

RE: B220065 Lot 149 CB

Site Information:

Customer: Project Name: B220065 Lot/Block: Address: City:

Model: Subdivision: State:

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

Design Code: IRC2012/TPI2007 Wind Code: Roof Load: 45.0 psf Design Program: MiTek 20/20 8.4 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 29 individual, dated Truss Design Drawings and 0 Additional Drawings.

| No. | Seal# | Truss Name | Date | No. | Seal# | Truss Name | Date |
|-----|-----------|------------|----------|-----|-----------|------------|----------|
| 1 | 150049365 | A1 | 2/4/2022 | 21 | 150049385 | J1 | 2/4/2022 |
| 2 | 150049366 | A2 | 2/4/2022 | 22 | 150049386 | J2 | 2/4/2022 |
| 3 | 150049367 | A3 | 2/4/2022 | 23 | 150049387 | V1 | 2/4/2022 |
| 4 | 150049368 | A4 | 2/4/2022 | 24 | 150049388 | V2 | 2/4/2022 |
| 5 | 150049369 | A5 | 2/4/2022 | 25 | 150049389 | V3 | 2/4/2022 |
| 6 | 150049370 | A6 | 2/4/2022 | 26 | 150049390 | V4 | 2/4/2022 |
| 7 | 150049371 | A7 | 2/4/2022 | 27 | 150049391 | V5 | 2/4/2022 |
| 8 | 150049372 | A8 | 2/4/2022 | 28 | 150049392 | V6 | 2/4/2022 |
| 9 | 150049373 | A9 | 2/4/2022 | 29 | 150049393 | V7 | 2/4/2022 |
| 10 | 150049374 | A10 | 2/4/2022 | | | | |
| 11 | 150049375 | A11 | 2/4/2022 | | | | |
| 12 | 150049376 | A12 | 2/4/2022 | | | | |
| 13 | 150049377 | A13 | 2/4/2022 | | | | |
| 14 | 150049378 | A14 | 2/4/2022 | | | | |
| 15 | 150049379 | B1 | 2/4/2022 | | | | |
| 16 | 150049380 | C1 | 2/4/2022 | | | | |
| 17 | 150049381 | D1 | 2/4/2022 | | | | |
| 18 | 150049382 | D2 | 2/4/2022 | | | | |
| 19 | 150049383 | E1 | 2/4/2022 | | | | |
| 20 | 150049384 | E2 | 2/4/2022 | | | | |
| | | | | | | | |

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc under my direct supervision

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Sevier, Scott

My license renewal date for the state of Missouri is December 31, 2023. 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.



Development Services E'S SUMMIT, MISSOURI

> MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

| Job | Truss | Truss Type | Qty | Ply | Lot 149 CB | | | |
|---------|-------|------------------------|-----|-----|--------------------------|-----------|--|--|
| B220065 | A1 | Common Supported Gable | 1 | 1 | Job Reference (optional) | 150049365 | | |

14-0-0

14-0-0

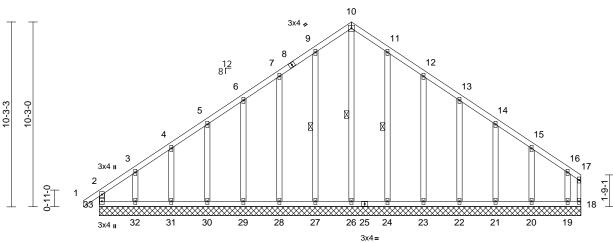
Wheeler Lumber, Waverly, KS - 66871,

-0-10-8 0-10-8

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Feb 03 10:04:03 ID:ndaavQMNG9iZBi8toqa2fnzuPP9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

26-8-14 12-8-14 4x4= 10 9 11



| Scale = $1:64$ |
|----------------|
|----------------|

| 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 | 0.14 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | | 10.0 | Lumber DOL | 1.15 | | BC | 0.10 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | | 0.0* | Rep Stress Incr | YES | | WB | 0.14 | Horiz(TL) | 0.00 | 18 | n/a | n/a | | |
| BCDL | | 10.0 | Code | IRC201 | 2/TPI2007 | Matrix-R | | | | | | | Weight: 150 lb | FT = 10% |
| LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD WEBS REACTIONS | 2x4 SPF No 2x4 SPF No 2x4 SPF No Structural w 6-0-0 oc puu Rigid ceiling bracing. 1 Row at mi (lb/size) 1 (lb/size) 1 2 2 2 2 3 3 Max Horiz 3 Max Uplift 1 2 2 2 2 3 3 Max Uplift 1 2 2 2 3 3 Max Grav 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 | pt* 17-18:2x3 SPF N athing directly applied cept end verticals. applied or 10-0-0 oc 10-26, 9-27, 11-24 8-14, 19=140/26-8-14 6-8-14, 23=179/26-8- 6-8-14, 28=179/26-8- 6-8-14, 28=179/26-8- 6-8-14, 30=179/26-8- 6-8-14, 30=179/26-8- 6-8-14, 32=163/26-8- 6-8-14, 32=164/26-8- 9, 21=-75 (LC 8), 28=-75 (LC 8), C 8), 32=-164 (LC 8) | o.2 d or B , W 14, W 14, 14, 14, 14, 14, 11, 14, N (), 2) , 3) (6), 4) 5), 5 | OP CHORD OT CHORD /EBS /Unbalanced this design.) Wind: ASCI (IRC2012)= Cat. II; Exp zone; cantil and right ex DOL=1.60) Truss desig only. For si see Standa or consult q All plates an Gable requi | 2-33=-242/168, 1 3-4=-234/229, 4-5 6-7=-186/269, 7-5 10-11=-129/326, 12-13=-87/198, 1 14-15=-52/96, 15 17-18=-79/52 32-33=-59/59, 28 26-27=-59/59, 24 22-23=-59/59, 21 19-20=-59/59, 18 10-26=-308/94, 9 6-29=-147/92, 5-5 3-32=-185/144, 1 12-23=-147/101, 14-21=-146/93, 1 16-19=-147/122 | 5=-224/23 =-169/30 11-12=-11 3-14=-69/5 -16=-49/5 -32=-59/5 -26=-59/5 -22=-59/5 | 2-3=-289/275, 12, 5-6=-202/2 19, 9-10=-146, 06/268, (134, 18, 16-17=-84, 19, 30-31=-59, 19, 27-28=-59, 19, 27-28=-59, 19, 27-28=-59, 19, 20-21=-59, 19, 20-21=-59, | 232, /338, /50, /59, /59, /59, /59, /59, /83, r 225ft; r left ss), ole, PI 1. | on t 3-00 cho 10) Pro bea join Ib u join Ib u join | he botto 5-00 tall rd and a vide me ring plat t 33, 11 ⁻¹ plift at jo t 29, 75 plift at jo t 23, 68 plift at jo | m chc by 2-C hy oth chanic chan chan chan chan chan chan chan cha | een designed for ord in all areas wh)00-00 wide will fit l er members. cal connection (by able of withstandi lift at joint 18, 54 , 75 Ib uplift at join ft at joint 30, 48 lb , 57 Ib uplift at join ft at joint 22, 70 lb and 153 Ib uplift | a live load of 20.0psf ere a rectangle between the bottom others) of truss to ng 201 lb uplift at lb uplift at joint 26, 62 nt 28, 68 lb uplift at o uplift at joint 31, 164 nt 24, 77 lb uplift at o uplift at joint 21, 70 at joint 19. |
| FORCES | 3 3 | 1=184 (L 3=294 (L | C 1), 32=267 (LC 15 | |) Gable studs) This truss h | inst lateral movem s spaced at 2-0-0 o las been designed bad nonconcurrent | oc. for a 10.0 |) psf bottom | | | | AN IN | PE-2001 | LENGING |

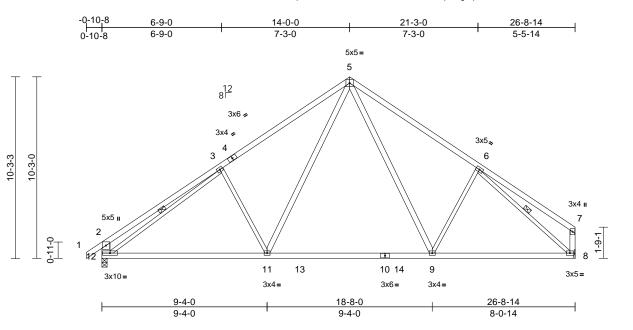
February 4,2022



| Job | Truss | s Truss Type Qt | | Ply | Lot 149 CB | |
|---------|-------|-----------------|---|-----|--------------------------|-----------|
| B220065 | A2 | Common | 2 | 1 | Job Reference (optional) | 150049366 |

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Thu Feb 03 10:04:05 ID:4zVDNqSmcIaaXnBDioChSFzuPP2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



| Loading (ps | sf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|----------------|------|-----------------|-----------------|----------|------|-----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) 25 | 5.0 | Plate Grip DOL | 1.15 | TC | 0.71 | Vert(LL) | -0.30 | 9-11 | >999 | 360 | MT20 | 197/144 |
| TCDL 10 | 0.0 | Lumber DOL | 1.15 | BC | 0.46 | Vert(TL) | -0.47 | 9-11 | >676 | 240 | | |
| BCLL 0 | 0.0* | Rep Stress Incr | YES | WB | 0.66 | Horiz(TL) | 0.04 | 8 | n/a | n/a | | |
| BCDL 10 | 0.0 | Code | IRC2012/TPI2007 | Matrix-S | | Wind(LL) | 0.04 | 9-11 | >999 | 240 | Weight: 117 lb | FT = 10% |

| LU | М | в | Е | R | |
|----|---|---|---|---|--|
| | | | | | |

Scale = 1:65.1

| TOP CHORD | 2x4 SPF No.2 | | | | | | | | |
|-----------|--|--|--|--|--|--|--|--|--|
| BOT CHORD | 2x4 SPF 2100F 1.8E | | | | | | | | |
| WEBS | 2x3 SPF No.2 *Except* 11-5,9-5,8-7:2x4 SPF | | | | | | | | |
| | No.2, 12-2:2x6 SPF No.2 | | | | | | | | |
| BRACING | | | | | | | | | |
| TOP CHORD | Structural wood sheathing directly applied or | | | | | | | | |
| | 2-2-0 oc purlins, except end verticals. | | | | | | | | |
| BOT CHORD | CHORD Rigid ceiling directly applied or 10-0-0 oc | | | | | | | | |
| | bracing. | | | | | | | | |
| WEBS | 1 Row at midpt 3-12, 6-8 | | | | | | | | |
| REACTIONS | (lb/size) 8=1185/ Mechanical, | | | | | | | | |
| | 12=1265/0-3-8 | | | | | | | | |
| | | | | | | | | | |
| | Max Horiz 12=292 (LC 5) | | | | | | | | |
| | Max Horiz 12=292 (LC 5) Max Uplift 8=-128 (LC 9), 12=-161 (LC 8) | | | | | | | | |
| FORCES | · · · · · | | | | | | | | |
| FORCES | Max Uplift 8=-128 (LC 9), 12=-161 (LC 8) | | | | | | | | |
| FORCES | Max Uplift 8=-128 (LC 9), 12=-161 (LC 8) (lb) - Maximum Compression/Maximum Tension | | | | | | | | |
| | Max Uplift 8=-128 (LC 9), 12=-161 (LC 8) (Ib) - Maximum Compression/Maximum Tension | | | | | | | | |
| | Max Uplift 8=-128 (LC 9), 12=-161 (LC 8) (lb) - Maximum Compression/Maximum Tension 1-2=0/43, 2-3=-593/218, 3-5=-1394/291, | | | | | | | | |
| | Max Uplift 8=-128 (LC 9), 12=-161 (LC 8) (lb) - Maximum Compression/Maximum Tension 1-2=0/43, 2-3=-593/218, 3-5=-1394/291, 5-6=-1306/272, 6-7=-178/73, 2-12=-556/215, 7-8=-198/81 | | | | | | | | |
| TOP CHORD | Max Uplift 8=-128 (LC 9), 12=-161 (LC 8) (lb) - Maximum Compression/Maximum Tension 1-2=0/43, 2-3=-593/218, 3-5=-1394/291, 5-6=-1306/272, 6-7=-178/73, 2-12=-556/215, 7-8=-198/81 | | | | | | | | |
| TOP CHORD | Max Uplift 8=-128 (LC 9), 12=-161 (LC 8) (lb) - Maximum Compression/Maximum Tension 1-2=0/43, 2-3=-593/218, 3-5=-1394/291, 5-6=-1306/272, 6-7=-178/73, 2-12=-556/215, 7-8=-198/81 11-12=-227/1338, 9-11=-17/868, | | | | | | | | |
| TOP CHORD | Max Uplift 8=-128 (LC 9), 12=-161 (LC 8) (lb) - Maximum Compression/Maximum Tension 1-2=0/43, 2-3=-593/218, 3-5=-1394/291, 5-6=-1306/272, 6-7=-178/73, 2-12=-556/215, 7-8=-198/81 11-12=-227/1338, 9-11=-17/868, 8-9=-103/1041 | | | | | | | | |
| TOP CHORD | Max Uplift 8=-128 (LC 9), 12=-161 (LC 8) (lb) - Maximum Compression/Maximum Tension 1-2=0/43, 2-3=-593/218, 3-5=-1394/291, 5-6=-1306/272, 6-7=-178/73, 2-12=-556/215, 7-8=-198/81 11-12=-227/1338, 9-11=-17/868, 8-9=-103/1041 3-11=-378/302, 5-11=-165/691, | | | | | | | | |

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V 2) (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 3) chord live load nonconcurrent with any other live loads.

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. Refer to girder(s) for truss to truss connections. 5)

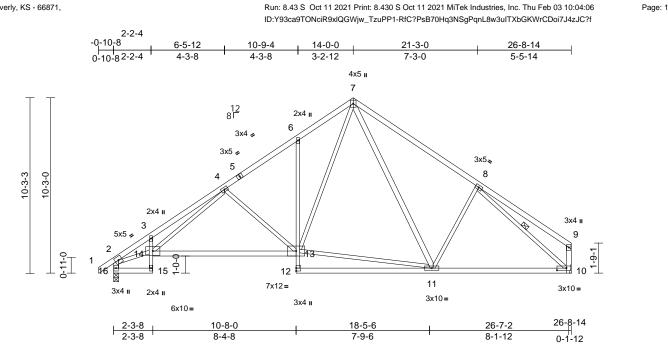
Provide mechanical connection (by others) of truss to 6) bearing plate capable of withstanding 161 lb uplift at joint 12 and 128 lb uplift at joint 8.

LOAD CASE(S) Standard



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | Lot 149 CB | |
|---------|-------|--------------|-----|-----|--------------------------|-----------|
| B220065 | A3 | Roof Special | 4 | 1 | Job Reference (optional) | 150049367 |



Scale = 1:67.3 Plate Offsets (X, Y): [10:0-6-8,0-1-8]

| | ,, ,, ,, [10.0 0 0,0 1 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 YES IRC201 | 2/TPI2007 | CSI TC BC WB Matrix-S | 0.73 0.58 0.67 | DEFL Vert(LL) Vert(TL) Horiz(TL) Wind(LL) | in -0.18 -0.51 0.15 0.09 | (loc) 13-14 13-14 10 13-14 | l/defl >999 >619 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 125 lb | GRIP 197/144 FT = 10% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD | SPF No.2 Structural wood she 2-2-0 oc purlins, ex | 2100F 1.8E pt* 11-7,16-2,10-9:2; athing directly applie | x4 3) d or 4) | (IRC2012)=9 Cat. II; Exp C zone; cantile and right exp DOL=1.60 This truss ha chord live loa * This truss f on the bottor | 7-10; Vult=115mp 11mph; TCDL=6.0; C; Enclosed; MWF ver left and right e bosed; Lumber DO as been designed f ad nonconcurrent v has been designed n chord in all areas by 2-00-00 wide wi | osf; BCE RS (env xposed L=1.60 or a 10. with any l for a liv s where | DL=6.0psf; h= elope) exterical plate grip 0 psf bottom other live loa re load of 20.0 a rectangle | or left ds. Dpsf | | | | | |
| | 6-0-0 oc bracing: 11 1 Row at midpt (Ib/size) 10=1189/ 16=1263/ Max Horiz 16=291 (I Max Uplift 10=-128 (| Ing. Except. chord and any other members. 0 oc bracing: 11-12. chord and any other members. 0 oc bracing: 11-12. 5) w at midpt 8-10 e) 10=1189/ Mechanical, 16=1263/0-3-8 ioint 16 and 128 by uplift at ioint 10 | | | | | | | | | | | |
| FORCES | (lb) - Maximum Com Tension | pression/Maximum | | | | | | | | | | | |
| TOP CHORD | 1-2=0/40, 2-3=-2454 4-6=-1454/233, 6-7= 7-8=-1303/270, 8-9= 2-16=-1242/197, 9-1 | -193/71, | ., | | | | | | | | | | |
| BOT CHORD | 15-16=-97/130, 14-1 3-14=-242/158, 13-1 12-13=0/132, 6-13=- 10-11=-103/1047 | | 18, | | | | | | | | | STATE OF M | AISSOLA |
| WEBS | 4-13=-483/232, 4-14 7-13=-251/873, 7-11 8-11=-251/270, 2-14 8-10=-1336/128 | | 834, | | | | | | | | K | S SCOT | |
| NOTES | | | | | | | | | | | 2-0 | NUM | BER A |
| Unbalance this design | ed roof live loads have n. | been considered for | | | | | | | | | N. | PE-2001 | |

this design.

February 4,2022

BSSIONAL ET

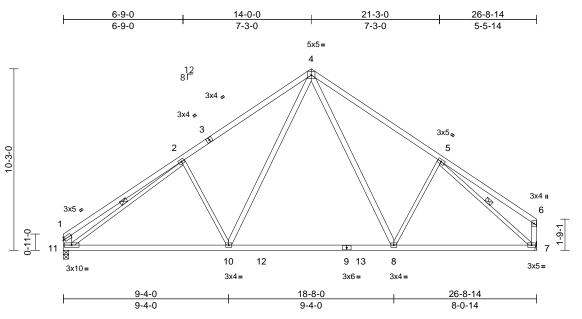


| Job | Truss | Truss Type | Qty | Ply | Lot 149 CB | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B220065 | A4 | Common | 1 | 1 | Job Reference (optional) | 150049368 |

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Thu Feb 03 10:04:06 ID:0Ld_oVT18wqIm4KcqDE9XgzuPP0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

21-3-0 26-8-14 7-3-0 5-5-14

Page: 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 | 0.70 | Vert(LL) | -0.30 | 8-10 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.46 | Vert(TL) | -0.47 | 8-10 | >674 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.70 | Horiz(TL) | 0.04 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2012/TPI2007 | Matrix-S | | Wind(LL) | 0.04 | 8-10 | >999 | 240 | Weight: 115 lb | FT = 10% |

| L | U | Μ | в | Е | R |
|---|---|-----|---|---|-----|
| - | v | 141 | | - | IV. |

Scale = 1:65.1

| TOP CHORD BOT CHORD | 2x4 SPF 2100F 1.8E |
|------------------------|---|
| WEBS | 2x3 SPF No.2 *Except* 10-4,8-4,7-6:2x4 SPF No.2, 11-1:2x6 SPF No.2 |
| BRACING | |
| TOP CHORD | Structural wood sheathing directly applied or |
| | 2-2-0 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 1 Row at midpt 2-11, 5-7 |
| REACTIONS | • |
| REAGINGING | 11=1186/0-3-8 |
| | Max Horiz 11=279 (LC 5) |
| | Max Uplift 7=-128 (LC 9), 11=-136 (LC 8) |
| FORCES | (lb) - Maximum Compression/Maximum |
| | Tension |
| TOP CHORD | 1-2=-493/147, 2-4=-1402/293, |
| | 4-5=-1308/272, 5-6=-178/73, 1-11=-409/144, |
| | 6-7=-197/81 |
| BOT CHORD | 10-11=-230/1348, 8-10=-17/869, |
| | 7-8=-103/1043 |
| WEBS | 2-10=-389/306, 4-10=-168/701, |
| | 4-8=-144/526, 5-8=-243/271, 2-11=-1171/96, |
| | 5-7=-1332/125 |
| NOTES | |

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V 2) (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom 3) chord live load nonconcurrent with any other live loads.

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. Refer to girder(s) for truss to truss connections. 5)

Provide mechanical connection (by others) of truss to 6) bearing plate capable of withstanding 136 lb uplift at joint 11 and 128 lb uplift at joint 7.

LOAD CASE(S) Standard





| Job | Truss | Truss Type | Qty | Ply | Lot 149 CB | |
|---------|-------|---------------------|-----|-----|--------------------------|-----------|
| B220065 | A5 | Roof Special Girder | 1 | 1 | Job Reference (optional) | 150049369 |

Loading

TCDL

BCLL

BCDL

WEBS

WEBS

FORCES

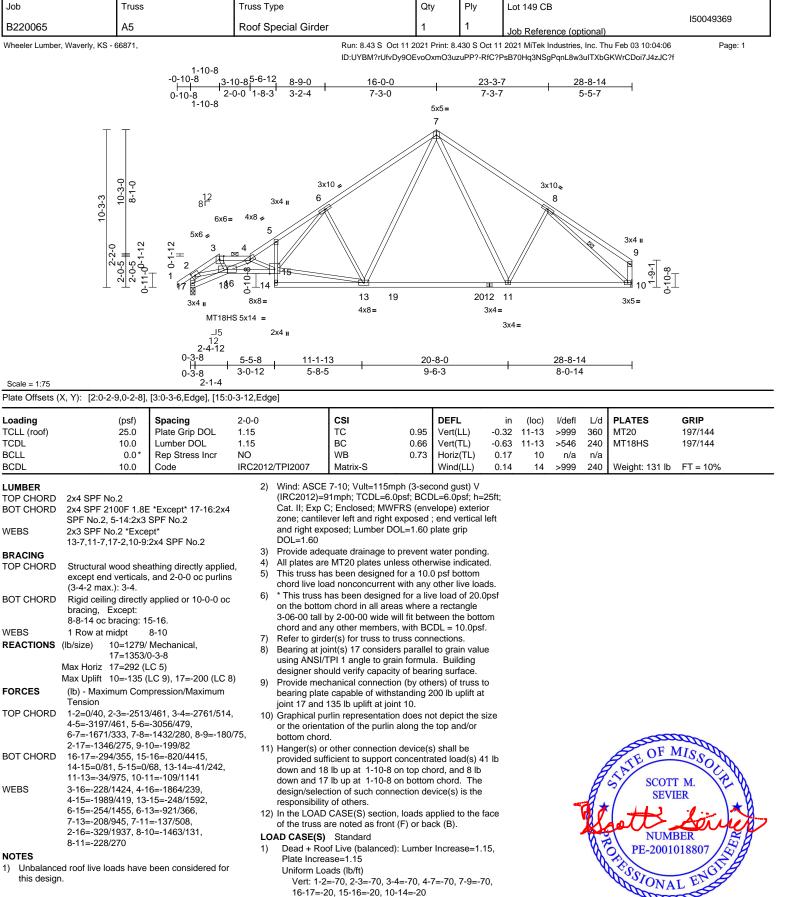
WEBS

NOTES

1)

BRACING

LUMBER



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

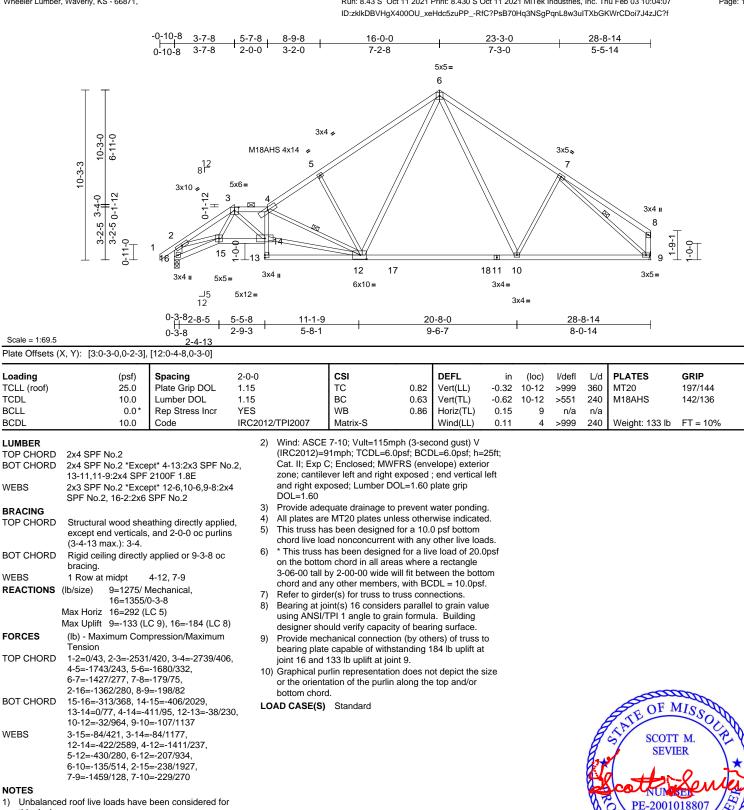
February 4,2022

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | Lot 149 CB | |
|---------|-------|--------------|-----|-----|--------------------------|-----------|
| B220065 | A6 | Roof Special | 1 | 1 | Job Reference (optional) | 150049370 |

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Thu Feb 03 10:04:07

Page: 1



1) this design.

February 4,2022

SSIONAL



| Job | Truss | Truss Type | Qty | Ply | Lot 149 CB | |
|---------|-------|--------------|-----|-----|--------------------------|-----------|
| B220065 | A7 | Roof Special | 1 | 1 | Job Reference (optional) | 150049371 |

TCDL

BCLL

BCDL

WEBS

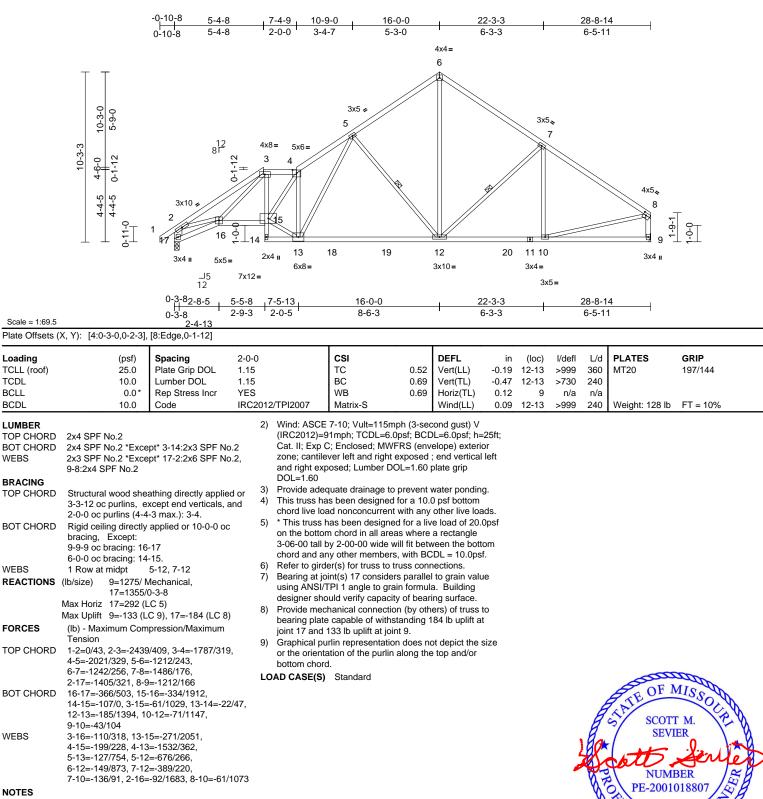
WEBS

WEBS

NOTES

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Thu Feb 03 10:04:07 ID:Rwl6QXWvRrCsdY3BVMos9JzuPOz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





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



February 4,2022

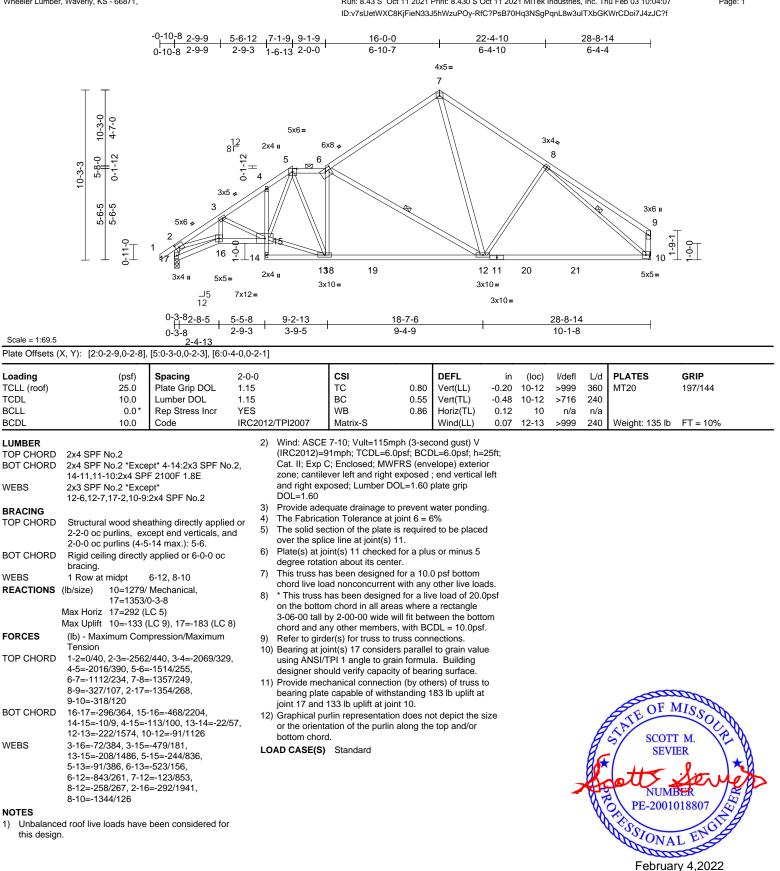
SSIONAL

| Job | Truss | Truss Type | Qty | Ply | Lot 149 CB | |
|---------|-------|--------------|-----|-----|--------------------------|-----------|
| B220065 | A8 | Roof Special | 1 | 1 | Job Reference (optional) | 150049372 |

1)

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Thu Feb 03 10:04:07

Page: 1



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 preven tbuckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses sand truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

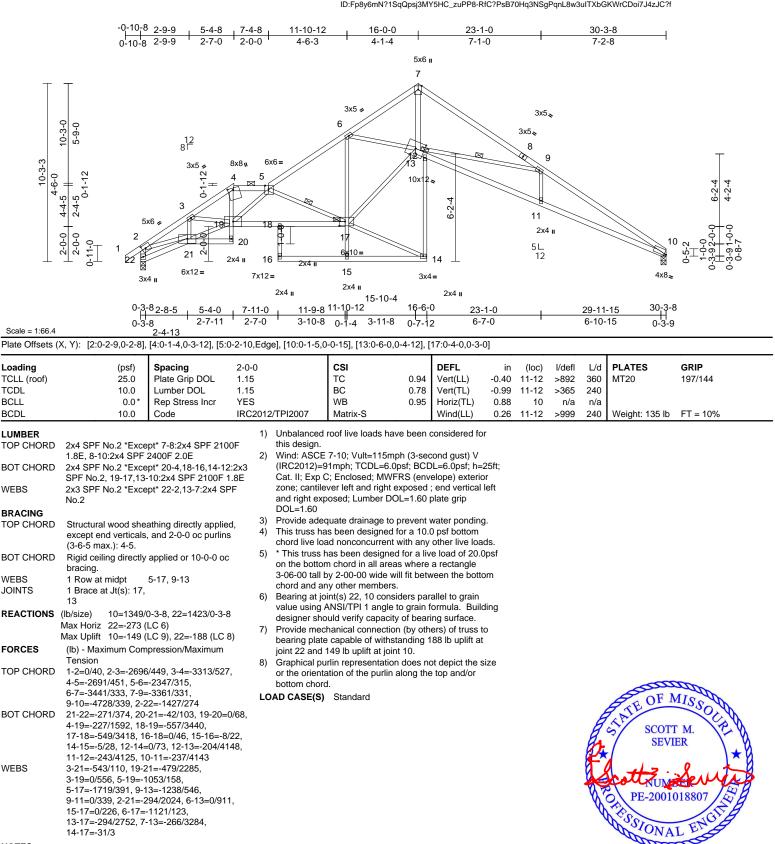
MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | Lot 149 CB | |
|---------|-------|--------------|-----|-----|--------------------------|-----------|
| B220065 | A9 | Roof Special | 1 | 1 | Job Reference (optional) | 150049373 |

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Thu Feb 03 10:04:08 ID:Fp8y6mN?1SqQpsj3MY5HC_zuPP8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Page: 1



NOTES

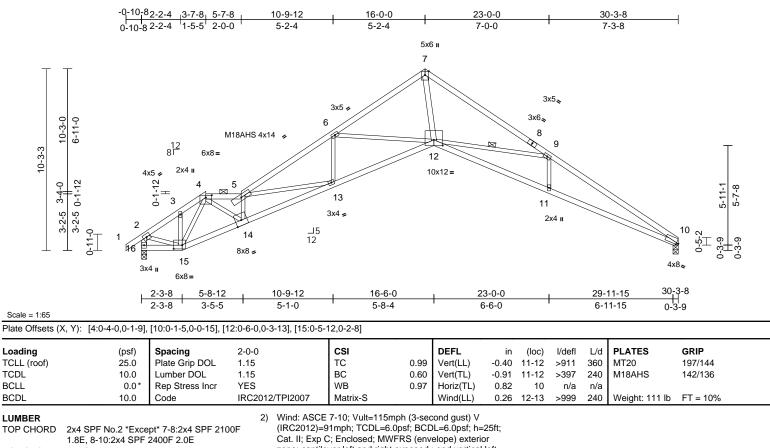
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to preven tbuckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses sand truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



February 4,2022

| Job | Truss | Truss Type | Qty | Ply | Lot 149 CB | |
|---------|-------|--------------|-----|-----|--------------------------|-----------|
| B220065 | A10 | Roof Special | 1 | 1 | Job Reference (optional) | 150049374 |

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Thu Feb 03 10:04:08 ID:Fp8y6mN?1SqQpsj3MY5HC_zuPP8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



| | 1.8E, 8-10:2x4 SPF 2400F 2.0E |
|-----------|---|
| BOT CHORD | 2x4 SPF 2100F 1.8E *Except* 16-15:2x4 SPF No.2 |
| WEBS | 2x3 SPF No.2 *Except* 12-7,16-2:2x4 SPF No.2 |
| BRACING | |
| TOP CHORD | Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-9-9 max.): 4-5. |
| BOT CHORD | Rigid ceiling directly applied or 9-5-5 oc bracing. |
| WEBS | 1 Row at midpt 9-12 |
| REACTIONS | (lb/size) 10=1349/0-3-8, 16=1423/0-3-8 |
| | Max Horiz 16=-272 (LC 6) |
| | Max Uplift 10=-149 (LC 9), 16=-188 (LC 8) |
| FORCES | (lb) - Maximum Compression/Maximum Tension |
| TOP CHORD | 1-2=0/40, 2-3=-1551/198, 3-4=-1492/248, |
| | 4-5=-4024/602, 5-6=-3995/518, |
| | 6-7=-2955/274, 7-9=-3455/328, |
| | 9-10=-4706/343, 2-16=-1396/200 |
| BOT CHORD | 15-16=-237/289, 14-15=-377/1873, |
| | 13-14=-698/4199, 12-13=-461/3546, |
| | 11-12=-242/4114, 10-11=-240/4122 |
| WEBS | 3-15=-63/76, 4-15=-1110/143, |

| | 11-12=-242/4114, 10-11=-240/4122 |
|----|---|
| BS | 3-15=-63/76, 4-15=-1110/143, |
| | 4-14=-391/2822, 5-14=-2500/413, |
| | 5-13=-628/224, 6-13=0/365, 6-12=-927/361, |
| | 7-12=-217/3049, 9-12=-1132/528, |
| | 9-11=0/306, 2-15=-121/1230 |
| | |

NOTES

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

- zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated. 4)
- This truss has been designed for a 10.0 psf bottom 5) chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 188 lb uplift at joint 16 and 149 lb uplift at joint 10.
- Graphical purlin representation does not depict the size 9) or the orientation of the purlin along the top and/or bottom chord
- LOAD CASE(S) Standard



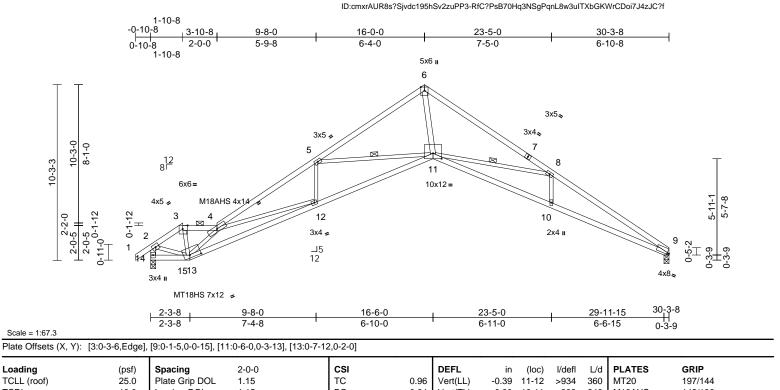
MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | Lot 149 CB | |
|---------|-------|---------------------|-----|-----|--------------------------|-----------|
| B220065 | A11 | Roof Special Girder | 1 | 1 | Job Reference (optional) | 150049375 |

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Feb 03 10:04:09

Page: 1

Wheeler Lumber, Waverly, KS - 66871,



| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | | TC | 0.96 | Vert(LL) | -0.39 | 11-12 | >934 | 360 | MT20 | 197/144 |
|---|---|---|------------------------------------|---|---|---|---|---|-------|------|-----|--------------------|----------|
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.64 | Vert(TL) | -0.90 | 10-11 | >398 | 240 | M18AHS | 142/136 |
| BCLL | 0.0* | Rep Stress Incr | NO | | WB | 0.77 | Horiz(TL) | 0.79 | 9 | n/a | n/a | MT18HS | 197/144 |
| BCDL | 10.0 | Code | IRC2012 | 2/TPI2007 | Matrix-S | | Wind(LL) | 0.27 | 11-12 | >999 | 240 | Weight: 109 lb | FT = 10% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS | 2x4 SPF No.2 *Exce 1.8E, 6-7,7-9:2x4 SP 2x4 SPF 2100F 1.8E SPF No.2 2x3 SPF No.2 *Exce No.2 Structural wood shee except end verticals, (4-9-13 max.): 3-4. Rigid ceiling directly bracing, Except: 8-9-8 oc bracing: 12: 1 Row at midpt | pt* 4-6:2x4 SPF 210 F 2400F 2.0E * Except* 14-13:2x4 pt* 11-6,14-2:2x4 SF athing directly applied , and 2-0-0 oc purlins applied or 10-0-0 oc -13. 5-11, 8-11 | 2) DF F 3) 4) 5, 5) | Wind: ASCE (IRC2012)=9 Cat. II; Exp C zone; cantilev and right exp DOL=1.60 Provide adeq All plates are The Fabricati This truss ha chord live loa * This truss h on the bottom 3-06-00 tall b chord and an Bearing at joi | 7-10; Vult=115 1mph; TCDL=1 ;; Enclosed; M ver left and rigl osed; Lumber MT20 plates u on Tolerance a s been design d nonconcurre as been design n chord in all a y 2-00-00 wide y other membr int(s) 9 conside | 6.0psf; BCD WFRS (env. ht exposed : DOL=1.60 p to prevent v at joint 13 = ed for a 10.0 nut with any ned for a liv reas where e will fit betw ers. | ond gust) V L=6.0psf; h= elope) exterid end vertical blate grip vater pondine wise indicate 2% 0 psf bottom other live loa e load of 20.0 a rectangle reen the botto o grain value | e25ft; or left ed. opsf om | 11 12 | 2000 | 240 | Weight: 100 lb | |
| | (lb/size) 9=1349/0- Max Horiz 14=-272 (l | ·3-8, 14=1423/0-3-8 | , | using ANSI/T | Pl 1 angle to g | rain formula | a. Building | | | | | | |
| | Max Uplift 9=-151 (L | C 9), 14=-205 (LC 8) | 9) | Provide mech | uld verify capa nanical connec | tion (by oth | ers) of truss t | | | | | | |
| FORCES | (lb) - Maximum Com Tension | pression/Maximum | | | capable of wit | | 05 lb uplift at | t | | | | | |
| TOP CHORD | 1-2=0/40, 2-3=-1602 4-5=-4235/566, 5-6= 6-8=-3473/332, 8-9= 2-14=-1386/199 | -3000/272, | 10 |) Graphical pur or the orienta bottom chord) Hanger(s) or | ition of the pur | lin along the | top and/or | size | | | | Contraction of the | ADD. |
| BOT CHORD | 13-14=-243/286, 12- 11-12=-553/3764, 10 9-10=-246/4154 | | | provided suff down and 18 | icient to suppo Ib up at 1-10- Ib up at 1-10- | rt concentra 8 on top ch | ited load(s) 4 ord, and 7 lb | | | | B | STATE OF M | MISSOLA |
| WEBS | 3-13=-71/735, 4-13= 4-12=-431/238, 5-12 6-11=-195/3007, 8-1 8-10=0/301, 2-13=-1 | =0/354, 5-11=-1117/ 1=-1167/555, | | design/select responsibility) In the LOAD | ion of such co of others. | nnection de on, loads aj | vice(s) is the | | | | E. | SEVI | |
| NOTES | | | LC | AD CASE(S) | Standard | | | | | | 1 | NUM | BER |
| Unbalance this design | d roof live loads have 1. | been considered for | 1) | Plate Increa Uniform Loa Vert: 1-2= | | 3-4=-70, 4-6 | | | | | A. | PE-2001 | LENGT |

- Uniform Loads (lb/ft) Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-6=-70, 6-9=-70, 13-14=-20, 11-13=-20, 9-11=-20





| Job | Truss | Truss Type | Qty | Ply | Lot 149 CB | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B220065 | A12 | Scissor | 1 | 1 | Job Reference (optional) | 150049376 |

Run: 8,43 S Oct 11 2021 Print: 8,430 S Oct 11 2021 MiTek Industries, Inc. Thu Feb 03 10:04:09

Page: 1

ထု 5-7.

0-3-9

ID:j?iKK6OeomyHR0IGwFcWICzuPP7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 7-0-0 14-0-0 21-6-0 28-3-8 7-0-0 7-0-0 7-6-0 6-9-8 5x6 II 4 12 81 3x4 🖌 3x5 💊 3x5 🗸 3x4. З 5 2 10-3-0 9 8x8= 5-11-1 8 4x9 🖌 10 2x4 II 5x6 ≠ 0-11-0 0-5-2 0-3-9 _]5 12 4x8 👟 3x5 II

| (|)-3-8 | 7-0-0 | 14-6-0 | 21-6-0 | 27-11-15 | 28-3-8 |
|----------|-------|-------|--------|--------|----------|--------|
| = 1:63.3 |)-3-8 | 6-8-8 | 7-6-0 | 7-0-0 | 6-5-15 | 0-3-9 |
| = 110010 | | | | | | |

Plate Offsets (X, Y): [7:0-1-5,0-1-3], [9:0-4-0,0-3-13]

| 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 | 0.79 | Vert(LL) | -0.33 | 8-9 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.89 | Vert(TL) | -0.82 | 9-10 | >411 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.88 | Horiz(TL) | 0.75 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2012/TPI2007 | Matrix-S | | Wind(LL) | 0.21 | 9-10 | >999 | 240 | Weight: 99 lb | FT = 10% |
| LUMBER TOP CHORD BOT CHORD | 2x4 SPF 2100F 1.8E 2x4 SPF No.2 *Exce | | on the bot | s has been desigr tom chord in all ar Il by 2-00-00 wide | eas where | a rectangle | | - | - | | | |

| BOT CHORD | 2x4 SPF No.2 *Except* 9-7:2x4 SPF 2100F 1.8E |
|-----------|---|
| WEBS | 2x3 SPF No.2 *Except* 11-1:2x6 SPF No.2 |
| BRACING | |
| TOP CHORD | Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-2-15 oc bracing: 9-10. |
| WEBS | 1 Row at midpt 2-9, 6-9 |
| REACTIONS | (lb/size) 7=1256/0-3-8, 11=1256/0-3-8 |
| | Max Horiz 11=-267 (LC 6) |
| | Max Uplift 7=-143 (LC 9), 11=-141 (LC 8) |
| FORCES | (lb) - Maximum Compression/Maximum |
| | Tension |
| TOP CHORD | 1-2=-3431/477, 2-4=-2674/223, |
| | 4-6=-3069/279, 6-7=-4363/335, |
| | 1-11=-1345/271 |
| BOT CHORD | 10-11=-276/641, 9-10=-502/3044, |
| | 8-9=-207/3818, 7-8=-204/3818 |
| WEBS | 2-10=-131/127, 2-9=-778/420, |
| | 4-9=-128/2562. 6-9=-1195/563. 6-8=0/299. |

·128/2562, 6-9=-1195/563, 6-8=0/299, 1-10=-219/2462

NOTES

Scale =

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V 2) (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOI = 1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- chord and any other members. 5) Bearing at joint(s) 11, 7 considers parallel to grain value
- using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at 6)
- joint 11 and 143 lb uplift at joint 7.

LOAD CASE(S) Standard





| Job | Truss | Truss Type | Qty | Ply | Lot 149 CB | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B220065 | A13 | Scissor | 7 | 1 | Job Reference (optional) | 150049377 |

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Feb 03 10:04:09 ID:cmxrAUR8s?Sjvdc195hSv2zuPP3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

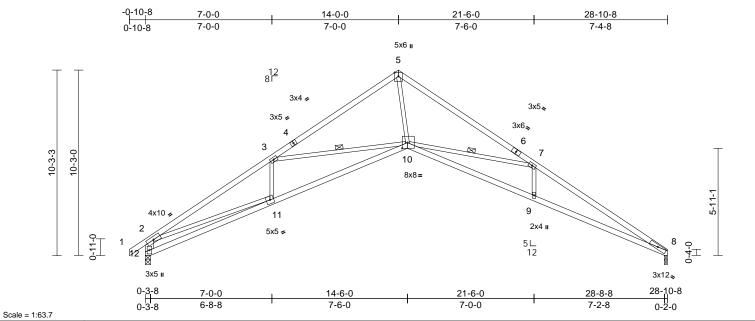


Plate Offsets (X, Y): [10:0-3-8,0-3-12]

| | | -, | | | | - | | | | | | | |
|---|--|--|--|---|--|--|--|--------------------------------------|-------------------------------------|---------------------------------------|---------------------------------|---|------------------------------------|
| 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 YES IRC201 | 2/TPI2007 | CSI TC BC WB Matrix-S | 0.94 0.91 0.93 | DEFL Vert(LL) Vert(TL) Horiz(TL) Wind(LL) | in -0.38 -0.91 0.85 0.23 | (loc) 9-10 10-11 8 9-10 | l/defl >892 >378 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 102 lb | GRIP 197/144 FT = 10% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS | 2400F 2.0E, 1-4:2x4 2x4 SPF No.2 *Exce 1.8E 2x3 SPF No.2 *Exce Structural wood she except end verticals Rigid ceiling directly bracing. 1 Row at midpt | SPF No.2 spt* 10-8:2x4 SPF 21 spt* 12-2:2x6 SPF No athing directly applie applied or 8-5-2 oc 3-10, 7-10 -2-0, 12=1364/0-3-8 (LC 6) | 00F 5) 5.2 d, 6) 7) | on the bottor 3-06-00 tall b chord and ar) Bearing at jo using ANSI/T designer sho) Provide mec bearing plate bearing plate | has been designe m chord in all are: by 2-00-00 wide v hy other members int(s) 8, 12 consi ITPI 1 angle to gra build verify capacit hanical connection at joint(s) 8. hanical connection capable of withs 68 lb uplift at joint Standard | as where will fit betv s. ders para ain formula ty of beari on (by oth on (by oth standing 1 | a rectangle veen the both llel to grain v a. Building ing surface. ers) of truss ers) of truss | tom value to | | | | | |
| FORCES | (lb) - Maximum Corr Tension | ,. , , |) | | | | | | | | | | |
| TOP CHORD | 1-2=0/43, 2-3=-3504 5-7=-3201/276, 7-8= 2-12=-1505/331 | |), | | | | | | | | | | |
| BOT CHORD WEBS | 11-12=-352/788, 10 9-10=-229/4183, 8-9 3-11=-123/128, 3-10 | 9=-227/4187 | /314, | | | | | | | | | ATE OF M | MISSO |
| this design Wind: AS((IRC2012) Cat. II; Ex zone; can and right e DOL=1.60 This truss | CE 7-10; Vult=115mph)=91mph; TCDL=6.0ps p C; Enclosed; MWFR tilever left and right ex exposed; Lumber DOL | i (3-second gust) V sf; BCDL=6.0psf; h=2 S (envelope) exterioi posed ; end vertical I =1.60 plate grip r a 10.0 psf bottom | 25ft; r eft | | | | | | | | | SCOTT SEVI SEVI PE-20010 PE-20010 | T M. ER DISSO7 |

February 4,2022



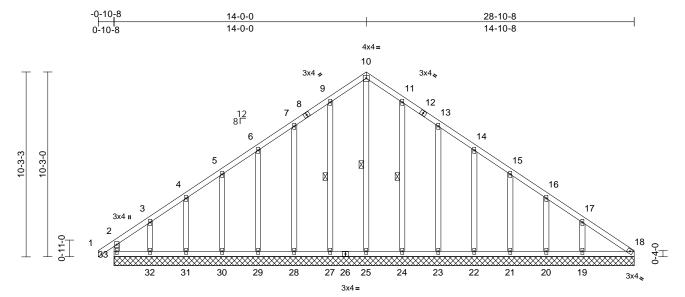
| Job | Truss | Truss Type | Qty | Ply | Lot 149 CB | |
|---------|-------|------------------------|-----|-----|--------------------------|-----------|
| B220065 | A14 | Common Supported Gable | 1 | 1 | Job Reference (optional) | 150049378 |

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Feb 03 10:04:10 ID:j?iKK6OeomyHR0IGwFcWICzuPP7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



ance February 4,2022

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



| 28-1 | 0-8 |
|------|-----|

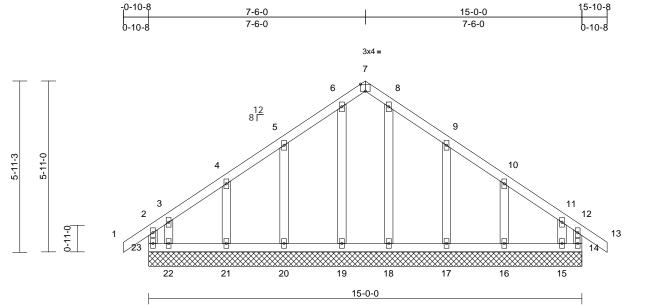
| | | L | | | | 28-10- | 8 | | | | | | 4 |
|--|--|--|---|---|---|---|--|---------------------------------|--|---|---|---|--|
| Scale = 1:64 | | - | | | | | | | | | | | |
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 25.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2012 | 2/TPI2007 | CSI TC BC WB Matrix-S | 0.09 0.07 0.13 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in n/a n/a 0.01 | (loc) - - 18 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 154 lb | GRIP 197/144 FT = 10% |
| LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD WEBS REACTIONS | 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. 1 Row at midpt (Ib/size) 18=106/2 20=155/2 22=179/2 24=187/2 27=187/2 33=171/2 Max Horiz 33=-275 (Max Uplift 18=-43 (L 20=-59 (L 22=-68 (L 22=-68 (L 24=-62 (L | applied or 10-0-0 oc 10-25, 9-27, 11-24 8-10-8, 19=256/28-10 8-10-8, 21=186/28-10 8-10-8, 23=179/28-10 8-10-8, 23=179/28-10 8-10-8, 30=179/28-10 8-10-8, 32=160/28-10 8-10-8 8-10-8 | 1 or BO)-8,)-8,)-8,)-8,)-8,)-8,)-8,)-8, | DT CHORD EBS Unbalanced this design. Wind: ASCE | 2-33=-175/67, 1 3-4=-117/108, 4 6-7=-79/175, 7- 10-11=-67/251, 1 15-16=-122/121 17-18=-194/173 32-33=-139/187 23-24=-139/187 23-24=-139/187 23-24=-139/187 23-24=-139/187 19-20=-139/187 19-20=-139/187 19-20=-139/187 19-20=-139/187 19-20=-139/187 19-20=-147/92, 5 3-32=-162/141, 1 13-23=-146/99, 15-21=-151/97, 17-19=-205/134 roof live loads I 57-10; Vult=115 91mph; TCDL= | 4-5=-107/10 9=-65/214, 11-13=-80, 14-15=-10, 1, 16-17=-10, 7, 31-32=-11, 7, 27-28=-11, 7, 27-28=-11, 7, 27-28=-11, 7, 22-23=-11, 7, 22-23=-11, 7, 20-21=-12, 7, 18-19=-12, 5-30=-148/9, 11-24=-15, 14-22=-144, 16-20=-12, 4 have been (simph (3-sec | 11, 5-6=-92/13 9-10=-54/245 (220, 8/145, 41/127, 39/18 | ¹ 99, 183, | on 3-0 chc 9) Pro bea 33, upli 30, 22, lb u | the botto 6-00 tall ord and a voide me aring plat 43 lb up ift at join 49 lb up ift at join | m cho by 2-0 ny oth chanic ce capa llift at ji t 28, 6 llift at ji t 24, 7 llift at ji t 34, 7 llift at ji | rd in all areas wh N0-00 wide will fit l er members. al connection (by able of withstandii oint 18, 62 lb uplif 8 lb uplift at joint 2 int 31, 158 lb up 5 lb uplift at joint 2 oint 21, 59 lb uplif - ndard | between the bottom others) of truss to ing 77 lb uplift at joint it at joint 27, 75 lb 29, 75 lb uplift at joint lift at joint 32, 62 lb 23, 68 lb uplift at joint it at joint 20 and 108 |
| FORCES | 30=-75 (L 32=-158 (Max Grav 18=148 (l 20=160 (l 22=186 (l 24=195 (l 27=195 (l 29=186 (l | C 8), 31=-49 (LC 8), [LC 8), 33=-77 (LC 4) LC 15), 19=270 (LC 1 LC 16), 23=186 (LC 1 LC 16), 23=186 (LC 1 LC 16), 25=241 (LC 8 LC 15), 28=186 (LC 1 LC 15), 30=189 (LC 1 C 1), 32=225 (LC 15 LC 16) | 6), 6), 3)), 5), 5), 4) | Cat. II; Exp zone; cantile and right ex DOL=1.60 Truss desigy only. For st see Standar or consult qi All plates ari Gable requii Gable studs This truss ha | C; Enclosed; M ever left and righ posed; Lumber and for wind loa uds exposed to d Industry Gabl ualified building e 2x4 MT20 unl res continuous t spaced at 2-0-0 as been designed ad nonconcurre | WFRS (env nt exposed DOL=1.60 p ds in the pla wind (norm e End Deta designer as eess otherwi bottom chor 0 oc. ed for a 10.0 | elope) exterio ; end vertical I plate grip ane of the trus al to the face) ils as applicat s per ANSI/TP se indicated. d bearing. D psf bottom | r eft ss ole, PI 1. | | đ | <u>s</u> | State OF M SCOTT SEVI OF B PE-20010 PE-20010 | ER BER 018807 |



| Job | Truss | Truss Type | Qty | Ply | Lot 149 CB | |
|---------|-------|------------------------|-----|-----|--------------------------|-----------|
| B220065 | B1 | Common Supported Gable | 1 | 1 | Job Reference (optional) | 150049379 |

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Feb 03 10:04:10 ID:j?iKK6OeomyHR0IGwFcWICzuPP7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:39.9

| Plate Offsets | (Х, | Y): | [7:0-2-0,Edge] |
|---------------|-----|-----|----------------|
|---------------|-----|-----|----------------|

| 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 | 0.07 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.06 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | | WB | 0.06 | Horiz(TL) | 0.00 | 14 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC201 | 12/TPI2007 | Matrix-R | | | | | | | Weight: 67 lb | FT = 10% |
| | 10.0 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (Ib/size) 14=121/1 16=186/1 18=161/1 20=182/1 22=83/15 Max Horiz 23=172 (I Max Uplift 14=-86 [L 16=-65 (L 20=-87 (L 22=-184 (I Max Grav 14=164)(I 16=190 (I 22=202 (I) 16=190 (I 22=202 (I) 22=202 (I) 16=190 (I 22=2102 (I) 22=202 (I) 16=190 (I 22=202 (I) 16=190 (I 22=202 (I) 16=190 (I 22=202 (I) 16=190 (I 22=202 (I) 16=190 (I 22=202 (I) 16=190 (I) 2-23=-149/83, 1-2=(I) 3-4=-85/91, 4-5=-73 6-7=-38/95, 7-8=-35 9-10=-53/62, 10-11= 12-13=0/40, 12-14= | athing directly applied cept end verticals. applied or 6-0-0 oc 5-0-0, 15=83/15-0-0, 5-0-0, 19=161/15-0-0 5-0-0, 21=186/15-0-0 -0-0, 23=121/15-0-0 -0-0, 23=130 (LC 9) -0, 23=-130 (LC 7) -0, 23=-130 (LC 7) -0, 23=-130 (LC 16) -0, 23=198 (LC 16) -0, 23=100 (LC 16) -0, 23=121/15, 23=120 (LC 16) -0, 23=121/15, 24=100 (LC 16) -0, 23=121/15, 24=100 (LC 16) -0, 23=121/15, 24=100 (LC 16) -0, 23=121/15, 24=100 (LC 16) -0, 23=100 (LC 16) -0, 24=100 (LC 16) -0, 24= | IRC201 W N 1) dor 2) , | VEBS (VEBS (VEBS (VIDABAIACEA (Unbalanced this design.) Wind: ASCE ((IRC2012)=S (Cat. II; Exp (zone; cantile (and right exp DOL=1.60) Truss design only. For stu- see Standard (or consult qu () All plates are) Gable requiri () Gable studs () This truss ha chord live loa () This truss ha (chord and ar () Provide mec (bearing plate (joint 23, 86 II () bu plift at joi | Matrix-R 6-19=-131/14, 8-1 4-21=-151/13, 3-2 9-17=-151/12, 11 11-15=-102/120 roof live loads ha 7-10; Vult=115m 01mph; TCDL=6.0 C; Enclosed; MWI ver left and right to boosed; Lumber DC and for wind loads ids exposed to wid d Industry Gable I ualified building de 2 x4 MT20 unles es continuous boi ully sheathed from spaced at 2-0-0 of is been designed ad nonconcurrent has been designed by 0-00 wide w y 0 other members hanical connectio b ouplift at joint 14, nt 21, 184 lb uplift b uplift at joint 16 | I8=-126/(22=-114/1 22=-114/1 20-16=-15 ve been ph (3-sec)psf; BCE FRS (env exposed DL=1.60) s in the pl ind (norm End Deta sesigner a: so therwit ttom choir n one fac ent (i.e. c oc. for a 10.1 with any d for a liv as where vill fit betw s. n (by oth tanding 1 87 lb up t at joint 2 |), 5-20=-149/ 27, 1/92, considered for cond gust) V DL=6.0psf; h= elope) exteric ; end vertical plate grip ane of the tru al to the face ills as applica s per ANSI/TI se indicated. d bearing. re or securely liagonal web) D psf bottom other live loa e load of 20.0 a rectangle veen the bottor 30 lb uplift at ift at joint 20, 22, 88 lb uplif | 110, pr 25ft; pr left ss), ble, PI 1. ds. Opsf om to 65 t at | | | | STATE OF I STATE OF I SCOT SEVI NUM PE-2001 | MISSOLUE T.M. ER BER 018807 |

February 4,2022

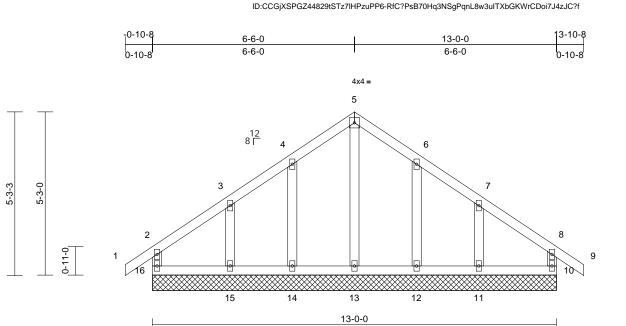


| Job | Truss | Truss Type | | Ply | Lot 149 CB | | |
|---------|-------|------------------------|---|-----|--------------------------|-----------|--|
| B220065 | C1 | Common Supported Gable | 1 | 1 | Job Reference (optional) | 150049380 | |

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Feb 03 10:04:10

Page: 1

Wheeler Lumber, Waverly, KS - 66871,



| Scale = 1:37.1 | |
|----------------|--|
|----------------|--|

| | | 1 | | | i | | | | | | | | |
|--------------|---|--|---|---|--|--|---|---|-------|--------|------|---------------|------------|
| 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 | 0.07 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.04 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | | WB | 0.06 | Horiz(TL) | 0.00 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC201 | 2/TPI2007 | Matrix-R | | | | | | | Weight: 54 lb | FT = 10% |
| | 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (Ib/size) 10=186/1 12=183/1 14=183/1 16=186/1 Max Horiz 16=-155 Max Uplift 10=-44 (L 12=-63 (L 12=-63 (L 12=186 (L) 12=186 (L) | applied or 10-0-0 oc 3-0-0, 11=196/13-0-0 3-0-0, 13=158/13-0-0 3-0-0, 15=196/13-0-0 3-0-0 (LC 6) .C 8), 11=-102 (LC 9), .C 9), 14=-62 (LC 8), (LC 8), 16=-50 (LC 9) LC 1), 11=228 (LC 16 LC 20), 13=178 (LC 1 LC 19), 15=234 (LC 1 LC 1) | d or 3)), 4)), 5)), 6) , 7) , 8) , 9)), 8), | (IRC2012)=5 Cat. II; Exp (zone; cantile and right exp DDL=1.60 Truss desigr only. For stu see Standarn or consult qu All plates are Gable requir Truss to be f braced agair Gable studs This truss ha chord live loa * This truss f on the bottor 3-06-00 tall f chord and ar) Provide mec bearing plate | 7-10; Vult=115m 21mph; TCDL=6.0 C; Enclosed; MW ver left and right bosed; Lumber DU add for wind loads uds exposed to w d Industry Gable ualified building es continuous bo ully sheathed from st lateral movem spaced at 2-0-00 us been designed ad nonconcurrent has been designed has been design | opsf; BCE FRS (env exposed OL=1.60 s in the pl ind (norm End Deta esigner a: ss otherwin thom chon m one fac ent (i.e. c oc. I for a 10. t with any ed for a liv as where will fit betv s. on (by oth standing 5 | DL=6.Opsf; h= elope) exterior ; end vertical plate grip ane of the tru ial to the face ills as applica s per ANSI/TI se or securely liagonal web) 0 psf bottom other live loa re load of 20.0 a rectangle veen the bott ers) of truss i 50 lb uplift at j | or left ss), ble, PI 1. Opsf om co | | | | | |
| TOP CHORD | Tension 2-16=-164/60, 1-2= 3-4=-76/115, 4-5=-6 6-7=-63/108, 7-8=-9 8-10=-164/55 |)/40, 2-3=-106/85, 5/150, 5-6=-53/143, | LO | | ift at joint 10, 62 l 15, 63 lb uplift at Standard | | | | | | Å | STATE OF J | MISSOL |
| BOT CHORD | 15-16=-65/78, 14-15 | 5=-65/78, 13-14=-65/ 2=-65/78, 10-11=-65/ | | | | | | | | | A | SCOT SEV | TM. |
| WEBS | 5-13=-137/0, 4-14=- 6-12=-149/89, 7-11= | 149/89, 3-15=-173/12 =-170/119 | 20, | | | | | | | | g * | 6 | * |
| NOTES | | | | | | | | | | | 8- | the | and the l |
| 1) Unbalance | ed roof live loads have | been considered for | | | | | | | | | Vi S | ET WINN | A CONTRACT |

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



PE-200101880

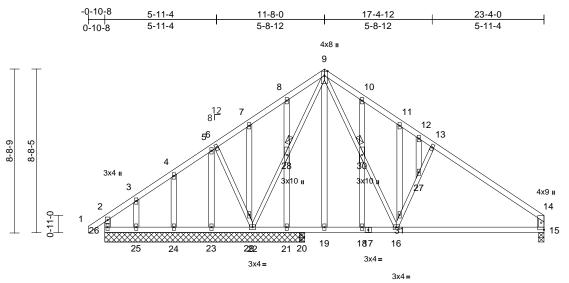
E

February 4,2022

SSIONAL

| Job | Truss | Truss Type | Qty | Ply | Lot 149 CB | |
|---------|-------|-------------------------|-----|-----|--------------------------|-----------|
| B220065 | D1 | Common Structural Gable | 1 | 1 | Job Reference (optional) | 150049381 |

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Feb 03 10:04:10 ID:q9kCOXjSxcmi9uxIOXx81IzouEZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



| | 7-10-3 | 10-5-12 | 15-5-13 | 23-4-0 | |
|----------------|--------|---------|---------|--------|---|
| | 7-10-3 | 2-7-9 | 5-0-1 | 7-10-3 | 1 |
| Scale = 1:61.2 | | | | | |

| TCLL (roof) TCDL BCLL | psf)Spacing25.0Plate Grip10.0Lumber DC0.0*Rep Stress10.0Code | L 1.15 Incr YES | 5 | CSI TC BC WB Matrix-S | 0.32 0.39 0.26 | DEFL Vert(LL) Vert(TL) Horiz(TL) Wind(LL) | in -0.09 -0.21 0.01 0.03 | (loc) 15-16 15-16 15 16-18 | l/defl >999 >719 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 132 lb | GRIP 197/144 FT = 10% |
|---|--|---|--|--|---|---|---|--|---------------------------------------|---------------------------------|---|------------------------------------|
| No.2 OTHERS 2x4 SPF No.2 BRACING TOP CHORD Structural wo 6-0-0 oc purli BOT CHORD Rigid ceiling of bracing. JOINTS 1 Brace at Jt(30 REACTIONS (Ib/size) 15: 21: 23: Contemportant 22: Max Horiz 26: Max Horiz 26: Max Uplift 15: 22: 24: 24: 24: 24: 24: 24: 24 | *Except* 26-2,15-1 bd sheathing directl ns, except end vert directly applied or 6- s): 28, =551/0-3-8, 20=358 =15/10-7-8, 22=849 =-35/10-7-8, 24=182 =216/10-7-8, 26=10 | y applied or icals. 0-0 oc 0-3-8, 10-7-8, 10-7-8, 10-7-8 3 (LC 20), 7 (LC 20), 7 (LC 20), 7 (LC 1), 19 (LC 1), 19 (LC 1), | NOTES 1) Unbalanced this design. 2) Wind: ASCE (IRC2012)=9 Cat. II; Exp C zone; cantile and right exp DOL=1.60 3) Truss design only. For stu see Standarc or consult qu 4) All plates are 5) Truss to be fn braced again 6) Gable studs: 7) This truss ha | 2-30=-180/582, 16- 6-31=-383/250, 27 3-27=-313/220, 22 2-29=-309/193, 12 2-29=-309/193, 12 2-28=-189/94, 21-2 5-23=-40/128, 4-24 0-30=-71/42, 18-3 roof live loads have 7-10; Vult=115mpl 1mph; TCDL=6.0p 5; Enclosed; MWFF ver left and right evo sed; Lumber DOI ed for wind loads in ds exposed to winn 1 Industry Gable Er alified building des 2x4 MT20 unless ully sheathed from st lateral movemer spaced at 2-0-0 oc s been designed for | 7-31=-2 2-28=-5 =-224/1 2-27=-2 8=-215 =-151/S 0=-101. e been of h (3-sec Sf; BCE SS (env cposed _=1.60 of h the pl d (norm h d Deta igner a otherwi one fac h t (i.e. c. br a 10.0 | 81/200, 74/35, 24, 3/34, 9-19=-6 90, 7-29=-10 15, 3-25=-173 49, 11-31=-1 considered fo cond gust) V VL=6.0psf; h= elope) exteric; end verticalolate gripane of the trual to the faceils as applicalis per ANSI/TFse indicated.e or securelyiagonal web)D psf bottom | 13/74, /112, 18/54 r 25ft; or left ss), ble, Pl 1. | | | | Sector A | |
| Tension TOP CHORD 1-2=0/40, 2-3 4-5=-9/179, 5 7-8=0/291, 8- 10-11=-422/2 12-13=-438/1 2-26=-100/77 BOT CHORD 25-26=-205/1 23-24=-205/1 21-22=-51/11 19-20=-51/11 | n Compression/Ma =-96/221, 3-4=-40/1 -6=-9/229, 6-7=0/26 9=0/278, 9-10=-390 33, 11-12=-394/190 96, 13-14=-593/150 , 14-15=-471/148 36, 24-25=-205/136 36, 22-23=-205/136 9, 20-21=-51/119, 9, 18-19=-51/118, 8, 15-16=-45/399 | 90, 0, /270, , | 8) * This truss h on the bottom 3-06-00 tall b chord and ar 9) Provide mecl bearing plate 26, 80 lb upli uplift at joint 1 | Id nonconcurrent w as been designed in chord in all areas y 2-00-00 wide will y other members. nanical connection capable of withsta ft at joint 22, 103 lb 21, 88 lb uplift at jo b uplift at joint 25. Standard | for a liv where I fit betw (by oth anding S | e load of 20.0 a rectangle veen the botto ers) of truss t 15 lb uplift at j t joint 15, 93 | Dpsf om oo oint Ib | | | | STE OF M SCOTT SEVI NULL PE-20010 PE-20010 | ER LENGING |

February 4,2022

Page: 1



| Job | Truss | Truss Type | Qty | Ply | Lot 149 CB | |
|---------|-------|---------------|-----|-----|--------------------------|-----------|
| B220065 | D2 | Common Girder | 1 | 2 | Job Reference (optional) | 150049382 |

Scale = 1:57.7

 Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Feb 03 10:04:11 ID:v7sUetWXC8KjFieN33J5hWzuPOy-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

 -0-10-8
 6-2-9
 11-8-0
 17-1-7
 23-4-0

 0-10-8
 6-2-9
 5-5-7
 5-5-7
 6-2-9

 5x7 II
 4

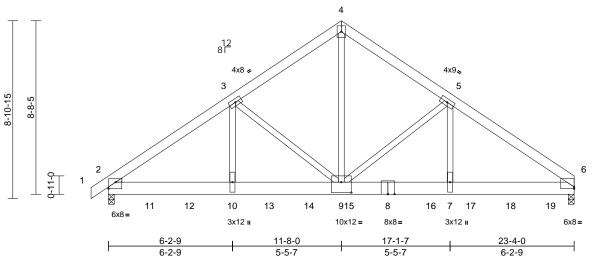


Plate Offsets (X, Y): [2:Edge,0-3-15], [6:Edge,0-1-1], [9:0-6-0,0-6-4]

| 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 | 0.96 | Vert(LL) | -0.11 | 9-10 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | | BC | 0.58 | Vert(TL) | -0.24 | 9-10 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | | WB | 0.89 | Horiz(TL) | 0.06 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC201 | 2/TPI2007 | Matrix-S | | Wind(LL) | 0.08 | 9-10 | >999 | 240 | Weight: 316 lb | FT = 10% |
| LUMBER | | | 4) | | 7-10; Vult=115m | | | 0.5% | | | | | |
| TOP CHORD | | | | | 1mph; TCDL=6.0 | | | | | | | | |
| BOT CHORD | | | | | ; Enclosed; MWF | | | | | | | | |
| WEBS | 2x4 SPF No.2 | | | | ver left and right e osed; Lumber DC | | | leit | | | | | |
| WEDGE | Left: 2x3 SPF No.2 | | | DOL=1.60 | iosed, Lumber DC | JL=1.60 | plate grip | | | | | | |
| BRACING | | | 5) | 5) This truss has been designed for a 10.0 psf bottom | | | | | | | | | |
| TOP CHORD | 4-4-3 oc purlins. | • • • • • | 0) | chord live loa | ad nonconcurrent | with any | other live loa | | | | | | |
| BOT CHORD | Rigid ceiling directly bracing. | applied or 10-0-0 oc | 0) | on the bottor | n chord in all area | s where | a rectangle | • | | | | | |
| REACTIONS | (lb/size) 2=7347/0 | -3-8, 6=7997/0-3-8 | | | by 2-00-00 wide will a wide will be wide with a second state of the second state of th | | | ווע | | | | | |
| | Max Horiz 2=216 (LC | C 7) | 7) | | hanical connection | | ers) of truss t | 0 | | | | | |
| | Max Uplift 2=-885 (L | C 8), 6=-933 (LC 9) | '' | | | | | | | | | | |
| FORCES | (lb) - Maximum Com | pression/Maximum | | bearing plate capable of withstanding 933 lb uplift at joint 6 and 885 lb uplift at joint 2. | | | | | | | | | |
| | Tension | | 8) | | other connection | |) shall be | | | | | | |
| TOP CHORD | 1-2=0/17, 2-3=-1015 | 51/1201, 3-4=-7037/9 | | | icient to support of | | | 165 | | | | | |
| | 4-5=-7037/920, 5-6= | -10352/1212 | | Ib down and | 140 lb up at 2-0- | 12, 1169 | lb down and | 140 | | | | | |
| BOT CHORD | , | | | lb up at 4-0- | 12, 1169 lb down | and 140 | Ib up at 6-0- | 12, | | | | | |
| | 7-9=-895/8266, 6-7= | | | | n and 140 lb up at | | | | | | | | |
| WEBS | 4-9=-890/7284, 5-9= | | | | p at 10-0-12, 116 | | | | | | | | |
| | 5-7=-371/3877, 3-9= | -3041/520, | | | 6 lb down and 14 | | | | | | | | |
| | 3-10=-362/3625 | | | lb down and 147 lb up at 16-2-0, 1255 lb down and 145 | | | | | | | | | |
| NOTES | | | | Ib up at 18-2-0, and 1255 lb down and 145 lb up at | | | | | | | | 100 | |
| | s to be connected toge | ther with 10d | | 20-2-0, and 1259 lb down and 145 lb up at 22-2-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. | | | | | | | | Alech | |
| | ") nails as follows: | | | | he responsibility c | | | 1011 | | | - 1 | A TE | -050.0 |
| | s connected as follows | s: 2x6 - 2 rows | | . , | | J Uners. | | | | | 6 | N | N SY |
| | at 0-9-0 oc. | | | DAD CASE(S) | | | | | | | B | S SCOT | |
| | nords connected as follo | ows: 2x8 - 2 rows | 1) | Plate Increa | of Live (balanced) | : Lumber | Increase=1. | 15, | | | 81 | / SEVI | ER \ Y |
| | l at 0-8-0 oc. nected as follows: 2x4 - | 1 row at 0.0.0 aa | | Uniform Loa | | | | | | | 2 | | \★Ŋ |
| | | | | | =-70, 4-6=-70, 2-6 | - 20 | | | | | 85 | d | 0 1 1 |
| | are considered equally noted as front (F) or ba | | ۸D | | ed Loads (lb) | 5=-20 | | | | | N | | in a series |
| | section. Ply to ply conr | | ΑD | | 1166 (B), 10=-116 | SO (P) 1 | 1_ 1165 (P) | | | | 147 | | |
| | to distribute only loads | | | | 9 (B), 13=-1169 (E | | | 1165 | | | N. | PE-2001 | 018807 |
| | nerwise indicated. | | | | 1259 (B), 17=-125 | | | 1100 | | | Y | PE-2001 | 154 |
| | ed roof live loads have | been considered for | | 19=-1259 | | (=), 1 | .200 (2), | | | | | C'SSIONA | FNA |
| this desig | | | | | · / | | | | | | | WANA | |
| 0 | | | | | | | | | | | | an | |

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1** Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



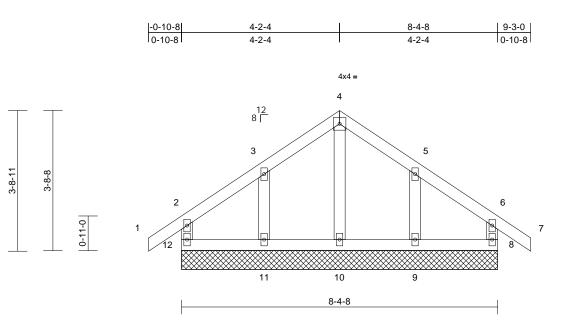
February 4,2022

Page: 1

| Job | Truss | Truss Type | Qty | Ply | Lot 149 CB | |
|---------|-------|------------------------|-----|-----|--------------------------|-----------|
| B220065 | E1 | Common Supported Gable | 1 | 1 | Job Reference (optional) | 150049383 |

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Feb 03 10:04:11 ID:CCGjXSPGZ44829tSTz7IHPzuPP6-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



| Scale = | 1:30.5 |
|---------|--------|
|---------|--------|

| 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 | 0.07 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.03 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.03 | Horiz(TL) | 0.00 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2012/TPI2007 | Matrix-R | | | | | | | Weight: 33 lb | FT = 10% |
| LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS | 2x4 SPF No.2 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (lb/size) 8=163/8- 10=169/8 12=163/8 Max Horiz 12=-115 Max Uplift 8=-39 (LC (LC 8), 11 Max Grav 8=165 (L 10=169 (12=165 (L | eathing directly applie ccept end verticals. v applied or 6-0-0 oc 4-8, 9=187/8-4-8, 4-4-8, 11=187/8-4-8, 4-4-8 (LC 6) C 8), 9=-88 (LC 9), 11 C 20), 9=-28 (LC 9), C 20), 9=214 (LC 16 LC 1), 11=218 (LC 15 LC 19) | 3) Truss detonly. For see Stan or consul 4) All plates 5) Gable redistrict 6) Truss to 1 6) Truss to 1 7) Gable stution 8) This truss chord live 9) * This truss of the braced at the | signed for wind load studs exposed to v dard Industry Gable t qualified building of are 2x4 MT20 unle uires continuous b be fully sheathed fro gainst lateral mover ds spaced at 2-0-0 thas been designe load nonconcurrer ss has been designe thom chord in all ar- all by 2-00-00 wide d any other membe nechanical connect late capable of with uplift at joint 8, 90 l | wind (norm = End Deta designer a: ess otherwi oottom chor oom one fac ment (i.e. c o oc. d for a 10. nt with any ted for a 10. nt with any ted for a live eas where will fit betw rs. ion (by oth nstanding 4 | al to the face ils as applica s per ANSI/TI se indicated. d bearing. e or securely iagonal web) 0 psf bottom other live loa e load of 20.0 a rectangle veen the botto ers) of truss t 2 lb uplift at j |), ble, PI 1. , , ds. Dpsf com | | | | rregin. 33 ID | |
| FORCES | (lb) - Maximum Con Tension | npression/Maximum | | | | | | | | | | |
| TOP CHORD | 1-2=0/40, 2-3=-69/6 4-5=-43/95, 5-6=-60 2-12=-146/51, 6-8=- |)/62, 6-7=0/40, | | | | | | | | | | |
| BOT CHORD | 0 11-12=-52/57, 10-1 8-9=-52/57 | 1=-52/57, 9-10=-52/5 | 57, | | | | | | | | OF | MISSO |
| this desig 2) Wind: AS (IRC2012 | ced roof live loads have m. SCE 7-10; Vult=115mph 2)=91mph; TCDL=6.0ps | n (3-second gust) V sf; BCDL=6.0psf; h=2 | r 25ft; | | | | | | 1 | | STATE OF SCOT | тм. |
| zone; car | xp C; Enclosed; MWFR tillever left and right ex exposed; Lumber DOL 0 | posed ; end vertical | | | | | | | • | A A A | PE-2001 | L ENGINE |

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



February 4,2022

| Job | Truss | Truss Type | Qty | Ply | Lot 149 CB | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B220065 | E2 | Common | 2 | 1 | Job Reference (optional) | 150049384 |

4-2-4

-0-10-8

Wheeler Lumber, Waverly, KS - 66871,

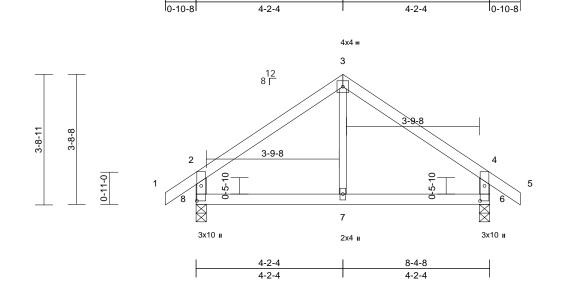
Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Feb 03 10:04:11 ID:gOp5loPuKNC?gJSe1gf_qdzuPP5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

8-4-8



... r

9-3-0



Scale = 1:32.9

Plate Offsets (X, Y): [6:0-5-2,0-1-8], [8:0-5-2,0-1-8]

| 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 | 0.25 | Vert(LL) | -0.01 | 7 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.13 | Vert(TL) | -0.02 | 6-7 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.05 | Horiz(TL) | 0.00 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2012/TPI2007 | Matrix-R | | Wind(LL) | -0.01 | 7-8 | >999 | 240 | Weight: 27 lb | FT = 10% |

| LUMBER |
|--------|
|--------|

| LUWBER | |
|-----------|--|
| TOP CHORD | 2x4 SPF No.2 |
| BOT CHORD | 2x4 SPF No.2 |
| WEBS | 2x4 SPF No.2 *Except* 7-3:2x3 SPF No.2 |
| BRACING | |
| TOP CHORD | Structural wood sheathing directly applied or |
| | 6-0-0 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc |
| | bracing. |
| | |
| REACTIONS | (lb/size) 6=435/0-3-8, 8=435/0-3-8 |
| REACTIONS | (lb/size) 6=435/0-3-8, 8=435/0-3-8 Max Horiz 8=-115 (LC 6) |
| REACTIONS | |
| FORCES | Max Horiz 8=-115 (LC 6) |
| | Max Horiz 8=-115 (LC 6) Max Uplift 6=-63 (LC 9), 8=-63 (LC 8) |
| | Max Horiz 8=-115 (LC 6) Max Uplift 6=-63 (LC 9), 8=-63 (LC 8) (Ib) - Maximum Compression/Maximum |
| FORCES | Max Horiz 8=-115 (LC 6) Max Uplift 6=-63 (LC 9), 8=-63 (LC 8) (Ib) - Maximum Compression/Maximum Tension |
| FORCES | Max Horiz 8=-115 (LC 6) Max Uplift 6=-63 (LC 9), 8=-63 (LC 8) (lb) - Maximum Compression/Maximum Tension 1-2=0/40, 2-3=-355/70, 3-4=-355/70, |

NOTES

 Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 8 and 63 lb uplift at joint 6.

LOAD CASE(S) Standard

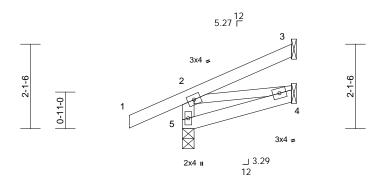


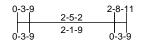


| Job | Truss | Truss Type | Qty | Ply | Lot 149 CB | |
|---------|-------|------------------|-----|-----|--------------------------|-----------|
| B220065 | J1 | Jack-Open Girder | 1 | 1 | Job Reference (optional) | 150049385 |

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Feb 03 10:04:12 ID:gOp5loPuKNC?gJSe1gf_qdzuPP5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale = 1:28.8

| | (psf) | Spacing | | | | | | | | | | | |
|--|---|---|---|---|---|--|--|--|--|---|---|---|---|
| | | | 2-0-0 | | CSI TC | 0.47 | DEFL | in | (loc) | l/defl | L/d | PLATES MT20 | GRIP 197/144 |
| | 25.0 10.0 | Plate Grip DOL | 1.15 1.15 | | - | 0.17 | Vert(LL) | 0.00 | 4-5 4-5 | >999 >000 | 360 | WI120 | 197/144 |
| | | | | | - | | () | | | | - | | |
| | 10.0 | Code | | /TPI2007 | Matrix-P | 0.02 | Wind(LL) | 0.00 | 5 | >999 | 240 | Weight: 11 lb | FT = 10% |
| · | | | 6) | Provide mec | nanical connectio | n (bv oth | ers) of truss | to | - | | | | |
| 2x4 SPF N | 0.2 | | - / | | | | | | | | | | |
| 2x4 SPF N | o.2 | | | 5, 33 lb uplift | at joint 3 and 1 lt | o uplift at | joint 4. | | | | | | |
| 2x4 SPF N | o.2 *Exce | pt* 4-2:2x3 SPF No | 2 LO | AD CASE(S) | Standard | | | | | | | | |
| | | | | ., | | | | | | | | | |
| | | | ed or | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Ì Í | Mechanica | al, 5=248/0-3-8 | | | | | | | | | | | |
| Max Uplift | 3=-33 (LC | , | -40 | | | | | | | | | | |
| | | 1), 4=52 (LC 3), 5=2 | 248 | | | | | | | | | | |
| Tension | num Com | pression/Maximum | | | | | | | | | | | |
| | , | 1, 2-3=-48/16 | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
|)=91mph; TC cp C; Enclosed tilever left and exposed; Lum) | DL=6.0psi d; MWFRS d right exp nber DOL= | f; BCDL=6.0psf; h= 5 (envelope) exteric losed ; end vertical =1.60 plate grip | r | | | | | | | | E. | STATE OF I | MISSOLIN MISSOLIN |
| | 2x4 SPF N 2x4 SPF N 3-0-13 oc j Rigid ceilir bracing. (lb/size) Max Horiz Max Uplift Max Grav (lb) - Maxir Tension 2-5=-222/71 4-5=-68/11 2-4=0/63 CE 7-10; Vult =91mph; TC p C; Enclose tilever left am | 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 *Exce Structural wood shea 3-0-13 oc purlins, ex Rigid ceiling directly bracing. (lb/size) 3=58/ Mec Max Horiz 5=58 (LC (LC 8) Max Grav 3=58 (LC (LC 1) (lb) - Maximum Com Tension 2-5=-222/73, 1-2=0/4 4-5=-68/11 2-4=0/63 CE 7-10; Vult=115mph I=91mph; TCDL=6.0ps p C; Enclosed; HWFR3 tilever left and right exp exposed; Lumber DOL= | 0.0* 10.0 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 *Except* 4-2:2x3 SPF No. Structural wood sheathing directly applie 3-0-13 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 or bracing. (Ib/size) 3=58/ Mechanical, 4=26/ Mechanical, 5=248/0-3-8 Max Horiz 5=58 (LC 5) Max Uplift 3=-33 (LC 8), 4=-1 (LC 8), 5=- (LC 8) Max Grav 3=58 (LC 1), 4=52 (LC 3), 5=2 (LC 1) (Ib) - Maximum Compression/Maximum Tension 2-5=-222/73, 1-2=0/41, 2-3=-48/16 4-5=-68/11 2-4=0/63 CE 7-10; Vult=115mph (3-second gust) V =91mph; TCDL=6.0psf; BCDL=6.0psf; h=2 p C; Enclosed; MWFRS (envelope) exterio Dilever left and right exposed ; end vertical exposed; Lumber DOL=1.60 plate grip | 0.0* 10.0Rep Stress Incr CodeNO IRC20126)2x4 SPF No.2 2x4 SPF No.22x4 SPF No.22x4 SPF No.2 *Except* 4-2:2x3 SPF No.2Constructural wood sheathing directly applied or 3-0-13 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.(Ib/size)3=58/ Mechanical, 4=26/ Mechanical, 5=248/0-3-8Max Horiz5=58 (LC 5) Max UpliftMax Grav3=58 (LC 1), 4=52 (LC 3), 5=-40 (LC 8)(LC 8)Max Grav3=58 (LC 1), 4=52 (LC 3), 5=248 (LC 1)(Ib) - Maximum Compression/Maximum Tension 2-5=-222/73, 1-2=0/41, 2-3=-48/16 4-5=-68/11 2-4=0/63CE 7-10; Vult=115mph (3-second gust) V =91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; p C; Enclosed; MWFRS (envelope) exterior tilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip D | 0.0* Rep Stress Incr NO 10.0 Code IRC2012/TPI2007 2x4 SPF No.2 6) Provide mech 2x4 SPF No.2 5, 33 lb uplift 2x4 SPF No.2 *Except* 4-2:2x3 SPF No.2 LOAD CASE(S) Structural wood sheathing directly applied or 3-0-13 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. (lb/size) 3=58/ Mechanical, 4=26/ Mechanical, 5=248/0-3-8 Max Horiz 5=58 (LC 5) Max Uplift 3=-38 (LC 5) Max Uplift 3=-38 (LC 1), 4=52 (LC 3), 5=-40 (LC 8) Max Grav 3=58 (LC 1), 4=52 (LC 3), 5=-248 (LC 1) (lb) - Maximum Compression/Maximum Tension 2-5=-222/73, 1-2=0/41, 2-3=-48/16 4-5=-68/11 2-4=0/63 CE 7-10; Vult=115mph (3-second gust) V =91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; p C; Enclosed; MWFRS (envelope) exterior tilever left and right exposed ; end vertical left xxposed; Lumber DOL=1.60 plate grip | 0.0* Rep Stress Incr NO WB 10.0 Code IRC2012/TPI2007 Matrix-P 6) Provide mechanical connection bearing plate capable of withs 5, 33 lb uplift at joint 3 and 1 lt 2x4 SPF No.2 2x4 SPF No.2 *Except* 4-2:2x3 SPF No.2 6) Structural wood sheathing directly applied or 3-0-13 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. (Ib/size) 3=58/ Mechanical, 4=26/ Mechanical, 5=248/0-3-8 Max Horiz 5=58 (LC 5) Max Uplift 3=-33 (LC 8), 4=-1 (LC 8), 5=-40 (LC 8) Max Grav 3=58 (LC 1), 4=52 (LC 3), 5=248 (LC 1) (Ib) - Maximum Compression/Maximum Tension 2-5=-222/73, 1-2=0/41, 2-3=-48/16 4-5=-68/11 2-4=0/63 CE 7-10; Vult=115mph (3-second gust) V I=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; p C; Enclosed; MWFRS (envelope) exterior tilever left and right exposed ; end vertical left sxposed; Lumber DOL=1.60 plate grip | 0.0* Rep Stress Incr NO WB 0.02 10.0 Code IRC2012/TPI2007 Matrix-P 2x4 SPF No.2 (a) Provide mechanical connection (by oth bearing plate capable of withstanding 4 5, 33 lb uplift at joint 3 and 1 lb uplift at joint 3 and 1 lb uplift at Joint 3 and 1 lb uplift at LOAD CASE(S) Structural wood sheathing directly applied or 3-0-13 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. ILOAD CASE(S) Standard (lb/size) 3=58/ Mechanical, 4=26/ Mechanical, 5=248/0-3-8 Max Horiz 5=58 (LC 5) Standard Max Horiz 5=58 (LC 5) Max Grav 3=58 (LC 1), 4=52 (LC 3), 5=-40 (LC 8) Max Grav 3=58 (LC 1), 4=52 (LC 3), 5=-248 (LC 1) (b) - Maximum Compression/Maximum Tension 2-5=-222/73, 1-2=0/41, 2-3=-48/16 4-5=-68/11 2-4=0/63 CE 7-10; Vult=115mph (3-second gust) V =91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; p C; Enclosed; MWFRS (envelope) exterior tilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip | 0.0* 10.0 Rep Stress Incr Code NO IRC2012/TPI2007 WB Matrix-P 0.02 Matrix-P Horiz(TL) Wind(LL) 2x4 SPF No.2 5.3 Provide mechanical connection (by others) of truss bearing plate capable of withstanding 40 lb uplift at 5, 33 lb uplift at joint 3 and 1 lb uplift at 5, 33 lb uplift at joint 3 and 1 lb uplift at 5, 33 lb uplift at joint 3 and 1 lb uplift at 5, 33 lb uplift at joint 4. Structural wood sheathing directly applied or 3-0-13 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. Structural wood sheathing directly applied or 3-0-13 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. Structural wood sheathing directly applied or 3-0-13 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. Structural wood sheathing directly applied or 3-0-13 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. Structural wood sheathing directly applied or 10-0-0 oc bracing. (lb/size) 3=58/ Mechanical, 4=26/ Mechanical, 5=248/0-3-8 Max Grav (LC 8) 5=34 (LC 1), 4=52 (LC 3), 5=-40 (LC 8) (lb) - Maximum Compression/Maximum Tension 2-5=-222/73, 1-2=0/41, 2-3=-48/16 4-5=-68/11 2-4=0/63 5=-60, 55; BCDL=6.0ps; h=25ft; p C; Enclosed; MWFRS (envelope) exterior illever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip | 0.0* Rep Stress Incr NO WB 0.02 Horiz(TL) 0.00 Matrix-P 0.02 Matrix-P 0.02 Wind(LL) 0.00 2x4 SPF No.2 2x4 SPF No.2 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 5, 33 lb uplift at joint 3 and 1 lb uplift at joint 4. LOAD CASE(S) Structural wood sheathing directly applied or 3-0-13 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 co bracing. Structural wood sheathing. Structural wood sheathing directly applied or 3-0-13 oc purlins, except end verticals. Structural wood sheathing directly applied or 3-0-13 oc purlins, except end verticals. Structural wood sheathing directly applied or 3-0-13 oc purlins, except end verticals. (lb/size) 3=58 (LC 5) Machanical, 4=26/ Mechanical, 5=248/0-3-8 Structural wood sheathing directly applied or 10-0-0 co bracing. (lb/size) 3=58 (LC 5) Max Horiz 5=58 (LC 5) Max Woriz 5=58 (LC 5) Max Grav 3=58 (LC 1), 4=52 (LC 3), 5=248 (LC 1) (LC 8) Max Grav 3=58 (LC 1), 4=52 (LC 3), 5=248 (LC 1) 4-5=-60/11 2-4=0/63 CE 7-10; Vult=115mph (3-second gust) V P=91mph; TCDL=6.0ps; BCDL=6.0ps; h=25f; p. C; Enclosed; MWFRS (envelope) exterior Illeverset: Illeverset: V Participandi exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip </td <td>0.0* Rep Stress Incr Code NO WB 0.02 Horiz(TL) 0.00 3 2x4 SPF No.2 </td> <td>0.0* Rep Stress Incr Code NO IRC2012/TPI2007 WB Matrix-P 0.02 Horiz(TL) Wind(LL) 0.00 3 n/a 2x4 SPF No.2 5 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 5, 33 lb uplift at joint 3 and 1 lb uplift at joint 4. 5 5 Structural wood sheathing directly applied or 3-0-13 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. Structural wood sheathing directly applied or 3-0-13 oc purlins, except end verticals. Structural wood sheathing directly applied or 3-0-13 oc purlins, except end verticals. LOAD CASE(S) Standard (lb/size) 3=58/ Mechanical, 4=26/ Mechanical, 5=248/0-3-8 Max Horiz 5=58 (LC 1), 4=52 (LC 3), 5=-40 (LC 1) Standard (lb) - Maximum Compression/Maximum Tension 2-5=-222/73, 1-2=0/41, 2-3=-48/16 4-5=-68/11 2-4=0/63 Standard</td> <td>0.0* Rep Stress Incr Code NO WB 0.02 Horiz(TL) 0.00 3 n/a n/a 10.0 Code IRC2012/TPI2007 Matrix-P Wind(LL) 0.00 5 >999 240 (Inc2012/TPI2007 Matrix-P Wind(LL) 0.00 5 >999 240 (Inc2012/TPI2007 Matrix-P Wind(LL) 0.00 5 >999 240 (Inc2012/TPI2007 Matrix-P Upit Mind(LL) 0.00 5 >999 240 (Inc2012/TPI2007 Matrix-P Upit Display Display</td> <td>0.0* Rep Stress Incr NO WB 0.02 Horiz(TL) 0.00 3 n/a n/a Vind(LL) 0.00 5 >999 240 Weight: 11 lb 2x4 SPF No.2 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 4. 5, 33 lb uplift at joint 3. 5, 33 lb uplift at joint 4. LOAD CASE(S) Standard Structural wood sheathing directly applied or 3-0-13 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. Standard LOAD CASE(S) Standard (Ib/size) 3-58/ Mechanical, 4=26/ Mechanical, 5=248/0-3-8 Standard LOAD CASE(S) Standard Max Horiz 5=88 (LC 1), 4=52 (LC 3), 5=-40 (LC 8) (LC 8) Maximum Compression/Maximum Tension 2-5-222/73, 1-2-0/41, 2-3=-48/16 4-5=-68/11 2-4-0/63 2-5-222/73, 1-2-0/41, 2-3=-48/16 4-5=-68/11 3-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-</td> | 0.0* Rep Stress Incr Code NO WB 0.02 Horiz(TL) 0.00 3 2x4 SPF No.2 | 0.0* Rep Stress Incr Code NO IRC2012/TPI2007 WB Matrix-P 0.02 Horiz(TL) Wind(LL) 0.00 3 n/a 2x4 SPF No.2 5 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 5, 33 lb uplift at joint 3 and 1 lb uplift at joint 4. 5 5 Structural wood sheathing directly applied or 3-0-13 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. Structural wood sheathing directly applied or 3-0-13 oc purlins, except end verticals. Structural wood sheathing directly applied or 3-0-13 oc purlins, except end verticals. LOAD CASE(S) Standard (lb/size) 3=58/ Mechanical, 4=26/ Mechanical, 5=248/0-3-8 Max Horiz 5=58 (LC 1), 4=52 (LC 3), 5=-40 (LC 1) Standard (lb) - Maximum Compression/Maximum Tension 2-5=-222/73, 1-2=0/41, 2-3=-48/16 4-5=-68/11 2-4=0/63 Standard | 0.0* Rep Stress Incr Code NO WB 0.02 Horiz(TL) 0.00 3 n/a n/a 10.0 Code IRC2012/TPI2007 Matrix-P Wind(LL) 0.00 5 >999 240 (Inc2012/TPI2007 Matrix-P Wind(LL) 0.00 5 >999 240 (Inc2012/TPI2007 Matrix-P Wind(LL) 0.00 5 >999 240 (Inc2012/TPI2007 Matrix-P Upit Mind(LL) 0.00 5 >999 240 (Inc2012/TPI2007 Matrix-P Upit Display Display | 0.0* Rep Stress Incr NO WB 0.02 Horiz(TL) 0.00 3 n/a n/a Vind(LL) 0.00 5 >999 240 Weight: 11 lb 2x4 SPF No.2 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 4. 5, 33 lb uplift at joint 3. 5, 33 lb uplift at joint 4. LOAD CASE(S) Standard Structural wood sheathing directly applied or 3-0-13 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. Standard LOAD CASE(S) Standard (Ib/size) 3-58/ Mechanical, 4=26/ Mechanical, 5=248/0-3-8 Standard LOAD CASE(S) Standard Max Horiz 5=88 (LC 1), 4=52 (LC 3), 5=-40 (LC 8) (LC 8) Maximum Compression/Maximum Tension 2-5-222/73, 1-2-0/41, 2-3=-48/16 4-5=-68/11 2-4-0/63 2-5-222/73, 1-2-0/41, 2-3=-48/16 4-5=-68/11 3-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5- |

- 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.
- 4) Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

February 4,2022

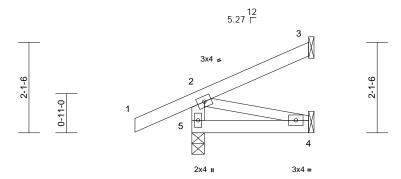
Page: 1

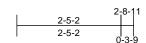


| Job | Truss | Truss Type | Qty | Ply | Lot 149 CB | |
|---------|-------|------------------|-----|-----|--------------------------|-----------|
| B220065 | J2 | Jack-Open Girder | 1 | 1 | Job Reference (optional) | 150049386 |

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Feb 03 10:04:12 ID:gOp5IoPuKNC?gJSe1gf_qdzuPP5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale = 1:26.9

| 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 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.07 | Vert(TL) | -0.01 | 4-5 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.02 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2012/TPI2007 | Matrix-P | | | | | | | Weight: 11 lb | FT = 10% |
| LUMBER | | | | | | | | | - | | | |
| TOP CHORD | 2x4 SPF No.2 | | | | | | | | | | | |
| BOT CHORD | | | | | | | | | | | | |
| WEBS | 2x4 SPF No.2 *Exce | ept* 4-2:2x3 SPF No | 0.2 | | | | | | | | | |
| BRACING | | | | | | | | | | | | |
| TOP CHORD | Structural wood she | athing directly appli | ed or | | | | | | | | | |
| | 2-10-14 oc purlins, | except end verticals | 3. | | | | | | | | | |
| BOT CHORD | Rigid ceiling directly | applied or 10-0-0 o | С | | | | | | | | | |
| | bracing. | | | | | | | | | | | |
| REACTIONS | | chanical, 4=26/ | | | | | | | | | | |
| | | al, 5=247/0-3-8 | | | | | | | | | | |
| | Max Horiz 5=58 (LC | | | | | | | | | | | |
| | Max Uplift 3=-33 (LC (LC 8) | 58), 4=-1 (LC 8), 5= | -41 | | | | | | | | | |
| | Max Grav 3=58 (LC | 1) 1-52 (1 C 3) 5- | 247 | | | | | | | | | |
| | (LC 1) | 1), 4–32 (LO 3), 3– | 241 | | | | | | | | | |
| FORCES | (lb) - Maximum Com | pression/Maximum | | | | | | | | | | |
| | Tension | | | | | | | | | | | |
| TOP CHORD | 2-5=-222/56, 1-2=0/- | 41, 2-3=-48/16 | | | | | | | | | | |
| BOT CHORD | 4-5=-63/0 | | | | | | | | | | | |
| WEBS | 2-4=0/65 | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | |
| 1) Wind: ASC | CE 7-10; Vult=115mph | (3-second gust) V | | | | | | | | | | |
| (IRC2012) |)=91mph; TCDL=6.0ps | sf; BCDL=6.0psf; h= | 25ft; | | | | | | | | | The |
| , , | p C; Enclosed; MWFR | · · · · | | | | | | | | | | ALSO |
| zone: cant | tilover left and right ev | nosed · end vertical | loft | | | | | | | | | |

- zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 2). This truns have been designed for a 10.0 per bettem
- 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 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 5, 33 lb uplift at joint 3 and 1 lb uplift at joint 4.

LOAD CASE(S) Standard



Page: 1

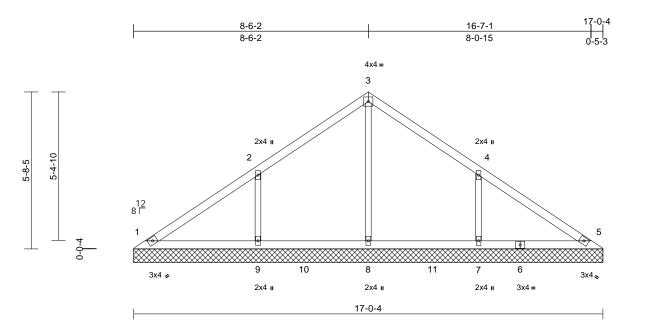
February 4,2022



| Job | Truss | Truss Type | Qty | Ply | Lot 149 CB | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B220065 | V1 | Valley | 1 | 1 | Job Reference (optional) | 150049387 |

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Feb 03 10:04:12 ID:gOp5loPuKNC?gJSe1gf_qdzuPP5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:41.8

| 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 YES IRC2012/T | FPI2007 | CSI TC BC WB Matrix-S | 0.22 0.12 0.13 | 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: 50 lb | GRIP 197/144 FT = 10% |
|---|---|---|--|---|--|--|---|--------------------------|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|
| I | 6-0-0 oc purlins. Rigid ceiling directly bracing. (lb/size) 1=170/17 7=429/17 9=429/17 Max Horiz 1=-140 (L Max Uplift 1=-15 (LC 9=-173 (L Max Grav 1=170 (LG | .C 4) C 9), 7=-173 (LC 9), .C 8) | 6) T c 7) * c dor c 8) F t 1 LOA | This truss ha chord live loa * This truss h on the botton 3-06-00 tall b chord and an Provide mech bearing plate | spaced at 4-0-0 or s been designed f d nonconcurrent of as been designed n chord in all area y 2-00-00 wide wi y other members, nanical connectior capable of withst ft at joint 9 and 17 Standard | for a 10.0 with any I for a liv s where ill fit betv with BC n (by oth anding 1 | other live load e load of 20.0 a rectangle veen the botto DL = 10.0psf ers) of truss to 5 lb uplift at jo |)psf om o | | | | | |
| FORCES | (lb) - Maximum Com Tension | pression/Maximum | | | | | | | | | | | |
| TOP CHORD | 1-2=-149/105, 2-3=- 4-5=-114/68 | 148/127, 3-4=-140/1 | 06, | | | | | | | | | | |
| BOT CHORD | 1-9=-41/95, 8-9=-41 5-7=-41/95 | /95, 7-8=-41/95, | | | | | | | | | | | |
| WEBS | | 7/219, 4-7=-347/219 | | | | | | | | | | A COLOR | ADD |
| this design 2) Wind: ASC (IRC2012)= Cat. II; Exp | d roof live loads have E 7-10; Vult=115mph =91mph; TCDL=6.0ps C; Enclosed; MWFR | i (3-second gust) V sf; BCDL=6.0psf; h=2 S (envelope) exterior | • | | | | | | | | | STATE OF M | T M. ER |

- zone; cantilever left and right exposed ; end vertical left and right exposed; 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) Gable requires continuous bottom chord bearing.

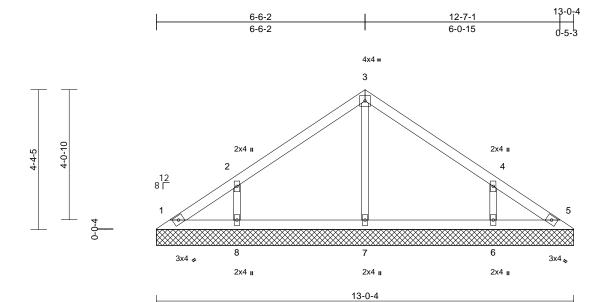
PE-20010188 SSIONAL E February 4,2022



| Job | Truss | Truss Type | Qty | Ply | Lot 149 CB | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B220065 | V2 | Valley | 1 | 1 | Job Reference (optional) | 150049388 |

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Feb 03 10:04:12 ID:8aNTy8QW5hKsIT1rbNADMqzuPP4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



| Scale | 1.26 |
|-------|------|
| | |

| 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 YES IRC201 | 2/TPI2007 | CSI TC BC WB Matrix-S | 0.17 0.10 0.08 | 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: 36 lb | GRIP 197/144 FT = 10% | |
|--|---|---|--|--|--|-----------------------------------|---|--|--------------------------|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|--|
| LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS | 2x4 SPF 2x3 SPF Structura 6-0-0 oc Rigid ceii bracing. (lb/size) Max Horiz Max Uplift | No.2 No.2 Il wood she purlins. ling directly 1=73/13-(6=330/13 8=330/13 1=-106 (L 1=-22 (LC (LC 9), 8= 1=91 (LC | | ; 8) Lu 139 ;=348 | This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar Provide mec bearing plate | | for a 10.0 with any d for a liv as where vill fit betw s. on (by oth tanding 2 | other live loa e load of 20.0 a rectangle veen the botto ers) of truss t 2 lb uplift at j |)psf om o oint | | | | | | |
| FORCES | (lb) - Max Tension | kimum Com | pression/Maximum | | | | | | | | | | | | |
| TOP CHORD | | | 44/97, 3-4=-140/74, | | | | | | | | | | | | |
| BOT CHORD | | 73, 7-8=-26 | /73, 6-7=-26/73, | | | | | | | | | | | | |
| WEBS | | | 81/181, 4-6=-281/18 | 0 | | | | | | | | | CONT | ADD | |
| this design 2) Wind: AS (IRC2012) | n. CE 7-10; Vι)=91mph; T | ult=115mph CDL=6.0ps | been considered for (3-second gust) V f; BCDL=6.0psf; h=2 S (envelope) exterior | 25ft; | | | | | | | | | STATE OF A | MISSOUR TM. HER | |

DOL=1.60 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, 3) or consult qualified building designer as per ANSI/TPI 1.

zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip

4) Gable requires continuous bottom chord bearing.

NUMBER PE-200101880' C SSIONAL E February 4,2022



| Job | Truss | Truss Type | Qty | Ply | Lot 149 CB | | | | |
|---------|-------|------------|-----|-----|--------------------------|-----------|--|--|--|
| B220065 | V3 | Valley | 1 | 1 | Job Reference (optional) | 150049389 | | | |

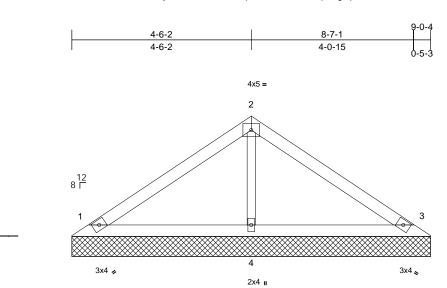
2-8-10

0-0-4

3-0-5

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Feb 03 10:04:12 ID:8aNTy8QW5hKsiT1rbNADMqzuPP4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



9-0-4

| Sca | <u> </u> | 1:29 | |
|-----|----------|------|--|
| | | | |

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--|--|------------------------------|-----------------|---|--------------|----------------------|-------------|-------|------------|------------|---------------|----------|
| TCLL (roof) TCDL | 25.0 | Plate Grip DOL Lumber DOL | 1.15 1.15 | | 0.22 0.14 | Vert(LL) Vert(TL) | n/a | - | n/a | 999 999 | MT20 | 197/144 |
| BCLL | 10.0 0.0* | Rep Stress Incr | YES | - | 0.14 | Horiz(TL) | n/a 0.00 | - 3 | n/a n/a | 999 n/a | | |
| BCDL | 10.0 | Code | IRC2012/TPI2007 | Matrix-S | 0.05 | | 0.00 | 3 | n/a | n/a | Weight: 23 lb | FT = 10% |
| LUMBER | | • | 7) * This truss | has been designed for | r a live | e load of 20.0 | psf | | | | | ÷ |
| TOP CHORE | D 2x4 SPF No.2 | | | om chord in all areas w | | | • | | | | | |
| BOT CHORE | | | | by 2-00-00 wide will fit | t betw | een the botto | m | | | | | |
| OTHERS | 2x3 SPF No.2 | | | any other members. | | | | | | | | |
| BRACING | | | , bearing pla | chanical connection (b te capable of withstand | | | | | | | | |
| TOP CHORE | D Structural wood she 6-0-0 oc purlins. | athing directly applie | | ift at joint 3 and 14 lb u | | | JIII | | | | | |
| BOT CHORE | | applied or 10-0-0 oc | C LOAD CASE(S |) Standard | | | | | | | | |
| REACTIONS | S (lb/size) 1=188/9-0 | 0-4, 3=188/9-0-4, | | | | | | | | | | |
| | 4=355/9-0 | | | | | | | | | | | |
| | Max Horiz 1=-71 (LC | , | | | | | | | | | | |
| | Max Uplift 1=-36 (LC (LC 8) | 5 8), 3=-44 (LC 9), 4= | =-14 | | | | | | | | | |
| FORCES | (Ib) - Maximum Corr | proceion/Maximum | | | | | | | | | | |
| FUNCES | Tension | ipression/maximum | | | | | | | | | | |
| TOP CHORE | | | | | | | | | | | | |
| BOT CHORE | , | /65 | | | | | | | | | | |
| WEBS | 2-4=-231/59 | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | |
| Unbaland this desident | ced roof live loads have | been considered for | r | | | | | | | | | |
| | gn. SCE 7-10; Vult=115mph | (3-second quet) \/ | | | | | | | | | | |
| | 2)=91mph; TCDL=6.0ps | | 25ft: | | | | | | | | ~ | ~ |
| | Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 | | | | | | | | | | | |
| | intilever left and right exp | | left | | | | | | | | FE OF I | VIISS D |
| | t exposed; Lumber DOL | =1.60 plate grip | | | | | | | | A | | N.S. |
| DOL=1.6 | | the slope of the true | | | | | | | | A | SCOT | TM. CAN |
| | esigned for wind loads in or studs exposed to wind | | | | | | | | | 4 | SEVI | ER \'Y |
| only. FO | i studs exposed to wind | (normal to the lace) | /, | | | | | | | N A | | |

- 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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

NITEK 16023 Swingley Ridge Rd Chesterfield, MO 63017

PE-2001018807

E

February 4,2022

SSIONAL

| Job | Truss | Truss Type | Qty | Ply | Lot 149 CB | | | |
|---------|-------|------------|-----|-----|--------------------------|-----------|--|--|
| B220065 | V4 | Valley | 1 | 1 | Job Reference (optional) | 150049390 | | |

2-6-2 2-6-2

Wheeler Lumber, Waverly, KS - 66871,

1-4-10

0-0-4

1-8-5

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Feb 03 10:04:12 ID:8aNTy8QW5hKsIT1rbNADMqzuPP4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

4-7-1

2-0-15

5-0-4

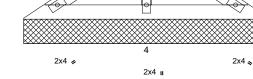
3



8¹²

4x4 =

2



5-0-4

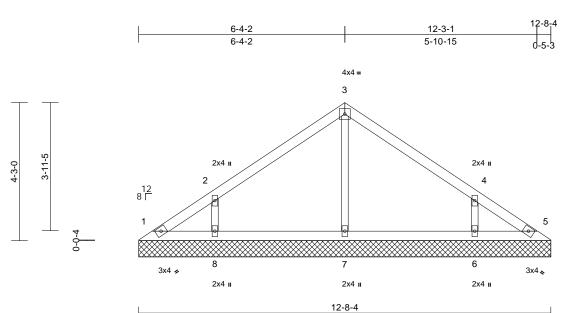
Scale = 1:23.6

| Scale = 1:23.6 | | | | | | | | | | | | |
|---|--|--|---------------------------------|---|----------------------|--|--------------------------|----------------------|-----------------------------|--------------------------|----------------|------------------------|
| 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 YES | CSI TC BC WB | 0.07 0.04 0.02 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in n/a n/a 0.00 | (loc) - - 3 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 | GRIP 197/144 |
| BCDL | 10.0 | Code | IRC2012/TPI2007 | Matrix-P | | | | | | | Weight: 12 lb | FT = 10% |
| FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Unbalance this design 2) Wind: ASC (IRC2012) Cat. II; Ex zone; cant and right e DOL=1.60 3) Truss desi only. For see Stand or consult 4) Gable req 5) Gable stuc 6) This truss chord live 7) * This truss on the bot 3-06-00 ta | 5-1-0 oc purlins. Rigid ceiling directly bracing. (Ib/size) 1=104/5-(4=162/5-(Max Horiz 1=36 (LC Max Uplift 1=-23 (LC (Ib) - Maximum Com Tension 1-2=-65/33, 2-3=-62 1-4=-7/30, 3-4=-7/30 2-4=-111/28 ed roof live loads have at roof live loads have CE 7-10; Vult=115mph =91mph; TCDL=6.0ps o C; Enclosed; MWFR ilever left and right exposed; Lumber DOL | b-4, 3=104/5-0-4, b-4, 3=104/5-0-4, c 8), 3=-28 (LC 9) ppression/Maximum (25 been considered for (3-second gust) V f; BCDL=6.0psf; h=2 S (envelope) exterior posed ; end vertical lient end vertical lient end vertical lient end vertical lient boosed ; end vertical lient boosed ; end vertical lient end vertical lient a plane of the trust (normal to the face) d Details as applicab gner as per ANSI/TP m chord bearing. r a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle | 5ft; feft s le, l1. | Matrix-P thanical connection e capable of withs uplift at joint 3. Standard | | , | | | | | PE-2001 | ER South |
| | | | | | | | | | | | | |



| Job | Truss | Truss Type | Qty | Ply | Lot 149 CB | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B220065 | V5 | Valley | 1 | 1 | Job Reference (optional) | 150049391 |

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Feb 03 10:04:13 ID:8aNTy8QW5hKsIT1rbNADMqzuPP4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



| Scale | = | 1:35.5 |
|-------|---|--------|
| | | |

| 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 YES IRC201 | 2/TPI2007 | CSI TC BC WB Matrix-S | 0.17 0.10 0.08 | 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: 35 lb | GRIP 197/144 FT = 10% |
|---|---|--|--|--|--|--|---|---------------------------|----------------------|-----------------------------|---------------------------|---------------------------------|------------------------------------|
| LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD | 6-0-0 oc purlins. | athing directly applie | 0 | This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar Provide mec bearing plate | spaced at 4-0-0 is been designe ad nonconcurren has been desigr n chord in all ar by 2-00-00 wide hanical connect o capable of witt | ed for a 10.0 nt with any ned for a liv eas where will fit betw ers. tion (by oth nstanding 2 | other live loa e load of 20.0 a rectangle veen the botto ers) of truss to 5 lb uplift at j | 0psf om to joint | | | | | |
| REACTIONS | (lb/size) 1=61/12-4 6=326/12 8=326/12 Max Horiz 1=-103 (L Max Uplift 1=-25 (LC (LC 9), 8- Max Grav 1=82 (LC | .C 4) C 4), 5=-6 (LC 5), 6=- 138 (LC 8) | 138 =344 | 1, 6 lb uplift a uplift at joint OAD CASE(S) | | uplift at joi | nt 8 and 138 | lb | | | | | |
| FORCES | (lb) - Maximum Com Tension | pression/Maximum | | | | | | | | | | | |
| TOP CHORD | 1-2=-108/80, 2-3=-1 4-5=-85/46 | 43/95, 3-4=-140/72, | | | | | | | | | | | |
| BOT CHORD | 1-8=-25/72, 7-8=-25 5-6=-25/72 | /72, 6-7=-25/72, | | | | | | | | | | | |
| WEBS | 3-7=-200/23, 2-8=-2 | 80/180, 4-6=-280/18 | 0 | | | | | | | | | | A Dec |
| this design 2) Wind: ASC (IRC2012) | ed roof live loads have n. CE 7-10; Vult=115mph I=91mph; TCDL=6.0ps p C; Enclosed; MWFR | ı (3-second gust) V sf; BCDL=6.0psf; h=2 | :5ft; | | | | | | | | Contraction of the second | STATE OF SCOT | T M. IER |

zone; cantilever left and right exposed; end vertical left and right exposed; 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) Gable requires continuous bottom chord bearing. February 4,2022

NUMBER

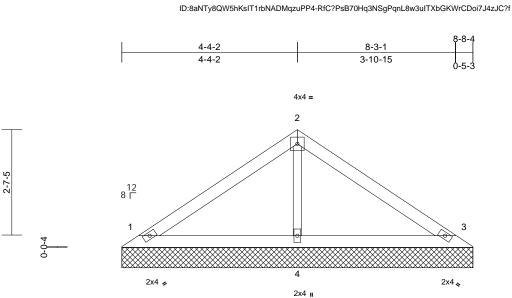


| Job | Truss | Truss Type | Qty | Ply | Lot 149 CB | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B220065 | V6 | Valley | 1 | 1 | Job Reference (optional) | 150049392 |

2-11-0

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Feb 03 10:04:13





8-8-4

| Scale = | 1:28.5 |
|---------|--------|
|---------|--------|

| 00010 - 1.20.0 | | | | | | | | | | | - | |
|-----------------|--|--------------------------|-----------------|---------------------|----------|--------------------|------|-------|--------|-----------|---------------|-----------|
| 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 | 0.29 | Vert(LL) | n/a | (.00) | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.13 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.05 | Horiz(TL) | 0.00 | 3 | n/a | n/a | 1 | |
| BCDL | 10.0 | Code | IRC2012/TPI2007 | Matrix-P | 0.00 | 110112(112) | 0.00 | 0 | Π/α | n/a | Weight: 22 lb | FT = 10% |
| | 10.0 | Oude | | Matrix 1 | | | | | | | Weight. 22 lb | 11 = 1070 |
| LUMBER | | | | chanical connectior | | | | | | | | |
| | 2x4 SPF No.2 | | | e capable of withst | anding 4 | 13 lb uplift at jo | oint | | | | | |
| BOT CHORD | 2x4 SPF No.2 | | 1 and 52 lb | uplift at joint 3. | | | | | | | | |
| OTHERS | 2x3 SPF No.2 | | LOAD CASE(S) | Standard | | | | | | | | |
| BRACING | | | | | | | | | | | | |
| TOP CHORD | Structural wood she | eathing directly applie | ed or | | | | | | | | | |
| | 6-0-0 oc purlins. | | | | | | | | | | | |
| BOT CHORD | 0 0 , | / applied or 10-0-0 or | | | | | | | | | | |
| | bracing. | | | | | | | | | | | |
| REACTIONS | (lb/size) 1=197/8- 4=306/8- | 8-4, 3=197/8-8-4, 8-4 | | | | | | | | | | |
| | Max Horiz 1=-68 (LC | | | | | | | | | | | |
| | Max Uplift 1=-43 (LC | C 8), 3=-52 (LC 9) | | | | | | | | | | |
| FORCES | (lb) - Maximum Con | npression/Maximum | | | | | | | | | | |
| | Tension | | | | | | | | | | | |
| TOP CHORD | 1-2=-122/62, 2-3=-1 | 18/47 | | | | | | | | | | |
| BOT CHORD | 1-4=-14/57, 3-4=-14 | 4/57 | | | | | | | | | | |
| WEBS | 2-4=-209/53 | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | |
| 1) Unbalance | ed roof live loads have | been considered for | r | | | | | | | | | |
| this design |). | | | | | | | | | | | |
| 2) Wind: ASC | CE 7-10; Vult=115mpl | n (3-second gust) V | | | | | | | | | | |
| | =91mph; TCDL=6.0p | | | | | | | | | | | |
| | C; Enclosed; MWFF | | | | | | | | | | | an |
| | ilever left and right ex | | eft | | | | | | | | OFA | MIG |
| | exposed; Lumber DOL | .=1.60 plate grip | | | | | | | | | TATE OF M | USS W |
| DOL=1.60 | | | | | | | | | | 6 | TAN' | N.S. |
| | gned for wind loads ir | | | | | | | | | R | SCOT | ГМ. VEV |
| | studs exposed to wind ard Industry Gable Er | | | | | | | | | 0 | SEVI | ER \ Y |
| | qualified building des | | | | | | | | | 8 | | • • |
| | uires continuous botto | | 11. | | | | | | | NP | 1 11- | 0 |
| | | | | | | | | | | | | |
| | has been designed fo | | | | | | | | - | 117 | a NUM | CR AND |
| | load nonconcurrent w | | ds. | | | | | | | N. | PE-2001 | 018807 |
| 7) * This truss | s has been designed | for a live load of 20.0 | psf | | | | | | | Y | NON CON | 154 |
| | tom chord in all areas | | | | | | | | | | Signe | FNO |
| | ll by 2-00-00 wide will | fit between the botto | m | | | | | | | | ESSIONA | L |
| chord and | any other members. | | | | | | | | | | | |
| | | | | | | | | | | | Februa | ry 4,2022 |
| | | | | | | | | | | | | • |



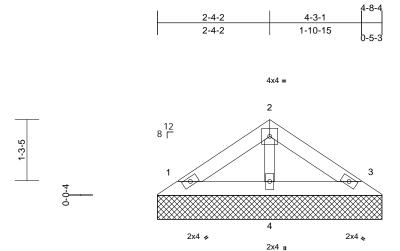
| Job | Truss | Truss Type | Qty | Ply | Lot 149 CB | |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| B220065 | V7 | Valley | 1 | 1 | Job Reference (optional) | 150049393 |

1-7-0

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu Feb 03 10:04:13 ID:8aNTy8QW5hKsIT1rbNADMqzuPP4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

4-8-4

Page: 1



Scale - 1.24

| Scale = 1:24 | | | | | | | | | | | | |
|--|---|--|---|--|----------------------|--|--------------------------|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|
| 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 YES IRC2012/TPI2007 | CSI TC BC WB Matrix-P | 0.06 0.03 0.02 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in n/a n/a 0.00 | (loc) - - 3 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 11 lb | GRIP 197/144 FT = 10% |
| LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD BOT CHORD WEBS NOTES 1) Unbalance this design 2) Wind: ASC (IRC2012): Cat. II; Exp zone; canti and right e DOL=1.60 3) Truss desig only. For s see Standa or consult (4) Gable requ 5) Gable stud 6) This truss on the bott | 2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood shea 4-9-0 oc purlins. Rigid ceiling directly bracing. (lb/size) 1=96/4-8- 4=149/4-8 Max Horiz 1=-33 (LC Max Uplift 1=-21 (LC (lb) - Maximum Com Tension 1-2=-59/30, 2-3=-57, 1-4=-7/28, 3-4=-7/28 2-4=-102/26 d roof live loads have E 7-10; Vult=115mph =91mph; TCDL=6.0ps 0 C; Enclosed; MWFR lever left and right exp xposed; Lumber DOL- gned for wind loads in studs exposed to wind ard Industry Gable Em spaced at 2-0-0 oc. has been designed for oad noncourrent wi s has been designed for om chord in all areas | athing directly applie applied or 10-0-0 oc 4, 3=96/4-8-4, 3-4 2 4) 3 8), 3=-25 (LC 9) apression/Maximum /23 3 been considered for (3-second gust) V sf; BCDL=6.0psf; h=/2 S (envelope) exterio posed ; end vertical I =1.60 plate grip the plane of the trus (normal to the face) d Details as applicat gner as per ANSI/TF m chord bearing. r a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle | 8) Provide met bearing plat 1 and 25 lb LOAD CASE(S) bd or c <lic< li=""> c <lic< li=""> c c <lic< li=""> c c c <lic< li=""> c <lic< li=""> c <lic< li=""> c <lic< li=""> c c c <lic< li=""> c <lic< li=""> <lic< li=""> c c <lic< li=""> c c <lic< li=""> c c <lic< li=""> c c <lic< li=""> c c <lic< li=""> c <lic< li=""> c <lic< li=""> c c c c c c <lic< li=""> c c <lic< li=""> <lic< li=""> c <lic< li=""> <lic< td=""><td>chanical connectio e capable of withs uplift at joint 3.</td><td></td><td></td><td></td><td></td><td></td><td></td><td>Weight: 11 lb</td><td>MISSOLA T M. ER</td></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<></lic<> | chanical connectio e capable of withs uplift at joint 3. | | | | | | | Weight: 11 lb | MISSOLA T M. ER |
| | I by 2-00-00 wide will any other members. | | | | | | | | | | Februa | ry 4,2022 |



