|--------------|---------|---|--------------------------|-----------|
| P240988-01 | HG1 | Lay-In Gable | 1 | 1 | Job Reference (optional) | 168602437 |

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:33 ID:4aaBILsmFzqQEJMVaBas7szeC6t-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

+



21-4-11

H

Scale = 1:68.9

Plate Offsets (X, Y): [7:Edge,0-3-0]

| Plate Olisets (| (A, T). [7.Euge,0-3-0] | | - | | | | | | | | | | |
|--|---|---|---|---|--|--|---|---|--|--|--|--|---|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Plate Grip DOL Lumber DOL Rep Stress Incr | 2-0-0 1.15 1.15 NO IRC2018 | 5/TPI2014 | CSI TC BC WB Matrix-S | 0.14 0.07 0.32 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in n/a n/a 0.01 | (loc) - - 13 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 123 lb | GRIP 244/190 FT = 20% |
| | 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins. Rigid ceiling directly bracing. 1 Row at midpt (size) 1=21-4-11 14=21-4-1 16=21-4-1 23=21-4-1 23=21-4-1 23=21-4-1 Max Horiz 1=310 (LC Max Uplift 1=-146 (L 14=-137 (l 24=-137 (L 24=-213 (L) (L) (L 24=-213 (L) | C 10), 13=-109 (LC 11) LC 13), 15=-137 (LC 1) LC 13), 17=-162 (LC 1) C 9), 20=-159 (LC 12), LC 12), 23=-137 (LC 1), LC 12), 13=319 (LC 13), LC 20), 15=207 (LC 20) C 20), 17=219 (LC 20) LC 21), 19=160 (LC 19) LC 19), 21=207 (LC 19) LC 19), 24=207 (LC 19) | or WE NO 1) 2)), 3), 3), (2), (2), (2), (3) (1), (1), (1), (1), (1), (1), (1), (1) | TES Unbalanced this design. Wind: ASCE Vasd=91mp Ke=1.00; Ca exterior zond Interior (1) 5 15-5-9, Inter and right exp exposed;C-(reactions sh DOL=1.60 Truss design only. For st see Standar or consult qu All plates and | 1-24=-240/342, 23- 21-23=-240/342, 20 19-20=-240/342, 16 17-18=-240/342, 16 15-16=-240/342, 16 15-16=-240/342 2-24=-178/154, 3-2 4-21=-180/157, 5-2 6-19=-125/38, 8-18 10-16=-180/157, 11 12-14=-178/154 roof live loads have to five loads have | D-21=-2 3-19=-2 3-17=-2 1-15=-2 3=-185, 0=-207, =-103/(1-15=-1 a been of (3-sec CDL=6, ed; MW 2E) 0-4 rior(2R 1-1 zor) left and forces a 1.60 pl on the pl d (norm on the pl d (norm) on the pl d (| 40/342, 40/44, 40/4 | 87, eft ss , Je, 11. | beau joint 137 uplif joint and 11) This Inter | ring plat 1, 109 Ib uplift t at join 17, 134 137 Ib truss is rnationa 2.10.2 a | te capa lb uplif at join t 20, 1 ⁻ 4 lb upl uplift at s desig al Resid and ref) Sta | able of withstandii t at joint 13, 137 l t 23, 133 lb uplift t 23, 133 lb uplift T lb uplift at joint 1 fift at joint 16, 137 t joint 14. ned in accordanc dential Code sect erenced standard | b uplift at joint 24, at joint 21, 159 lb 9, 162 lb uplift at lb uplift at joint 15 e with the 2018 ons R502.11.1 and ANSI/TPI 1. |
| FORCES TOP CHORD | Tension 1-2=-491/328, 2-3=- 4-5=-144/115, 5-6=- | ompression/Maximum =-365/228, 3-4=-230/164, =-130/150, 6-7=-101/96, -130/118, 9-10=-106/64, 11-12=-332/228, | | Gable requires continuous bottom chord bearing. Gable studs spaced at 0-0-0 oc. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. All bearings are assumed to be SP No.2 crushing capacity of 565 psi. | | | | | | | and the second sec | PE-20010 | LENGI |

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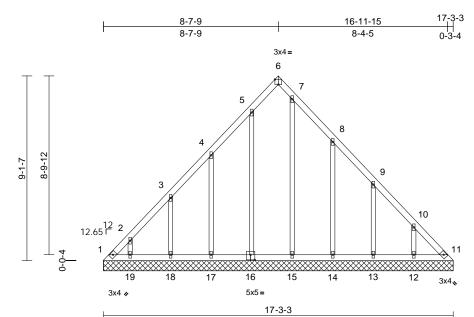


Page: 1

| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|--------------|-----|-----|--------------------------|-----------|
| P240988-01 | HG2 | Lay-In Gable | 1 | 1 | Job Reference (optional) | 168602438 |

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:33 ID:gPh1qn6EiV4GvAb_S_4fH9zeBhR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



| Scolo | = 1:56.9 | |
|-------|----------|--|
| | | |

Plate Offsets (X, Y): [6:Edge.0-3-0]. [16:0-2-8.0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|-----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | тс | 0.10 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.06 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.20 | Horiz(TL) | 0.01 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 90 lb | FT = 20% |
| LUMBER | | | NOTES | | | | | | | | | |

| LUMBER | | | | | | | |
|-------------|--------------------------|--|--|--|--|--|--|
| TOP CHORD | 2x4 SP N | 0.2 | | | | | |
| BOT CHORD | 2x4 SP N | 0.2 | | | | | |
| OTHERS | 2x3 SPF No.2 | | | | | | |
| BRACING | | | | | | | |
| TOP CHORD | Structural 6-0-0 oc p | wood sheathing directly applied or | | | | | |
| BOT CHORD | | ing directly applied or 10-0-0 oc | | | | | |
| REACTIONS | (size) | 1=17-3-3, 11=17-3-3, 12=17-3-3, 13=17-3-3, 14=17-3-3, 15=17-3-3, 16=17-3-3, 17=17-3-3, 18=17-3-3, 19=17-3-3 | | | | | |
| | Max Horiz | 1=248 (LC 9) | | | | | |
| | Max Uplift | 12=-138 (LC 13), 13=-132 (LC 13), | | | | | |
| | | 14=-164 (LC 13), 16=-74 (LC 12), 17=-150 (LC 12), 18=-137 (LC 12), 19=-117 (LC 12) | | | | | |
| | Max Grav | | | | | | |
| FORCES | | imum Compression/Maximum | | | | | |
| TOP CHORD | Tension | 005 0 0 001/010 0 1 107/115 | | | | | |
| TOP CHORD | | /305, 2-3=-321/219, 3-4=-187/115, /67, 5-6=-89/75, 6-7=-70/54, | | | | | |
| | | 6, 8-9=-139/80, 9-10=-264/182, | | | | | |
| | 10-11=-39 | | | | | | |
| BOT CHORD | | 3/296, 18-19=-213/296, | | | | | |
| 201 0110112 | | 13/296, 15-17=-213/296, | | | | | |
| | 14-15=-21 | 12/296, 13-14=-212/296, | | | | | |
| | | 12/296, 11-12=-212/296 | | | | | |
| WEBS | | 8/134, 3-18=-190/162, | | | | | |
| | | 7/177, 5-16=-149/93, 7-15=-101/6, | | | | | |
| | 8-14=-213 10-12=-18 | 3/187, 9-13=-185/157, 34/155 | | | | | |
| | | | | | | | |

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-1 to 5-4-1, Interior (1) 5-4-1 to 8-7-13, Exterior(2R) 8-7-13 to 13-7-13, Interior (1) 13-7-13 to 16-11-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 1.5x4 MT20 unless otherwise indicated. 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 0-0-0 oc.
- This truss has been designed for a 10.0 psf bottom 7) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 8) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing 9) capacity of 565 psi.

10) N/A

11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard



DEVELORMENT SERVICES LEE'S'SUMMIT'SMISSOURI 10/28/2024 10:57:48

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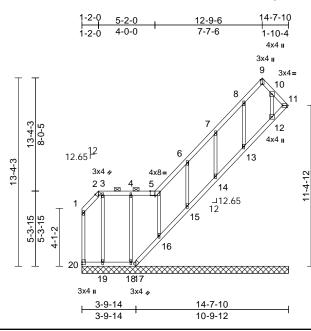
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| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|--------------|-----|-----|--------------------------|-----------|
| P240988-01 | HG3 | Lay-In Gable | 1 | 1 | Job Reference (optional) | 168602439 |

Run: 8.63 E Apr 26 2024 Print: 8.630 E Apr 26 2024 MiTek Industries, Inc. Wed Oct 02 08:55:47 ID:YZosHd0vTL2lu14QAkEIWBzeC1W-6K7?opN_7FVoQk547S3T_ddW01MEYnfOccAW_tyXVUR Page: 1

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Scale = 1:81.7

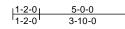
Plate Offsets (X, Y): [2:0-1-7,Edge], [5:0-4-0,Edge], [9:Edge,0-1-8], [11:Edge,0-1-8]

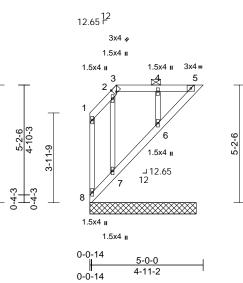
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 NO IRC20 | 8/TPI2014 | CSI TC BC WB Matrix-S | 0.50 0.14 0.16 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in n/a n/a -0.02 | (loc) - - 11 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 82 lb | GRIP 197/144 FT = 20% |
|---|--|--|---|--|---|---|---|--|-----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|
| LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD | 6-0-0 oc purlins, e 2-0-0 oc purlins (6- | y applied or 6-0-0 oc | | Vasd=91mpl Ke=1.00; Ca exterior zone Interior (1) 5- zone; cantile and right exp MWFRS for grip DOL=1.1) Truss design only. For stu see Standard | ned for wind load ids exposed to wi d Industry Gable I | BCDL=6. psed; MW r(2E) 0-1 terior(2E exposed mbers ar Lumber I s in the p ind (norm End Deta | Dpsf; h=35ft; FRS (envelo -4 to 5-2-0,) 12-9-6 to 14 ; end vertical d forces & DOL=1.60 pla lane of the tru al to the face ils as applica | I-5-3 left ate uss :), ble, | | | | | |
| (lb) - | Max Horiz 20=321 Max Uplift All uplift 18, 19, 2 12=-348 15=-136 17=-223 Max Grav All reacti (s) 13, 1- | (LC 9) 100 (lb) or less at join 0 except 11=-848 (LC (LC 10), 14=-202 (LC (LC 12), 16=-143 (LC (LC 10) ons 250 (lb) or less at 4, 15, 16, 18, 19, 20 e (LC 10), 12=671 (LC | (12), 6 (12), 7 (12), 7 (12), 8 (12), 8 (12), 8 (12), 8 (12), 12), 12) | Provide adec All plates are Gable requiri Truss to be f braced agair Gable studs This truss ha chord live loa * This truss f | alified building de quate drainage to a 1.5x4 MT20 unle es continuous bo ully sheathed fror ist lateral movem spaced at 0-0-0 o is been designed ad nonconcurrent nas been designe | prevent vess other ttom choir m one face ent (i.e. coc. for a 10.1 with any d for a liv | water pondin wise indicate d bearing. e or securely iagonal web) 0 psf bottom other live loa e load of 20. | g. d. | | | | | |
| FORCES | (lb) or less except v | | | 3-06-00 tall b | n chord in all area by 2-00-00 wide w by other members | vill fit betw | | om | | | | 55555 | ADDE |
| TOP CHORD | 6-7=-312/338, 7-8= 10-11=-640/713 | -469/513, 8-9=-389/4 | 17, 1 | 1) Provide mec | hanical connection connection connection contact the contact of with the contact of the contact | on (by oth | | | | | | TATE OF I | MISSO |
| BOT CHORD | 19-20=-367/336, 18 17-18=-367/336, 16 15-16=-510/467, 14 13-14=-509/465, 12 11-12=-486/436 | 6-17=-546/510, 1-15=-509/466, | | joint(s) 20, 1 16=142, 15= 2) Beveled plat surface with | 9, 18 except (jt=lt 135, 14=201, 12= e or shim require truss chord at joir | o) 11=848 =347. d to provi nt(s) 11, 1 | 8, 17=223, de full bearin 16, 15, 14, 13 | g | | 1 | | ST SCOT SEV | |
| WEBS | 5-16=-266/234, 7-1 10-12=-782/651 | 4=-257/224, | I | International | designed in acco Residential Code nd referenced sta | e sections | R502.11.1 a | and | | - | | NUM | BER |
| NOTES 1) Unbalance this design | | e been considered for | | 4) Graphical pu | rlin representatio ation of the purlin 1. | n does n | ot depict the | size | | | Ø | NOM PE-2001 | L ENGLES |
| | | | | | | | | | | | | Octob | er 2,2024 |

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 touls be personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|--------------|-----|-----|--------------------------|-----------|
| P240988-01 | HG4 | Lay-In Gable | 1 | 1 | Job Reference (optional) | 168602440 |

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:33 ID:Fy5SwVYCsViMzm?e3OgvtMyXqGZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





5-2-6

Scale = 1:50.9

| | A, T). [3.0-1-7,Euge] | | | | - | | | | | | | | |
|--|--|--|--|---|---|--|---|---------------------------------------|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 NO IRC2018 | 3/TPI2014 | CSI TC BC WB Matrix-S | 0.19 0.08 0.05 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in n/a n/a 0.00 | (loc) - - 5 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 26 lb | GRIP 197/144 FT = 20% |
| | 2x4 SP No.2 2x3 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood she 5-0-0 oc purlins; ax 2-0-0 oc purlins; 3-5 Rigid ceiling directly bracing. (size) 5=4-8-6, (Max Horiz 8=-129 (L Max Uplift 5=-89 (LC (LC 8) Max Grav 5=93 (LC (LC 1), 8= (lb) - Maximum Com Tension 1-8=-154/157, 1-2=- | cept end verticals, ar applied or 6-0-0 oc 6=4-8-6, 7=4-8-6, 8= C 10) C 9), 6=-50 (LC 8), 7= 19), 6=194 (LC 1), 7 -26 (LC 21) apression/Maximum 162/177, 2-3=-119/1 | 5) 6) 7) ad or 8) nd 9) 4-8-6 10] 27 r=137 11] 12] 13 | Truss to be f braced again Gable studs This truss ha chord live loa * This truss f on the bottor 3-06-00 tall b chord and ar All bearings a capacity of 5) Bearing at jo value using A designer sho) Provide mec bearing plate 5, 50 lb uplith N/A | uate drainage to ully sheathed fror ist lateral movem spaced at 2-0-0 o s been designed n chord in all area by 2-00-00 wide v are assumed to b 65 psi. int(s) 8, 5, 6, 7 cc NNSI/TPI 1 angle uld verify capacit hanical connectio capable of withs at joint 6 and 27 designed in accoo Residential Code | m one factorial for a like of the second sec | e or securely liagonal web) 0 psf bottom other live loa e load of 20.0 a rectangle veen the botto 2 crushing parallel to grai ormula. Build ing surface. ers) of truss t 9 lb uplift at ji at joint 7. | ds.)psf om ing o oint | | | | | |
| BOT CHORD WEBS NOTES | 3-4=-122/133, 4-5=- 7-8=-223/215, 6-7=- 4-6=-150/72, 2-7=-1 | 197/191, 5-6=-200/1 | 83 14) | R802.10.2 and referenced standard ANSI/TPI 1. 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. | | | | | | | | and the second | |
| this design Wind: ASC Vasd=91m Ke=1.00; (exterior zo and right e exposed; C reactions z DOL=1.60 Truss desi only. For s see Stand. | CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 exposed ; end vertical I 2-C for members and fi shown; Lumber DOL= | (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever le left and right orces & MWFRS for 1.60 plate grip the plane of the trus (normal to the face) d Details as applicab | e) eft ss , | OAD CASE(S) | Standard | | | | | | * The | SCOT SEV SEV PE-2001 | T.M. HER 018807 L.E.NGT |

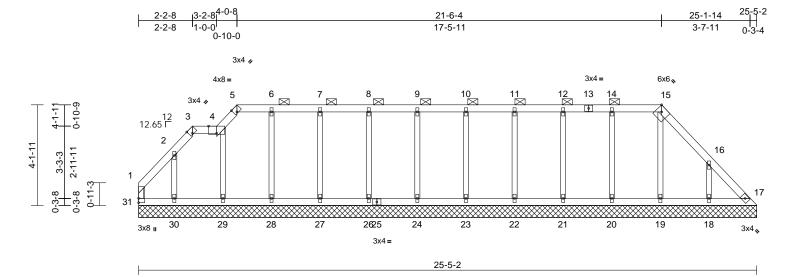
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 toulsable personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|--------------|-----|-----|--------------------------|-----------|
| P240988-01 | HG5 | Lay-In Gable | 1 | 1 | Job Reference (optional) | 168602441 |

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:34 ID:cCM_nrH3wHIFpx?tT_fVjZyXoyz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:47.4

| Plate Offsets (X, Y): | : [3:0-1-7,Edge], [4:0-4-0,Edge], [5:0-1-7,Edge], [15:0-2-9,Edge] |
|-----------------------|---|
|-----------------------|---|

| | (A, T). [3.0-1-7,Euge] | J, [4.0-4-0,⊏uge], [5.0 | - 1-7, Eugej, | 15.0-2-9,20 | lyej | | | | | | | | - | | | | |
|---|--|---|---|---|--|---|--|--|-----------------------|-----------------------------|---|----------------------------------|------------------------------------|--|--|--|--|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 NO IRC2018/ | TPI2014 | CSI TC BC WB Matrix-S | 0.10 0.04 0.06 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in n/a n/a 0.00 | (loc) - - 17 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 112 lb | GRIP 244/190 FT = 20% | | | | |
| BOT CHORD WEBS OTHERS BRACING TOP CHORD | TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x3 SPF No.2 OTHERS 2x3 SPF No.2 BRACING Emath data set of the | | | | 3-4=-66/58, 4-5=-98/82, 5-6=-87/87, 6-7=-87/87, 7-8=-87/87, 8-9=-87/87, 9-10=-87/87, 10-11=-87/87, 8-9=-87/87, 12-14=-87/87, 14-15=-87/87, 15-16=-97/90, 16-17=-101/94 BOT CHORD 30-31=-66/94, 29-30=-66/94, 28-29=-66/96, 27-28=-66/96, 26-27=-66/96, 24-26=-66/96, 23-24=-66/96, 19-20=-66/96, 21-22=-66/96, 20-21=-66/96, 19-20=-66/96, 18-19=-66/96, 17-18=-66/96 | | | | | | 9) * This truss has been designed for a live load of 20.0ps on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. 10) All bearings are assumed to be SP No.2 crushing capacity of 565 psi. 11) N/A | | | | | | |
| REACTIONS | (size) 17=25-5- 20=25-5- | 5-2, 5-2, 5-2, 5-2, 3), 1) 2) | WEBS 2-30=-115/113, 4-29=-131/54, 6-28=-152/57, 7-27=-138/66, 8-26=-141/63, 9-24=-140/63, 10-23=-142/64, 11-22=-133/60, 12-21=-143/65, 14-20=-159/72, 15-19=-106/50, 16-18=-186/166 NOTES 1) Unbalanced roof live loads have been considered for this design. | | | | | International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. LOAD CASE(S) Standard | | | | | | | | | |
| FORCES | 19=145 (21=183 (23=181 (26=179 (28=192 (30=160 (| (LC 19), 18=219 (LC 2 (LC 26), 20=199 (LC 2 (LC 1), 22=173 (LC 2 (LC 1), 24=180 (LC 2 (LC 25), 27=179 (LC 2 (LC 25), 27=179 (LC 2 (LC 25), 29=172 (LC 2 (LC 19), 31=103 (LC 2 npression/Maximum | 20), 25), 3), 26), 25), 3) 20) 4) 5) 6) 7) 8) | zone; cantil and right ex MWFRS foo grip DOL=1 Truss desig only. For s see Standa or consult o Provide ade All plates ad Gable requi Gable studt This truss h | 9-0-8 to 21-6-4, Ex lever left and right kposed;C-C for me r reactions shown; l.60 nued for wind loads tuds exposed to wi rrd Industry Gable I qualified building de equate drainage to re 1.5x4 MT20 unli ires continuous bo s spaced at 0-0-0 c as been designed bad nonconcurrent | exposed mbers ar Lumber ind (norm End Deta esigner a prevent ess other ttom cho bc. for a 10. | ; end vertical d forces & DOL=1.60 pla ane of the tru ial to the face ils as applical s per ANSI/TF water ponding wise indicated d bearing. 0 psf bottom | left ate ss), ble, ble, PI 1. g. d. | | | R | PE-2001 | | | | | |

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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

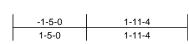
besign value to dury with with where outputs into design is based only door parameters shown, and is for an individual building design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members and property incorporate this design into the 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 and truss systems, see **ANS/TPH1 Quality Criteria**, and **DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

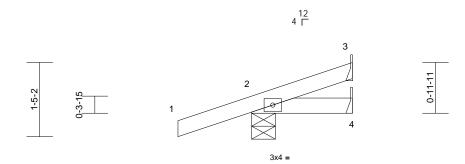
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October 2,2024

| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P240988-01 | J01 | Jack-Open | 1 | 1 | Job Reference (optional) | 168602442 |

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:34 ID:6mrTrCbDvjlil7jv04wNqEzeCPI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





| 1-11- | 4 |
|-------|---|
| | |

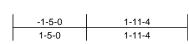
| Spacing | 2-0-0 | 001 | | | | | | | | |
|---|--|--|---|--|---|--|--|--|--|---|
| Plate Grip DOL Lumber DOL Rep Stress Incr Code | 1.15 1.15 NO IRC2018/TPI2014 | CSI TC BC WB Matrix-P | 0.20 0.04 0.00 | DEFL Vert(LL) Vert(CT) Horz(CT) | in 0.00 0.00 0.00 | (loc) 2-4 2-4 3 | l/defl >999 >999 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 8 lb | GRIP 244/190 FT = 20% |
| applied or 10-0-0 oc 3= Mechanical, 4= al 8) C 8), 3=-19 (LC 12) | d or 8) This truss Internation R802.10.2 | ided to connect trus jt(s) 2. This connect onsider lateral force is designed in acco al Residential Code and referenced sta | s to bear ction is fo es. rdance w e sections | ing walls due r uplift only ar vith the 2018 s R502.11.1 a | nd | | | | | |
| pression/Maximum 7 | | | | | | | | | | |
| E) zone; cantilever le eft and right prces & MWFRS for 1.60 plate grip r a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle fit between the bottom | eft ds. psf m ing | | | | | | | | | ER ER 1018807 |
| | Rep Stress Incr Code athing directly applied applied or 10-0-0 oc 3= Mechanical, 4= al 8) C 8), 3=-19 (LC 12) C 1), 3=26 (LC 1), 4= pression/Maximum 7 (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever I eft and right prces & MWFRS for I.60 plate grip a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle fit between the botto bint 2 SP No.2 crush as connections. | Rep Stress Incr Code NO IRC2018/TPI2014 7) One H2.5T recommenuPLIFT at does not c athing directly applied or applied or 10-0-0 oc 8) 3= Mechanical, 4= al 8) (8) C 8), 3=-19 (LC 12) LOAD CASE(3) 21), 3=26 (LC 1), 4=38 pression/Maximum 7 (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelope) E) zone; cantilever left eft and right orces & MWFRS for 1.60 plate grip * a 10.0 psf bottom th any other live loads. or a live load of 20.0psf where a rectangle fit between the bottom bint 2 SP No.2 crushing es connections. | Rep Stress Incr Code NO IRC2018/TPI2014 WB Matrix-P 7) One H2.5T Simpson Strong-T recommended to connect trus UPLIFT at jt(s) 2. This connect does not consider lateral force athing directly applied or applied or 10-0-0 oc 7) This truss is designed in acco International Residential Code R802.10.2 and referenced sta LOAD CASE(S) 3= Mechanical, 4= al 8) C8), 3=-19 (LC 12) Standard 21), 3=26 (LC 1), 4=38 Pression/Maximum 7 (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelope) E) zone; cantilever left eft and right orces & MWFRS for 1.60 plate grip This true loads. or a live load of 20.0psf where a rectangle at 10.0 psf bottom th any other live loads. or a live load of 20.0psf where a rectangle This the ween the bottom bint 2 SP No.2 crushing es connections. Second context is a second context is | Rep Stress Incr Code NO IRC2018/TPI2014 WB Matrix-P 0.00 Matrix-P 7) One H2.5T Simpson Strong-Tie conne recommended to connect truss to bear UPLIFT at jt(s) 2. This connection is fo does not consider lateral forces. 8) athing directly applied or applied or 10-0-0 oc 8) This truss is designed in accordance w International Residential Code sections R802.10.2 and referenced standard At LOAD CASE(S) Standard 3= Mechanical, 4= al 8) 6 Standard Standard 3= Mechanical, 4= al 8) 7 Standard Standard 3= Mechanical, 4= al 8) 6 Standard Standard 3= Mechanical, 4= al 8) 6 Standard Standard 3= Mechanical, 4= al 8) 6 Standard Standard 4 7 Standard Standard 5 5 Standard Standard 6 8) Casecond gust) Standard 7 0.0 psf bottom Standard Standard 7 1.60 plate grip Standard Standard * a 10.0 psf bottom Standard Standard Standard * a 10.0 psf bottom Standard Standard Standard | Rep Stress Incr Code NO IRC2018/TPI2014 WB Matrix-P 0.00 Matrix-P Hor2(CT) 7) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due UPLIFT at jt(s) 2. This connection is for uplift only an does not consider lateral forces. 8) athing directly applied or applied or 10-0-0 oc 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 a R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard 8) C 8), 3=-19 (LC 12) C 1), 3=26 (LC 1), 4=38 pression/Maximum 7 (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelope) E) zone; cantilever left eft and right porces & MWFRS for I.60 plate grip ra 10.0 psf bottom th any other live loads. or a live load of 20.0psf where a rectangle fit between the bottom bint 2 SP No.2 crushing es connections. | Rep Stress Incr Code NO IRC2018/TPI2014 WB Matrix-P 0.00 Matrix-P Horz(CT) 0.00 athing directly applied or applied or 10-0-0 oc 7) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at it(s) 2. This connection is for uplift only and does not consider lateral forces. 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard 3= Mechanical, 4= al 8) American and the sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard Y (3-second gust) DL=6.0pst; h=35ft; d; MWFRS (envelope) E) zone; cantilever left eff and right orces & MWFRS for 1.60 plate grip Ta 10.0 psf bottom th any other live loads. or a live load of 20.0psf where a rectangle fit between the bottom that 2 SP No.2 crushing as connections. | Rep Stress Incr NO WB 0.00 Hor2(CT) 0.00 3 Code IRC2018/TPI2014 Matrix-P Matrix-P 0.00 3 athing directly applied or applied or 10-0-0 oc 7) One H2.5T 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) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard 8= Mechanical, 4= al 8) C (3), 3=-19 (LC 12) C1), 3=26 (LC 1), 4=38 Pression/Maximum 7 (3-second gust) DL=6.0psf; h=35ft; d; dWFRS for 1.60 plate grip a 1.00 psf bottom th any other live loads. or a live loads. or a live load of 20.0psf where a rectangle fit between the bottom any other live loads. or a live load of 20.0psf where a rectangle fit between the bottom bit 2 SP No.2 crushing as connections. sconnections. sconnections. | Rep Stress Incr NO WB 0.00 Horz(CT) 0.00 3 n/a Code IRC2018/TPI2014 Matrix-P Matrix-P Horz(CT) 0.00 3 n/a Matrix-P One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(5) 2. This connection is for uplit only and does not consider lateral forces. This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard *80 CB), 3=-19 (LC 12) Standard >1), 3=26 (LC 1), 4=38 Standard pression/Maximum 7 Gasecond gust) DL=6.0psf; h=35ft; d; MWFRS for I.60 plate grip For a live load of 20.0psf where a rectangle it between the bottom that yother live loads. or a live load of 20.0psf where a rectangle it between the bottom so connections. | Rep Stress Incr NO WB 0.00 Horz(CT) 0.00 3 n/a n/a Code IRC2018/TPI2014 WB 0.00 Horz(CT) 0.00 3 n/a n/a Matrix-P International Residential Code sections recommended to connect truss to bearing walls due to UPLIFT at it(s) 2. This connection is for uplit only and does not consider lateral forces. 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard 26 8). 3=-19 (LC 12) Standard Standard International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard 30 CB, 3=-19 (LC 12) Standard Standard International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard 10L=6.0psf; h=35ft; d; MWFRS (envelope) Standard International Residential Code sections R502.11.1 and R | Rep Stress Incr NO WB 0.00 Horz(CT) 0.00 3 n/a Weight: 8 lb Code IRC2018/TPI2014 Matrix-P Matrix-P 0.00 3 n/a n/a Weight: 8 lb NO 0 Horz(CT) 0.00 3 n/a Weight: 8 lb athing directly applied or 7 One H2.5T Simpson Strong-Tic connectors recommended to connect truss to bearing walls due to UPLIFT at it(s) 2. This connection is for uplift only and does not consider lateral forces. 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard al 8) C (C 1), 4=38 pression/Maximum 7 (3-second gust) DL=6.0pst; h=35ft; d: MWFRS (envelope) E) zone; cantilever left eff and right orces & MWFRS for I.60 plate grip For I.60 plate grip 1 a 10.0 psf bottom th any other live loads, or a live load of 20.0psf where a rectangle fit between the bottom Structure sconnections. |

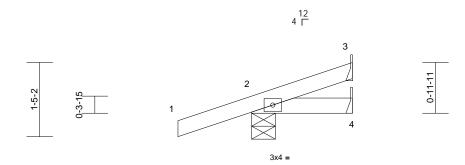
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 toulsible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



| Job | Truss | Truss Type C | | Ply | Roof - HT Lot 180 | |
|------------|-------|--------------|---|-----|--------------------------|-----------|
| P240988-01 | J02 | Jack-Open | 1 | 1 | Job Reference (optional) | 168602443 |

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| 1-11-4 | |
|--------|--|
| | |

| Loading TCLL (roof) (psf) Spacing 2-0-0 CSI DEFL in (loc) //defi L// L/defi TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.20 Vert(LL) 0.00 2-4 >999 240 BCL 0.0* Rep Stress Incr NO BC 0.04 Vert(CT) 0.00 2-4 >999 180 BCL 0.0* Rep Stress Incr NO WB 0.00 Matrix-P Horz(CT) 0.00 3 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-P One PL5.5T Simpson Strong-Tie connectors For connectors For connectors For connectors For connectors For connectors to bearing walls due to UPLIFT at jt(5) 2. This connection is for uplift only and does not consider lateral forces. 8) This truss is designed in accordance with the 2018 For cons R502.11.1 and R802.10.2 and referenced standard ANSI/TP11. LOAD CASE(S) Standard BACTHONS (size) 2=0-5-8, 3= Mechanical, 4= Machanical Max Horiz 2=55 (LC 8) Max Grav | PLATES GRIP MT20 244/190 |
|---|--|
| TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 BACING 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. BACING Structural wood sheathing directly applied or 1-11-4 oc purlins. BOT CHORD Reactions REACTIONS (size) 2=0-5-8, 3= Mechanical, 4= Mechanical Max Horiz 2=55 (LC 8) Max Uplift 2=-110 (LC 8), 3=-19 (LC 12) Max Grav 2=227 (LC 1), 3=26 (LC 1), 4=38 (LC 3) FORCES (lb) - Maximum Compression/Maximum Tension | Weight: 8 lb FT = 20% |
| FORCES (lb) - Maximum Compression/Maximum Tension | |
| TOP CHORD 1-2=0/30, 2-3=-35/17 BOT CHORD 2-4=0/0 NOTES 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 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 load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. 4) Bearings are assumed to be: , Joint 2 SP No.2 crushing capacity of 565 psi. 5) Refer to girder(s) for truss to truss connections. 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 3. | STATE OF MISSOCIE SCOTT M. SEVIER NUMBER PE-2001018807 |

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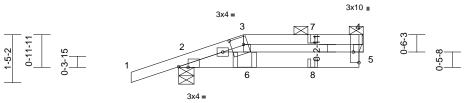
| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|-----------------|-----|-----|--------------------------|-----------|
| P240988-01 | J03 | Half Hip Girder | 2 | 1 | Job Reference (optional) | 168602444 |

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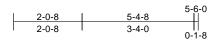


6x6 🛥





THJU26 NAILED



Scale = 1:34.3

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

| Loading (psf) TCLL (roof) 25.0 TCDL 10.0 BCLL 0.0* BCDL 10.0 | Spacing2-0-Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCodeIRC | 5 | CSI TC BC WB Matrix-S | 0.12 | DEFL Vert(LL) Vert(CT) Horz(CT) | in -0.01 -0.01 0.00 | (loc) 6 5-6 5 | l/defl >999 >999 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 21 lb | GRIP 197/144 FT = 20% |
|--|---|--|---|---|---|--|------------------------|-------------------------------|--------------------------|---------------------------------------|------------------------------------|
| BRACING OP CHORD Structural wood she 5-6-0 oc purlins, ex 2-0-0 oc purlins: 3-4 BOT CHORD Rigid ceiling directly bracing. | applied or 10-0-0 oc 5= Mechanical 8) C 8), 5=-35 (LC 9) C 1), 5=205 (LC 1) pression/Maximum 55, 3-4=-174/61, 8/173 (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelope) E) zone; cantilever left left and right orces & MWFRS for 1.60 plate grip event water ponding. r a 10.0 psf bottom th any other live loads. or a live load of 20.0psf where a rectangle fit between the bottom | Provide mech bearing plate 5. One H2.5T S recommende UPLIFT at jt(does not con This truss is a International R802.10.2 ar Graphical pur or the orienta bottom chord Use Simpson RC 1-PLY) or connect truss Fill all nail ho "NAILED" inc (0.148"x3.25" Hanger(s) or provided suff lb down and design/select responsibility In the LOAD of the truss a LOAD CASE(S) Dead + Roc Plate Increa Uniform Loa Vert: 1-3 Concentrate | Strong-Tie THJU2 equivalent at 1-11- (es) to back face of les where hanger is icates 3-10d (0.14& ') toe-nails per NDS other connection de icient to support cor 104 lb up at 1-11-4 ion of such connect of others. CASE(S) section, la re noted as front (F Standard f Live (balanced): L se=1.15 | by othen ading 35 connect o bearin n is for ance wite ections and AN3 loes not ong the 6 (SGL -10 fron 5 bottom in cont s wice(s) ancentrat in cont dev bads ap) or bac .umber -20 | rs) of truss i 5 lb uplift at j tors mg walls due uplift only ar h the 2018 R502.11.1 a SI/TPI 1. t depict the s top and/or & SGL SHC n the left end ac chord. act with lum - 3-12d es. shall be teed load(s) 1 chord. The ice(s) is the plied to the s k (B). | joint to nd and size DRT d to ber. 165 | | | | STATE OF I SCOT SEVI PE-2001 | |

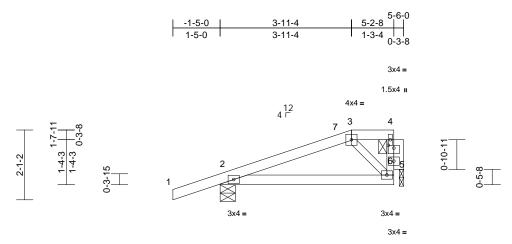
besign value to dury with with where outputs into design is based only door parameters shown, and is for an individual building design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members and property incorporate this design into the 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 and truss systems, see **ANS/TPH1 Quality Criteria**, and **DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

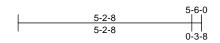


| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P240988-01 | J04 | Half Hip | 1 | 1 | Job Reference (optional) | 168602445 |

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:34 ID:juQculcza1K?qo_?lfQY6SzeCMh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:34.5

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

| | | - | | | | | | | | | - | |
|--|---|--|---|--|---|--|---------------------------|-------|--------|-----|---|------------------------------|
| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | тс | 0.26 | Vert(LL) | -0.03 | 2-5 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.33 | Vert(CT) | -0.07 | 2-5 | >863 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.04 | Horz(CT) | 0.00 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TP | I2014 Matr | ix-P | | | | | | Weight: 22 lb | FT = 20% |
| LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS | 2x4 SP No.2 2x3 SPF No.2 2x4 SP No.2 Structural wood she 5-6-0 oc purlins, ex 2-0-0 oc purlins: 3-4 Rigid ceiling directly bracing. | cept end verticals, a , y applied or 10-0-0 o 6=0-1-8 9) .C 8), 6=-38 (LC 8) | ca 6) Be us de 7) Pr be nd 8) Or c c c an 9) Th l R 8 20 20 20 20 20 20 20 20 20 20 20 20 20 | pacity of 565 psi aring at joint(s) (ing ANSI/TPI 1 a signer should ve ovide mechanica aring plate at join the H2.5T Simpsc commended to c ULFT at jt(s) 2 and d does not consi is truss is design ernational Residd 02.10.2 and refe aphical purlin rej | 6 considers parallel angle to grain formu rify capacity of bea al connection (by otl | to grain value la. Building ing surface. ing surface tors ctors ring walls due n is for uplift yith the 2018 s R502.11.1 a NSI/TPI 1. ot depict the | to e to only and | | | | . ~ | |
| FORCES | (lb) - Maximum Com | npression/Maximum | | ttom chord. | | | | | | | | |
| TOP CHORD BOT CHORD WEBS | 5-6=-96/148, 4-6=-5 | | LOAD | CASE(S) Star | ndard | | | | | | | |
| Vasd=91r Ke=1.00; exterior zz Interior (1 zone; can and right i MWFRS f grip DOL= 2) Provide a 3) This truss chord live 4) * This truss on the boi 3-06-00 ta | CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 I) 3-7-0 to 3-11-4, Exter titlever left and right ex exposed;C-C for memb for reactions shown; Lu =1.60 tdequate drainage to pr s has been designed fo b load nonconcurrent w ss has been designed fo b load nonconcurrent w ss has been designed fo all by 2-00-00 wide will d any other members. | SDL=6.0psf; h=35ft; ad; MWFRS (envelop 2E) -1-5-0 to 3-7-0, rior(2E) 3-11-4 to 5- posed ; end vertical bers and forces & umber DOL=1.60 pla revent water ponding r a 10.0 psf bottom ith any other live loa for a live load of 20.0 where a rectangle | 1-4 lleft te g. ds. ppsf | | | | | | 2 | B | STATE OF SCOT SEV NUM PE-2001 | T M. IER BER 018807 |

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 toulsable personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

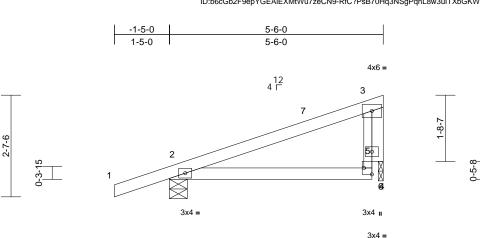


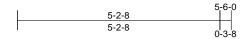
October 2,2024

| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P240988-01 | J05 | Monopitch | 4 | 1 | Job Reference (optional) | 168602446 |

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:34 ID:b6cGb2F9epYGEAiEXMtWu7zeCN9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:29.6

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

| | (x, i): [1:Edge;e 2 e] | | | | | | | | | | | |
|---|---|--|---|--|--|--|------------------------------|--------------------------|-------------------------------|--------------------------|---------------------------------|------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 NO IRC2018/TPI2014 | CSI TC BC WB Matrix-R | 0.33 0.20 0.00 | DEFL Vert(LL) Vert(CT) Horz(CT) | in -0.02 -0.03 0.00 | (loc) 2-4 2-4 6 | l/defl >999 >999 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 22 lb | GRIP 197/144 FT = 20% |
| BCDL LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Wind: AS(Vasd=91r Ke=1.00; exterior zz Interior (1) exposed ; members Lumber D 2) This truss | 10.0 2x4 SP No.2 2x4 SP No.2 2x3 SPF No.2 2x3 SPF No.2 2x4 SP No.2 Structural wood she 5-6-0 oc purlins, ex Rigid ceiling directly bracing. (size) 2=0-5-8, I Max Horiz 2=94 (LC Max Uplift 2=-128 (L Max Grav 2=367 (L1 (Ib) - Maximum Corr Tension 1-2=0/30, 2-3=-204/ 3-5=-92/222 | Code | IRC2018/TPI2014 5) Bearing at using ANS designer s 6) Provide m bearing pla 7) One H2.5T recommen UPLIFT at and does r 8) This truss Internation R802.10.2 LOAD CASE(S | Matrix-R joint(s) 6 consider J/TPI 1 angle to gr hould verify capac echanical connecti ate at joint(s) 6. Simpson Strong- ded to connect tru jt(s) 2 and 6. This hot consider lateral is designed in acco al Residential Cod and referenced st | rs parallel t rain formula ity of bear ion (by oth Tie connect uss to bear connectio al forces. ordance w de sections | o grain value a. Building ng surface. ers) of truss ctors ing walls due n is for uplift ith the 2018 ; R502.11.1 a | e to e to only | | | | Weight: 22 lb | MISSOUR T M. |
| on the bot 3-06-00 ta chord and | is has been designed f tom chord in all areas all by 2-00-00 wide will any other members. gs are assumed to be of 565 psi. | where a rectangle fit between the botto | | | | | | | - | A Star | PE-2001 | 018807 E |



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 oulgase with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P240988-01 | J06 | Half Hip | 1 | 1 | Job Reference (optional) | 168602447 |

-1-5-0

1-5-0

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:34 ID:AGPiPC0cLf16q6AOM9Wp4vzeCNT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

5-11-4

5-11-4

6-6-0

0-6-12

4x4 =



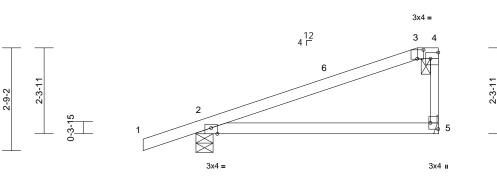
2 0-3-15 3x4 = 6-6-0

| TCDL BCLL BCDL | BCLL 0.0* Rep Stress Incr | | 1.15 NO IRC2 | 018 | /TPI2014 | BC WB Matrix-R | 0.41 0.00 | Vert(CT) Horz(CT) | -0.12 0.00 | 2 | | | |
|---|--|--|--------------------|-----|----------|--|--------------|----------------------|---------------|---|--|--|--|
| | LUMBER TOP CHORD 2x4 SP No.2 30T CHORD 2x4 SP No.2 WEBS 2x3 SPF No.2 BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins, | | | | | Refer to girder(s) for truss to truss connections. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 5. One H2.5T 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. This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. DAD CASE(S) Standard | | | | | | | |
| FORCES | (lb) - Maximum Com Tension | pression/Maximum | | | | | | | | | | | |
| TOP CHORD | 1-2=0/30, 2-3=-156/4 4-5=-185/229 | 45, 3-4=-103/100, | | | | | | | | | | | |
| BOT CHORD | | | | | | | | | | | | | |
| NOTES 1) Wind: AS | CE 7-16; Vult=115mph | (3-second gust) | | | | | | | | | | | |
| Vasd=91r Ke=1.00; exterior zo Interior (1 zone; can | nph; TCDL=6.0psf; BCJ Cat. II; Exp C; Enclosed one and C-C Exterior(2)) 3-7-0 to 5-11-4, Exter tilever left and right exp exposed;C-C for memb | DL=6.0psf; h=35ft; d; MWFRS (envelop E) -1-5-0 to 3-7-0, for(2E) 5-11-4 to 6-4 posed ; end vertical lo | -12 | | | | | | | | | | |

- 2
- 3
- 4
- 5

TRUCTION **IEW** DEVELOPMENT SERVICES LEE'S' SUMMIT'S MISSOURI 10/28/2024 10:57:49

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 toulsable personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Scale = 1:30.9

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

| | (;;;;): [<u>2:0</u> 2 0; <u>2</u> 2ge |]; [0:0 = 0;0 = :0]; [: | 12ago;o 2 o]; [o:2ag | ,;o = o] | | | | | | | | |
|-------------|---|-------------------------|----------------------|--|---------------|-----------------|-------|-------|--------|------|---------------|-------------|
| Loading | (psf) | Spacing | 2-0-0 | csi | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.64 | Vert(LL) | -0.06 | 2-5 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.41 | Vert(CT) | -0.12 | 2-5 | >621 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.00 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | | | | | | | | Weight: 24 lb | FT = 20% |
| _ | | | | | | | - | | | | | |
| LUMBER | | | | girder(s) for truss to | | | | | | | | |
| TOP CHORD | | | | mechanical connec | | | | | | | | |
| BOT CHORD | 2x4 SP No.2 | | 0 | plate capable of wit | hstanding 5 | 56 lb uplift at | joint | | | | | |
| WEBS | 2x3 SPF No.2 | | 5. | | . | | | | | | | |
| BRACING | | | , | .5T Simpson Strong | | | . 4.0 | | | | | |
| TOP CHORD | | eathing directly appli | | ended to connect tr at it(s) 2. This conn | | | | | | | | |
| | | xcept end verticals, a | 300 | t consider lateral for | | upint only a | nu | | | | | |
| DOTOLODD | 2-0-0 oc purlins (6- | | | ss is designed in ac | | ith the 2018 | | | | | | |
| BOT CHORD | Bigid ceiling direct bracing. | y applied or 10-0-0 o | | ional Residential Co | | | and | | | | | |
| DEACTIONS | 0 | 5 Machanical | | 0.2 and referenced s | | | | | | | | |
| REACTIONS | Max Horiz 2=106 (I | 5= Mechanical | 10) Graphic | al purlin representat | tion does n | ot depict the | size | | | | | |
| | Max Uplift 2=-141 (| | | rientation of the purl | in along the | e top and/or | | | | | | |
| | Max Grav 2=408 (I | | bottom | | | | | | | | | |
| FORCES | (lb) - Maximum Co | mpression/Maximum | LOAD CAS | E(S) Standard | | | | | | | | |
| | Tension | | | | | | | | | | | |
| TOP CHORD | 1-2=0/30, 2-3=-156 4-5=-185/229 | 5/45, 3-4=-103/100, | | | | | | | | | | |
| BOT CHORD | 2-5=-97/103 | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | |
| 1) Wind: AS | CE 7-16; Vult=115mp | h (3-second gust) | | | | | | | | | | |
| Vasd=91n | nph; TCDL=6.0psf; B | CDL=6.0psf; h=35ft; | | | | | | | | | | |
| Ke=1.00; | Cat. II; Exp C; Enclos | ed; MWFRS (envelo | pe) | | | | | | | | | an |
| | one and C-C Exterior | | | | | | | | | | OF | MISSO |
| |) 3-7-0 to 5-11-4, Ext | | | | | | | | | | TATE OF | J. OSCILL |
| | tilever left and right e exposed;C-C for men | | leit | | | | | | | 6 | 172 | 1 CAN |
| | or reactions shown; L | | ato | | | | | | | B | S SCOI | |
| grip DOL= | | | | | | | | | | B | SEV | IER \ Y |
| 01 | dequate drainage to p | prevent water ponding | a. | | | | | | | 10 * | | 1 * 1 |
| | has been designed f | | 5 | | | | | | | 8 | 9 | |
| | load nonconcurrent v | | | | | | | | | 0.2 | COPUN | A Max |
| | s has been designed | | 0psf | | | | | | | 142 | PE-2001 | 018807 1890 |
| | tom chord in all areas | 0 | | | | | | | | N. | | |
| | all by 2-00-00 wide wi I any other members. | ii iii between the bott | om | | | | | | | Y | 1050 | O'E |
| | are assumed to be: J | nint 2 SP No 2 crushi | ina | | | | | | | | CSSIONA | LETA |
| capacity c | | | | | | | | | | | Car | TITE |
| capacity c | | | | | | | | | | | | er 2,2024 |
| | | | | | | | | | | | 00100 | 01 2,2027 |

| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P240988-01 | J07 | Half Hip | 1 | 1 | Job Reference (optional) | 168602448 |

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:34 ID:T4HVkzhgiNdx5ycCH_XUUCzeCNu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

6-6-0



Page: 1

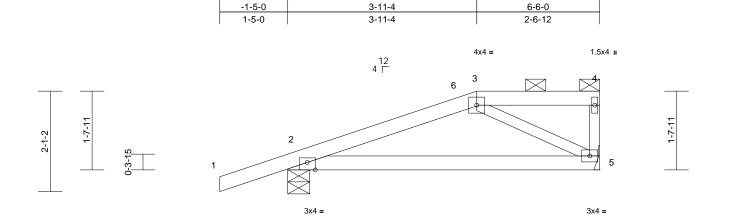


Plate Offsets (X, Y): [2:0-2-0,Edge]

chord and any other members.

| Fiale Oliseis (| (A, T). [2.0-2-0,Euge] | | | | _ | | | | | | | |
|--|---|---|--|---|---|--|------------------------------|--------------------------|-------------------------------|--------------------------|---|------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 NO IRC2018/TPI2014 | CSI TC BC WB Matrix-P | 0.27 0.55 0.07 | DEFL Vert(LL) Vert(CT) Horz(CT) | in -0.09 -0.17 0.00 | (loc) 2-5 2-5 5 | l/defl >853 >427 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 25 lb | GRIP 197/144 FT = 20% |
| LUMBER TOP CHORD BOT CHORD BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD | 2x4 SP No.2 2x3 SPF No.2 Structural wood she 6-0-0 oc purlins, ex 2-0-0 oc purlins: 3-4 Rigid ceiling directly bracing. | cept end verticals, a applied or 10-0-0 or 5= Mechanical 9) C 8), 5=-53 (LC 8) C 1), 5=262 (LC 1) ppression/Maximum | capacity 6) Refer to 7) Provide bearing 5. 10 10 One H2 recomm 40 or 9) This true 10 Graphic or the o bottom | s are assumed to be: of 565 psi. girder(s) for truss to mechanical connecti plate capable of with .5T Simpson Strong- rended to connect tru at jt(s) 2. This conne t consider lateral forc sis is designed in accc ional Residential Cod .2 and referenced st al purlin representation rientation of the purlir chord. E(S) Standard | truss coni on (by oth standing § Tie conne ss to bear ction is fo ses. ordance w le sections andard AN on does no | nections. ers) of truss : 53 lb uplift at j ctors ing walls due r uplift only au ith the 2018 \$ R502.11.1 a VSI/TP1 1. ot depict the s | to ioint to nd | | | | | |
| BOT CHORD WEBS | 2-5=-279/209 3-5=-238/296 | | | | | | | | | | | |
| Vasd=91n Ke=1.00; exterior zc Interior (1) zone; can and right e MWFRS f grip DOL= 2) Provide ar 3) This truss chord live 4) * This truss on the bot 3-06-00 ta | CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2) 3-7-0 to 3-11-4, Exter tilever left and right exp exposed;C-C for memb or reactions shown; Lu -1.60 dequate drainage to pr has been designed fo load nonconcurrent wi is has been designed f tom chord in all areas II by 2-00-00 wide will env other mombers | DL=6.0psf; h=35ft; d; MWFRS (envelop IE) -1-5-0 to 3-7-0, rior(2E) 3-11-4 to 6- posed ; end vertical pers and forces & imber DOL=1.60 pla event water ponding r a 10.0 psf bottom th any other live loa or a live load of 20.0 where a rectangle | 4-12 left g. ds. opsf | | | | | | | * | STATE OF J SCOT SEV NUM PE-2001 | 018807 |

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 colleges with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

October 2,2024

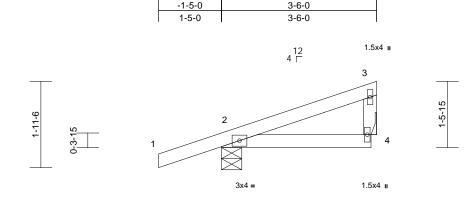
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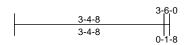


| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|-------------|-----|-----|--------------------------|-----------|
| P240988-01 | J08 | Jack-Closed | 4 | 1 | Job Reference (optional) | 168602449 |

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:34 ID:SN?E2rd1k8D2iqcWKHUdbMzeCQY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:26

| Scale = 1:26 | | | | | | | | | | | | |
|---|--|--|-----------------------------|--|---|--|------------------------------|--------------------------|-------------------------------|--------------------------|----------------|------------------------|
| Loading TCLL (roof) TCDL BCLL | (psf) 25.0 10.0 0.0* | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr | 2-0-0 1.15 1.15 NO | CSI TC BC WB | 0.25 0.12 0.00 | DEFL Vert(LL) Vert(CT) Horz(CT) | in -0.01 -0.01 0.00 | (loc) 2-4 2-4 4 | l/defl >999 >999 n/a | L/d 240 180 n/a | PLATES MT20 | GRIP 244/190 |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 14 lb | FT = 20% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD | 2x4 SP No.2 2x4 SP No.2 Structural wood she 3-6-0 oc purlins, ex | cept end verticals. | ed or | .5T Simpson Strong- iended to connect tru at jt(s) 2. This conne t consider lateral for ss is designed in acc ional Residential Cor 0.2 and referenced s E(S) Standard | uss to bear ection is for ces. cordance w de sections | ing walls due uplift only a th the 2018 5 R502.11.1 a | nd | | | | | |
| REACTIONS | 0 | 4= Mechanical | | | | | | | | | | |
| | Max Horiz 2=65 (LC Max Uplift 2=-124 (L Max Grav 2=286 (LC | .C [´] 8), 4=-23 (LC 12) | 1 | | | | | | | | | |
| FORCES | (lb) - Maximum Com | | | | | | | | | | | |
| TOP CHORD BOT CHORD | Tension 1-2=0/30, 2-3=-70/4 2-4=-24/26 | 8, 3-4=-95/122 | | | | | | | | | | |
| NOTES | | | | | | | | | | | | |
| Vasd=91m Ke=1.00; (exterior zo and right e exposed;C | CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 exposed ; end vertical I C-C for members and f shown; Lumber DOL= | DL=6.0psf; h=35ft; ed; MWFRS (envelop E) zone; cantilever left and right orces & MWFRS for | left | | | | | | | | ATE OF | MISS |
| | has been designed for load nonconcurrent wi | | de | | | | | | | A | The | 13000 |
| This trus on the bot 3-06-00 ta | s has been designed f tom chord in all areas Il by 2-00-00 wide will any other members. | or a live load of 20.0 where a rectangle | 0psf | | | | | | | | S SCOT SEV | TM. YEY |
| | are assumed to be: Joi | int 2 SP No.2 crushi | ing | | | | | | - | | de T | Server |
| 5) Refer to gi | irder(s) for truss to trus | | | | | | | | | N2 | PE-2001 | |
| | echanical connection (ate capable of withstar | | | | | | | | | Ý | Ser. | GIT |

bearing plate capable of withstanding 23 lb uplift at joint 4.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 toulsible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

October 2,2024

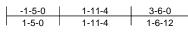
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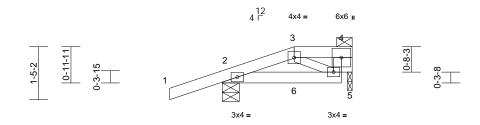
JONAL

| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|-----------------|-----|-----|--------------------------|-----------|
| P240988-01 | J10 | Half Hip Girder | 1 | 1 | Job Reference (optional) | 168602450 |

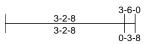
Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:35 ID:2KNyZR?URf7fwbUUelYuLuzeCQ3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f







Special



Scale = 1:31

| Loading | (psf) | Spacing | 2-0-0 | | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|--|-------------------------|--------------|--------------|---------------------|------------|-------------------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | | тс | 0.25 | Vert(LL) | -0.01 | 2-5 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.12 | Vert(CT) | -0.01 | 2-5 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | | WB | 0.02 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2 | 2014 | Matrix-P | | | | | | | Weight: 14 lb | FT = 20% |
| LUMBER | | | 6) Bea | arina at ioi | nt(s) 5 considers | parallel t | o grain value | | | | | | |
| TOP CHORD | 2x4 SP No.2 | | | | PI 1 angle to grai | | | | | | | | |
| BOT CHORD | 2x4 SP No.2 | | des | igner shou | uld verify capacity | of beari | ng surface. | | | | | | |
| WEBS | 2x3 SPF No.2 | | 7) Prov | vide mech | anical connection | n (by oth | ers) of truss t | 0 | | | | | |
| OTHERS | 2x4 SP No.2 | | bea | ring plate | at joint(s) 5. | | | | | | | | |
| BRACING | | | | | impson Strong-Ti | | | | | | | | |
| TOP CHORD | Structural wood she | athing directly applied | | | d to connect trus | | | | | | | | |
| | | cept end verticals, an | d UPL | | s) 5 and 2. This c | | n is for uplift (| only | | | | | |
| | 2-0-0 oc purlins: 3-4 | | and | | consider lateral f | | | | | | | | |
| BOT CHORD | Rigid ceiling directly | | | | lesigned in accor | | | | | | | | |
| | bracing. | | | | Residential Code | | | ind | | | | | |
| REACTIONS | (size) 2=0-5-8, 5 | 5=0-1-8 | | | d referenced star | | | | | | | | |
| | Max Horiz 2=43 (LC | 9) | | | lin representation | | | size | | | | | |
| | Max Uplift 2=-112 (L | C 8), 5=-5 (LC 9) | | om chord. | tion of the purlin | along the | top and/or | | | | | | |
| | Max Grav 2=271 (LC | C 1), 5=93 (LC 21) | | | other connection | dovico(s |) shall bo | | | | | | |
| FORCES | (lb) - Maximum Com | pression/Maximum | | | cient to support of | | | 60 | | | | | |
| | Tension | | | | 99 lb up at 1-11-4 | | | | | | | | |
| TOP CHORD | 1-2=0/30, 2-3=-119/ | 54, 3-4=-16/18, | | | -4 on bottom cho | | | | | | | | |
| | 4-5=-45/55 | | | | ection device(s) is | | | | | | | | |
| BOT CHORD | 2-5=-53/133 | | othe | ers. | () | | , | | | | | | |
| WEBS | 3-5=-136/63 | | 12) In th | ne LOAD (| CASE(S) section | loads a | oplied to the f | face | | | | | |
| NOTES | | | | | re noted as front | (F) or ba | ck (B). | | | | | | |
| | E 7-16; Vult=115mph | | | • • • | Standard | | | | | | | | |
| | ph; TCDL=6.0psf; BC | | , | | f Live (balanced) | Lumber | Increase=1. | 15, | | | | | |
| | Cat. II; Exp C; Enclose | | -, | ate Increa | | | | | | | | A | and the |
| | ne and C-C Exterior(2 | | | niform Loa | · / | | | | | | | B.F. OF I | NISS W |
| | xposed ; end vertical I | | | | -70, 3-4=-70, 2-5 | =-20 | | | | | 6 | TATE OF M | N.S. |
| exposed;C | exposed;C-C for members and forces & MWFRS for | | | | d Loads (lb) | | | | | | 8 | SCOT | TM XPN |

- and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
 * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

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Vert: 3=28 (F), 6=-2 (F)



E

SCOTT M.

SEVIER

PE-2001018807

SIONAL

SE

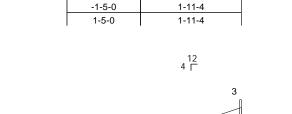
October 2,2024

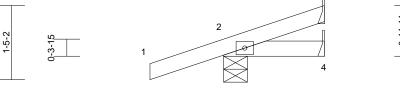
| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P240988-01 | J11 | Jack-Open | 1 | 1 | Job Reference (optional) | 168602451 |

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:35 ID:BOeiL02QvhNHe5qbL2AgSRzeCTt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



VIEW





3x4 =

| 0-11-11 | |
|---------|--|
| 0 | |

| 1-11-4 |
|--------|
| |

| Scale = 1 | :22.2 |
|-----------|-------|
|-----------|-------|

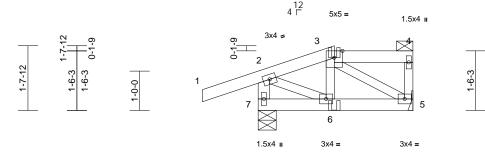
| 00010 - 1.22.2 | | | | | | | | | | | | |
|--|---|--|---|--|--|--|----------------------------|--------------------------|-------------------------------|--------------------------|--|--------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 NO IRC2018/TPI2014 | CSI TC BC WB Matrix-P | 0.20 0.04 0.00 | DEFL Vert(LL) Vert(CT) Horz(CT) | in 0.00 0.00 0.00 | (loc) 2-4 2-4 3 | l/defl >999 >999 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 8 lb | GRIP 244/190 FT = 20% |
| LUMBER TOP CHORD BOT CHORD BRACING TOP CHORD BOT CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD BOT CHORD NOTES 1) Wind: ASC Vasd=91m Ke=1.00; C exterior zor and right e: exposed;C reactions s DOL=1.60 2) This truss f chord live I 3) * This truss on the bott 3-06-00 tall chord and 3 4) Bearings a capacity of 5) Refer to gir 6) Provide me | 2x4 SP No.2 2x4 SP No.2 Structural wood she 1-11-4 oc purlins. Rigid ceiling directly bracing. (size) 2=0-5-8, 3 Mechanic Max Horiz 2=55 (LC Max Uplift 2=-110 (L Max Grav 2=227 (LC (LC 3) (lb) - Maximum Com Tension 1-2=0/30, 2-3=-35/1 2-4=0/0 E 7-16; Vult=115mph ph; TCDL=6.0psf; BC 2at. II; Exp C; Enclose ne and C-C Exterior(2 2t. II; Exp C; Enclose ne and C-C Exterior(2 at. II; Exp C; Enclose ne at. II; Exp C; Enclose n | athing directly applie applied or 10-0-0 oc 3= Mechanical, 4= al 8) C 8), 3=-19 (LC 12) C 1), 3=26 (LC 1), 4= pression/Maximum 7 (3-second gust) DL=6.0psf; h=35ft; d; MWFRS (envelop 2E) zone; cantilever li left and right orces & MWFRS for 1.60 plate grip r a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle fit between the botto oint 2 SP No.2 crush ss connections. (by others) of truss to | 7) One H2.5 recomme UPLIFT does not 8) This trust Internatic R802.10. LOAD CASE =38 | Matrix-P T Simpson Strong-T nded to connect trus it it(s) 2. This connec consider lateral force is designed in acco nal Residential Code 2 and referenced sta (S) Standard | es to bear otion is for es. ordance w e sections | ing walls due r uplift only ar ith the 2018 s R502.11.1 a | nd | | | | STATE OF STATE OF SCOT SEV PE-2001 | MISSOLUTION T.M. IER 018807 |
| | | | | | | | | | | | Octob | per 2,2024 |

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 toulsible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com) RELEASE AS NOTE STRUCTION DEVELORMEN SERVICES LEE'S' SUMMIT'S MISSOURI 10/28/2024 10:57:49

| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|-----------------|-----|-----|--------------------------|-----------|
| P240988-01 | J13 | Half Hip Girder | 3 | 1 | Job Reference (optional) | 168602452 |

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:35 ID:PvRIR2sPBiS6DyMeMF_CTizeDA0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

NAILED





 1-10-0
 3-11-4

 1-10-0
 2-1-4

Scale = 1:29.3

| Loading | (psf) | Spacing | 2-0-0 | | CSI | | DEFL | in | (loc) | l/defl | L/d | | GRIP |
|---------------|--|-------------------------|--------|--|---------------------|--------------|---------------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | | TC | 0.24 | Vert(LL) | 0.00 | 6 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.05 | Vert(CT) | 0.00 | 5-6 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | | WB | 0.03 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC201 | 18/TPI2014 | Matrix-P | | | | | | | Weight: 19 lb | FT = 20% |
| LUMBER | | | 6 |) Bearings are | e assumed to be: | Joint 7 SF | PNo 2 crush | ina | | | | | |
| TOP CHORD | 2x4 SP No.2 | | - | capacity of 5 | | | | | | | | | |
| BOT CHORD | | | 7 | | er(s) for truss to | truss conr | ections. | | | | | | |
| WEBS | 2x3 SPF No.2 *Exce | ent* 7-2·2x4 SP No 2 | | , 0 | hanical connection | | | to | | | | | |
| BRACING | 2/0 011 11012 2/00 | pt : <u></u> x: 0: :101 | - | | e capable of with | | | | | | | | |
| TOP CHORD | Structural wood she | othing directly appli | od or | 5. | | J | | | | | | | |
| TOP CHORD | 3-11-4 oc purlins, e | | |) One H2.5T \$ | Simpson Strong-T | Tie conneo | ctors | | | | | | |
| | 2-0-0 oc purlins: 3-4 | | anu | recommende | ed to connect true | ss to bear | ng walls due | e to | | | | | |
| BOT CHORD | | | | UPLIFT at jt | (s) 7. This conne | ction is for | uplift only a | nd | | | | | |
| BOT CHORD | bracing. | applied of 10-0-0 0 | C | does not cor | sider lateral forc | es. | | | | | | | |
| REACTIONS | | anical, 7=0-5-8 | 1 | 0) This truss is | designed in acco | ordance w | ith the 2018 | | | | | | |
| REACTIONS | (| , | | International Residential Code sections R502.11.1 and | | | | | | | | | |
| | Max Horiz 7=65 (LC | / | | R802.10.2 and referenced standard ANSI/TPI 1. | | | | | | | | | |
| | Max Uplift 5=-37 (LC | | 1 | 11) Graphical purlin representation does not depict the size | | | | | | | | | |
| | Max Grav 5=137 (LC | ,, , , , | | or the orient | ation of the purlin | n along the | top and/or | | | | | | |
| FORCES | (lb) - Maximum Com | pression/Maximum | | bottom chore | d. | | | | | | | | |
| | Tension | | 1 | 2) "NAILED" in | dicates 3-10d (0. | 148"x3") c | or 2-12d | | | | | | |
| TOP CHORD | , | , , | | (0.148"x3.25 | 5") toe-nails per N | VDS guidli | nes. | | | | | | |
| | 4-5=-66/82, 2-7=-27 | | 1 | In the LOAD | CASE(S) section | n, loads a | oplied to the | face | | | | | |
| BOT CHORD | , | | | of the truss a | are noted as front | t (F) or ba | ck (B). | | | | | | |
| WEBS | 2-6=0/95, 3-6=-5/51 | , 3-5=-108/110 | L | OAD CASE(S) | Standard | | | | | | | | |
| NOTES | | | 1 |) Dead + Ro | of Live (balanced | d): Lumber | Increase=1. | 15, | | | | | |
| 1) Unbalance | ed roof live loads have | been considered fo | or | Plate Increa | ate Increase=1.15 | | | | | | | | |
| , this desigr | | | | Uniform Lo | orm Loads (Ib/ft) | | | | | | | | |
| 2) Wind: AS | Wind: ASCE 7-16; Vult=115mph (3-second gust) | | | Vert: 1-2 | =-70, 2-3=-70, 3- | -4=-70, 5-7 | 7=-20 | | | | | | |
| Vasd=91n | Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; | | | Concentrat | ed Loads (lb) | , | | | | | | COL | AD |
| Ke=1.00; | Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) | | | | 12 (B) | | | | | | | F OF I | ALSO DIN |
| exterior zo | exterior zone and C-C Exterior(2E) zone; cantilever left | | | | × / | | | | | | 1 | TE OF I | ~00 M |

Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelop exterior zone and C-C Exterior(2E) zone; cantilever la and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Provide adequate drainage to prevent water ponding.
 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

SCOTT M. SEVIER PE-2001018807

Page: 1

October 2,2024



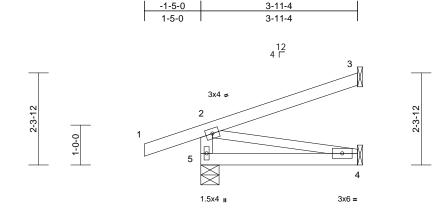
RELEASE IOR ON TRUCTION AS NOTED ON PLANS REVIEW DEVELORMENT SERVICES LEE'S'SUMMIT'S MISSOURI 10/28/2024 10:57:49

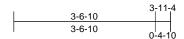
| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P240988-01 | J14 | Jack-Open | 25 | 1 | Job Reference (optional) | 168602453 |

Run: 8,63 S Jul 12 2024 Print: 8,630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:35 ID:o8UIE?szVW7IOM5uY1Wz8QzeDBI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f









Scale = 1:28.9

| | | | | | | - | | | | | | | |
|--|---|-----------------|--------|---|---|--|--|---------------------|-------|--------|------------|---------------|----------|
| Loading | (psf) | Spacing | 2-0-0 | | CSI | | DEFL | in | (loc) | l/defl | L/d | | GRIP |
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | | TC | 0.24 | Vert(LL) | -0.01 | 4-5 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.19 | Vert(CT) | -0.02 | 4-5 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | | WB | 0.04 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC202 | 8/TPI2014 | Matrix-P | | - | | | | | Weight: 18 lb | FT = 20% |
| LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 *Except* 4-2:2x3 SPF No.2 BRACING Structural wood sheathing directly applied or 3-11-4 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-5-8 Max Horiz 5=71 (LC 8) Max Uplift 3=58 (LC 12), 5=-101 (LC 8) Max Grav 3=108 (LC 1), 4=76 (LC 3), 5=301 (LC 1) (LC 1) | | | | bearing plate 3. One H2.5T 3 recommend UPLIFT at jt does not cor This truss is International | hanical connecti e capable of with Simpson Strong- ed to connect tru (s) 5. This conne sider lateral forc designed in acco Residential Cod nd referenced st Standard | Istanding 5 Tie connections to bearing to bearing to bearing to be bearing to be bearing to be to be bearing to be bearing to be the sections to be bearing to be the sections to be bearing to be bearing to be the sections to be bearing to be bearing to be bearing to be the sections to be bearing to be are bearing to bearing to be are bearing to be | 8 lb uplift at ctors ing walls due uplift only a ith the 2018 R502.11.1 a | joint e to nd | | | | | |
| FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 2-5=-263/291, 1-2=0/35, 2-3=-59/30 BOT CHORD 4-5=-172/41 WEBS 2-4=-42/176 | | | | | | | | | | | | | |
| NOTES | - · · · · · · · | | | | | | | | | | | | |
| 1) Wind: ASG Vasd=91n Ke=1.00; exterior zc and right e exposed;0 | CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 exposed ; end vertical C-C for members and f shown; Lumber DOL= 0 | eft | | | | | | | | la la | STATE OF J | 1 CAN | |

- DOL=1.60 2) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 3) on the bottom chord in all areas where a rectangle
- 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. 4) Bearings are assumed to be: , Joint 5 SP No.2 crushing
- capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.



 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 besign value to dury with with where outputs into design is based only door parameters shown, and is for an individual building design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members 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 and truss systems, see **ANS/TPH1 Quality Criteria**, and **DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

CTION **IEW** DEVELOPMENT SERVICES LEE'S'SUMMIT'S MISSOURI 10/28/2024 10:57:49

SEVIER

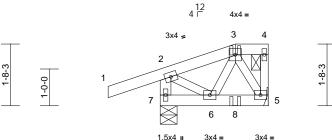
NUMBER

PE-2001018807

| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|-----------------|-----|-----|--------------------------|-----------|
| P240988-01 | J15 | Half Hip Girder | 2 | 1 | Job Reference (optional) | 168602454 |

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:35 ID:4I6ZUIA1?]QpVvEz8BR_izeDQO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





NAILED

NAILED

1-5-10 2-11-4 1-5-10 1-5-10

Scale = 1:31.3

| Loading | (psf) | Spacing | 2-0-0 | | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|--|-----------------------|------------------|--|---|---------------|---------------|-------|-------|--------|-------|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | | тс | 0.24 | Vert(LL) | 0.00 | 6 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.03 | Vert(CT) | 0.00 | 5-6 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | | WB | 0.03 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC20 | 18/TPI2014 | Matrix-P | | | | | | | Weight: 16 lb | FT = 20% |
| UMBER | | | | 7) Provide med | hanical connec | tion (by oth | ere) of truce | to | | | | | |
| TOP CHORD | 2x4 SP No.2 | | | | e capable of with | | | | | | | | |
| BOT CHORD | 2x4 SP No.2 | | | 5. | | lotariarig | i io apint at | joint | | | | | |
| VEBS | 2x3 SPF No.2 *Exce | ent* 7-2·2x4 SP No 2 | 2 | 3) One H2.5T | Simpson Strong | -Tie conne | ctors | | | | | | |
| | 2.00 0.1 11012 2.000 | pt : 2.2.x. 0 | - | | ed to connect tr | | | e to | | | | | |
| FOP CHORD | Structural wood she | athing directly appli | od or | UPLIFT at jt | (s) 7. This conn | ection is for | uplift only a | nd | | | | | |
| | 2-11-4 oc purlins, e | | | does not co | sider lateral for | ces. | | | | | | | |
| | 2-0-0 oc purlins: 3-4 | | and g | | designed in acc | | | | | | | | |
| BOT CHORD | Rigid ceiling directly | | ic. | International Residential Code sections R502.11.1 and | | | | | | | | | |
| | bracing. | | | | nd referenced s | | | | | | | | |
| REACTIONS | 0 | anical, 7=0-5-8 | | | urlin representat | | | size | | | | | |
| | Max Horiz 7=73 (LC | , | | or the orientation of the purlin along the top and/or | | | | | | | | | |
| | Max Uplift 5=-41 (LC | , | | bottom chord. 11) "NAILED" indicates 3-10d (0.148"x3") or 2-12d | | | | | | | | | |
| | Max Grav 5=94 (LC | | | | | | | | | | | | |
| ORCES | (lb) - Maximum Com | | | | (0.148"x3.25") toe-nails per NDS guidlines. In the LOAD CASE(S) section, loads applied to the face | | | | | | | | |
| ORCES | Tension | pression/waximum | | | | | | face | | | | | |
| FOP CHORD | 1-2=0/35, 2-3=-72/5 | 2 2 1- 20/21 | | | are noted as fro | nt (F) or ba | ск (В). | | | | | | |
| OF CHORD | 4-5=-28/34, 2-7=-25 | , , | | OAD CASE(S) | | | | | | | | | |
| BOT CHORD | 6-7=-158/67, 5-6=-6 | | | | of Live (balance | ed): Lumber | Increase=1. | .15, | | | | | |
| WEBS | 3-6=-29/44, 3-5=-60 | | | Plate Incre | | | | | | | | | |
| NOTES | 0 0 = 20/44, 0 0 = 00 | /30, 2 0= //100 | | Uniform Lo | · · · | | 7 00 | | | | | | |
| | | (0 | | | =-70, 2-3=-70, | 3-4=-70, 5- | /=-20 | | | | | | |
| | Wind: ASCE 7-16; Vult=115mph (3-second gust) Concent Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Vert: : | | | | | | | | | | | | |
| | Cat. II; Exp C; Enclose | vert: 3= | ·2 (B), 8=-5 (B) | | | | | | | | | | |
| | | | | | | | | | | an | ADD | | |
| | exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right | | | | | | | | | | | 8. OF | ALC: NIC |
| | exposed;C-C for members and forces & MWFRS for | | | | | | | | | | | ATEOF | -so th |
| | shown: Lumber DOI - | | | | | | | | | 6 | AN IN | N.S.Y | |

- reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: Joint 7 SP No.2 crushing capacity of 565 psi.
- 6) Refer to girder(s) for truss to truss connections.

SCOTT M. SEVIER NUMBER PE-2001018807

October 2,2024

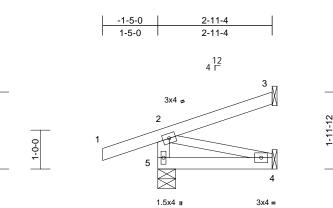


RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELORMENT SERVICES LEE'S'SUMMIT'S MISSOURI 10/28/2024 10:57:49

| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P240988-01 | J16 | Jack-Open | 4 | 1 | Job Reference (optional) | 168602455 |

1-11-12

Run: 8,63 S Jul 12 2024 Print: 8,630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:35 ID:GPHjoSJwP5pFJbaL6yt0x1zeDQD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



3x4 =



Scale = 1:29.6

| | | 1 | | | | _ | | | | | | | |
|---|---|------------------------|-------|---------------|-------------------|--------------|-----------------|-------|-------|--------|-----|---------------|----------|
| Loading | (psf) | Spacing | 2-0-0 | | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | | TC | 0.24 | Vert(LL) | 0.00 | 4-5 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.10 | Vert(CT) | -0.01 | 4-5 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | | WB | 0.04 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC20 | 18/TPI2014 | Matrix-P | | | | | | | Weight: 14 lb | FT = 20% |
| LUMBER | | | 6 |) Provide mec | hanical connect | ion (by oth | ers) of truss | to | | | | | |
| TOP CHORD | 2x4 SP No.2 | | | | capable of with | | | | | | | | |
| BOT CHORD | 2x4 SP No.2 | | | 3. | | J | | | | | | | |
| WEBS | 2x4 SP No.2 *Excep | t* 4-2:2x3 SPF No.2 | 2 7 |) One H2.5T S | Simpson Strong- | Tie connec | ctors | | | | | | |
| BRACING | 2/1 0/ 110/2 2/000 | | - | recommende | ed to connect tru | iss to beari | ng walls due | e to | | | | | |
| TOP CHORD | Structural wood she | athing directly applie | ad or | UPLIFT at jt(| s) 5 and 4. This | connection | n is for uplift | only | | | | | |
| | 2-11-4 oc purlins, e | | 50 01 | and does no | t consider latera | l forces. | | | | | | | |
| BOT CHORD | Rigid ceiling directly | | . 8 | | designed in acc | | | | | | | | |
| Bor onore | bracing. | | 0 | | Residential Co | | | and | | | | | |
| REACTIONS | • | inical, 4= Mechanica | al | R802.10.2 a | nd referenced st | tandard AN | ISI/TPI 1. | | | | | | |
| REAGNONG | (312C) 0= MCCINE 5=0-5-8 | | "', L | OAD CASE(S) | Standard | | | | | | | | |
| | Max Horiz 5=57 (LC | 8) | | | | | | | | | | | |
| | Max Uplift 3=-37 (LC | - / | | | | | | | | | | | |
| | Max Grav 3=64 (LC | | 264 | | | | | | | | | | |
| | (LC 1) | .), (20 0), | | | | | | | | | | | |
| FORCES | (lb) - Maximum Corr | pression/Maximum | | | | | | | | | | | |
| | Tension | • | | | | | | | | | | | |
| TOP CHORD | 2-5=-236/264, 1-2=0 |)/35, 2-3=-40/23 | | | | | | | | | | | |
| BOT CHORD | 4-5=-142/31 | | | | | | | | | | | | |
| WEBS | 2-4=-32/147 | | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | | |
| 1) Wind: ASC | CE 7-16; Vult=115mph | (3-second aust) | | | | | | | | | | | |
| Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; | | | | | | | | | | | | | |
| | Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) | | | | | | | | | | | | |
| | one and C-C Exterior(2 | | | | | | | | | | | COOL | Jan |
| | exposed ; end vertical | | | | | | | | | | | OF I | ALSO D |
| exposed;C | C-C for members and f | orces & MWFRS for | | | | | | | | 1 | 750 | MISSO | |

- 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. * This truss has been designed for a live load of 20.0psf 3)
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Bearings are assumed to be: , Joint 5 SP No.2 crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.





E

October 2,2024

SCOTT M.

SEVIER

MBER

PE-2001018807

SIONAL

| Job | Truss | Truss Type Qt | | Ply | Roof - HT Lot 180 | |
|------------|-------|-----------------|---|-----|--------------------------|-----------|
| P240988-01 | J18 | Half Hip Girder | 2 | 1 | Job Reference (optional) | 168602456 |

-1-5-0

1-5-0

1-8-0

2-0-0

2-0-0

12 4 Г

3x4 🚦 2

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S. Jul 12 2024 Print: 8.630 S. Jul 12 2024 MiTek Industries. Inc. Tue Oct 01 11:25:35 ID:B20vsS3NPLsGVEHwG3RjVOzeDLN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-8-0

2-11-4

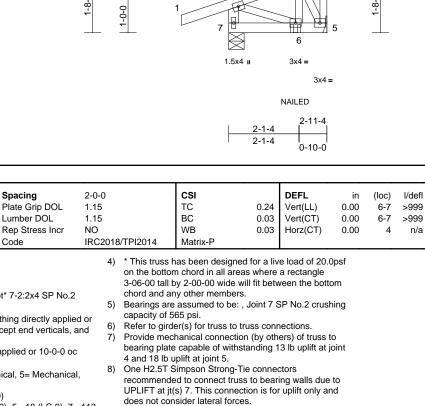
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3x6 II

NAILED

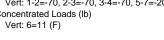
4x8 = 3

Page: 1



igned in accordance with the 2018 sidential Code sections R502.11.1 and eferenced standard ANSI/TPI 1.

- representation does not depict the size n of the purlin along the top and/or
- side of top chord bearing and first cal web shall not exceed 0.500in.
- tes 3-10d (0.148"x3") or 2-12d pe-nails per NDS guidlines.
- SE(S) section, loads applied to the face noted as front (F) or back (B).
- andard
- Dead + Roof Live (balanced): Lumber Increase=1.15, 1) Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-2=-70, 2-3=-70, 3-4=-70, 5-7=-20 Concentrated Loads (lb)





DEVELORMENTOSERVICES LEE'S'SUMMIT'SMISSOURI 10/28/2024 10:57:49

TION

PLATES

Weight: 16 lb

MT20

240

180

n/a

GRIP

197/144

FT = 20%

 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponent.com)

Scale = 1:34.5

Loading

TCDL

TCLL (roof)

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

(psf)

25.0

10.0

| BCLL | | | 0.0* | Rep Stress Incr | NO | | WE |
|---|--------------------|---|--|---|----------------------|---|--|
| BCDL | | | 10.0 | Code | IRC20 | 18/TPI2014 | Ма |
| LUMBE TOP CH BOT CH WEBS BRACII TOP CH | HORD HORD NG | Structural 2-11-4 oc | o.2 No.2 *Exce I wood shea | pt* 7-2:2x4 SP No.2 athing directly applie ccept end verticals, a | 5 dor and 6 | * This truss h on the bottor 3-06-00 tall b chord and ar Bearings are capacity of 5 Refer to girde Provide mec | m chơ by 2-0 ny oth e assi 65 p: er(s) hanic |
| BOT CH | HORD | Rigid ceil bracing. | ing directly | applied or 10-0-0 oc | | bearing plate 4 and 18 lb u 3) One H2.5T S | Iplift |
| REACT | IONS | (size) Max Horiz Max Uplift Max Grav | 7=0-5-8 7=73 (LC 4=-13 (LC (LC 8) | nical, 5= Mechanica 9) 9), 5=-18 (LC 9), 7= 1), 5=65 (LC 3), 7=2 | ı, ⊧-113 g :59 | One H2.5T S recommende UPLIFT at jt(does not con This truss is International R802.10.2 at Graphical pu | ed to (s) 7. Iside desig Resi nd re |
| FORCE | S | (lb) - Max Tension | imum Com | pression/Maximum | I | or the orienta bottom chorc | ation |
| TOP CH | HORD | 1-2=0/35, 2-7=-241/ | | 7, 3-4=-28/31, 4-5=0 | /0, 1 | Gap between diagonal or v | n insi |
| BOT CH WEBS NOTES | | | /66, 5-6=-6 '9, 2-6=-7/1 | 1/67 16, 3-6=-9/59 | | 2) "NAILED" ind (0.148"x3.25 3) In the LOAD | dicate 5") toe |
| 1) Win Vas | nd: AS d=91n | nph; TCDL= | 6.0psf; BC | (3-second gust) DL=6.0psf; h=35ft; d: MWERS (opvolop | L | of the truss a | are no Sta |

- Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding. 2)
- This truss has been designed for a 10.0 psf bottom 3) chord live load nonconcurrent with any other live loads.

L/d

| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P240988-01 | J19 | Jack-Open | 3 | 1 | Job Reference (optional) | 168602457 |

-1-5-0

1-5-0

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

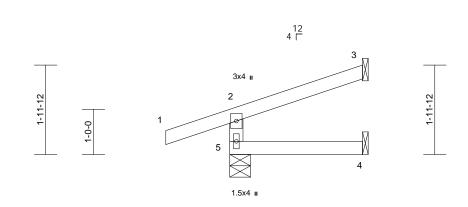
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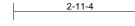
2-11-4

2-11-4



. ...





Scale = 1:25.5

| 3cale = 1.23.3 | | | | | | | | | | | | | |
|---|---|---|--|---|---|--|---|-----------------------------|--------------------------|-------------------------------|--------------------------|--|------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 NO IRC2018 | 8/TPI2014 | CSI TC BC WB Matrix-R | 0.24 0.10 0.00 | DEFL Vert(LL) Vert(CT) Horz(CT) | in 0.00 -0.01 0.01 | (loc) 4-5 4-5 3 | l/defl >999 >999 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 12 lb | GRIP 244/190 FT = 20% |
| | 2x4 SP No.2 Structural wood she 2-11-4 oc purlins, e Rigid ceiling directly bracing. | xcept end verticals. applied or 10-0-0 oc anical, 4= Mechanica 8) C 12), 5=-98 (LC 8) | c 8) ^{al,} LC | bearing plat 3. One H2.5T 3 recommend UPLIFT at jt does not con This truss is Internationa | chanical connectic e capable of withs Simpson Strong-T ed to connect trus (s) 5. This connect nsider lateral force designed in acco I Residential Code and referenced sta) Standard | standing 4 Fie connectss to beari ction is for es. ordance w e sections | 3 lb uplift at ctors ng walls due uplift only a ith the 2018 R502.11.1 a | joint e to nd | | | | | |
| Vasd=91m Ke=1.00; C exterior zo and right e exposed;C | CE 7-16; Vult=115mph hph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 exposed ; end vertical I -C for members and f shown; Lumber DOL= |))/35, 2-3=-44/22) (3-second gust) :DL=6.0psf; h=35ft; id; MWFRS (envelop :E) zone; cantilever I left and right orces & MWFRS for | eft | | | | | | | | | TATE OF | MISSOL |

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

- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 5 SP No.2 crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 **ANSITPTI Quality Criteria**, and **DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)





| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|---------------------------|-----|-----|--------------------------|-----------|
| P240988-01 | M01 | Monopitch Supported Gable | 2 | 1 | Job Reference (optional) | 168602458 |

4-5-8

4-5-8

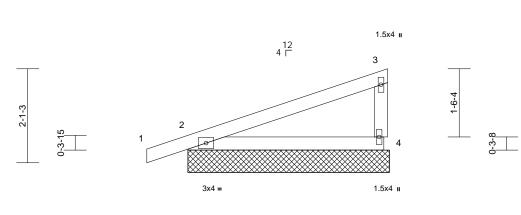
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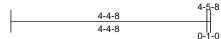
0-11-0

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:35 ID:cquXHAJnb2z8dlhvV3xNnzzeCKV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1







Scale = 1:25.7

chord and any other members.

| | | | | _ | | | | | | | | |
|--|--|---|---|--|---|--|------|-------|--------|------|-------------------------------|--------------------|
| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.51 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.25 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.00 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 16 lb | FT = 20% |
| | Max Horiz 2=76 (LC | applied or 10-0-0 or 4=4-6-0 9) | capacity o 8) Provide m bearing pl 4 and 85 1 ed or 9) Beveled p surface wi c 10) This truss Internation | echanical connection ate capable of withs o uplift at joint 2. late or shim require th truss chord at joi is designed in accor- nal Residential Code and referenced sta | on (by oth standing 4 ed to provi int(s) 2. ordance w e sections | ers) of truss to 15 lb uplift at join de full bearing ith the 2018 5 R502.11.1 and | | | | | | |
| | Max Uplift 2=-85 (LC | | | | | | | | | | | |
| FORCES | Max Grav 2=265 (Lo (lb) - Maximum Con | | | | | | | | | | | |
| FURGES | (ID) - Maximum Con Tension | ipression/iviaximum | | | | | | | | | | |
| TOP CHORD | 1-2=0/19, 2-3=-112/ | 68, 3-4=-144/238 | | | | | | | | | | |
| BOT CHORD | 2-4=-30/40 | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | |
| Vasd=91m Ke=1.00; C exterior zo and right e exposed;C | CE 7-16; Vult=115mph rph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose ne and C-C Corner(3) exposed ; end vertical C-C for members and f hown; Lumber DOL= | CDL=6.0psf; h=35ft; ed; MWFRS (envelop E) zone; cantilever le left and right forces & MWFRS for | eft | | | | | | | | 55 OF | MIS |
| Truss desi only. For s see Stand or consult Gable requ Gable stud This truss chord live * This truss | gned for wind loads ir studs exposed to wind ard Industry Gable En qualified building desi uires continuous botto ds spaced at 2-0-0 oc. has been designed fo load nonconcurrent w s has been designed f | I (normal to the face d Details as applical gner as per ANSI/TF m chord bearing. r a 10.0 psf bottom ith any other live loa for a live load of 20.0 |), ble, PI 1. ds. | | | | | | > | SPC. | SCOT SEV NUM PE-2001 | I M. HER BER |
| on the bott 3-06-00 ta | tom chord in all areas Il by 2-00-00 wide will | where a rectangle | | | | | | | | Ŷ | | LENGI |

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 oulgase with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TPI1 Quality Criteria, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

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October 2,2024

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| Job | Truss | Truss Type | Qty | Ply | Roof - HT Lot 180 | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| P240988-01 | M02 | Monopitch | 7 | 1 | Job Reference (optional) | 168602459 |

4-5-8

4-5-8

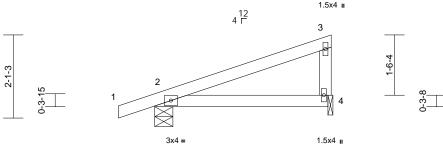
-0-11-0

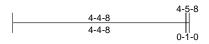
0-11-0

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Oct 01 11:25:36 ID:KTzupnDOFu58HEfZb5Jk?VzeCKc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1







Scale = 1:29.1

| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 NO IRC2018/TF | T(B) W | С | 0.37 0.22 0.00 | DEFL Vert(LL) Vert(CT) Horz(CT) | in -0.02 -0.03 0.00 | (loc) 2-4 2-4 4 | l/defl >999 >999 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 16 lb | GRIP 197/144 FT = 20% |
|---|---|---|---|--|---|---|---|------------------------------|--------------------------|-------------------------------|--------------------------|---------------------------------|------------------------------------|
| | 10.0 | oude | | | | | | | | | | Weight. To ib | 11 - 2070 |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD | 2x4 SP No.2 2x4 SPF No.3 Structural wood she 4-6-0 oc purlins, ex | cept end verticals. | bi 7) O re U ed or ai ed or 8) Ti c In R | earing plate at the H2.5T Simp ecommended to PLIFT at jt(s) 2 and does not co his truss is des iternational Re 802.10.2 and r | oson Strong-Tie o connect truss to 2 and 4. This con nsider lateral for igned in accorda sidential Code se referenced stand | connec o bear inection ces. ance w ections | ctors ng walls due n is for uplift ith the 2018 R502.11.1 a | e to only | | | | | |
| REACTIONS | (size) 2=0-5-8, 4 Max Horiz 2=76 (LC Max Uplift 2=-95 (LC Max Grav 2=275 (LC | 9) 2 8), 4=-42 (LC 12) | LOAD | D CASE(S) S | tandard | | | | | | | | |
| FORCES | (lb) - Maximum Com | pression/Maximum | | | | | | | | | | | |
| TOP CHORD BOT CHORD | | 60, 3-4=-132/193 | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | | |
| Vasd=91n Ke=1.00; exterior zo and right e exposed;0 | CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Cat. II; Exp C; Enclose one and C-C Exterior(2 exposed ; end vertical I C-C for members and f shown; Lumber DOL=' | DL=6.0psf; h=35ft; d; MWFRS (envelop E) zone; cantilever left and right orces & MWFRS for | left | | | | | | | | | TATE OF J | MIS |
| 2) This truss | has been designed for | | | | | | | | | | 1 | TE | NOSCHER STREEM |
| This trus on the bot 3-06-00 ta chord and | load nonconcurrent wi ss has been designed f ttom chord in all areas all by 2-00-00 wide will d any other members. | or a live load of 20.0 where a rectangle fit between the botto |)psf om | | | | | | | | A T | SCOT SEV | |
| | are assumed to be: Joi of 565 psi, Joint 4 SPF i. | | | | | | | | | | R. | PE-2001 | 018807 |

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

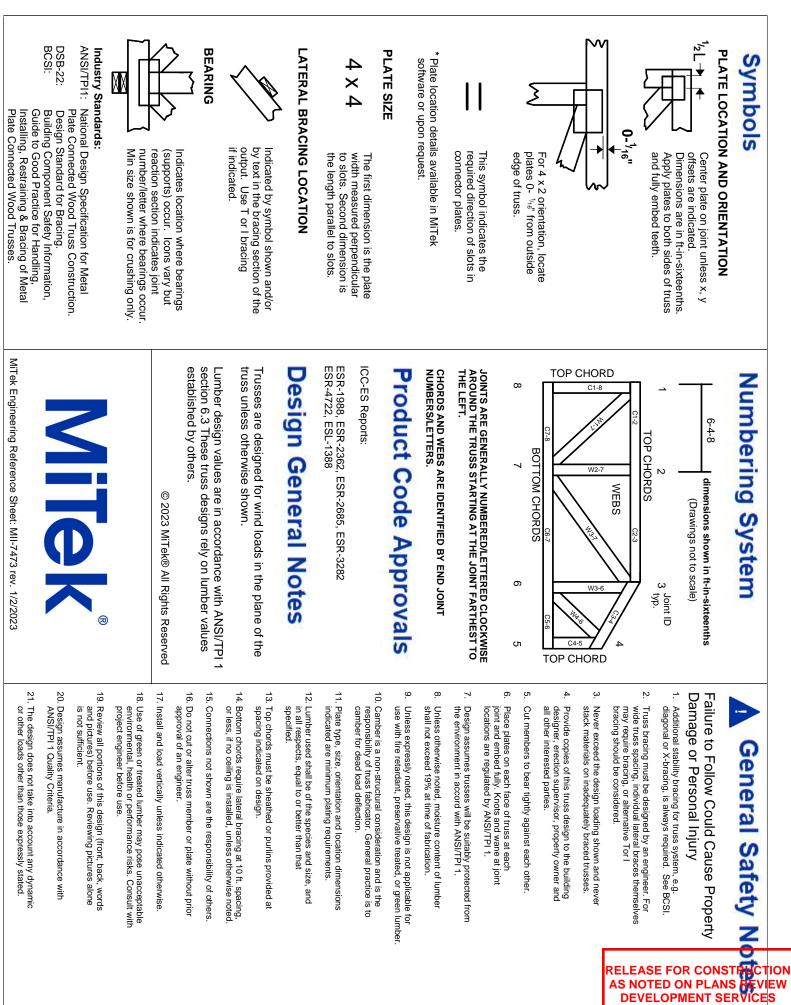
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 colleges with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



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October 2,2024

SIONAL



ASE FOR CONST **OTED ON PLANS** VELOPMENT SER LEE'S SUMMIT, MISSOURI

10:57:49

10/28/2024

. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.

15. Connections not shown are the responsibility of others

Do not cut or alter truss member or plate without prior approval of an engineer.

 Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with

19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone

20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

21. The design does not take into account any dynamic or other loads other than those expressly stated.