

MiTek USA, Inc. RE: P210577 -16023 Swingley Ridge Rd Site Information: Chesterfield, MO 63017 314-434-1200

Project Customer: Starr Homes Project Name: Milligan Residence Lot/Block: 3A/4A Subdivision: Tiffany Woods

Model: Milligan Residence

Address: 512 NE Promised View Dr.

City: Lees Summit State: MO

General Truss Engineering Criteria & Design Loads (Individual Truss Design

Drawings Show Special Loading Conditions):

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.6

Wind Code: ASCE 7-16 Wind Speed: 115 mph Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16

Roof Load: 60.0 psf Floor Load: N/A psf

Mean Roof Height (feet): 35 Exposure Category: C

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Premier Building Supply (Springhill, KS)20300 W 207th Street.

Truss Design Engineer's Name: Sevier, Scott

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

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







RE: P210577 -

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

| No. | Seal# | Truss Name | | No. | Seal# | Truss Name | |
|-------------------|------------------------|--------------|------------------|------------|------------------------|----------------------|------------------|
| 69 | 158733413 | G04 | 6/6/23 | 134 | 158733478 | J53 | 6/6/23 |
| 70 | 158733414 | G05 | 6/6/23 | 135 | 158733479 | J54 | 6/6/23 |
| 71 | 158733415 | G06 | 6/6/23 | 136 | 158733480 | K01 | 6/6/23 |
| 72 | 158733416 | G07 | 6/6/23 | 137 | 158733481 | K02 | 6/6/23 |
| 73 | 158733417 | G08 | 6/6/23 | 138 | 158733482 | K03 | 6/6/23 |
| 74 | 158733418 | G09 | 6/6/23 | 139 | 158733483 | K04 | 6/6/23 |
| 75 | 158733419 | G10 | 6/6/23 | 140 | 158733484 | LG01 | 6/6/23 |
| 76 | 158733420 | G11 | 6/6/23 | 141 | 158733485 | LG02 | 6/6/23 6/6/23 |
| 77 | 158733421 | G12 | 6/6/23 | 142 | 158733486 | LG03 | 6/6/23 |
| 78 | 158733422 | G13 | 6/6/23 | 143 | 158733487 | LG04 | 6/6/23 |
| 79 | 158733423 | GG01 | 6/6/23 | 144 | 158733488 | LG05 | 6/6/23 |
| 80 | 158733424 | H01 | 6/6/23 | 145 | 158733489 | LG06 | 6/6/23 |
| 81 | 158733425 | H02 | 6/6/23 | 146 | 158733490 | LG07 | 6/6/23 |
| 82 | 158733426 | J01 | 6/6/23 | 147 | 158733491 | LG08 | 6/6/23 |
| 83 | 158733427 | J02 | 6/6/23 | 148 | 158733492 | LG09 | 6/6/23 |
| 84 | 158733428 | J03 | 6/6/23 | 149 | 158733493 | LG10 | 6/6/23 |
| 85 | 158733429 | J04 | 6/6/23 | 150 | 158733494 | LG11 | 6/6/23 |
| 86 | 158733430 | J05 | 6/6/23 | 151 | 158733495 | LG12 | 6/6/23 |
| 87 | 158733431 | J06 | 6/6/23 | 152 | 158733496 | LG13 | 6/6/23 |
| 88 | 158733432 | J07 | 6/6/23 | 153 | 158733497 | LG14 | 6/6/23 |
| 89 90 | 158733433 | J08 | 6/6/23 | 154 155 | 158733498 | LG15 LG16 | 6/6/23 |
| 91 | 158733434 158733435 | J09 J10 | 6/6/23 6/6/23 | 156 | 158733499 158733500 | LG17 | 6/6/23 6/6/23 |
| 92 | 158733436 | J11 | 6/6/23 | 157 | 158733501 | LG18 | 6/6/23 |
| 93 | 158733437 | J12 | 6/6/23 | 158 | 158733502 | LG19 | 6/6/23 |
| 94 95 | 158733438 158733439 | J13 | 6/6/23 | 159 160 | 158733503 | LG20 LG21 | 6/6/23 |
| 96 | 158733440 | J14 J15 | 6/6/23 6/6/23 | 161 | 158733504 158733505 | LG22 | 6/6/23 6/6/23 |
| 97 | 158733441 | J16 | 6/6/23 | 162 | 158733506 | LG23 | 6/6/23 |
| 98 | 158733442 | J17 | 6/6/23 | 163 | 158733507 | LG24 | 6/6/23 |
| 99 100 | 158733443 158733444 | J18 J19 | 6/6/23 | 164 165 | 158733508 158733509 | LG24 LG25 LG26 | 6/6/23 |
| 101 | 158733445 | J20 | 6/6/23 6/6/23 | 166 | 158733510 | LG27 | 6/6/23 6/6/23 |
| 102 | 158733446 | J21 | 6/6/23 | 167 | 158733511 | LG28 | 6/6/23 |
| 103 | 158733447 | J22 | 6/6/23 | 168 | 158733512 | LG29 | 6/6/23 |
| 104 | 158733448 | J23 | 6/6/23 | 169 | 158733513 | M01 | 6/6/23 |
| 105 | 158733449 | J24 | 6/6/23 | 170 | 158733514 | M02 | |
| 106 | 158733450 | J25 | 6/6/23 6/6/23 | 171 | 158733515 | M03 | 6/6/23 6/6/23 |
| 107 | 158733451 | J26 | 6/6/23 | 172 | 158733516 | M04 | 6/6/23 |
| 108 | 158733452 | J27 | 6/6/23 | 173 | 158733517 | M05 | 6/6/23 |
| 109 | 158733453 | J28 | 6/6/23 | 174 | 158733518 | M06 | 6/6/23 |
| 110 | 158733454 | J29 | 6/6/23 | 175 | 158733519 | M07 | 6/6/23 |
| 111 | 158733455 | J30 | 6/6/23 6/6/23 | 176 | 158733520 | M08 | 6/6/23 6/6/23 |
| 112 | 158733456 | J31 | 6/6/23 | 177 | 158733521 | M09 | 6/6/23 |
| 113 | 158733457 | J32 | | 178 | 158733522 | M10 | 6/6/23 |
| 114 | 158733458 | J33 | 6/6/23 | 179 | 158733523 | M11 | 6/6/23 |
| 115 | 158733459 | J34 | 6/6/23 | 180 | 158733524 | M12 | 6/6/23 |
| 116 | 158733460 | J35 | 6/6/23 | 181 | 158733525 | M13 | 6/6/23 |
| 117 | 158733461 | J36 | 6/6/23 | 182 | 158733526 | MG01 | 6/6/23 |
| 118 | 158733462 | J37 | 6/6/23 | 183 | 158733527 | N01 | 6/6/23 |
| 119 | 158733463 | J38 | 6/6/23 | 184 | 158733528 | N02 | 6/6/23 |
| | 158733464 | J39 | 6/6/23 | 185 | 158733529 | N03 | 6/6/23 |
| 120 121 | 158733465 | J40 | 6/6/23 | 186 | 158733530 | P01 | 6/6/23 |
| 122 | 158733466 | J41 | 6/6/23 | 187 | 158733531 | P02 | 6/6/23 |
| 123 | 158733467 | J42 | 6/6/23 | 188 | 158733532 | P03 | 6/6/23 |
| 123 124 125 | 158733468 158733469 | J43 J44 | 6/6/23 | 189 190 | 158733533 158733534 | P04 P05 | 6/6/23 6/6/23 |
| 126 | 158733470 | J45 | 6/6/23 6/6/23 | 191 | 158733535 | P06 | 6/6/23 |
| 127 | 158733471 | J46 | 6/6/23 | 192 | 158733536 | P07 | 6/6/23 |
| 128 | 158733472 | J47 | 6/6/23 | 193 | 158733537 | P08 | 6/6/23 |
| 129 | 158733473 | J48 | 6/6/23 | 194 | 158733538 | P09 | 6/6/23 |
| 130 | 158733474 | J49 | | 195 | 158733539 | P10 | 6/6/23 |
| 131 | 158733475 | J <u>5</u> 0 | 6/6/23 6/6/23 | 196 | 158733540 | P11 | 6/6/23 |
| 132 | 158733476 | J51 | 6/6/23 | 197 | 158733541 | P12 | 6/6/23 |
| 133 | 158733477 | J52 | 6/6/23 | 198 | 158733542 | P13 | 6/6/23 |





RE: P210577 -

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| Seal# 158733543 158733544 158733546 158733546 158733548 158733550 158733552 158733552 158733555 158733556 158733556 158733561 158733561 158733561 158733561 158733561 158733563 158733563 158733563 158733563 158733563 158733563 158733563 158733563 158733563 158733563 158733563 158733563 | P14 P15 P16 Q01 Q02 Q03 Q04 Q05 Q06 Q07 Q08 Q09 QG01 QG02 R01 R02 R03 R04 R05 R06 R07 R06 R07 R08 V01 V02 V03 V04 V05 V05 V06 V06 V06 R09 V06 R09 R09 R09 R09 R09 R09 R09 R09 R09 R09 | 6/6/23 |
|---|---|--|
| 158733569 158733570 | V04 V05 | 6/6/23 6/6/23 |
| | 158733543 158733544 158733545 158733547 158733549 158733550 158733551 158733553 158733554 158733554 158733556 158733556 158733556 158733560 158733561 158733561 158733563 158733563 158733563 158733563 158733565 158733565 158733567 158733567 158733567 158733574 158733570 158733570 158733570 158733570 158733570 | 158733543 |

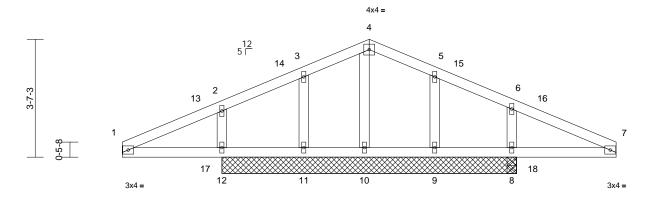
Ply Qty Job Truss Truss Type P210577 A01 Common Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733345 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Ion Jun ID:ya9HPcizEcbKBSa5IYXIh4z9Zqq-RfC?PsB70Hq3NSgPqnL8w3uITXbGK rCDoi7





| ١ | 3-0-8 | 7-4-12 | 11-10-12 12 | -0-8 15-1-0 |
|---|-------|--------|-----------------------|-------------------|
| | 3-0-8 | 4-4-4 | 4-6-0 ₀₋ - | 1-12 3-0-8 |

Scale = 1:35.2

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.40 | Vert(LL) | 0.00 | 8-9 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.25 | Vert(CT) | 0.01 | 8-9 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.13 | Horz(CT) | 0.00 | 8 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | 1 | | | | | | | Weight: 58 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS OTHERS 2x4 SPF No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

10-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size)

8=0-3-8, 9=9-0-0, 10=9-0-0, 11=9-0-0, 12=9-0-0

Max Horiz 12=62 (LC 16)

Max Uplift 8=-135 (LC 13), 9=-50 (LC 17) 11=-60 (LC 16), 12=-127 (LC 12)

Max Grav 8=533 (LC 36), 9=207 (LC 23),

10=483 (LC 2), 11=251 (LC 2),

12=491 (LC 35)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-301/418, 2-3=-218/380, 3-4=-152/372, 4-5=-143/353, 5-6=-200/349, 6-7=-290/403

1-12=-312/297, 11-12=-312/294, 10-11=-312/294, 9-10=-293/286, **BOT CHORD**

8-9=-293/286 7-8=-293/286

4-10=-432/185, 6-8=-388/215 2-12=-368/200, 3-11=-228/144, 5-9=-202/121

NOTES

WEBS

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 7-6-8, Exterior(2R) 7-6-8 to 12-6-8, Interior (1) 12-6-8 to 15-1-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at joint 12, 60 lb uplift at joint 11, 50 lb uplift at joint 9 and 135 lb uplift at joint 8.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023





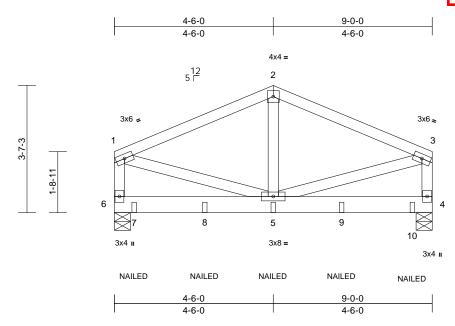
Ply Job Truss Truss Type Qty P210577 A02 Common Girder Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733346 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Mon Jun 05) 97:452 KWrCDoi 74232 ff Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:Q2E5BmwG?8tnLDyYoJrzQtz9ZqY-RfC?PsB70Hq3NSgPqnL8w3uITXbG



Scale = 1:32.6

| 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 | 0.49 | Vert(LL) | -0.01 | 4-5 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.19 | Vert(CT) | -0.02 | 4-5 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.28 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 47 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SPF No 2

2x4 SPF No.3 *Except* 6-1,4-3:2x4 SP No.2 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-6-2 oc purlins, except end verticals.

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

bracing.

4=0-5-8, 6=0-5-8 REACTIONS (size)

Max Horiz 6=53 (LC 13)

Max Grav 4=985 (LC 2), 6=985 (LC 2) (lb) - Maximum Compression/Maximum

FORCES

Tension

TOP CHORD 1-2=-862/142, 2-3=-862/152, 1-6=-708/182,

3-4=-708/182

BOT CHORD 5-6=-139/154, 4-5=-57/119

WFRS 2-5=0/267, 1-5=-29/634, 3-5=-61/634

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-78, 2-3=-78, 4-6=-20

Concentrated Loads (lb)

Vert: 5=-181 (B), 7=-187 (B), 8=-181 (B), 9=-181 (B),

10=-187 (B)



June 6,2023

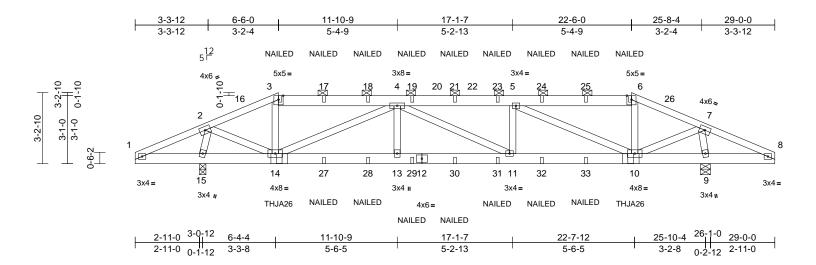




| Job | Truss | Truss Type | Qty | Ply | | AS |
|---------|-------|------------|-----|-----|--------------------------|----|
| P210577 | A03 | Hip Girder | 1 | 2 | Job Reference (optional) | |

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 15 167/46 ID:CCugGNFG5xkAY7MhFQqmt3z9Zoq-RfC?PsB70Hq3NSgPqnL8w3uITXt GKWrCDor/J-2/C7

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733347 LEE'S SUMMIT. MISSOURI



| Scal | le | = | 1 | :52 | .2 |
|------|----|---|---|-----|----|
| | | | | | |

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.21 | Vert(LL) | -0.06 | 11-13 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.37 | Vert(CT) | -0.12 | 11-13 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.41 | Horz(CT) | 0.03 | 9 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 283 lb | FT = 20% |

LUMBER

2x4 SP No.2 *Except* 3-6:2x6 SPF No.2 TOP CHORD **BOT CHORD** 2x6 SPF No.2 2x4 SPF No.3

WFBS **BRACING**

Structural wood sheathing directly applied or TOP CHORD

6-0-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 3-6 Rigid ceiling directly applied or 6-0-0 oc

BOT CHORD bracing

REACTIONS (size) 9=0-5-8, 15=0-3-8

Max Horiz 15=-51 (LC 21)

Max Uplift 9=-708 (LC 13), 15=-700 (LC 12) Max Grav 9=1723 (LC 2), 15=1708 (LC 55)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-269/416, 2-3=-1473/804

3-4=-1344/753, 4-5=-3270/1180,

5-6=-1303/737, 6-7=-1428/786, 7-8=-274/418

BOT CHORD 1-15=-302/263, 14-15=-181/286,

13-14=-1105/3282, 11-13=-1105/3282, 10-11=-1105/3270, 9-10=-255/276,

8-9=-303/269

WEBS 2-14=-720/1481, 3-14=-141/230,

4-14=-2153/501, 4-13=0/285, 4-11=-101/84, 5-11=0/292, 5-10=-2186/512, 6-10=-150/230,

7-10=-754/1550, 2-15=-1588/733,

7-9=-1591/736

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows

staggered at 0-9-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 6-6-0, Exterior(2R) 6-6-0 to 13-6-14, Interior (1) 13-6-14 to 22-6-0, Exterior(2E) 22-6-0 to 29-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 700 lb uplift at joint 15 and 708 lb uplift at joint 9.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord
- 12) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Right Hand Hip) or equivalent at 6-6-6 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.

- 13) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Left Hand Hip) or equivalent at 22-5-10 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-3=-78, 3-6=-88, 6-8=-78, 1-8=-20

Concentrated Loads (lb)

Vert: 3=-24 (B), 6=-24 (B), 14=313 (B), 10=313 (B), 17=-70 (B), 18=-70 (B), 19=-70 (B), 21=-70 (B),

23=-70 (B), 24=-70 (B), 25=-70 (B), 27=-24 (B),

28=-24 (B), 29=-24 (B), 30=-24 (B), 31=-24 (B),

32=-24 (B), 33=-24 (B)



June 6,2023



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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



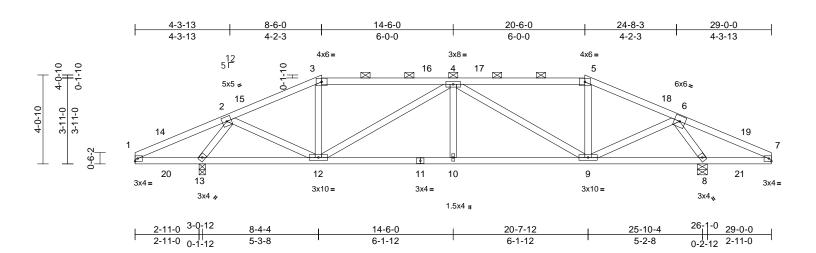
16023 Swingley Ridge Rd Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | | Г |
|---------|-------|------------|-----|-----|--------------------------|---|
| P210577 | A04 | Hip | 1 | 1 | Job Reference (optional) | L |

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 12747 ID:V5sAtOL_RXuMzQ?Z8X3N2jz9ZoB-RfC?PsB70Hq3NSgPqnL8w3uITXbG_WrCDoin-4239.ft

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733348 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:52.5

| 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 | 0.94 | Vert(LL) | -0.06 | 10 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.62 | Vert(CT) | -0.16 | 10-12 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.95 | Horz(CT) | 0.05 | 8 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | 1 | | | | | | | Weight: 131 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-2-15 oc purlins, except

2-0-0 oc purlins (2-2-0 max.): 3-5. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing

REACTIONS (size) 8=0-5-8, 13=0-3-8

Max Horiz 13=-70 (LC 21)

Max Uplift 8=-247 (LC 13), 13=-244 (LC 12) Max Grav 8=1747 (LC 2), 13=1733 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-307/547, 2-3=-1667/239,

3-4=-1464/238, 4-5=-1441/236,

5-6=-1642/238. 6-7=-311/553

BOT CHORD 1-13=-392/305, 12-13=-84/662 10-12=-255/2208, 9-10=-255/2208,

8-9=-67/591, 7-8=-397/309

WFBS 2-12=-101/910, 3-12=0/231, 4-12=-896/150,

4-10=0/249, 4-9=-919/153, 5-9=0/223,

6-9=-113/953, 2-13=-1904/417,

6-8=-1883/415

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 8-6-0, Exterior(2R) 8-6-0 to 15-6-14, Interior (1) 15-6-14 to 20-6-0, Exterior(2R) 20-6-0 to 27-6-14, Interior (1) 27-6-14 to 29-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 244 lb uplift at joint 13 and 247 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 6,2023



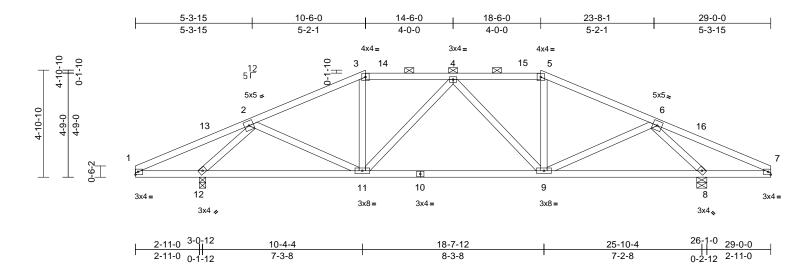


| Job | Truss | Truss Type | Qty | Ply | |
|---------|-------|------------|-----|-----|-------------------------|
| P210577 | A05 | Hip | 1 | 1 | Job Reference (optional |

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 15 127;45 ID:ZFoGbK82vMwpoLRj0FduLTz9Znh-RfC?PsB70Hq3NSgPqnL8w3ulTXbG WrCDoN-429e ff

DEVELOPMENT SERVICES 158733349 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW



Scale = 1:52.6

| 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 | 0.84 | Vert(LL) | -0.08 | 9-11 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.70 | Vert(CT) | -0.22 | 9-11 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.66 | Horz(CT) | 0.05 | 8 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 132 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

Structural wood sheathing directly applied or TOP CHORD

3-9-3 oc purlins, except

2-0-0 oc purlins (4-6-15 max.): 3-5. Rigid ceiling directly applied or 6-0-0 oc

BOT CHORD bracing

REACTIONS (size) 8=0-5-8, 12=0-3-8

Max Horiz 12=-85 (LC 21)

Max Uplift 8=-219 (LC 13), 12=-216 (LC 12)

Max Grav 8=1747 (LC 2), 12=1733 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-353/632, 2-3=-1723/210,

3-4=-1488/212, 4-5=-1476/211, 5-6=-1710/210, 6-7=-355/641

BOT CHORD 1-12=-448/352. 11-12=-160/1110.

9-11=-149/1695, 8-9=-98/1058, 7-8=-457/356 WEBS 2-11=-12/474, 3-11=0/272, 5-9=0/268,

6-9=-22/506, 2-12=-2179/515,

6-8=-2161/513, 4-11=-392/102, 4-9=-408/106

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-2-3, Interior (1) 5-2-3 to 10-6-0, Exterior(2R) 10-6-0 to 17-6-14, Interior (1) 17-6-14 to 18-6-0, Exterior(2R) 18-6-0 to 25-6-14, Interior (1) 25-6-14 to 29-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this desian.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 219 lb uplift at joint 8 and 216 lb uplift at joint 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 6,2023





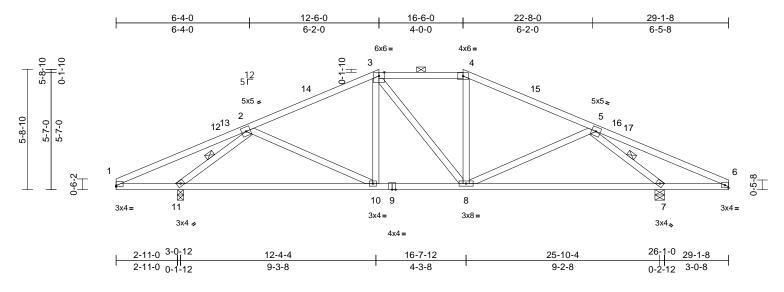
| Job | Truss | Truss Type | Qty | Ply | |
|---------|-------|------------|-----|-----|--------------------|
| P210577 | A06 | Hip | 1 | 1 | Job Reference (opt |

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733350 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:Z3NYInl2u1LaQBrWVT2rvDz9Zmu-RfC?PsB70Hq3NSgPqnL8w3uITXbGl WrCDoi



Scale = 1:54.8

Plate Offsets (X, Y): [1:Edge,0-0-11], [6:Edge,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 | 0.77 | Vert(LL) | -0.18 | 10-11 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.84 | Vert(CT) | -0.37 | 10-11 | >747 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.60 | Horz(CT) | 0.05 | 7 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 134 lb | FT = 20% |

LUMBER

2x4 SP 1650F 1.5E *Except* 3-4:2x4 SP TOP CHORD

No.2

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-8-15 oc purlins, except

2-0-0 oc purlins (4-9-4 max.): 3-4. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

WEBS 1 Row at midpt 2-11, 5-7

REACTIONS 7=0-5-8, 11=0-3-8 (size)

Max Horiz 11=101 (LC 16)

Max Uplift 7=-205 (LC 17), 11=-201 (LC 16)

Max Grav 7=1822 (LC 40), 11=1787 (LC 40)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-414/670, 2-3=-1655/195, 3-4=-1397/215, 4-5=-1648/194, 5-6=-434/719

BOT CHORD 1-11=-462/414, 10-11=-225/1378,

8-10=-55/1404, 7-8=-118/1329, 6-7=-509/433 **WEBS**

2-10=-39/204, 3-10=0/209, 3-8=-138/118, 4-8=0/201, 5-8=-5/226, 2-11=-2401/606,

5-7=-2427/616

NOTES

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 12-6-0, Exterior(2E) 12-6-0 to 16-6-0, Exterior(2R) 16-6-0 to 23-6-14, Interior (1) 23-6-14 to 29-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this desian.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 205 lb uplift at joint 7 and 201 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802 10 2 and referenced standard ANSI/TPI 1
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 6,2023





Ply Qty Job Truss Truss Type P210577 A07 Common Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733351 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. I ID:P1K5FGRoTYXUIxiTLxZDjEz9Zm?-RfC?PsB70Hq3NSgPqnL8w3uITXbG

1on Jun 05 WrCDoi

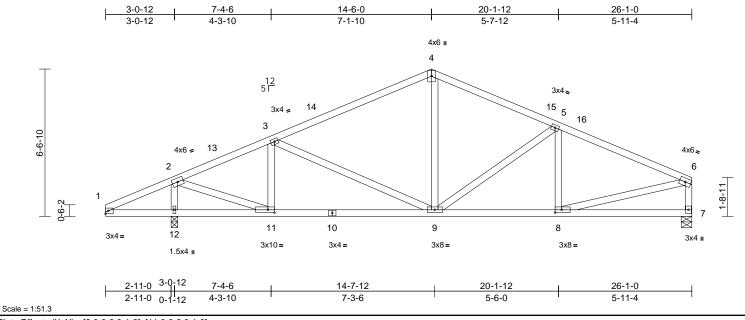


Plate Offsets (X, Y): [8:0-3-8,0-1-8], [11:0-3-8,0-1-8]

| 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 | 0.78 | Vert(LL) | -0.07 | 9-11 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.57 | Vert(CT) | -0.19 | 9-11 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.81 | Horz(CT) | 0.03 | 7 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 126 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.5E *Except* 4-6:2x4 SP

No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SPF No.3 *Except* 7-6:2x4 SP No.2 BRACING

TOP CHORD

Structural wood sheathing directly applied or 3-4-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 6-0-0 oc

BOT CHORD

REACTIONS 7=0-5-8, 12=0-3-8 (size)

Max Horiz 12=123 (LC 20)

Max Uplift 7=-157 (LC 17), 12=-219 (LC 16) Max Grav 7=1348 (LC 2), 12=1765 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-261/390. 2-3=-1634/205.

3-4=-1504/258, 4-5=-1485/269, 5-6=-1805/259, 6-7=-1286/210

1-12=-284/254, 11-12=-284/280,

BOT CHORD 9-11=-211/1456, 8-9=-215/1574, 7-8=-45/126

WEBS 6-8=-175/1495, 2-12=-1660/372, 3-11=-490/199, 2-11=-329/1834,

3-9=-316/166, 4-9=-21/493, 5-9=-457/166, 5-8=-271/115

NOTES

Unbalanced roof live loads have been considered for

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 14-6-0, Exterior(2R) 14-6-0 to 19-6-0, Interior (1) 19-6-0 to 25-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 157 lb uplift at joint 7 and 219 lb uplift at joint 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023





Ply Job Truss Truss Type Qty P210577 A08 Common Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733352 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. I ID:aP0h7rnMt83W6Frs_p4nr8z9ZIZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGK\

non Jun rCDoi7

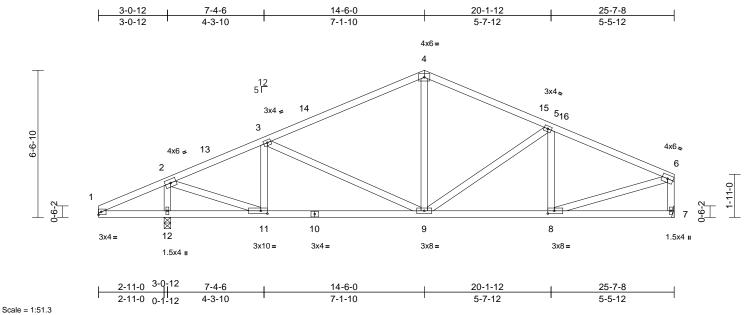


Plate Offsets (X, Y): [8:0-3-8,0-1-8], [11:0-3-8,0-1-8]

| 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 | 0.77 | Vert(LL) | -0.07 | 9-11 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.55 | Vert(CT) | -0.17 | 9-11 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.79 | Horz(CT) | 0.03 | 7 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 124 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.5E *Except* 4-6:2x4 SP

No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SPF No.3 *Except* 7-6:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-10-4 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc

BOT CHORD

REACTIONS (size) 7= Mechanical, 12=0-3-8

Max Horiz 12=124 (LC 16)

Max Uplift 7=-152 (LC 17), 12=-217 (LC 16) Max Grav 7=1320 (LC 2), 12=1738 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-262/390. 2-3=-1594/204.

3-4=-1455/253, 4-5=-1422/262

5-6=-1660/249, 6-7=-1264/206

BOT CHORD 1-12=-283/255, 11-12=-283/281

9-11=-210/1420, 8-9=-210/1449, 7-8=-41/93 6-8=-177/1426, 2-12=-1632/372,

WEBS 3-11=-480/197, 2-11=-327/1795,

3-9=-321/168, 4-9=-12/459, 5-9=-378/152,

5-8=-329/123

NOTES

Unbalanced roof live loads have been considered for

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 14-6-0, Exterior(2R) 14-6-0 to 19-6-0, Interior (1) 19-6-0 to 25-5-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 152 lb uplift at joint 7 and 217 lb uplift at joint 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023



Ply Qty Job Truss Truss Type P210577 AG01 Jack-Closed Girder Job Reference (optiona

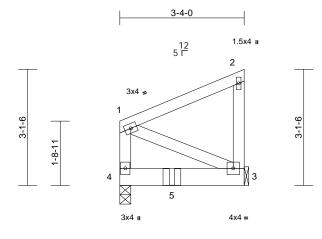
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733353 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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3-4-0

HUS26

| 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 | 0.32 | Vert(LL) | -0.02 | 3-4 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.98 | Vert(CT) | -0.04 | 3-4 | >817 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.06 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | 1 | | | | | | | Weight: 19 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SPF No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-4-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 2-9-12 oc

bracing.

REACTIONS (size) 3= Mechanical, 4=0-3-8

Max Horiz 4=116 (LC 13)

Max Uplift 3=-128 (LC 13), 4=-119 (LC 16)

Max Grav 3=717 (LC 2), 4=948 (LC 2) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-4=-155/94, 1-2=-99/91, 2-3=-152/133

BOT CHORD 3-4=-204/153

WEBS 1-3=-122/183

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint 4 and 128 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent at 1-4-12 from the left end to connect truss(es) to front face of bottom chord
- Fill all nail holes where hanger is in contact with lumber.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-2=-78, 3-4=-20

Concentrated Loads (lb)

Vert: 5=-1086 (F)



June 6,2023





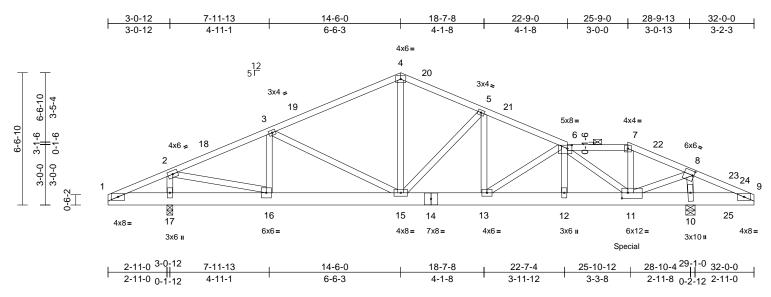
Ply Job Truss Truss Type Qty P210577 B01 Roof Special Girder Job Reference (optiona

DEVELOPMENT SERVICES 158733354 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Non Jun ID:ZUCPUb7YKSlahPnsWj0zvrz9Zfy-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7



Scale = 1:57.1

Plate Offsets (X, Y): [6:0-2-12,0-2-0], [8:0-0-12,0-2-8], [11:0-3-8,0-3-4]

| 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 | TC | 0.77 | Vert(LL) | -0.08 | 12-13 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.59 | Vert(CT) | -0.18 | 12-13 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.96 | Horz(CT) | 0.03 | 10 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 181 lb | FT = 20% |

LUMBER

2x4 SP No.2 *Except* 1-4:2x4 SP 1650F TOP CHORD

1.5E

BOT CHORD 2x8 SPF No.2 WEBS 2x4 SPF No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-3-7 oc purlins, except

2-0-0 oc purlins (4-2-9 max.): 6-7. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 10=0-5-8, 17=0-3-8

17=-115 (LC 21) Max Horiz

Max Uplift 10=-568 (LC 17), 17=-268 (LC 16) Max Grav 10=2359 (LC 2), 17=1971 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-236/169, 2-3=-2023/281

3-4=-1948/333, 4-5=-1890/354,

5-6=-2546/451, 6-7=-1772/534, 7-8=-2005/564, 8-9=-272/226

BOT CHORD 1-17=-87/232, 16-17=-96/276,

15-16=-268/1794, 13-15=-257/2274,

12-13=-523/2944, 11-12=-524/2940,

10-11=-251/270, 9-10=-142/267

WEBS 4-15=-144/888, 5-15=-905/293,

5-13=-120/484, 6-13=-793/313, 6-12=0/146, 6-11=-1558/256, 7-11=-138/439,

8-11=-592/2163, 8-10=-1962/572,

2-17=-1661/361, 2-16=-338/1910,

3-16=-526/202, 3-15=-267/176

NOTES

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 14-6-0, Exterior(2R) 14-6-0 to 19-6-0, Interior (1) 19-6-0 to 25-9-0, Exterior(2R) 25-9-0 to 30-9-0, Interior (1) 30-9-0 to 32-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 568 lb uplift at joint 10 and 268 lb uplift at joint 17.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 491 lb down and 351 lb up at 25-8-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-4=-78, 4-6=-78, 6-7=-88, 7-9=-78, 1-9=-20 Concentrated Loads (lb)

Vert: 11=-400 (B)



June 6,2023





Ply Qty Job Truss Truss Type P210577 B02 Roof Special Job Reference (optiona

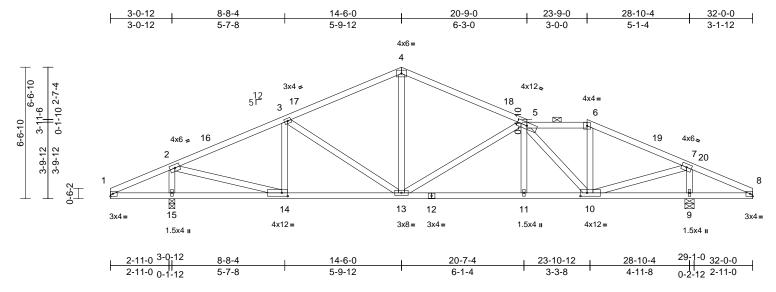
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733355 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:_PWgyhBlcUN5FxWmgBbbTPz9Zea-RfC?PsB70Hq3NSgPqnL8w3uITXb

KWrCD



Scale = 1:57.4

| Loading | (psf) | Spacing | 2-0-0 | csı | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.82 | Vert(LL) | -0.08 | 11-13 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.67 | Vert(CT) | -0.21 | 11-13 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.93 | Horz(CT) | 0.05 | 9 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 153 lb | FT = 20% |

LUMBER

2x4 SP No.2 *Except* 4-5:2x4 SP 1650F TOP CHORD

1.5E

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-8-10 oc purlins, except 2-0-0 oc purlins (4-4-6 max.): 5-6.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 9=0-5-8, 15=0-3-8

Max Horiz 15=118 (LC 20)

Max Uplift 9=-257 (LC 17), 15=-227 (LC 16)

Max Grav 9=1926 (LC 2), 15=1914 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-254/297, 2-3=-1957/222

3-4=-1773/269, 4-5=-1780/265,

5-6=-1595/258, 6-7=-1841/244, 7-8=-259/337

BOT CHORD 1-15=-180/242, 14-15=-192/285,

13-14=-198/1711, 11-13=-164/2287, 10-11=-166/2283, 9-10=-202/246,

8-9=-202/246

WEBS 5-11=0/187, 5-10=-1043/154, 6-10=-1/321,

4-13=-34/691, 5-13=-891/217, 2-15=-1787/395, 3-13=-320/155, 3-14=-401/158, 2-14=-308/1946,

7-9=-1805/408, 7-10=-305/1871

NOTES

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 14-6-0, Exterior(2R) 14-6-0 to 19-6-0, Interior (1) 19-6-0 to 23-9-0, Exterior(2R) 23-9-0 to 28-10-4, Interior (1) 28-10-4 to 32-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 227 lb uplift at joint 15 and 257 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

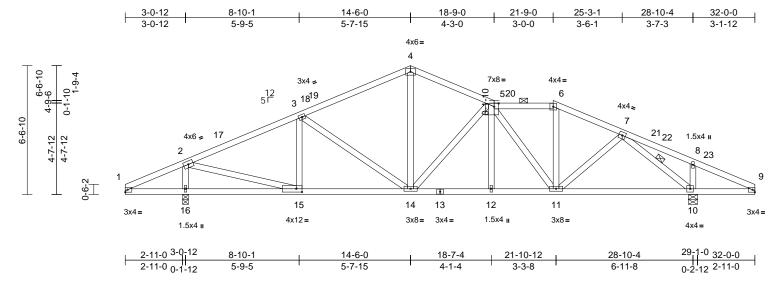




| Job | Truss | Truss Type | Qty | Ply | |
|---------|-------|--------------|-----|-----|--------------------------|
| P210577 | B03 | Roof Special | 1 | 1 | Job Reference (optional) |

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733356 LEE'S SUMMIT. MISSOURI

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



Scale = 1:58.6

Plate Offsets (X, Y): [5:0-2-12,0-2-0], [15:0-3-8,0-2-0]

| 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 | TC | 0.66 | Vert(LL) | -0.07 | 12-14 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.57 | Vert(CT) | -0.17 | 12-14 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.86 | Horz(CT) | 0.05 | 10 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 159 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-7-12 oc purlins, except

2-0-0 oc purlins (4-4-15 max.): 5-6.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing. WEBS

1 Row at midpt 7-10 REACTIONS (size) 10=0-5-8. 16=0-3-8

Max Horiz 16=118 (LC 16)

Max Uplift 10=-257 (LC 17), 16=-227 (LC 16)

Max Grav 10=1926 (LC 2), 16=1914 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-255/288, 2-3=-1971/222

3-4=-1760/262, 4-5=-1726/281, 5-6=-1677/269, 6-7=-1886/268, 7-8=-208/352, 8-9=-292/383

BOT CHORD 1-16=-170/242, 15-16=-187/267,

14-15=-196/1721, 12-14=-128/2034,

11-12=-129/2033, 10-11=-117/1403,

9-10=-260/280

5-12=0/90, 5-11=-614/121, 6-11=-15/357,

2-16=-1786/381, 8-10=-451/170, 4-14=-78/800, 5-14=-766/191, 3-14=-340/154, 3-15=-383/160,

2-15=-312/1945, 7-11=-37/383, 7-10=-2131/405

NOTES

WEBS

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 14-6-0, Exterior(2E) 14-6-0 to 18-9-0, Interior (1) 18-9-0 to 21-9-0, Exterior(2R) 21-9-0 to 26-9-0, Interior (1) 26-9-0 to 32-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 227 lb uplift at joint 16 and 257 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 6,2023





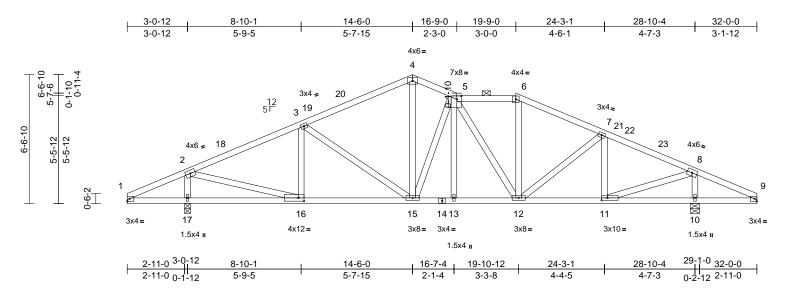
| Job | Truss | Truss Type | Qty | Ply | |
|---------|-------|--------------|-----|-----|------------------|
| P210577 | B04 | Roof Special | 1 | 1 | Job Reference (o |

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733357 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

optiona Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:fcxBRUnwlktVS31xrCRJH1z9ZcX-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK VrCDoi7



Scale = 1:58.6

Plate Offsets (X, Y): [5:0-2-12,0-2-0], [11:0-3-8,0-1-8], [16:0-3-8,0-2-0]

| 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 | TC | 0.66 | Vert(LL) | -0.07 | 13 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.51 | Vert(CT) | -0.16 | 15-16 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.86 | Horz(CT) | 0.04 | 10 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 166 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-7-8 oc purlins, except

2-0-0 oc purlins (4-4-13 max.): 5-6.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing

REACTIONS (size) 10=0-5-8, 17=0-3-8

Max Horiz 17=118 (LC 16) Max Uplift 10=-257 (LC 17), 17=-227 (LC 16)

Max Grav 10=1926 (LC 2), 17=1914 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-255/288, 2-3=-1972/222,

3-4=-1758/269, 4-5=-1669/294, 5-6=-1640/282, 6-7=-1868/275,

7-8=-1805/248, 8-9=-265/384

BOT CHORD 1-17=-170/242, 16-17=-188/262,

15-16=-196/1722, 13-15=-99/1780,

12-13=-100/1780, 11-12=-112/1584,

10-11=-256/254, 9-10=-256/254

5-13=0/42, 5-12=-289/69, 6-12=-14/305,

8-10=-1805/393, 2-17=-1786/380,

4-15=-117/886, 5-15=-708/180,

3-15=-340/152, 3-16=-383/163, 2-16=-316/1947, 7-12=-39/129,

7-11=-530/169, 8-11=-305/1909

NOTES

WEBS

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 14-6-0, Exterior(2E) 14-6-0 to 16-9-0, Interior (1) 16-9-0 to 19-9-0, Exterior(2R) 19-9-0 to 24-9-0, Interior (1) 24-9-0 to 32-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 257 lb uplift at joint 10 and 227 lb uplift at joint 17.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard







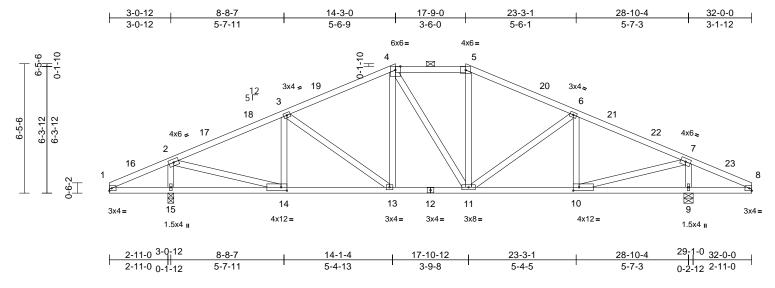
| Job | Truss | Truss Type | Qty | Ply | |
|---------|-------|------------|-----|-----|--------------------------|
| P210577 | B05 | Hip | 1 | 1 | Job Reference (optional) |

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733358 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:jmtH9QA?DZvzI_T5jw0qanz9Zc1-RfC?PsB70Hq3NSgPqnL8w3uITXbGK

/rCDoi7



Scale = 1:57.4

Plate Offsets (X, Y): [10:0-3-8,0-2-0], [14:0-3-8,0-2-0]

| 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 | TC | 0.72 | Vert(LL) | -0.06 | 13-14 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.51 | Vert(CT) | -0.16 | 13-14 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.86 | Horz(CT) | 0.04 | 9 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 158 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-4-13 oc purlins, except

2-0-0 oc purlins (4-7-0 max.): 4-5. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing

REACTIONS (size) 9=0-5-8, 15=0-3-8

Max Horiz 15=115 (LC 16)

Max Uplift 9=-226 (LC 17), 15=-225 (LC 16)

Max Grav 9=1967 (LC 40), 15=1955 (LC 40)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-256/292, 2-3=-2030/218,

3-4=-1787/237, 4-5=-1536/251, 5-6=-1782/237, 6-7=-2003/215, 7-8=-265/312

BOT CHORD 1-15=-175/243, 14-15=-191/248,

13-14=-191/1769, 11-13=-71/1539,

10-11=-72/1744, 9-10=-193/253,

8-9=-193/253

WEBS 4-13=-32/265, 4-11=-150/139, 5-11=-19/260,

2-15=-1830/377, 7-9=-1843/381, 6-11=-263/142, 3-13=-288/145, 6-10=-414/157, 7-10=-287/1956,

3-14=-398/154, 2-14=-284/1958

NOTES

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 14-3-0, Exterior(2E) 14-3-0 to 17-9-0, Exterior(2R) 17-9-0 to 24-9-14, Interior (1) 24-9-14 to 32-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this desian.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 225 lb uplift at joint 15 and 226 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802 10 2 and referenced standard ANSI/TPI 1
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard







Job Truss Truss Type Qty Ply P210577 B06 10 Common Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733359 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:UJMJr9G0K1wqGD4dBc9iuTz9Zbv-RfC?PsB70Hq3NSgPqnL8w3uITXbG

(WrCDc

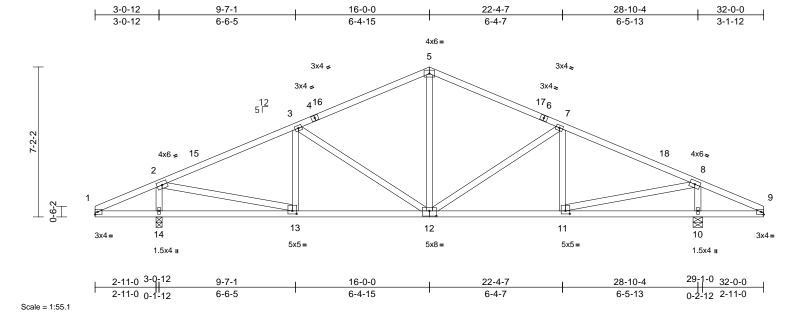


Plate Offsets (X, Y): [11:0-2-8,0-1-12], [12:0-4-0,0-3-0], [13:0-2-8,0-1-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.86 | Vert(LL) | -0.06 | 12-13 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.56 | Vert(CT) | -0.17 | 12-13 | >999 | 180 | 1 | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.85 | Horz(CT) | 0.03 | 10 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 150 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 10=0-5-8, 14=0-3-8

Max Horiz 14=-130 (LC 17)

Max Uplift 10=-240 (LC 17), 14=-239 (LC 16)

Max Grav 10=1926 (LC 2), 14=1914 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-253/250, 2-3=-2029/246, TOP CHORD

3-5=-1658/248, 5-7=-1657/247, 7-8=-2006/243, 8-9=-262/271

BOT CHORD 1-14=-129/238, 13-14=-168/251,

11-13=-222/1762, 10-11=-148/247,

9-10=-148/247 **WEBS**

8-10=-1792/398, 2-14=-1779/393,

5-12=-36/595, 3-12=-500/187,

7-12=-479/184, 3-13=-311/154, 2-13=-288/1932, 7-11=-325/157,

8-11=-293/1934

NOTES

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 16-0-0, Exterior(2R) 16-0-0 to 21-0-0, Interior (1) 21-0-0 to 32-0-0 zone; cantilever left and right exposed; end vertical left and right exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 240 lb uplift at joint 10 and 239 lb uplift at joint 14.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023





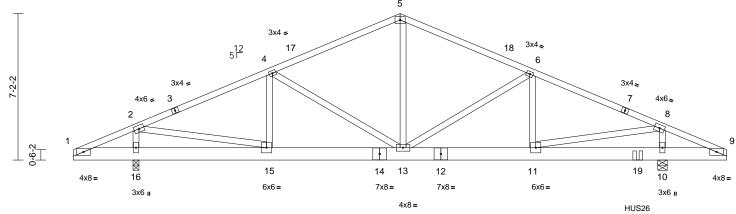
RELEASE FOR CONSTRUCTION Ply Job Truss Truss Type Qty P210577 B07 Common Girder Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733360 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun ID:KA_rnKOPu65sNGXSVZJz1az9ZZ9-RfC?PsB70Hq3NSgPqnL8w3uITXb0 KWrCD

16-0-0 22-6-0 3-0-12 9-7-4 28-10-4 32-0-0 3-0-12 6-6-8 6-4-12 6-6-0 6-4-4 3-1-12 4x6= 5



29-1-0 32-0-0 <u>2-11-0</u> 3-0-12 9-7-4 16-1-12 22-6-0 28-10-4 6-4-4 6-4-4 2-11-0 0-1-12 6-6-8 6-6-8 0-2-12 2-11-0 Scale = 1:56.4

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.77 | Vert(LL) | -0.06 | 13-15 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.52 | Vert(CT) | -0.13 | 11-13 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.83 | Horz(CT) | 0.02 | 10 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 176 lb | FT = 20% |

LUMBER

2x4 SP 1650F 1.5E *Except* 1-3,7-9:2x4 SP TOP CHORD

No 2

2x8 SPF No.2 BOT CHORD 2x4 SPF No.3 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-8-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing

REACTIONS (size) 10=0-5-8, 16=0-3-8 Max Horiz 16=127 (LC 16)

Max Uplift 10=-751 (LC 17), 16=-265 (LC 16)

Max Grav 10=1398 (LC 2), 16=1888 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-223/71, 2-4=-2005/289, 4-5=-1644/299,

5-6=-1660/298 6-8=-1862/397 8-9=-369/506

BOT CHORD 1-16=-10/215, 15-16=-102/230

13-15=-266/1741, 11-13=-240/1613,

10-11=-375/350, 9-10=-375/350 WEBS 2-16=-1600/375, 8-10=-1706/377,

5-13=-74/584, 2-15=-300/1719,

4-15=-335/168, 4-13=-492/188, 6-11=-568/233, 6-13=-325/295,

8-11=-302/1872

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 16-0-0, Exterior(2R) 16-0-0 to 21-0-0, Interior (1) 21-0-0 to 32-0-0 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 265 lb uplift at joint 16 and 751 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Use Simpson Strong-Tie HUS26 (14-16d Girder, 6-16d Truss, Single Ply Girder) or equivalent at 27-7-12 from the left end to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-5=-78, 5-9=-78, 1-9=-20

Concentrated Loads (lb)

Vert: 19=554 (F)







Ply Job Truss Truss Type Qty P210577 B08 Common Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733361 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun ID:gVdAQADZkltdEMdpJi4Db7z9Zag-RfC?PsB70Hq3NSgPqnL8w3uITXbGh

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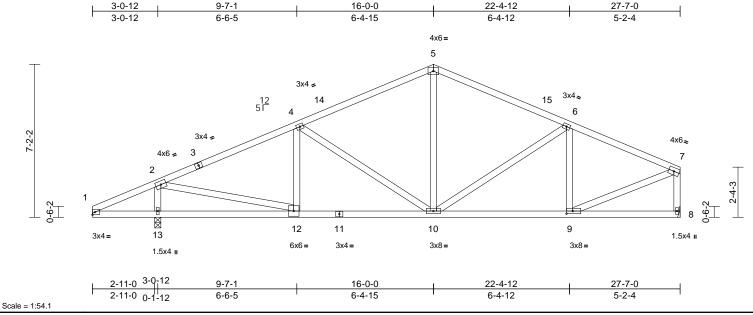


Plate Offsets (X, Y): [9:0-3-8,0-1-8]

| 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 | 0.86 | Vert(LL) | -0.05 | 10-12 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.54 | Vert(CT) | -0.15 | 10-12 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.81 | Horz(CT) | 0.03 | 8 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 136 lb | FT = 20% |

LUMBER

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

WEBS 2x4 SPF No.3 *Except* 8-7:2x4 SP 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 6-0-0 oc

bracing.

8= Mechanical, 13=0-3-8 REACTIONS (size)

Max Horiz 13=137 (LC 20)

Max Uplift 8=-162 (LC 17), 13=-234 (LC 16) Max Grav 8=1439 (LC 2), 13=1853 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-251/251, 2-4=-1927/238, TOP CHORD

4-5=-1535/274, 5-6=-1532/271,

6-7=-1651/243, 7-8=-1391/213 **BOT CHORD** 1-13=-130/235, 12-13=-174/268

10-12=-243/1668, 9-10=-216/1454,

8-9=-41/70

WEBS 7-9=-191/1523, 2-13=-1720/412,

5-10=-26/517, 4-10=-517/189,

4-12=-289/159, 2-12=-312/1837, 6-10=-298/146, 6-9=-476/151

NOTES

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 16-0-0. Exterior(2R) 16-0-0 to 21-0-0, Interior (1) 21-0-0 to 27-5-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 162 lb uplift at joint 8 and 234 lb uplift at joint 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard









Job Truss Truss Type Qtv Ply Roof Special P210577 B09 Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733362 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:s9rBsYmo77YE8GZTSfOnwcz9ZZz-RfC?PsB70Hq3NSgPqnL8w3ulTXbG (WrCD

3-1-12 6-6-11 9-10-4 12-11-13 16-0-0 19-2-4 22-5-14 25-9-8 27-4-4 30-6-0 3-1-12 3-4-15 3-3-9 3-1-9 3-0-3 3-2-4 3-3-10 3-3-10 ¹1-6-12 3-1-12

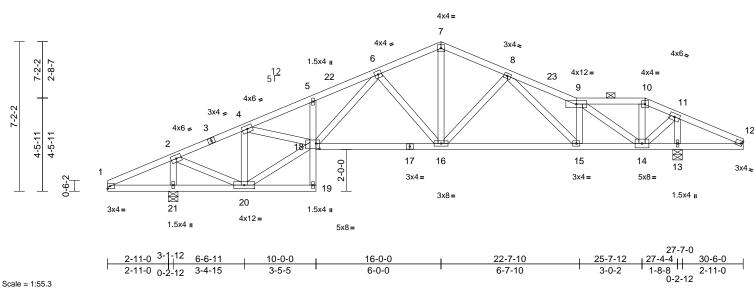


Plate Offsets (X, Y): [18:0-2-0,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | csı | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.36 | Vert(LL) | -0.10 | 16-18 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.69 | Vert(CT) | -0.28 | 16-18 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.74 | Horz(CT) | 0.13 | 13 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 153 lb | FT = 20% |

LUMBER

2x4 SP No.2 TOP CHORD

BOT CHORD 2x4 SP No.2 *Except* 19-5:2x4 SPF No.3 **WEBS**

2x4 SPF No.3 BRACING

TOP CHORD

Structural wood sheathing directly applied or

3-1-1 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 9-10.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing

REACTIONS (size) 13=0-5-8, 21=0-5-8

Max Horiz 21=179 (LC 16)

Max Uplift 13=-224 (LC 17), 21=-233 (LC 16)

Max Grav 13=1830 (LC 2), 21=1830 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-263/377, 2-4=-1447/188,

4-5=-3077/446, 5-6=-3093/503,

6-7=-1908/256, 7-8=-1913/264,

8-9=-2611/314, 9-10=-795/119, 10-11=-897/124, 11-12=-256/438

BOT CHORD 1-21=-264/255, 20-21=-283/215, 19-20=-10/45, 18-19=0/67, 5-18=-308/118,

16-18=-279/2190, 15-16=-167/2061, 14-15=-154/2346, 13-14=-316/250,

12-13=-316/250

WEBS 7-16=-133/1134, 9-15=-235/128,

9-14=-1884/249, 10-14=-13/146, 2-21=-1716/340, 2-20=-230/1675

4-20=-1388/255, 18-20=-277/1431, 4-18=-184/1569, 6-16=-758/230,

6-18=-218/939. 8-16=-547/177. 8-15=-83/463 11-13=-1714/352

11-14=-223/1436

NOTES

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 16-0-0, Exterior(2R) 16-0-0 to 21-0-0, Interior (1) 21-0-0 to 25-9-8, Exterior(2E) 25-9-8 to 30-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 233 lb uplift at joint 21 and 224 lb uplift at joint 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802 10 2 and referenced standard ANSI/TPI 1
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard





Job Truss Truss Type Qtv Ply Roof Special P210577 B10 Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733363 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Non Jun ID:D0L3uyGawDAe0K2Ijhcsymz9ZY1-RfC?PsB70Hq3NSgPqnL8w3uITXbGi

WrCDoi

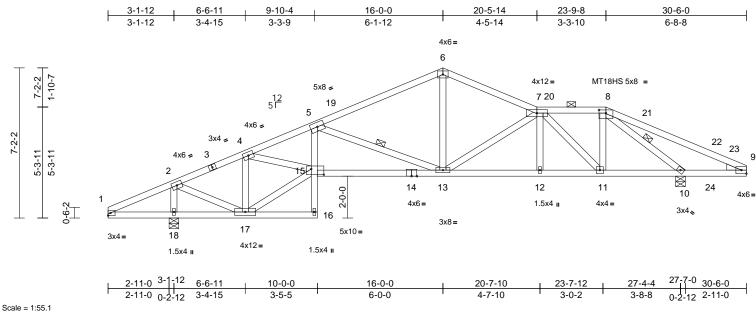


Plate Offsets (X, Y): [8:0-4-0,0-1-13], [15:0-7-4,0-3-4]

| 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 | TC | 0.89 | Vert(LL) | -0.11 | 13-15 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.83 | Vert(CT) | -0.29 | 13-15 | >999 | 180 | MT18HS | 197/144 |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.79 | Horz(CT) | 0.16 | 10 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 150 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 8-9:2x4 SP 1650F

1.5E

BOT CHORD 2x4 SP No.2 *Except* 16-5:2x4 SPF No.3

WEBS 2x4 SPF No.3

WEDGE Right: 2x4 SP No.3

BRACING

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or

1-7-8 oc purlins, except

2-0-0 oc purlins (4-4-14 max.): 7-8. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing. 5-13. 8-10

WEBS 1 Row at midpt

REACTIONS (size) 10=0-5-8, 18=0-5-8

Max Horiz 18=179 (LC 16)

Max Uplift 10=-222 (LC 17), 18=-233 (LC 16)

Max Grav 10=1816 (LC 2), 18=1844 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-262/372, 2-4=-1456/185,

4-5=-3312/486, 5-6=-2026/265,

6-7=-1975/284, 7-8=-1463/216, 8-9=-357/832

BOT CHORD 1-18=-258/254, 17-18=-279/214,

16-17=-18/65, 15-16=0/68, 5-15=-50/499, 13-15=-491/3103, 12-13=-177/2277,

11-12=-175/2281, 10-11=-85/1425,

9-10=-621/372

WEBS 5-13=-1440/372, 6-13=-62/920,

7-13=-651/167, 7-12=0/144, 7-11=-1130/162,

8-11=-37/791, 8-10=-2533/548,

2-18=-1731/334, 2-17=-225/1672 4-17=-1422/253, 15-17=-267/1435,

4-15=-234/1794

NOTES

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 16-0-0, Exterior(2E) 16-0-0 to 20-5-14, Interior (1) 20-5-14 to 23-9-8, Exterior(2R) 23-9-8 to 28-9-8, Interior (1) 28-9-8 to 30-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 222 lb uplift at joint 10 and 233 lb uplift at joint 18.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 6,2023



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 chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

Ply Job Truss Truss Type Qtv P210577 B11 Half Hip Girder Job Reference (optiona

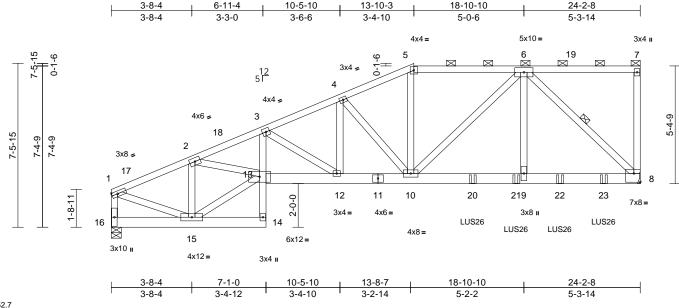
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733364 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Non Jun ID:esYd4oV7DNhoPPa8uuzYm_z9ZXj-RfC?PsB70Hq3NSgPqnL8w3ulTXb0

(WrCDol



Scale = 1:52.7

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.81 | Vert(LL) | 0.19 | 12-13 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.73 | Vert(CT) | -0.22 | 12-13 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.99 | Horz(CT) | 0.12 | 8 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 146 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No 2

BOT CHORD 2x6 SPF No.2 *Except* 14-3:2x4 SPF No.3 **WEBS** 2x4 SPF No.3 *Except* 16-1:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals, and

2-0-0 oc purlins (4-1-10 max.): 5-7.

BOT CHORD Rigid ceiling directly applied or 3-9-13 oc

bracing.

WEBS 1 Row at midpt 6-8

REACTIONS 8= Mechanical, 16=0-5-8 (size)

Max Horiz 16=283 (LC 13)

Max Uplift 8=-2522 (LC 13), 16=-674 (LC 16)

Max Grav 8=1526 (LC 32), 16=1345 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1610/870, 2-3=-3540/2419,

3-4=-2471/1876, 4-5=-2031/1794

5-6=-1852/1665, 6-7=-116/137, 7-8=-236/82, 1-16=-1280/679

BOT CHORD 15-16=-411/346, 14-15=-61/89, 13-14=-8/78,

3-13=-494/867, 12-13=-2524/3476, 10-12=-1956/2441, 9-10=-2023/1611,

8-9=-2023/1611

WEBS 2-15=-1446/1011, 13-15=-1198/1758,

2-13=-1484/1948, 6-8=-2101/2667, 1-15=-806/1472, 4-12=-129/591, 3-12=-1300/666, 4-10=-972/271, 5-10=-587/511, 6-10=-348/1109,

6-9=-1951/1075

NOTES

Unbalanced roof live loads have been considered for this design

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 13-10-3, Exterior(2R) 13-10-3 to 20-11-1, Interior (1) 20-11-1 to 24-0-12 zone; cantilever left and right exposed; end vertical left and right exposed C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2522 lb uplift at joint 8 and 674 lb uplift at joint 16.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 16-6-8 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
- 12) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 18-6-8 from the left end to 20-6-8 to connect truss(es) to back face of bottom chord.

- 13) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 22-6-8 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-5=-78, 5-7=-88, 14-16=-20, 8-13=-20 Concentrated Loads (lb)

Vert: 20=-37 (B), 21=234 (B), 22=234 (B), 23=234



June 6,2023





Job Truss Truss Type Qtv Ply P210577 B12 Roof Special Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733365 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Non Jun ID:LKCGJr1jsuEZhAxbT7lsYGz9ZX1-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7

3-4-36-6-9 11-2-6 15-10-3 19-3-2 22-8-0 24-2-8 3-4-3 3-2-7 4-7-13 4-7-13 3-4-14 3-4-14 1-6-8

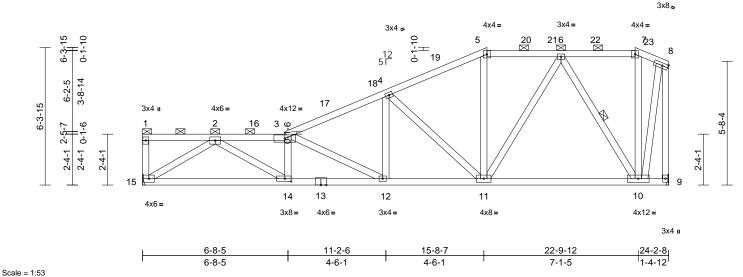


Plate Offsets (X, Y): [14:0-3-8,0-1-8]

| 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 | 0.77 | Vert(LL) | -0.10 | 12-14 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.81 | Vert(CT) | -0.25 | 12-14 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.82 | Horz(CT) | 0.07 | 9 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 144 lb | FT = 20% |

LUMBER

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

WEBS 2x4 SPF No.3 *Except* 9-8:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-2-14 oc purlins, except end verticals, and

2-0-0 oc purlins (3-0-7 max.): 1-3, 5-7. Rigid ceiling directly applied or 7-2-10 oc

BOT CHORD bracing.

WEBS 1 Row at midpt 6-10

REACTIONS 9= Mechanical, 15= Mechanical (size)

Max Horiz 15=241 (LC 15)

Max Uplift 9=-167 (LC 13), 15=-197 (LC 16) Max Grav 9=1435 (LC 2), 15=1435 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-15=-160/44, 1-2=-79/42, 2-3=-3292/427,

3-4=-2409/369, 4-5=-1546/303,

5-6=-1340/302, 6-7=-329/165, 7-8=-370/183,

8-9=-1439/220

BOT CHORD 14-15=-578/1949, 12-14=-661/3239,

11-12=-531/2145, 10-11=-288/941,

WEBS 4-11=-1085/241, 5-11=-7/250, 7-10=-128/115,

8-10=-238/1299, 3-14=-711/171, 6-11=-142/784, 6-10=-1242/294, 4-12=-30/566, 3-12=-1200/164,

2-14=-172/1571, 2-15=-2260/371

NOTES

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 15-10-3. Exterior(2R) 15-10-3 to 20-10-3, Interior (1) 20-10-3 to 22-8-0, Exterior(2E) 22-8-0 to 24-0-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 197 lb uplift at joint 15 and 167 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard







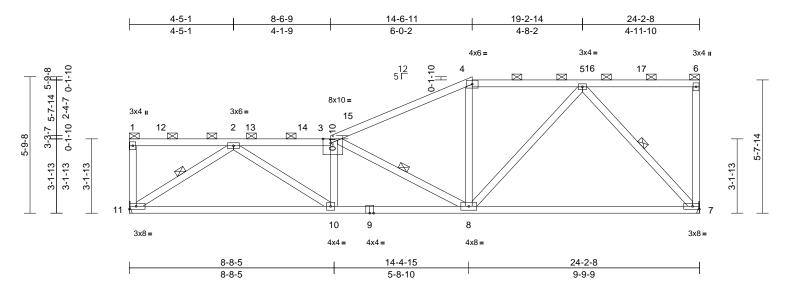
| Job | Truss | Truss Type | Qty | Ply | |
|---------|-------|--------------|-----|-----|--------------------------|
| P210577 | B13 | Roof Special | 1 | 1 | Job Reference (optional) |

DEVELOPMENT SERVICES 158733366 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:bcJWLYZhk5eSLmjsUf1ynKz9ZWM-RfC?PsB70Hq3NSgPqnL8w3uITXbCKWrCDord

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW



Scale = 1:48.9

Plate Offsets (X, Y): [3:0-3-14,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 | TC | 0.76 | Vert(LL) | -0.27 | 7-8 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 1.00 | Vert(CT) | -0.57 | 7-8 | >506 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.55 | Horz(CT) | 0.07 | 7 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 125 lb | FT = 20% |

LUMBER

2x4 SP No.2 *Except* 3-4:2x4 SP 1650F TOP CHORD

1.5E

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-6-3 oc purlins, except end verticals, and 2-0-0 oc purlins (3-3-9 max.): 1-3, 4-6.

BOT CHORD Rigid ceiling directly applied or 1-4-12 oc

bracing.

WEBS 1 Row at midpt 2-11, 5-7, 3-8 REACTIONS 7= Mechanical, 11= Mechanical (size)

Max Horiz 11=233 (LC 15)

Max Uplift 7=-196 (LC 12), 11=-200 (LC 12)

Max Grav 7=1435 (LC 2), 11=1435 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-11=-209/58, 1-2=-99/58, 2-3=-2778/371,

3-4=-1833/299, 4-5=-1586/312,

5-6=-132/117, 6-7=-227/69 **BOT CHORD** 10-11=-545/1774, 8-10=-593/2748,

7-8=-295/1047

WEBS 2-11=-2078/373, 2-10=-130/1204,

3-10=-541/161, 5-7=-1531/336, 4-8=0/258,

3-8=-1297/239, 5-8=-129/802

NOTES

TOP CHORD

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 14-6-11, Exterior(2R) 14-6-11 to 19-6-11, Interior (1) 19-6-11 to 24-0-12 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this desian.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 200 lb uplift at joint 11 and 196 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard









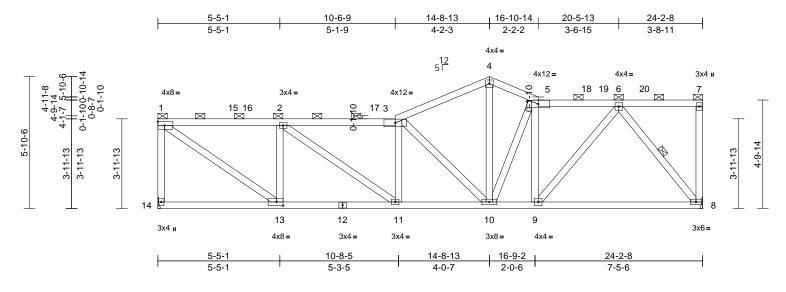
| Job | Truss | Truss Type | Qty | Ply | |
|---------|-------|--------------|-----|-----|-------------------------|
| P210577 | B14 | Roof Special | 1 | 1 | Job Reference (optional |

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733367 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:b8MNUAz0jYxeQ?KOUoewAVz9ZVq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCD



Scale = 1:51.2

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

| 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 | TC | 0.74 | Vert(LL) | -0.09 | 8-9 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.63 | Vert(CT) | -0.21 | 8-9 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.89 | Horz(CT) | 0.05 | 8 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 139 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-10-11 oc purlins, except end verticals, and

2-0-0 oc purlins (3-3-5 max.): 1-3, 5-7.

BOT CHORD Rigid ceiling directly applied or 8-5-3 oc

bracing.

WFRS 1 Row at midpt 6-8

REACTIONS 8= Mechanical, 14= Mechanical (size)

Max Horiz 14=186 (LC 13)

Max Uplift 8=-163 (LC 17), 14=-204 (LC 16) Max Grav 8=1435 (LC 2), 14=1435 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-14=-1383/232, 1-2=-1683/263,

2-3=-2294/317, 3-4=-1699/266, 4-5=-1655/275, 5-6=-1613/255,

6-7=-108/101, 7-8=-164/49 13-14=-266/257, 11-13=-442/1683,

10-11=-491/2277, 9-10=-329/1589,

8-9=-251/979

WEBS 5-9=-629/200, 3-11=-330/129,

3-10=-1066/189, 4-10=-118/961, 5-10=-328/52, 2-11=-122/741,

2-13=-1048/243, 1-13=-294/2019,

6-9=-134/994, 6-8=-1555/306

NOTES

BOT CHORD

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-5-1, Interior (1) 5-5-1 to 14-8-13, Exterior(2E) 14-8-13 to 16-10-14, Interior (1) 16-10-14 to 24-0-12 zone; cantilever left and right exposed; end vertical left and right exposed C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this desian.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 204 lb uplift at joint 14 and 163 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard







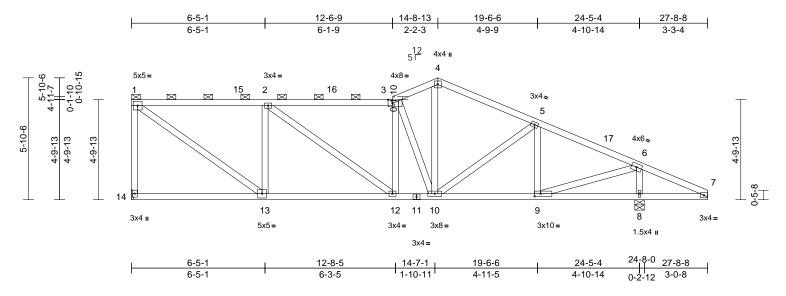
| Job | Truss | Truss Type | Qty | Ply | |
|---------|-------|--------------|-----|-----|-----|
| P210577 | B15 | Roof Special | 1 | 1 | Job |

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733368 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:jwAjnQKqfmiN1cc9E6AyNqz9ZVM-RfC?PsB70Hq3NSgPqnL8w3uITXbGk

ob Reference (optional WrCDoi



Scale = 1:55.4

Plate Offsets (X, Y): [3:0-2-8,0-2-0], [9:0-3-8,0-1-8]

| 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 | 0.94 | Vert(LL) | -0.07 | 12-13 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.55 | Vert(CT) | -0.18 | 12-13 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.84 | Horz(CT) | 0.03 | 8 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 145 lb | FT = 20% |

LUMBER

2x4 SP No.2 *Except* 1-3:2x4 SP 1650F TOP CHORD

1.5E

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-11-6 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-1 max.): 1-3

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 8=0-5-8, 14= Mechanical

Max Horiz 14=-208 (LC 12)

Max Uplift 8=-211 (LC 17), 14=-216 (LC 12) Max Grav 8=1876 (LC 2), 14=1431 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-14=-1373/244, 1-2=-1569/240,

2-3=-1892/255, 3-4=-1690/246,

4-5=-1702/236, 5-6=-1741/178, 6-7=-283/371 **BOT CHORD**

13-14=-127/247, 12-13=-103/1569, 10-12=-125/1883, 9-10=-64/1521,

8-9=-254/273, 7-8=-254/273

WEBS 3-12=-158/102, 2-12=-87/394

2-13=-974/254, 1-13=-281/1898,

6-8=-1755/390, 4-10=-103/965,

3-10=-968/147, 5-10=-161/116,

5-9=-464/170, 6-9=-303/1852

NOTES

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 14-8-13, Exterior(2R) 14-8-13 to 19-6-6, Interior (1) 19-6-6 to 27-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this desian.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 216 lb uplift at joint 14 and 211 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



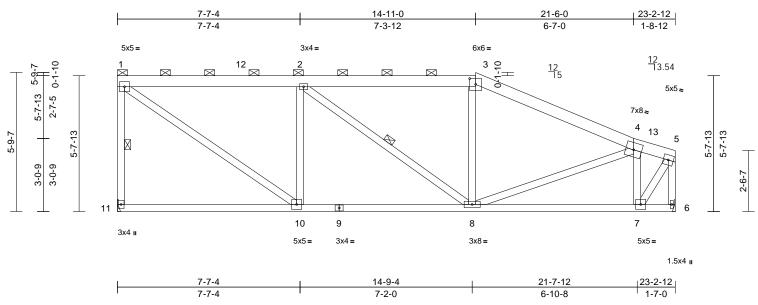




Ply Job Truss Truss Type Qty P210577 B16 Half Hip Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733369 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:JtYRH1iHMIc_FNU7Y6EE8Mz9ZUt-RfC?PsB70Hq3NSgPqnL8w3ulTXbG KWrCDoi*



Scale = 1:48

Plate Offsets (X, Y): [3:0-3-0,0-2-15]

| 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 | 0.57 | Vert(LL) | -0.09 | 10-11 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.63 | Vert(CT) | -0.19 | 10-11 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.78 | Horz(CT) | 0.03 | 6 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 130 lb | FT = 20% |

LUMBER

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

WEBS 2x4 SPF No.3 *Except* 6-5:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-11-13 oc purlins, except end verticals, and

2-0-0 oc purlins (5-2-12 max.): 1-3.

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

bracing.

1 Row at midpt 1-11, 2-8

WEBS REACTIONS 6= Mechanical, 11= Mechanical (size)

Max Horiz 11=-233 (LC 12)

Max Uplift 6=-162 (LC 13), 11=-231 (LC 12)

Max Grav 6=1376 (LC 2), 11=1428 (LC 40)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-11=-1359/371, 1-2=-1465/382,

2-3=-1420/363, 3-4=-1653/349, 4-5=-811/187, 5-6=-1385/242

BOT CHORD 10-11=-213/342, 8-10=-311/1465,

7-8=-192/846, 6-7=-37/47

WEBS 1-10=-417/1766, 2-10=-866/344,

2-8=-179/130, 3-8=-88/123, 4-8=-109/675,

4-7=-1070/298, 5-7=-253/1400

NOTES

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 14-11-0. Exterior(2E) 14-11-0 to 21-6-0, Interior (1) 21-6-0 to 23-1-0 zone; cantilever left and right exposed; end vertical left and right exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 231 lb uplift at joint 11 and 162 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard







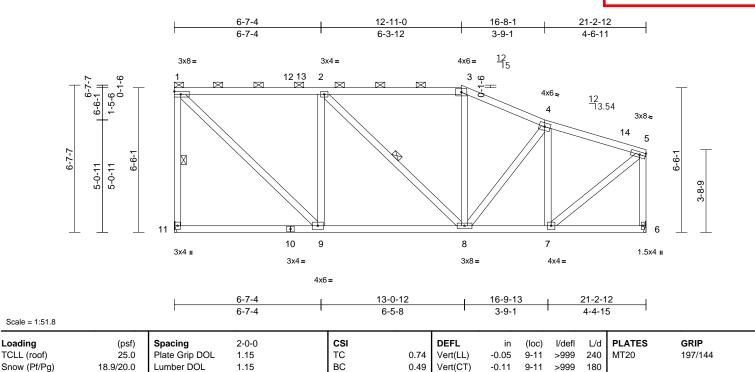


Ply Job Truss Truss Type Qty P210577 B17 Half Hip Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733370 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Non Jun ID:BwJNhCzSPkG?Gbb9H169Uoz9ZUY-RfC?PsB70Hq3NSgPqnL8w3ulTXtGKWrCI



0.65

Horz(CT)

0.02

6

n/a n/a

Weight: 126 lb

FT = 20%

LUMBER

Loading

TCDL

BCLL

BCDL

TCLL (roof)

TOP CHORD 2x4 SP No.2 *Except* 1-3:2x4 SP 1650F 1.5F

25.0

0.0

10.0

Rep Stress Incr

YES

IRC2018/TPI2014

BOT CHORD 2x4 SP No.2

2x4 SPF No.3 *Except* 6-5:2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-0-4 oc purlins, except end verticals, and

2-0-0 oc purlins (5-11-7 max.): 1-3.

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

bracing.

WEBS 1 Row at midpt 1-11, 2-8

REACTIONS (size) 6= Mechanical, 11= Mechanical

Max Horiz 11=-269 (LC 14)

Max Uplift 6=-177 (LC 13), 11=-223 (LC 12) Max Grav 6=1256 (LC 2), 11=1289 (LC 40)

(lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-11=-1230/374, 1-2=-992/332,

2-3=-1028/323, 3-4=-1170/321,

4-5=-1021/224, 5-6=-1211/332 **BOT CHORD** 9-11=-272/376, 8-9=-295/992, 7-8=-277/941,

6-7=-60/77

4-7=-654/223, 5-7=-270/1148, 3-8=-46/86,

4-8=-10/231, 2-8=-114/125, 2-9=-795/351,

1-9=-363/1348

NOTES

WEBS

Unbalanced roof live loads have been considered for this design

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 12-11-0, Exterior(2E) 12-11-0 to 16-8-1, Interior (1) 16-8-1 to 21-1-0 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-S

- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 223 lb uplift at joint 11 and 177 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard





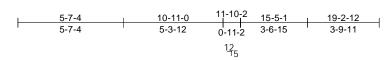


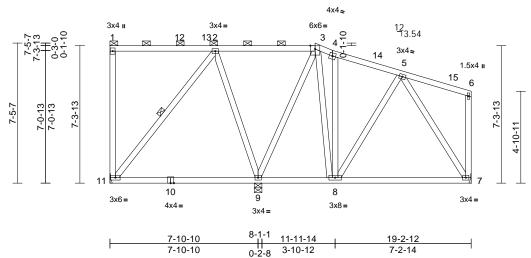


RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW Job Truss Truss Type Qtv Ply DEVELOPMENT SERVICES 158733371 P210577 B18 Half Hip LEE'S SUMMIT. MISSOURI Job Reference (optiona

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 🚯 KWrCD67J42JC? ID:CBroF0A6PzPboDOQn5v8gNz9ZUH-RfC?PsB70Hq3NSgPqnL8w3uITXb





Scale = 1:61.3

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.79 | Vert(LL) | -0.11 | 9-11 | >837 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.49 | Vert(CT) | -0.22 | 9-11 | >426 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.73 | Horz(CT) | 0.01 | 7 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 128 lb | FT = 20% |

LUMBER

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

WFBS 2x4 SPF No.3 *Except* 7-6:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-3.

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

bracing.

WFRS 1 Row at midpt 2-11

REACTIONS (size) 7= Mechanical, 9=0-4-15, 11= Mechanical

Max Horiz 11=-300 (LC 12)

7=-106 (LC 13), 9=-203 (LC 13), Max Uplift

11=-176 (LC 12)

Max Grav 7=669 (LC 2), 9=1143 (LC 2),

11=512 (LC 40)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-11=-248/104, 1-2=-152/153, 2-3=-35/72,

3-4=-276/158, 4-5=-338/125, 5-6=-146/135,

6-7=-151/88

BOT CHORD 9-11=-151/261, 8-9=-129/283, 7-8=-175/314 WEBS

2-11=-312/286, 2-9=-535/265, 3-9=-593/169,

3-8=-134/352, 4-8=-180/87, 5-7=-532/209,

5-8=-84/119

NOTES

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 10-11-0, Exterior(2E) 10-11-0 to 11-10-2, Interior (1) 11-10-2 to 19-1-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 176 lb uplift at joint 11, 203 lb uplift at joint 9 and 106 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard



June 6,2023



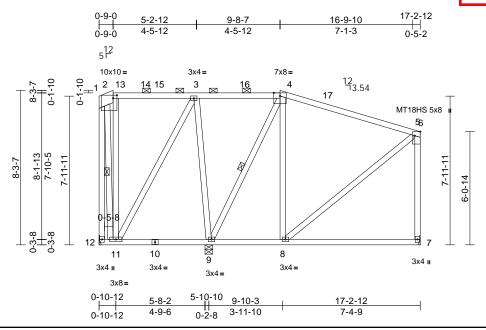


Truss Type Job Truss Qtv Ply P210577 B19 Hip Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733372 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun ID:kGprcUM9etQJjgcVjSCuKlz9ZU1-RfC?PsB70Hq3NSgPqnL8w3uITXbGK



Scale = 1:61.8

Plate Offsets (X, Y): [1:0-2-8,0-2-0], [6:0-2-10,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 | TC | 0.90 | Vert(LL) | -0.08 | 7-8 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.39 | Vert(CT) | -0.16 | 7-8 | >830 | 180 | MT18HS | 197/144 |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.87 | Horz(CT) | 0.00 | 7 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 136 lb | FT = 20% |

LUMBER

2x8 SPF No.2 *Except* 2-4:2x4 SP No.2, TOP CHORD

4-6:2x4 SP 1650F 1.5E

BOT CHORD 2x4 SP No.2

WEBS 2x4 SPF No.3 *Except* 12-1,7-6:2x4 SP No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and

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

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

WEBS 1 Row at midpt 4-9, 1-12

REACTIONS (size) 7= Mechanical, 9=0-4-15, 12=

Mechanical

Max Horiz 12=-317 (LC 12) Max Uplift 7=-90 (LC 13), 9=-298 (LC 13),

12=-114 (LC 12) Max Grav 7=549 (LC 2), 9=1377 (LC 2),

12=226 (LC 53)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-214/226, 2-3=-152/164, 3-4=-25/175, 4-5=-238/72, 5-6=-224/167, 1-12=-207/31,

6-7=-475/223

BOT CHORD 11-12=-379/463, 9-11=-355/397,

8-9=-142/275, 7-8=-104/131 WFBS 1-11=-189/306, 2-11=-365/307,

3-11=-209/328, 3-9=-673/389, 4-9=-682/324,

4-8=-55/186, 5-8=-63/209

NOTES

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 15-1-12 to 15-9-0, Exterior(2R) 15-9-0 to 22-9-14. Interior (1) 22-9-14 to 24-8-7, Exterior(2R) 24-8-7 to 32-1-0 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 114 lb uplift at joint 12, 298 lb uplift at joint 9 and 90 lb uplift at joint 7.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard







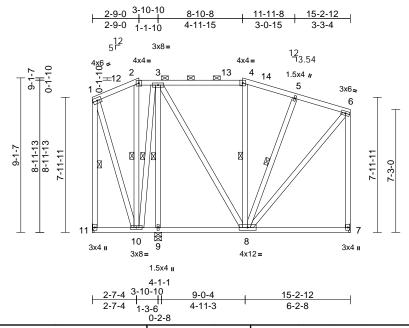


RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733373

Truss Type Job Truss Qtv Ply P210577 B20 Hip LEE'S SUMMIT. MISSOURI Job Reference (optiona

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

ID:ZzDz0ArFDASeWpgB3swGyBz9ZTP-RfC?PsB70Hq3NSgPqnL8w3uITXb sKWrCDow Jazzb?



Scale = 1:68

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.64 | Vert(LL) | -0.04 | 7-8 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.27 | Vert(CT) | -0.08 | 7-8 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.62 | Horz(CT) | 0.01 | 7 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 145 lb | FT = 20% |

LUMBER

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

2x4 SPF No.3 *Except* 11-1,7-6:2x4 SP No.2 WFBS

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-4.

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

bracing, Except:

8-11-7 oc bracing: 10-11.

1 Row at midpt 2-10, 4-8, 1-11, 5-8, 3-9, 3-10

REACTIONS (size) 7= Mechanical, 9=0-4-15, 11= Mechanical

Max Horiz 11=-318 (LC 12)

Max Uplift 7=-169 (LC 13), 9=-100 (LC 13),

11=-108 (LC 12)

Max Grav 7=708 (LC 2), 9=754 (LC 2),

11=331 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-202/203, 2-3=-167/204, 3-4=-264/218, 4-5=-302/196, 5-6=-412/198, 1-11=-291/227,

6-7=-653/374

BOT CHORD 10-11=-406/455, 9-10=-292/360,

8-9=-292/360, 7-8=-132/148

WFBS 1-10=-199/251, 2-10=-130/141,

4-8=-309/167, 6-8=-360/573, 5-8=-347/218,

3-9=-623/307, 3-10=-255/228, 3-8=-303/431

NOTES

Unbalanced roof live loads have been considered for this design

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this desian.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint 11, 169 lb uplift at joint 7 and 100 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard







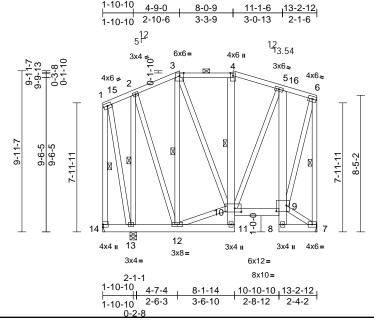


Job Truss Truss Type Qtv Ply P210577 B21 Hip Job Reference (optiona S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733374 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 15) 28/27 ID:9TfYfOd0v8eQqp8gM?aW4uz9ZSO-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDo+y4QQ/ff



Scale = 1:71.2

| Plate Offsets (X, Y): | [9:0-7-8,0-4-4], | [10:0-4-12,0-2-12] |
|-----------------------|------------------|--------------------|
|-----------------------|------------------|--------------------|

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.50 | Vert(LL) | 0.01 | 4 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.17 | Vert(CT) | -0.03 | 4-10 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.46 | Horz(CT) | 0.01 | 7 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 168 lb | FT = 20% |

LUMBER

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

WEBS 2x4 SPF No.3 *Except* 14-1,7-6:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and

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

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

bracing. Except:

1 Row at midpt 4-10

WEBS 1 Row at midpt 1-14, 6-7, 3-12, 2-13

7= Mechanical, 13=0-4-15, 14= REACTIONS (size) Mechanical

Max Horiz 14=312 (LC 13)

Max Uplift 7=-195 (LC 13), 13=-90 (LC 13),

14=-99 (LC 12)

Max Grav 7=678 (LC 2), 13=801 (LC 2),

14=124 (LC 30)

(lb) - Maximum Compression/Maximum **FORCES**

Tension

1-2=-163/177, 2-3=-217/197, 3-4=-222/219,

4-5=-278/203, 5-6=-227/193, 1-14=-173/140,

6-7=-649/447

BOT CHORD 13-14=-418/411, 12-13=-362/368,

11-12=-54/78, 10-11=0/74, 4-10=-254/141,

9-10=-250/325, 8-9=-74/100, 5-9=-536/437,

7-8=-36/52

WEBS 1-13=-173/213, 10-12=-287/342,

5-10=-191/270, 7-9=-230/235, 6-9=-453/649,

3-12=-414/251, 3-10=-133/213,

2-13=-766/549, 2-12=-284/478

NOTES

TOP CHORD

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 14, 90 lb uplift at joint 13 and 195 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard









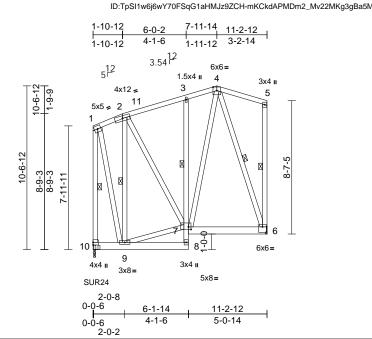
Job Truss Truss Type Qtv Ply P210577 B22 Roof Special Girder Job Reference (optiona

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

LEE'S SUMMIT. MISSOURI Run: 8.63 E Nov 21 2022 Print: 8.630 E Nov 21 2022 MiTek Industries, Inc. Mon Jun 65 Pt1mEa8

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 158733375



Scale = 1:74.4

Plate Offsets (X, Y): [6:0-3-0,0-4-4], [7:0-2-0,0-2-0]

| 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 | TC | 0.53 | Vert(LL) | 0.01 | 3-7 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.14 | Vert(CT) | -0.03 | 6-7 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.70 | Horz(CT) | 0.01 | 6 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 123 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No 2

BOT CHORD 2x6 SPF No.2 *Except* 8-3:2x4 SPF No.3

WEBS 2x4 SPF No.3 *Except* 10-1,6-5:2x4 SP 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, Except: 6-0-0 oc bracing: 8-9.

1 Row at midpt 3-7

WEBS 1 Row at midpt 2-9, 1-10, 5-6, 4-6

6=534/ Mechanical, 10=927/0-1-8, REACTIONS (lb/size)

(reg. 0-1-11)

Max Horiz 10=357 (LC 13)

Max Uplift 6=-222 (LC 13), 10=-401 (LC 12) Max Grav 6=656 (LC 2), 10=1086 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown

TOP CHORD 2-11=-284/145, 3-4=-265/227, 1-10=-620/320

BOT CHORD

9-10=-465/410, 3-7=-363/249, 6-7=-285/330 **WEBS** 1-9=-319/603, 2-9=-552/362, 7-9=-388/403,

2-7=-151/288, 4-7=-395/451, 4-6=-648/557

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 15-1-12 to 16-10-12. Interior (1) 16-10-12 to 22-11-14, Exterior(2E) 22-11-14 to 26-1-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- WARNING: Required bearing size at joint(s) 10 greater than input bearing size.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 401 lb uplift at joint 10 and 222 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Use Simpson Strong-Tie SUR24 (4-SD9112 Girder, 4-SD9112 Truss, Single Ply Girder) or equivalent at 15-2-15 from the left end to connect truss(es) to front face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.
- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-78, 2-4=-78, 4-5=-78, 8-10=-20, 6-7=-20

Concentrated Loads (lb) Vert: 10=-393 (F)







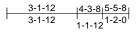


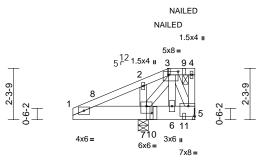
| Job | Truss | Truss Type | Qty | Ply | | |
|---------|-------|-----------------|-----|-----|-------------------------|--|
| P210577 | BG01 | Half Hip Girder | 1 | 1 | Job Reference (optional | |

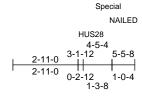
DEVELOPMENT SERVICES 158733376 LEE'S SUMMIT. MISSOURI Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 15 12 8.04 ID:sRNcQNzS7LhqguMkyjBm6Cz9ZZi-RfC?PsB70Hq3NSgPqnL8w3ulTXbG WrCDon 42 Jeff

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

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







Scale = 1:51.6

Plate Offsets (X, Y): [3:0-5-0,0-1-12], [5:Edge,0-5-8], [7:0-3-0,0-3-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.37 | Vert(LL) | 0.00 | 6 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.15 | Vert(CT) | 0.00 | 6-7 | >999 | 180 | 1 | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.24 | Horz(CT) | 0.00 | 5 | n/a | n/a | 1 | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | 1 | |
| BCDL | 10.0 | | | | | | | | | | Weight: 30 lb | FT = 20% |

LUMBER

2x4 SP No 2 TOP CHORD BOT CHORD 2x8 SPF No 2 **WEBS** 2x4 SPF No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-5-8 oc purlins, except end verticals, and

2-0-0 oc purlins: 3-4.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing

REACTIONS (size) 5= Mechanical, 7=0-5-8

Max Horiz 7=86 (LC 13)

Max Uplift 5=-1060 (LC 65), 7=-486 (LC 12)

Max Grav 5=364 (LC 76), 7=1679 (LC 2)

(lb) - Maximum Compression/Maximum FORCES Tension

TOP CHORD 1-2=-427/423, 2-3=-309/321, 3-4=-38/41,

4-5=-22/167

BOT CHORD 1-7=-312/428, 6-7=-243/263, 5-6=-257/284

3-6=-190/268, 3-5=-503/533, 3-7=-254/332,

2-7=-374/265

WEBS NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0

- 4) Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1060 lb uplift at joint 5 and 486 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 12) Use Simpson Strong-Tie HUS28 (22-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent at 3-6-4 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
- 13) Fill all nail holes where hanger is in contact with lumber.
- 14) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 192 lb down and 717 lb up at 4-3-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-3=-78, 3-4=-88, 1-5=-20 Concentrated Loads (lb)

Vert: 3=112 (F), 6=428 (F), 9=171 (F), 10=-1175 (B), 11=157 (F)





| | | | | | | RELEASE FOR CONSTRUCTION |
|---------|-------|------------|-----|-----|--------------------------|---|
| Job | Truss | Truss Type | Qty | Ply | | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES |
| P210577 | C01 | Hip Girder | 1 | 3 | Job Reference (optional) | DEVELOPMENT SERVICES 158733377 LEE'S SUMMIT, MISSOURI |

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 15 12 8.04 ID:BYeMrnr_lfEUqddYLLAbLAz9ZBK-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK_WrCDoi7s4z39?

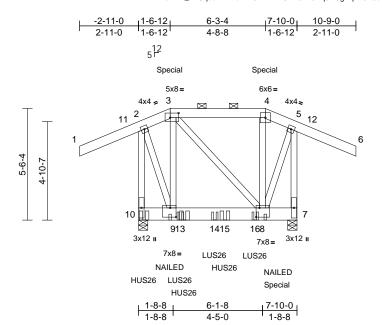


Plate Offsets (X, Y): [3:0-5-0,0-2-12], [8:0-2-0,0-5-8], [9:0-3-8,0-5-8]

| 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 | 0.29 | Vert(LL) | 0.03 | 8-9 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.27 | Vert(CT) | 0.03 | 8-9 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.26 | Horz(CT) | 0.00 | 7 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 249 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2 BOT CHORD 2x8 SPF No.2

WEBS 2x4 SPF No.3 *Except* 10-2,7-5:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and

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

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

REACTIONS (size) 7=0-5-8, 10=0-5-8

Max Horiz 10=174 (LC 15)

Max Uplift 7=-3719 (LC 13), 10=-2514 (LC 12)

Max Grav 7=2830 (LC 32), 10=3556 (LC 56)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/131, 2-3=-832/954, 3-4=-769/1201,

4-5=-936/1348, 5-6=0/131, 2-10=-2675/2802,

5-7=-2981/3814

9-10=-200/231, 8-9=-825/898, 7-8=-90/98

3-9=-289/778, 3-8=-633/308, 4-8=-536/645,

2-9=-2138/2083, 5-8=-3101/2466

NOTES

WEBS

BOT CHORD

- 1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x6 2 rows staggered at 0-8-0 oc, 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 3 rows staggered at 0-5-0 oc.
- Web connected as follows: 2x4 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B),
- unless otherwise indicated. Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-11-0 to 10-9-0 zone: cantilever left and right exposed : end vertical left and right exposed: C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.: Ce=0.9: Cs=1.00: Ct=1.10. Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2514 lb uplift at joint 10 and 3719 lb uplift at joint 7.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502 11 1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord
- 13) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 5-9-4 to connect truss(es) to front face of bottom chord.
- 14) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent at 0-3-4 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.

- 15) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-3-4 from the left end to 4-3-4 to connect truss(es) to back face of bottom chord.
- 16) Fill all nail holes where hanger is in contact with lumber.
- 17) "NAILED" indicates Girder: 3-16d (0.162" x 3.5") toenails per NDS guidelines.
- 18) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 317 lb down and 560 lb up at 1-6-12, and 317 lb down and 560 lb up at 6-3-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-78, 2-3=-78, 3-4=-88, 4-5=-78, 5-6=-78, 7-10=-20

Concentrated Loads (lb)

Vert: 3=280 (F), 4=280 (F), 10=-1366 (B), 9=-1 (F), 8=-769 (F=-1, B=-768), 13=-1237 (F=160, B=-1397), 14=160 (F), 15=-1250 (B), 16=160 (F)



June 6,2023



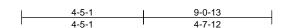


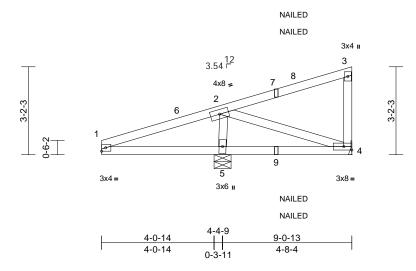
Ply Qty Job Truss Truss Type P210577 CJ01 Diagonal Hip Girder 2 Job Reference (optiona

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733378 LEE'S SUMMIT. MISSOURI

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Scale = 1:41.8

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.83 | Vert(LL) | -0.06 | 4-5 | >925 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.71 | Vert(CT) | 0.11 | 4-5 | >518 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.39 | Horz(CT) | -0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 37 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.5E 2x4 SP 1650F 1.5E **BOT CHORD** 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 5-8-7 oc

bracing.

4= Mechanical, 5=0-7-6 REACTIONS (size)

Max Horiz 5=133 (LC 15)

Max Uplift 4=-435 (LC 36), 5=-482 (LC 12)

Max Grav 4=88 (LC 46), 5=698 (LC 2) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-951/900, 2-3=-153/157, 3-4=-64/139

BOT CHORD 1-5=-802/945, 4-5=-844/895 WEBS 2-4=-847/815, 2-5=-760/900

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-0-0 to 7-0-14, Exterior(2R) 7-0-14 to 8-11-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 435 lb uplift at joint 4 and 482 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-3=-78, 1-4=-20

Concentrated Loads (lb)

Vert: 7=341 (F=170, B=170), 9=277 (F=139, B=139)



June 6,2023



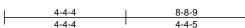
RELEASE FOR CONSTRUCTION Ply Qty Job Truss Truss Type P210577 CJ02 Diagonal Hip Girder

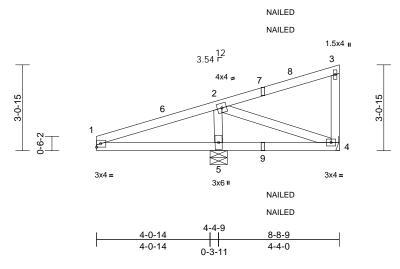
Job Reference (optiona Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65

ID:9vXGrZ5g1Xv?qy2HraSGHDz9Zg?-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoil-4292

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

8-8-9





Scale = 1:41.4

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.80 | Vert(LL) | -0.06 | 4-5 | >884 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.71 | Vert(CT) | 0.07 | 4-5 | >728 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.36 | Horz(CT) | -0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | 1 | | | | | | | | | Weight: 36 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-7-5 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 5-0-2 oc

bracing.

4= Mechanical, 5=0-7-6 REACTIONS (size)

Max Horiz 5=128 (LC 15)

Max Uplift 4=-304 (LC 36), 5=-474 (LC 12)

Max Grav 4=90 (LC 46), 5=788 (LC 2) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-971/856, 2-3=-118/86, 3-4=-87/135

BOT CHORD 1-5=-737/965, 4-5=-753/879

WEBS 2-5=-825/965, 2-4=-868/799

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-0-0 to 7-0-14, Exterior(2R) 7-0-14 to 8-6-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 304 lb uplift at joint 4 and 474 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-3=-78, 1-4=-20

Concentrated Loads (lb)

Vert: 7=235 (B), 9=194 (F=-1, B=194)



June 6,2023

S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 158733379

LEE'S SUMMIT. MISSOURI





Ply Qty Job Truss Truss Type P210577 CJ03 Diagonal Hip Girder 2 Job Reference (optiona

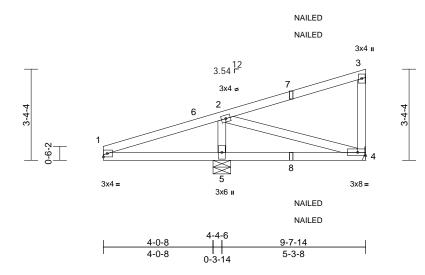
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733380 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:X2V617JSZe8x0c6271NkQOz9ZAj-RfC?PsB70Hq3NSgPqnL8w3ulTXbGI WrCDoi 342S2





Scale = 1:42.4

| 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 | TC | 1.00 | Vert(LL) | -0.07 | 4-5 | >895 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.68 | Vert(CT) | 0.12 | 4-5 | >496 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.45 | Horz(CT) | -0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | ļ | | | | | | | | | Weight: 40 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP 1650F 1.5E **BOT CHORD** 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-8-7 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS 4= Mechanical, 5=0-7-12 (size)

Max Horiz 5=141 (LC 13)

Max Uplift 4=-349 (LC 36), 5=-412 (LC 12)

Max Grav 4=67 (LC 46), 5=796 (LC 2) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-933/890, 2-3=-150/127, 3-4=-95/140

BOT CHORD 1-5=-774/926, 4-5=-774/821

WEBS 2-5=-807/847, 2-4=-764/747

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-0-0 to 7-0-14, Exterior(2R) 7-0-14 to 9-6-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 349 lb uplift at joint 4 and 412 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-3=-78, 1-4=-20

Concentrated Loads (lb)

Vert: 7=282 (F=141, B=141), 8=230 (F=115, B=115)



June 6,2023





Job Truss Truss Type Qtv Ply P210577 CJ04 Diagonal Hip Girder Job Reference (optiona

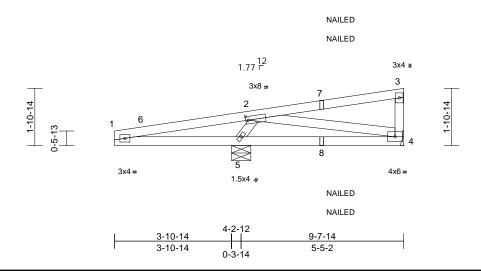
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733381 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

ID:iuFjrwsN7AN5RKM5njuCgBz9ZQp-RfC?PsB70Hq3NSgPqnL8w3uITXbGrWrCDoi734z367





Scale = 1:38.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.90 | Vert(LL) | -0.10 | 4-5 | >635 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.95 | Vert(CT) | 0.13 | 4-5 | >503 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.48 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 37 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-6-13 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 2-8-10 oc

bracing.

REACTIONS (size) 4= Mechanical, 5=0-7-12

Max Horiz 5=70 (LC 49)

Max Uplift 4=-268 (LC 37), 5=-363 (LC 12) Max Grav 4=111 (LC 48), 5=789 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1524/1332, 2-3=-142/154, 3-4=-92/97

BOT CHORD 1-5=-1265/1520, 4-5=-996/1167 2-4=-1065/883, 2-5=-816/844 WEBS

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-0-0 to 7-0-14, Exterior(2R) 7-0-14 to 9-6-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 268 lb uplift at joint 4 and 363 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-3=-78, 1-4=-20

Concentrated Loads (lb)

Vert: 7=255 (F=128, B=128), 8=198 (F=99, B=99)



June 6,2023

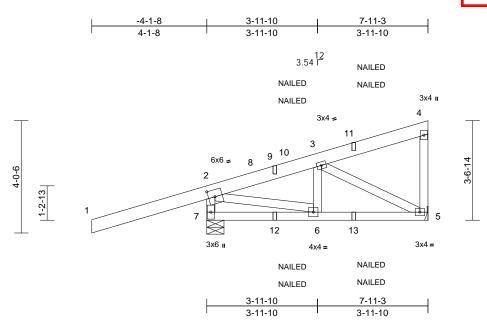


Ply Qty Job Truss Truss Type P210577 CJ05 Diagonal Hip Girder 2 Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733382 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Non Jun ID:37S9NbWUoZ9gw4K73OfU3mz9ZAT-RfC?PsB70Hq3NSgPqnL8w3ulTXt<mark>-</mark>GKWrCD**-77QJ**C?



Scale = 1:41.3

Plate Offsets (X, Y): [2:0-2-12,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.49 | Vert(LL) | -0.03 | 6-7 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.60 | Vert(CT) | 0.06 | 6-7 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.24 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 56 lb | FT = 20% |

LUMBER

2x6 SP 2400F 2.0E TOP CHORD BOT CHORD 2x4 SP No.2

WEBS 2x4 SPF No.3 *Except* 7-2:2x4 SP 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 6-0-0 oc

bracing.

5= Mechanical, 7=0-7-6 REACTIONS (size)

Max Horiz 7=171 (LC 13)

Max Uplift 5=-126 (LC 16), 7=-412 (LC 12) Max Grav 5=273 (LC 30), 7=728 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-7=-755/764, 1-2=0/127, 2-3=-528/322, TOP CHORD

3-4=-172/91, 4-5=-238/176

BOT CHORD 6-7=-385/153, 5-6=-342/563

WEBS 2-6=-351/759, 3-6=-126/93, 3-5=-557/386

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -4-1-8 to 2-11-6, Exterior(2R) 2-11-6 to 7-9-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 412 lb uplift at joint 7 and 126 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-78, 2-4=-78, 5-7=-20

Concentrated Loads (lb)

Vert: 9=228 (F=114, B=114), 12=176 (F=88, B=88),

13=-20 (F=-10, B=-10)







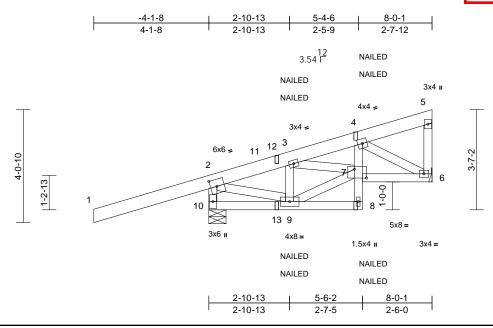


Job Truss Truss Type Qty Ply P210577 **CJ06** Diagonal Hip Girder 2 Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733383 LEE'S SUMMIT. MISSOURI

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

ID:jRBhvhf0zFgzNwFQmwtlYlz9ZAH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi734zJ97



Scale = 1:41.3

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.49 | Vert(LL) | -0.02 | 9-10 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.23 | Vert(CT) | -0.02 | 8-9 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.29 | Horz(CT) | 0.01 | 6 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 60 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SP 2400F 2 0F

BOT CHORD 2x4 SP No.2 *Except* 8-4:2x4 SPF No.3 **WEBS** 2x4 SPF No.3 *Except* 10-2:2x4 SP 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 6-0-0 oc

bracing.

6= Mechanical, 10=0-7-6 REACTIONS (size)

Max Horiz 10=154 (LC 13)

Max Uplift 6=-128 (LC 16), 10=-411 (LC 12)

Max Grav 6=278 (LC 30), 10=730 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-10=-730/777, 1-2=0/127, 2-3=-609/583, TOP CHORD 3-4=-495/230, 4-5=-65/60, 5-6=-108/95

BOT CHORD 9-10=-358/122. 8-9=-7/16. 7-8=-25/86.

4-7=-361/425, 6-7=-391/460

WEBS 2-9=-667/893, 3-9=-503/333, 7-9=-702/684, 3-7=-331/667, 4-6=-471/412

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -4-1-8 to 2-10-13, Exterior(2R) 2-10-13 to 7-10-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 411 lb uplift at joint 10 and 128 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-78, 2-5=-78, 8-10=-20, 6-7=-20

Concentrated Loads (lb)

Vert: 8=-20 (F=-10, B=-10), 12=228 (F=114, B=114),

13=176 (F=88, B=88)









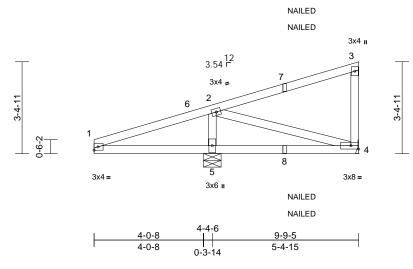
Ply Qty Job Truss Truss Type P210577 CJ07 Diagonal Hip Girder 3 Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733384 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 VrCDoi7 42JQ ID:Ys4OkZxRYJZidSVrcFoi_9z9Z9w-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK





Scale = 1:42.5

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.92 | Vert(LL) | -0.07 | 4-5 | >853 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 1.00 | Vert(CT) | 0.13 | 4-5 | >476 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.46 | Horz(CT) | -0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | 1 | | | | | | | | | Weight: 40 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-9-1 oc purlins, except end verticals. BOT CHORD

Rigid ceiling directly applied.

REACTIONS (size) 4= Mechanical, 5=0-7-12

Max Horiz 5=143 (LC 13)

Max Uplift 4=-323 (LC 36), 5=-398 (LC 12) Max Grav 4=62 (LC 46), 5=817 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-926/877, 2-3=-149/119, 3-4=-104/139

BOT CHORD 1-5=-761/919, 4-5=-761/813 **WEBS** 2-5=-818/841, 2-4=-756/735

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-0-0 to 7-0-14, Exterior(2R) 7-0-14 to 9-7-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.: Ce=0.9: Cs=1.00: Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 323 lb uplift at joint 4 and 398 lb uplift at joint 5.

- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-3=-78, 1-4=-20

Concentrated Loads (lb)

Vert: 7=267 (F=134, B=134), 8=218 (F=109, B=109)



June 6,2023





Ply Qty Job Truss Truss Type P210577 **CJ08** Diagonal Hip Girder 2 Job Reference (optiona

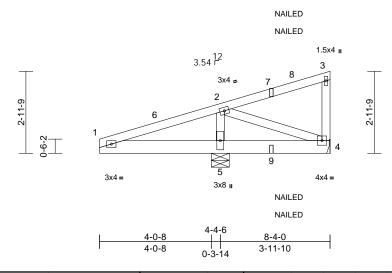
DEVELOPMENT SERVICES 158733385 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:0K9BVj9kJrq9nDtJf16wjyz9Z9e-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWiCDoi7J42y





Scale = 1:41.6

| Loading | (psf) | Spacing | 2-0-0 | csı | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.70 | Vert(LL) | -0.02 | 4-5 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.47 | Vert(CT) | 0.03 | 4-5 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.40 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 36 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E **BOT CHORD** 2x6 SPF No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

4= Mechanical, 5=0-7-12 REACTIONS (size)

Max Horiz 5=119 (LC 13)

Max Uplift 4=-558 (LC 36), 5=-523 (LC 12)

Max Grav 4=116 (LC 46), 5=670 (LC 2) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-1002/941, 2-3=-120/110, 3-4=-121/181

BOT CHORD 1-5=-845/1000, 4-5=-845/898

WEBS 2-5=-756/945, 2-4=-897/901

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-0-0 to 7-0-14, Exterior(2R) 7-0-14 to 8-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 558 lb uplift at joint 4 and 523 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- "NAILED" indicates Girder: 3-12d (0.148" x 3.25") toenails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 128 lb down and 63 lb up at 8-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1 15

Uniform Loads (lb/ft)

Vert: 1-3=-78, 1-4=-20

Concentrated Loads (lb)

Vert: 3=-100 (F), 7=405 (F=203, B=203), 9=333

(F=167, B=167)



June 6,2023





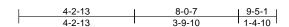
Job Truss Truss Type Qtv Ply P210577 CJ09 Diagonal Hip Girder Job Reference (optiona

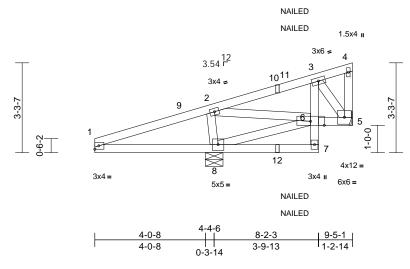
DEVELOPMENT SERVICES 158733386 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

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

ID:rl6kTCrUuM037_kGVVeHXzz9Z8I-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK





Scale = 1:42.1

| 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 | 0.82 | Vert(LL) | -0.03 | 7-8 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.69 | Vert(CT) | 0.06 | 7-8 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.33 | Horz(CT) | -0.01 | 5 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | 1 | | 1 | | | | | | | Weight: 45 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except* 7-3:2x4 SPF No.3

2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-10-5 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

5= Mechanical, 8=0-7-12 REACTIONS (size)

Max Horiz 8=120 (LC 13)

Max Uplift 5=-403 (LC 36), 8=-445 (LC 12)

Max Grav 5=76 (LC 46), 8=751 (LC 2) (lb) - Maximum Compression/Maximum

FORCES Tension

1-2=-902/792, 2-3=-338/595, 3-4=-54/54, TOP CHORD

4-5=-177/79

BOT CHORD 1-8=-679/895, 7-8=-144/80, 6-7=-247/91,

3-6=-420/357, 5-6=-456/298

WFBS 2-8=-549/661, 6-8=-620/790, 2-6=-668/406,

3-5=-411/743

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-0-0 to 7-0-14, Exterior(2R) 7-0-14 to 9-3-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 403 lb uplift at joint 5 and 445 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-4=-78, 1-7=-20, 5-6=-20

Concentrated Loads (lb)

Vert: 10=315 (F=158, B=158), 12=258 (F=129,



June 6,2023



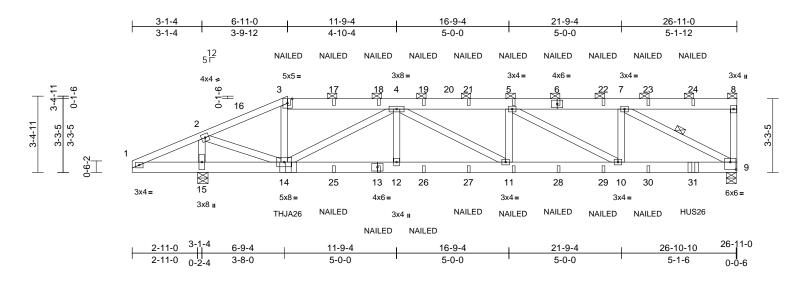
| lob | Truco | Truce Type | Qty | Plv | | AS NOTED FOR PLAN REVIEW |
|---------|-------|-----------------|-----|-----|--------------------------|-------------------------------------|
| Job | Truss | Truss Type | Qty | Fly | | DEVELOPMENT SERVICES |
| P210577 | D01 | Half Hip Girder | 1 | 1 | Job Reference (optional) | I58733387 LEE'S SUMMIT, MISSOURI |

DEVELOPMENT SERVICES 158733387 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:_tVMTvqlpFDaLQQql0bHJ2z9Z7U-RfC?PsB70Hq3NSgPqnL8w3ulTXbGrWrCDoi



Scale = 1:51.3

Plate Offsets (X, Y): [9:0-3-0,0-4-0]

| 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 | TC | 0.47 | Vert(LL) | -0.10 | 11-12 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.50 | Vert(CT) | -0.16 | 11-12 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 1.00 | Horz(CT) | 0.04 | 9 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 147 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No.2 *Except* 1-3:2x4 SP No.2 **BOT CHORD** 2x6 SPF No.2 *Except* 13-9:2x6 SP 2400F

2.0E

WEBS 2x4 SPF No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-3-0 oc purlins, except end verticals, and

7-9

2-0-0 oc purlins (4-5-0 max.): 3-8 **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

WEBS 1 Row at midpt

REACTIONS 9=0-5-3, 15=0-5-8 (size)

Max Horiz 15=130 (LC 13)

Max Uplift 9=-951 (LC 13), 15=-755 (LC 12)

Max Grav 9=823 (LC 44), 15=1461 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-270/391, 2-3=-1215/896

3-4=-1094/837, 4-5=-2581/1376, 5-7=-1601/1108, 7-8=-64/95, 8-9=-171/87

BOT CHORD 1-15=-275/263, 14-15=-286/275,

12-14=-1380/2407, 11-12=-1380/2407,

10-11=-1406/2581, 9-10=-1119/1601

7-9=-1833/1215, 3-14=-228/180,

4-14=-1514/594, 4-12=-60/123, 4-11=-51/200, 5-11=-11/126, 5-10=-1125/330,

7-10=-359/341, 2-15=-1313/806,

2-14=-895/1308

NOTES

WEBS

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 6-11-0, Exterior(2R) 6-11-0 to 13-11-14, Interior (1) 13-11-14 to 26-9-4 zone; cantilever left and right exposed; end vertical left and right exposed C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 951 lb uplift at joint 9 and 755 lb uplift at joint 15.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802 10 2 and referenced standard ANSI/TPI 1
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Use Simpson Strong-Tie THJA26 (THJA26 on 1 ply, Left Hand Hip) or equivalent at 6-11-6 from the left end to connect truss(es) to front face of bottom chord.
- 11) Use Simpson Strong-Tie HUS26 (14-16d Girder, 4-16d Truss, Single Ply Girder) or equivalent at 24-11-12 from the left end to connect truss(es) to front face of bottom
- 12) Fill all nail holes where hanger is in contact with lumber.
- 13) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

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

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-3=-78, 3-8=-88, 1-9=-20

Concentrated Loads (lb)

Vert: 3=-36 (F), 6=-32 (F), 13=25 (F), 14=257 (F), 11=25 (F), 5=-32 (F), 17=-32 (F), 18=-32 (F), 19=-32 (F), 21=-32 (F), 22=-32 (F), 23=-29 (F), 24=109 (F), 25=25 (F), 26=25 (F), 27=25 (F), 28=25 (F), 29=25 (F), 30=28 (F), 31=530 (F)



June 6,2023



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 chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

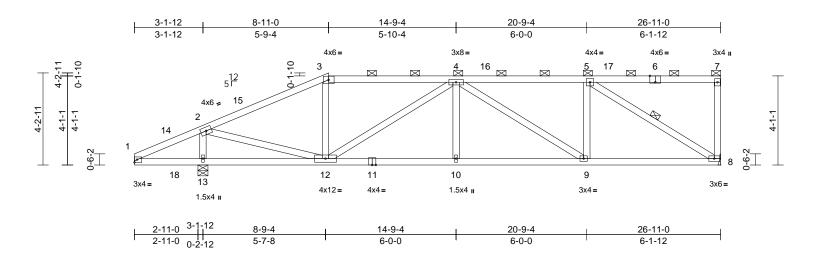
| Job | Truss | Truss Type | Qty | Ply | | Г |
|---------|-------|------------|-----|-----|--------------------------|---|
| P210577 | D02 | Half Hip | 1 | 1 | Job Reference (optional) | L |

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Non Jun 650 B8/10 ID:eGKcGFoUzqIDxjYCRp12Ywz9Z6E-RfC?PsB70Hq3NSgPqnL8w3uITXbC KWrCDoWJ42907f

DEVELOPMENT SERVICES 158733388 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW



Scale = 1:52.9

Plate Offsets (X, Y): [6:0-3-0,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 | TC | 0.84 | Vert(LL) | -0.08 | 9-10 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.65 | Vert(CT) | -0.20 | 9-10 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.99 | Horz(CT) | 0.06 | 8 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 128 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-5-15 oc purlins, except end verticals, and 2-0-0 oc purlins (3-3-3 max.): 3-7.

Rigid ceiling directly applied or 6-0-0 oc

BOT CHORD bracing.

WEBS 1 Row at midpt 5-8

REACTIONS 8= Mechanical, 13=0-5-8 (size)

Max Horiz 13=177 (LC 15)

Max Uplift 8=-235 (LC 13), 13=-262 (LC 12)

Max Grav 8=1496 (LC 36), 13=1820 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-256/312, 2-3=-1758/243,

3-4=-1529/250, 4-5=-1852/314, 5-7=-105/88,

7-8=-291/84

BOT CHORD 1-13=-173/242, 12-13=-263/267,

10-12=-419/2341, 9-10=-419/2341,

8-9=-328/1852

WEBS 5-8=-2142/340, 3-12=0/214, 2-13=-1704/389, 2-12=-273/1739, 4-12=-966/160, 4-10=0/236,

4-9=-580/108, 5-9=0/484

NOTES

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 8-11-0, Exterior(2R) 8-11-0 to 15-11-14, Interior (1) 15-11-14 to 26-9-4 zone; cantilever left and right exposed; end vertical left and right exposed C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 235 lb uplift at joint 8 and 262 lb uplift at joint 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 6,2023





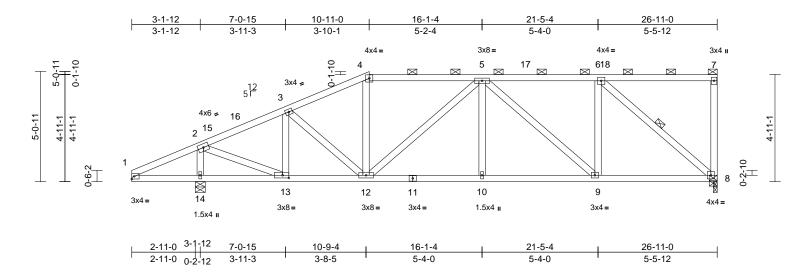
| Job | Truss | Truss Type | Qty | Ply | | |
|---------|-------|------------|-----|-----|-------------------------|--|
| P210577 | D03 | Half Hip | 1 | 1 | Job Reference (optional | |

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 128/12 ID:0D_3ZGC3RnpZj8BN8TNhX5z9ZNn-RfC?PsB70Hq3NSgPqnL8w3ulTXbckWrCDor7J4zeV?

DEVELOPMENT SERVICES 158733389 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW



Scale = 1:53

| Plate Offsets (X | (, Y): | [13:0-3-8,0- | 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 | 0.67 | Vert(LL) | -0.05 | 9-10 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.50 | Vert(CT) | -0.14 | 10-12 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.76 | Horz(CT) | 0.05 | 8 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 139 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-3-5 oc purlins, except end verticals, and

2-0-0 oc purlins (3-11-13 max.): 4-7.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

WEBS 1 Row at midpt 6-8 REACTIONS 8=0-2-2, 14=0-5-8 (size)

> Max Horiz 14=216 (LC 13) Max Uplift 8=-233 (LC 13), 14=-244 (LC 12)

Max Grav 8=1466 (LC 36), 14=1820 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-264/406, 2-3=-1539/181,

3-4=-1706/255, 4-5=-1514/253,

5-6=-1358/250, 6-7=-111/105, 7-8=-255/76 1-14=-281/255, 13-14=-376/288,

BOT CHORD 12-13=-298/1348, 10-12=-347/1830,

9-10=-347/1830, 8-9=-260/1358

4-12=0/258, 2-14=-1703/364, 3-12=-55/314, 3-13=-571/158, 2-13=-263/1712,

5-12=-497/86, 6-8=-1767/285, 5-10=0/212,

5-9=-649/116, 6-9=-1/547

NOTES

WEBS

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 10-11-0. Exterior(2R) 10-11-0 to 17-11-14, Interior (1) 17-11-14 to 26-9-4 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 233 lb uplift at joint 8 and 244 lb uplift at joint 14.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard



June 6,2023





| Job | Truss | Truss Type | Qty | Ply | |
|---------|-------|------------|-----|-----|-------------------------|
| P210577 | D04 | Half Hip | 1 | 1 | Job Reference (optional |

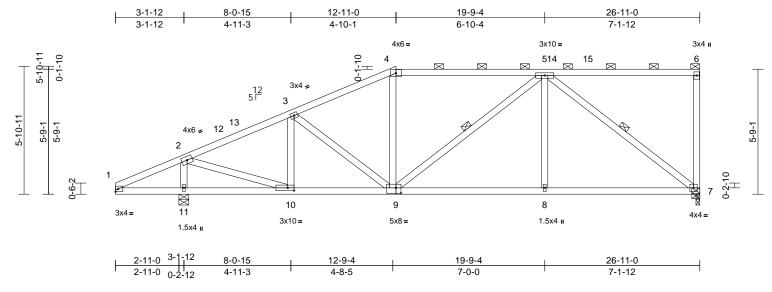
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733390 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:0D_3ZGC3RnpZj8BN8TNhX5z9ZNn-RfC?PsB70Hq3NSgPqnL8w3ulTXb0

KWrCDoi J420



Scale = 1:53.1

Plate Offsets (X, Y): [9:0-2-12,0-3-0], [10:0-3-8,0-1-8]

| 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 | 0.87 | Vert(LL) | -0.07 | 7-8 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.60 | Vert(CT) | -0.15 | 7-8 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.78 | Horz(CT) | 0.04 | 7 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 136 lb | FT = 20% |

LUMBER

2x4 SP No.2 *Except* 4-6:2x4 SP 1650F TOP CHORD

1.5E

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

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied or

4-1-10 oc purlins, except end verticals, and 2-0-0 oc purlins (4-11-2 max.): 4-6.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

1 Row at midpt 5-7, 5-9

REACTIONS 7=0-2-2, 11=0-5-8 (size)

Max Horiz 11=254 (LC 13)

Max Uplift 7=-231 (LC 13), 11=-226 (LC 12)

Max Grav 7=1426 (LC 36), 11=1820 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-265/373, 2-3=-1692/180,

3-4=-1652/240, 4-5=-1448/242, 5-6=-133/123, 6-7=-322/95

BOT CHORD 1-11=-244/254, 10-11=-376/294,

8-10=-356/1474, 7-8=-275/1361

WEBS 5-7=-1689/282, 2-11=-1698/375, 4-9=0/187, 5-9=-76/234, 5-8=0/306, 3-9=-165/151,

3-10=-446/152, 2-10=-277/1768

NOTES

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 12-11-0, Exterior(2R) 12-11-0 to 19-9-4, Interior (1) 19-9-4 to 26-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this desian.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 231 lb uplift at joint 7 and 226 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard









Job Truss Truss Type Qty Ply P210577 D05 Half Hip Job Reference (optiona

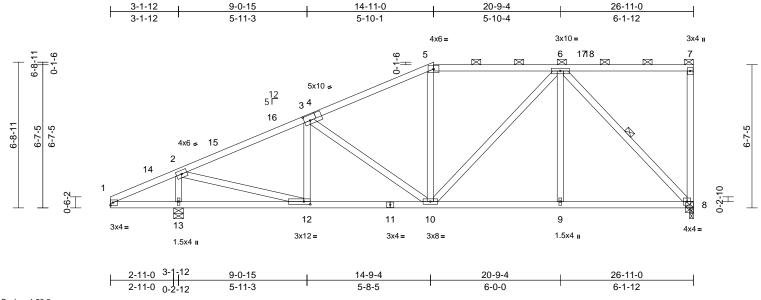
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733391 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Non Jun ID:UPXRncDhC5xQKImZiAuw4Jz9ZNm-RfC?PsB70Hq3NSgPqnL8w3uITXb

GKWrCD



Scale = 1:53.2

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

| 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 | 0.96 | Vert(LL) | -0.05 | 10-12 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.47 | Vert(CT) | -0.12 | 10-12 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.79 | Horz(CT) | 0.03 | 8 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 142 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-8-4 oc purlins, except end verticals, and

2-0-0 oc purlins (2-2-0 max.): 5-7.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

WEBS 1 Row at midpt 6-8

8=0-2-2, (req. 0-3-11), 13=0-5-8 REACTIONS (size)

Max Horiz 13=294 (LC 13)

Max Uplift 8=-494 (LC 13), 13=-223 (LC 16) Max Grav 8=3107 (LC 2), 13=1820 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-264/295, 2-3=-1794/212,

3-5=-1532/230, 5-6=-1306/239, 6-7=-140/140, 7-8=-275/84

BOT CHORD 1-13=-174/251, 12-13=-361/297

10-12=-396/1555, 9-10=-247/1049,

8-9=-247/1049

WEBS 6-8=-1500/246, 2-13=-1692/386, 5-10=0/151, 6-10=-108/458, 6-9=0/261, 3-10=-436/164,

3-12=-339/153, 2-12=-284/1785

NOTES

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 14-11-0. Exterior(2R) 14-11-0 to 21-11-14, Interior (1) 21-11-14 to 26-9-4 zone; cantilever left and right exposed; end vertical left and right exposed C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this desian.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- WARNING: Required bearing size at joint(s) 8 greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 494 lb uplift at joint 8 and 223 lb uplift at joint 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-5=-78, 5-7=-88, 1-8=-20 Concentrated Loads (lb) Vert: 8=-1728

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE. OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.



June 6,2023





Ply Job Truss Truss Type Qtv P210577 D06 Half Hip Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733392 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. I ID:J1rsv1t7oUPOz?dB3IOMxPz9ZOC-RfC?PsB70Hq3NSgPqnL8w3uITXbG

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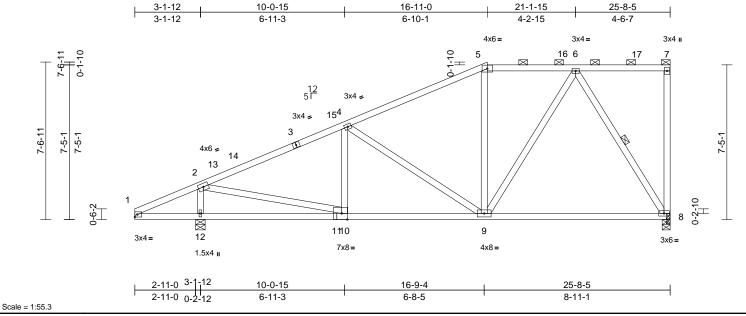


Plate Offsets (X, Y): [11:0-3-4,Edge]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.75 | Vert(LL) | -0.17 | 8-9 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.75 | Vert(CT) | -0.36 | 8-9 | >745 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.90 | Horz(CT) | 0.02 | 8 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 135 lb | FT = 20% |

LUMBER

2x4 SP No.2 *Except* 3-5:2x4 SP 1650F TOP CHORD

1.5E

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-3-3 oc purlins, except end verticals, and 2-0-0 oc purlins (5-5-15 max.): 5-7.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

WEBS 1 Row at midpt 6-8

REACTIONS 8=0-4-9, 12=0-5-8 (size)

Max Horiz 12=332 (LC 13)

Max Uplift 8=-303 (LC 13), 12=-229 (LC 16)

Max Grav 8=1687 (LC 2), 12=1748 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-264/246, 2-4=-1762/228,

4-5=-1234/213, 5-6=-1012/226,

6-7=-155/155, 7-8=-556/171 **BOT CHORD** 1-12=-122/248, 10-12=-370/297,

9-10=-407/1510, 8-9=-233/660

WEBS 5-9=-75/115, 6-9=-101/731, 6-8=-1236/269,

2-12=-1608/390, 4-9=-685/216,

4-10=-236/148, 2-10=-276/1643

NOTES

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 16-11-0, Exterior(2R) 16-11-0 to 23-11-14, Interior (1) 23-11-14 to 25-6-9 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 303 lb uplift at joint 8 and 229 lb uplift at joint 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802 10 2 and referenced standard ANSI/TPI 1
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-5=-78, 5-7=-88, 1-8=-20 Concentrated Loads (lb)

Vert: 7=-333



June 6,2023



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 chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

Ply Job Truss Truss Type Qtv P210577 D07 Half Hip Girder 2 Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733393 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. ID:BWW39EdqAXSfA49QLklhjzz9Z3s-RfC?PsB70Hq3NSgPqnL8w3uITXbG

1on Jun 05 WrCDoi

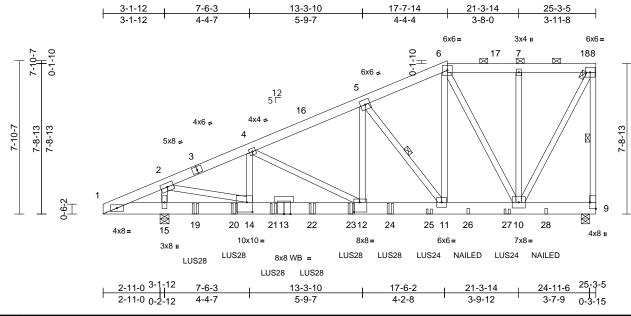


Plate Offsets (X, Y): [9:Edge,0-3-8], [12:0-3-8,0-6-0], [14:0-3-8,0-6-0]

| 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 | TC | 0.56 | Vert(LL) | -0.10 | 12-14 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.49 | Vert(CT) | -0.24 | 12-14 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.94 | Horz(CT) | 0.03 | 9 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 414 lb | FT = 20% |

LUMBER

Scale = 1:59.1

TOP CHORD 2x6 SPF No 2 BOT CHORD 2x8 SP 2400F 2.0E **WEBS** 2x4 SPF No.3 *Except*

11-6,10-6,10-8,2-14,5-12:2x4 SP No.2

OTHERS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-10-12 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.

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

bracing.

WEBS 1 Row at midpt 8-9. 5-11 REACTIONS 9=0-4-15, 15=0-5-8 (size)

Max Horiz 15=336 (LC 57)

Max Uplift 9=-1018 (LC 13), 15=-1307 (LC 16)

Max Grav 9=4432 (LC 2), 15=7847 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1410/233, 2-4=-9471/1632,

4-5=-7701/1449, 5-6=-4412/991, 6-7=-2224/622, 7-8=-2221/621,

8-9=-4356/1004

BOT CHORD 1-15=-198/1310, 14-15=-529/1310, 12-14=-1686/8639, 11-12=-1495/7032,

10-11=-971/3917, 9-10=-138/160

WEBS 6-11=-952/4744, 6-10=-3854/785,

7-10=-469/158, 8-10=-1103/4726,

2-15=-5781/1092, 2-14=-1351/7649,

4-14=-189/1402. 4-12=-1860/293.

5-12=-723/4658, 5-11=-4999/887

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-4-0 oc.

Web connected as follows: 2x4 - 2 rows staggered at 0-9-0 oc

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 17-7-14, Exterior(2R) 17-7-14 to 24-8-12, Interior (1) 24-8-12 to 25-1-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1018 lb uplift at joint 9 and 1307 lb uplift at joint 15.

- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord
- 12) Use Simpson Strong-Tie LUS28 (6-SD9112 Girder, 4-SD9212 Truss, Single Ply Girder) or equivalent spaced at 4-0-0 oc max. starting at 4-8-12 from the left end to 8-8-12 to connect truss(es) to back face of bottom chord.
- 13) Use Simpson Strong-Tie LUS28 (6-SD9112 Girder, 4-SD9212 Truss, Single Ply Girder) or equivalent at 6-8-12 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 dea. down.
- 14) Use Simpson Strong-Tie LUS28 (6-SD9112 Girder, 4-SD9212 Truss, Single Ply Girder) or equivalent at 10-8-12 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg to the left, sloping 0.0 deg. down.



June 6,2023

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE



Ply Qty Job Truss Truss Type Half Hip Girder 2 P210577 D07 Job Reference (optiona

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 19 2022 MiTek Industries, Industries, Industries, Industries, Industries, Industries, Industries, Industries, Industries, Industrie

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 158733393

LEE'S SUMMIT. MISSOURI

15) Use Simpson Strong-Tie LUS28 (6-SD9112 Girder, 4-SD9212 Truss, Single Ply Girder) or equivalent at 12-8-12 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.

16) Use Simpson Strong-Tie LUS28 (6-10d Girder, 4-10d Truss) or equivalent at 14-8-12 from the left end to connect truss(es) to back face of bottom chord, skewed

0.0 deg.to the right, sloping 0.0 deg. down.

17) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 16-8-12 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.

18) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 20-8-12 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.

19) Fill all nail holes where hanger is in contact with lumber.

20) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-6=-78, 6-8=-88, 1-9=-20

Concentrated Loads (lb)

Vert: 19=-1282 (B), 20=-1382 (B), 21=-1403 (B), 22=-1402 (B), 23=-1408 (B), 24=-1269 (B), 25=-492 (B), 26=-177 (B), 27=-293 (B), 28=-56 (B)

16023 Swingley Ridge Rd Chesterfield, MO 63017

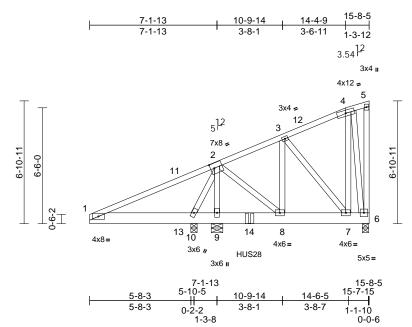


Job Truss Truss Type Qtv Ply P210577 D08 Roof Special Girder Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733394 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:n0yeoSQbtVeRT4dveuQwrgz9Z2r-RfC?PsB70Hq3NSgPqnL8w3uITXbGl



Scale = 1:64.7

Plate Offsets (X, Y): [2:0-2-10,0-3-4]

| 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 | TC | 0.87 | Vert(LL) | -0.01 | 8-9 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.54 | Vert(CT) | -0.03 | 8-9 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.39 | Horz(CT) | 0.00 | 6 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 104 lb | FT = 20% |

LUMBER

2x4 SP 1650F 1.5E *Except* 4-5:2x4 SP TOP CHORD

No.2

BOT CHORD 2x8 SPF No.2 WEBS 2x4 SPF No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

REACTIONS 6=0-4-3, 9=0-7-12, 10=0-4-4 (size)

Max Horiz 10=304 (LC 15)

6=-160 (LC 13), 9=-424 (LC 16), Max Uplift

10=-452 (LC 37) Max Grav 6=551 (LC 2), 9=2081 (LC 22),

10=656 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-788/948, 2-3=-483/95, 3-4=-204/103,

4-5=-125/122. 5-6=-41/34

1-10=-735/805, 9-10=-442/474, BOT CHORD 8-9=-442/474, 7-8=-168/362, 6-7=-110/159

WEBS 4-7=-52/156, 4-6=-362/103, 2-9=-868/253,

2-10=-909/641, 3-7=-476/145, 3-8=-95/418,

2-8=-382/892

NOTES

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 15-6-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 160 lb uplift at joint 6, 424 lb uplift at joint 9 and 452 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Use Simpson Strong-Tie HUS28 (22-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent at 8-11-12 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg.
- Fill all nail holes where hanger is in contact with lumber.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-4=-78, 4-5=-78, 1-6=-20

Concentrated Loads (lb)

Vert: 14=-1476 (B)



June 6,2023

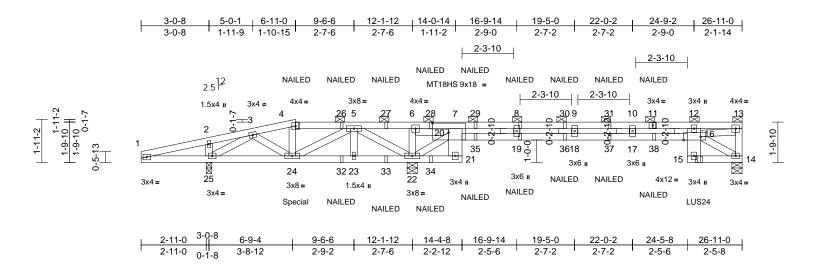




RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733395 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:6TxsUyuFQ5lflo5gSrSvlqz9ZQm-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV<mark>r</mark>CDoi7J**2JQ**



Scale = 1:51.6

| Plate Offsets (X, | Y): | [7:0-8-12,0-5-0], [16:0-9-4,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 | TC | 0.49 | Vert(LL) | -0.11 | 17-18 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.62 | Vert(CT) | -0.28 | 17-18 | >636 | 180 | MT18HS | 197/144 |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.14 | Horz(CT) | 0.08 | 14 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 452 lb | FT = 20% |

LUMBER

2x4 SP No.2 TOP CHORD

2x4 SP No.2 *Except* 21-7,12-15:2x8 SP **BOT CHORD**

2400F 2.0E **WEBS** 2x4 SPF No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

10-0-0 oc purlins, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 4-13 **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 14=0-5-8, 22=0-5-8, 25=0-3-0

25=67 (LC 13) Max Horiz

Max Uplift 14=-184 (LC 12), 22=-372 (LC 13),

25=-312 (LC 12)

Max Grav 14=1047 (LC 51), 22=1660 (LC 2),

25=712 (LC 37)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-532/559, 2-3=-475/515, 3-4=-369/379, TOP CHORD

4-5=-346/344, 5-6=-160/980, 6-7=-45/211,

7-8=-4409/788, 8-9=-4409/788, 9-10=-4409/788, 10-12=-4409/788,

12-13=-1090/218, 13-14=-380/99 BOT CHORD 1-25=-493/526, 24-25=-280/393,

23-24=-438/184, 22-23=-438/184, 21-22=-57/185, 20-21=-30/18,

7-20=-427/103, 19-20=-836/4429 18-19=-832/4409, 17-18=-832/4409,

16-17=-834/4420, 15-16=-2/26,

12-16=-286/97, 14-15=-251/1162

WEBS

14-16=-1276/251, 13-16=-233/1058,

6-22=-449/128, 20-22=-1341/211, 6-20=-139/801, 4-24=-285/92,

5-24=-183/256, 5-22=-793/314, 5-23=-3/86,

2-25=-363/214. 3-24=-210/128.

3-25=-505/498. 8-19=-161/76. 9-18=-121/59.

10-17=-261/101

NOTES

4-ply truss to be connected together with 10d 1) (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x4 - 2 rows staggered at 0-7-0 oc, 2x8 - 2 rows staggered at 0-9-0

Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated

Unbalanced roof live loads have been considered for this design.

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-1, Interior (1) 5-0-1 to 6-11-0. Exterior(2R) 6-11-0 to 14-0-14, Interior (1) 14-0-14 to 26-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip

TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0

- 6) Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated. All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 184 lb uplift at joint 14, 372 lb uplift at joint 22 and 312 lb uplift at joint 25.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 24-11-12 from the left end to connect truss(es) to front face of bottom chord.
- 15) Fill all nail holes where hanger is in contact with lumber.



Continued on page 2

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

DOI = 1.60



Job Truss Truss Type Qty Ply 4 P210577 E01 Half Hip Girder Job Reference (optional

LEE'S SUMMIT, MISSOURI ID:6TxsUyuFQ5lflo5gSrSvlqz9ZQm-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK\

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 158733395

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

- 16) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- 17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 122 lb down and 317 lb up at 6-11-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-4=-78, 4-13=-88, 1-21=-20, 16-20=-20,

14-15=-20 Concentrated Loads (lb)

Vert: 4=-18 (F), 11=-112 (F), 16=-213 (F), 24=185 (F), 19=-6 (F), 26=-14 (F), 27=-14 (F), 28=-14 (F), 35=-6 (F), 36=-6 (F), 37=-6 (F), 38=-2 (F)

16023 Swingley Ridge Rd Chesterfield, MO 63017

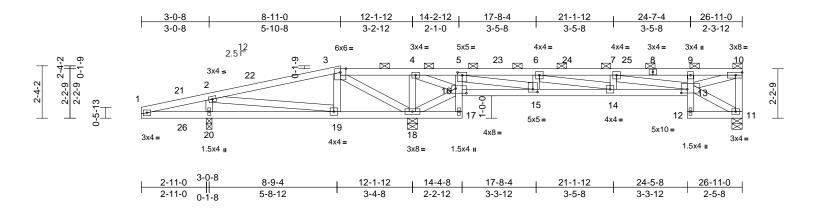
| Job | Truss | Truss Type | Qty | Ply | | |
|---------|-------|------------|-----|-----|--------------------------|--|
| P210577 | E02 | Half Hip | 1 | 1 | Job Reference (optional) | |

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Non Jun 5 12 8 12 ID:Bi f185 tal.Tl9kuJrFMLvz9ZPC-RfC?PsB70Ha3NSaPanL8w3uITXbGKW CDoi7J42C ID:Bj_fT85_tqLTI9kuJrFMLvz9ZPC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWCDoi7J42dC

DEVELOPMENT SERVICES 158733396 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW



Scale = 1:51.6

Plate Offsets (X, Y): [5:0-2-8,0-1-8], [13:0-3-4,0-2-0], [15:0-2-8,0-1-8], [16:0-5-12,0-2-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.71 | Vert(LL) | -0.09 | 14-15 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.60 | Vert(CT) | -0.20 | 14-15 | >866 | 180 | 1 | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.97 | Horz(CT) | 0.06 | 11 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 122 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No 2

BOT CHORD 2x4 SP No.2 *Except* 17-5,9-12:2x4 SPF

No.3 **WEBS** 2x4 SPF No.3

BRACING

TOP CHORD

Structural wood sheathing directly applied or

8-2-11 oc purlins, except end verticals, and 2-0-0 oc purlins (3-7-11 max.): 3-10.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 11=0-5-8, 18=0-5-8, 20=0-3-0

Max Horiz 20=86 (LC 13)

Max Uplift 11=-113 (LC 12), 18=-295 (LC 12),

20=-180 (LC 12)

Max Grav 11=693 (LC 36), 18=1871 (LC 2),

20=749 (LC 37)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-481/326, 2-3=-169/521, 3-4=-288/1417,

4-5=-197/880. 5-6=-1408/237.

6-7=-2157/373, 7-9=-1429/302

9-10=-1245/264, 10-11=-635/162 **BOT CHORD**

1-20=-252/471, 19-20=-260/461, 18-19=-495/185, 17-18=-80/14,

16-17=-17/20, 5-16=-877/191,

15-16=-743/174, 14-15=-259/1408,

13-14=-428/2157, 12-13=0/43,

9-13=-296/132, 11-12=-24/95

11-13=-101/59, 10-13=-313/1334, 2-20=-638/374, 3-19=0/197,

16-18=-1504/279, 2-19=-321/172,

4-18=-474/126, 4-16=-116/589,

7-13=-753/121, 6-15=-511/143, 5-15=-377/2192, 6-14=-193/779,

7-14=-145/97, 3-18=-1217/190

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

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 8-11-0, Exterior(2R) 8-11-0 to 15-11-14, Interior (1) 15-11-14 to 26-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 1.60

TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0

Unbalanced snow loads have been considered for this design.

5) Provide adequate drainage to prevent water ponding.

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

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 113 lb uplift at joint 11, 180 lb uplift at joint 20 and 295 lb uplift at joint 18.

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

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

LOAD CASE(S) Standard



June 6,2023



WEBS

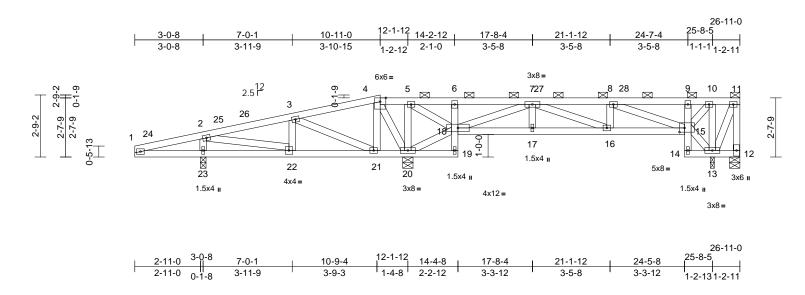


Job Truss Truss Type Qtv Ply P210577 E03 Half Hip Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733397 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:bqjeEoYB9B0DEr3?_7P1Ljz9ZOd-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK VrCDoi7342



Scale = 1:51.2

| Plate Offsets | (X, Y |): | [15:0-2-12,0-2-4] |
|---------------|-------|----|-------------------|
|---------------|-------|----|-------------------|

| 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 | TC | 0.43 | Vert(LL) | -0.03 | 16-17 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.26 | Vert(CT) | -0.07 | 16-17 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.40 | Horz(CT) | 0.02 | 13 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 132 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No 2

BOT CHORD 2x4 SP No.2 *Except* 19-6,9-14:2x4 SPF

No.3 **WEBS** 2x4 SPF No.3

BRACING

TOP CHORD

Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-11.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing, Except:

10-0-0 oc bracing: 17-18,16-17,15-16.

REACTIONS (size) 12=0-5-8, 13=0-2-2, 20=0-5-8,

23=0-3-0 Max Horiz 23=105 (LC 13)

12=-861 (LC 36), 13=-302 (LC 13), Max Uplift

20=-261 (LC 12), 23=-188 (LC 12)

12=159 (LC 13), 13=1728 (LC 36), Max Grav

20=1646 (LC 2), 23=801 (LC 37)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-509/494, 2-3=-265/196, 3-4=-150/625,

4-5=-203/947, 5-6=-106/410, 6-7=-100/370,

7-8=-874/166, 8-9=-31/98, 9-10=-41/149, 10-11=-110/382, 11-12=-151/782

BOT CHORD 1-23=-427/503, 22-23=-427/494,

21-22=-176/201, 20-21=-609/176

19-20=-42/5, 18-19=-9/18, 6-18=-307/121, 17-18=-167/807, 16-17=-167/807,

15-16=-186/874, 14-15=-72/19,

9-15=-272/118, 13-14=-23/2, 12-13=-57/54

WEBS

13-15=-493/137, 11-13=-881/176, 2-23=-690/347, 4-21=-8/296, 4-20=-795/165, 18-20=-997/230, 5-20=-466/108, 5-18=-132/666, 3-21=-650/103,

3-22=-72/139, 2-22=-302/638, 10-13=-399/133, 10-15=-117/370, 7-18=-1195/198, 8-15=-1042/172,

7-17=0/134, 7-16=-47/106, 8-16=0/108

NOTES

Unbalanced roof live loads have been considered for this design

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 10-11-0, Exterior(2R) 10-11-0 to 17-11-14, Interior (1) 17-11-14 to 26-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- All plates are 3x4 MT20 unless otherwise indicated. This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 861 lb uplift at joint 12, 188 lb uplift at joint 23, 261 lb uplift at joint 20 and 302 lb uplift at joint 13.

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

LOAD CASE(S) Standard







Job Truss Truss Type Qtv Ply P210577 E04 Half Hip 1 Job Reference (optiona

LEE'S SUMMIT. MISSOURI Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:FPzcJjvNK5g6DInZBjQq1qz9ZOA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7342

21-1-12

3-5-8

24-5-8

3-3-12

26-11-0

2-5-8

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 158733398

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

7-7-8 3-0-8 12-1-12 17-8-4 24-7-4 26-11-0 21-1-12 4-7-0 3-5-8 3-5-8 3-0-8 4-6-4 3-5-8 2-3-12 3x8= 1.5x4 u 4x4= 2.5 F 45 6 7 24 _⊠8 25 M \boxtimes 3 23 22 212 15 14 ¢ 12 1.5x4 II \mathbb{X} 19 5x10= 18 20 1.5x4 II 4x4 = 1.5x4 II 1.5x4 II 3x8= 4x12 =

14-4-8

2-2-12

17-8-4

3-3-12

Scale = 1:51.3

| Plate | Offcete | (X \ | ∕ 1· | 5:0-2-0 Edgel | [13:0-3-0.0-2-0] |
|-------|---------|------|-------------|---------------|------------------|
| | | | | | |

| 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 | TC | 0.57 | Vert(LL) | -0.03 | 14-15 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.34 | Vert(CT) | -0.07 | 14-15 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.47 | Horz(CT) | 0.03 | 11 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 130 lb | FT = 20% |

12-1-12

4-6-4

LUMBER

TOP CHORD 2x4 SP No 2

2x4 SP No.2 *Except* 17-6,9-12:2x4 SPF **BOT CHORD**

No.3 **WEBS** 2x4 SPF No.3

BRACING

TOP CHORD

Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-1-9 max.): 5-10.

2-11-0

7-7-8

4-7-0

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 11=0-5-8, 18=0-5-8, 20=0-3-0

Max Horiz 20=123 (LC 15)

Max Uplift 11=-118 (LC 13), 18=-299 (LC 12),

20=-177 (LC 12)

Max Grav 11=710 (LC 36), 18=1861 (LC 2),

20=756 (LC 37)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-508/466, 2-3=-181/355, 3-4=-252/1018, TOP CHORD

4-5=-123/426. 5-6=-128/441. 6-7=-119/401.

7-8=-1234/239, 8-9=-768/151,

9-10=-727/146, 10-11=-673/170 1-20=-398/501, 19-20=-401/494

BOT CHORD 18-19=-324/220, 17-18=-36/0, 16-17=-17/12,

6-16=-269/95, 15-16=-196/879, 14-15=-196/879, 13-14=-265/1234

12-13=0/43, 9-13=-305/139, 11-12=-11/38

16-18=-1023/263, 11-13=-84/75,

10-13=-221/926, 2-20=-643/342, 4-18=-986/266, 3-18=-873/143,

3-19=-13/138, 2-19=-278/468,

4-16=-150/746, 7-16=-1327/253, 8-13=-523/99, 7-15=0/135, 7-14=-111/432,

8-14=-126/94

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00: Cat. II: Exp C: Enclosed: MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 12-11-0, Exterior(2R) 12-11-0 to 19-11-14, Interior (1) 19-11-14 to 26-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- 5) Provide adequate drainage to prevent water ponding.
- All plates are 3x4 MT20 unless otherwise indicated. 6)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint 11, 177 lb uplift at joint 20 and 299 lb uplift at joint 18.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 6,2023



WEBS



| Job | Truss | Truss Type | Qty | Ply | | |
|---------|-------|------------|-----|-----|--------------------------|--|
| P210577 | E05 | Half Hip | 1 | 1 | Job Reference (optional) | |

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

ID:QofCCIExkiB8acwyqbxO9kz9ZNk-RfC?PsB70Hq3NSgPqnL8w3uITXbGK VrCDoi7342

7x8=

14-2-12 18-1-12 3-0-8 7-5-4 12-1-12 21-4-8 24-7-4 26-11-0 3-2-12 3-0-8 4-4-12 4-8-8 2-1-0 3-2-12 3-2-12 2-3-12 0-8-4 8x10= 3x8= 6x6= 5x10= 3x4 II 3x4 II 6x6 = 12 2.5 □ 56 8 23 7 3x4 = 322 2 15 25 1426

3x4 II

12x12 =

12-1-12 14-4-8 18-1-12 21-4-8 26-11-0 2-2-12 3-1-0 4-8-8 3-9-4 3-2-12 2-5-8

18

3-5-10 3-5-10

3-7-2

Plate Offsets (X, Y): [7:0-3-8,0-1-8], [11:Edge,0-2-12], [13:0-4-12,0-6-12], [14:0-3-8,0-7-8], [15:0-2-0,0-4-12], [16:0-3-12,0-7-12]

19

| 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 | 1.00 | Vert(LL) | -0.10 | 14-15 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.67 | Vert(CT) | -0.22 | 14-15 | >784 | 180 | MT18HS | 197/144 |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.84 | Horz(CT) | 0.09 | 11 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 163 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 6-10:2x6 SPF No.2 2x4 SP No.2 *Except* 17-5,9-12:2x4 SPF **BOT CHORD** No.3, 16-13:1 1/2" x 9 1/4" 2.0E Microllam®

3x4 =

LVL

Ø

20

1.5x4 II

WEBS 2x4 SPF No.3 *Except* 13-10,15-6:2x4 SP

1650F 1.5E, 16-4:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-4-12 max.): 6-10.

BOT CHORD Rigid ceiling directly applied or 5-0-13 oc

bracing.

WFBS 1 Row at midpt 8-13

REACTIONS 11=0-5-8, 18=0-5-8, 20=0-3-0 (size)

Max Horiz 20=138 (LC 13)

Max Uplift 11=-457 (LC 13), 18=-635 (LC 12),

20=-422 (LC 56)

11=3136 (LC 36), 18=4353 (LC 2),

20=307 (LC 37)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-517/532, 2-3=-335/1329,

3-4=-438/2392, 4-5=-103/84, 5-6=-187/60, 6-7=-5355/801, 7-8=-6729/995,

8-9=-3631/550, 9-10=-3477/529, 10-11=-3087/514

BOT CHORD 1-20=-465/511, 19-20=-468/506,

18-19=-1277/351, 17-18=-144/24, 16-17=-46/14, 5-16=-110/19, 15-16=-234/1080, 14-15=-823/5349,

13-14=-1043/6729, 12-13=0/38, 9-13=-346/141, 11-12=-10/47

WEBS

16-18=-2503/441, 6-16=-2761/446, 11-13=-95/79, 10-13=-738/4558, 2-20=-211/576, 3-18=-1243/210, 4-18=-2495/507, 4-16=-438/2788,

3-19=0/270, 2-19=-991/239, 8-13=-3573/513, 7-15=-1302/277. 6-15=-717/4994.

7-14=-254/1625, 8-14=-219/1619

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 14-11-0, Exterior(2R) 14-11-0 to 21-11-14, Interior (1) 21-11-14 to 26-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding. All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 457 lb uplift at joint 11, 422 lb uplift at joint 20 and 635 lb uplift at joint
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

12

1.5x4 **I**I

MT18HS 5x8 =

12x12 =

10x10 =

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733399 LEE'S SUMMIT. MISSOURI

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-6=-78, 6-10=-88, 1-17=-20, 13-16=-20, 11-12=-20

Concentrated Loads (lb) Vert: 25=-1426, 26=-3106



June 6,2023



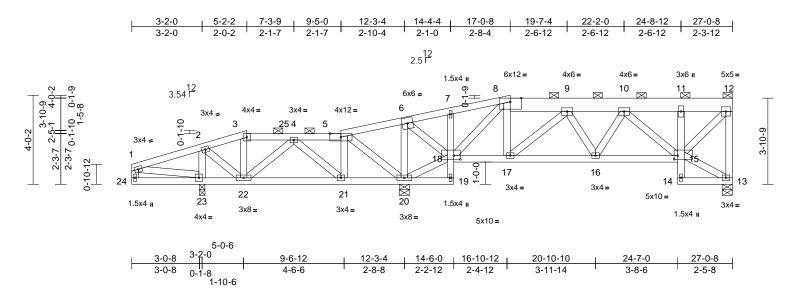


Job Truss Truss Type Qtv Ply P210577 E06 Roof Special Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733400 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Non Jun ID:GlfbIPL0IffD_bNRfC3kLwz9ZMJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWCDoi7J



Scale = 1:51.9

| Plate Offsets (X, Y): | [15:0-2-0,0-2-0], | [18:0-3-8,0-2-0] |
|-----------------------|-------------------|------------------|
|-----------------------|-------------------|------------------|

| 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 | TC | 0.46 | Vert(LL) | -0.02 | 16-17 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.33 | Vert(CT) | -0.06 | 16-17 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.99 | Horz(CT) | 0.04 | 13 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 154 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 8-12:2x8 SPF No.2 2x4 SP No.2 *Except* 19-7,11-14:2x4 SPF **BOT CHORD**

No.3

WEBS 2x4 SPF No.3 *Except* 24-1:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5, 8-12.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 13=0-5-8, 20=0-5-8, 23=0-3-0

> 23=152 (LC 13) Max Horiz

13=-138 (LC 12), 20=-460 (LC 12), Max Uplift

23=-266 (LC 68)

Max Grav 13=848 (LC 2), 20=3151 (LC 2),

23=603 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-287/362, 2-3=-195/221, 3-4=-171/188, TOP CHORD

4-5=-245/716, 5-6=-277/1238, 6-7=-665/126, 7-8=-680/145, 8-9=-994/191, 9-10=-1166/207, 10-11=-644/136,

11-12=-625/136, 12-13=-815/200,

1-24=-95/53

BOT CHORD 23-24=-52/44, 22-23=-343/310,

21-22=-389/123, 20-21=-689/154,

19-20=-6/19, 18-19=-16/16, 7-18=-179/104, 17-18=-227/1004, 16-17=-276/1200, 15-16=-273/1087, 14-15=0/43, 11-15=-234/114, 13-14=-8/26

WEBS

3-22=-193/103, 5-21=-23/430, 5-20=-651/104, 18-20=-1311/230, 8-18=-591/262, 13-15=-89/88, 12-15=-220/932, 1-23=-350/333, 6-20=-2105/380, 6-18=-358/2232, 2-23=-476/363, 2-22=-241/197,

8-17=-54/276, 4-22=-81/300, 4-21=-560/112, 9-16=-96/51, 9-17=-312/152, 10-16=0/192,

10-15=-611/112

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 9-5-0, Interior (1) 9-5-0 to 26-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 23.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 13, 460 lb uplift at joint 20 and 266 lb uplift at joint
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-3=-78, 3-5=-88, 5-8=-78, 8-12=-88,

19-24=-20, 15-18=-20, 13-14=-20

Concentrated Loads (lb)

Vert: 18=-1466



June 6,2023

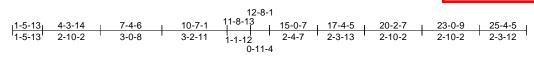


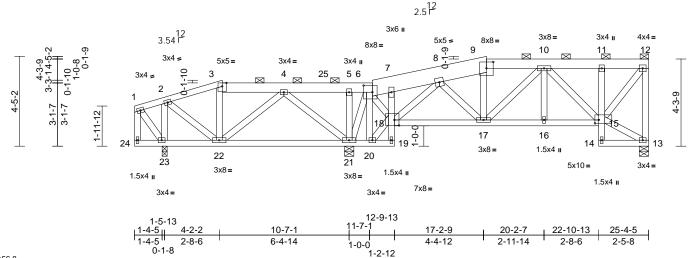
Job Truss Truss Type Qtv Ply P210577 E07 Roof Special 1 Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733401 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:SztckouFiUKruVJ5o9NHgPz9ZLc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK VrCDoi7





Scale = 1:56.8

Plate Offsets (X, Y): [6:0-5-4,0-4-0], [9:0-4-0,0-3-12], [15:0-2-4,0-2-0], [18:0-2-12,0-3-4]

| 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 | TC | 0.21 | Vert(LL) | -0.03 | 21-22 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.29 | Vert(CT) | -0.06 | 21-22 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.34 | Horz(CT) | 0.02 | 13 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 161 lb | FT = 20% |

LUMBER

2x6 SPF No.2 *Except* 1-3:2x4 SP No.2, TOP CHORD

6-9:2x10 HF No.2

2x4 SP No.2 *Except* 19-7,11-14:2x4 SPF **BOT CHORD**

No.3

2x4 SPF No.3 *Except* 24-1:2x4 SP No.2

BRACING

WFBS

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-6, 9-12.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 13=0-5-8, 21=0-5-8, 23=0-3-0

Max Horiz 23=172 (LC 13)

Max Uplift 13=-130 (LC 12), 21=-271 (LC 12),

23=-119 (LC 12)

Max Grav 13=752 (LC 2), 21=1740 (LC 2),

23=516 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-49/54, 2-3=-211/66, 3-4=-190/82,

4-5=-226/589, 5-6=-227/592, 6-7=-104/88, 7-8=-132/90, 8-9=-793/173, 9-10=-773/180,

10-11=-475/129, 11-12=-463/128,

12-13=-719/193, 1-24=-41/29

BOT CHORD 23-24=-35/38, 22-23=-215/179,

21-22=-113/64, 20-21=-299/68, 19-20=-20/0,

18-19=0/56, 7-18=-245/70, 17-18=-178/553,

16-17=-233/792, 15-16=-233/792, 14-15=0/43, 11-15=-256/128, 13-14=-6/24 WEBS

3-22=-222/98, 6-20=-89/133,

18-20=-403/102, 6-18=-154/673, 9-17=-133/64, 13-15=-103/100,

12-15=-206/770, 1-23=-39/63,

2-23=-461/199. 2-22=-84/248.

5-21=-357/104, 6-21=-749/163

4-22=-92/279, 4-21=-747/225, 8-17=-45/346, 8-18=-744/157, 10-15=-456/89,

10-17=-94/57, 10-16=0/104

NOTES

Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 1-0-1 to 5-2-4, Exterior(2R) 5-2-4 to 10-2-4, Interior (1) 10-2-4 to 26-0-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0

Unbalanced snow loads have been considered for this design.

Provide adequate drainage to prevent water ponding.

All plates are 3x4 MT20 unless otherwise indicated.

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

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 13, 119 lb uplift at joint 23 and 271 lb uplift at joint

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

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

LOAD CASE(S) Standard







RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW Ply Qty Job Truss Truss Type DEVELOPMENT SERVICES 158733402 2 P210577 E08 Half Hip LEE'S SUMMIT. MISSOURI Job Reference (optiona

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Non Jun ID:tuBtCtyS_XQMS12?yeywEzz9ZKE-RfC?PsB70Hq3NSgPqnL8w3uITXbGl WrCDoi

4-1-12

14-3-4 3-0-3 6-1-7 10-1-7 3-0-3 3-1-3 4-0-0 4-1-12 3.54 □ 5x8 = 7x8 = 4x6 = 3x6 II 3x4 = 2 3 1112 13_ 3-11-1 10 6 9 7 8 1.5x4 II 3x6 = 3x8 =4x6 = 3x4 II 5-10-11 10-1-7 14-3-4 2-10-7

Scale = 1:41.5

| Loading | (psf) | Spacing | 2-0-0 | csı | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.68 | Vert(LL) | -0.01 | 7 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.28 | Vert(CT) | -0.03 | 6-7 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.65 | Horz(CT) | 0.01 | 6 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 182 lb | FT = 20% |

4-0-0

3-0-3

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 2-5:2x8 SPF No.2

BOT CHORD 2x4 SP No.2 WFBS

2x4 SPF No.3 *Except* 10-1:2x4 SP No.2

BRACING

Structural wood sheathing directly applied or TOP CHORD

10-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-5.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing

REACTIONS (size) 6= Mechanical, 8=0-5-8

Max Horiz 8=145 (LC 13)

Max Uplift 6=-487 (LC 13), 8=-847 (LC 12)

Max Grav 6=2924 (LC 36), 8=4453 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-146/174, 2-3=-109/124, 3-4=-1861/298,

4-5=-99/88, 5-6=-1268/250, 1-10=-96/59 BOT CHORD 9-10=-53/57, 8-9=-450/675, 7-8=-468/812,

6-7=-360/1861

1-9=-215/210, 3-8=-4300/1533,

4-6=-2420/433, 2-9=-207/186, 3-9=-807/489,

4-7=-1924/629, 3-7=-833/2943

NOTES

WEBS

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x4 - 1 row at
- Web connected as follows: 2x4 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 5-1-11 to 8-0-3, Exterior(2R) 8-0-3 to 15-1-6, Interior (1) 15-1-6 to 19-1-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.: Ce=0.9: Cs=1.00: Ct=1.10. Lu=50-0-0
- Unbalanced snow loads have been considered for this design
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 487 lb uplift at joint 6 and 847 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1344 lb down and 212 lb up at 14-1-3, and 3024 lb down and 476 lb up at 16-11-2 on top chord. The design/selection of such connection device(s) is the responsibility of

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-2=-78, 2-5=-88, 6-10=-20

Concentrated Loads (lb) Vert: 3=-1466, 11=-1302, 13=-2982



2-10-7

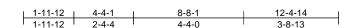


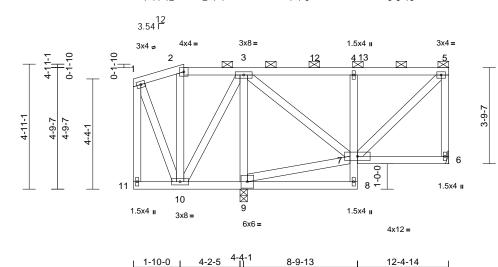
Ply Job Truss Truss Type Qtv P210577 E09 Half Hip 1 Job Reference (optiona

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 150 12822 ID:X5cPigXd7nwmf9ZA7foe2bz9ZIB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKVrCDoi7342JS-1 Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

1-10-0

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733403 LEE'S SUMMIT. MISSOURI





Scale = 1:45.3

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.35 | Vert(LL) | -0.01 | 8-9 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.15 | Vert(CT) | -0.02 | 8-9 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.43 | Horz(CT) | 0.00 | 6 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | 1 | | 1 | | | | | | | Weight: 87 lb | FT = 20% |

4-5-12

3-7-1

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except* 8-4:2x4 SPF No.3 2x4 SPF No.3 *Except* 11-1:2x4 SP No.2 WFBS

BRACING

Structural wood sheathing directly applied or TOP CHORD

10-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-5.

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

bracing, Except:

6-0-0 oc bracing: 9-10. REACTIONS (size) 6= Mechanical, 9=0-3-8

Max Horiz 9=167 (LC 13)

Max Uplift 6=-119 (LC 13), 9=-329 (LC 12)

Max Grav 6=395 (LC 36), 9=1111 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-85/102, 2-3=-63/78, 3-4=-219/66,

4-5=-220/65, 5-6=-356/162, 1-11=-69/39

BOT CHORD 10-11=-83/90, 9-10=-212/329, 8-9=-6/30,

7-8=0/74, 4-7=-460/257, 6-7=-63/77 **WEBS** 5-7=-132/316, 1-10=-121/126,

2-10=-167/122, 7-9=-317/414, 3-9=-959/803,

3-10=-444/320, 3-7=-303/471

NOTES

TOP CHORD

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 9-0-1 to 10-10-2, Exterior(2R) 10-10-2 to 17-10-15, Interior (1) 17-10-15 to 21-1-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this desian.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint 6 and 329 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



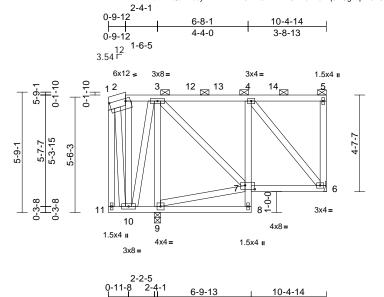




RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW Job Truss Truss Type Qtv Ply DEVELOPMENT SERVICES 158733404 P210577 E10 Half Hip LEE'S SUMMIT. MISSOURI Job Reference (optiona

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:bFYVQdwhbcyDV4?K?NN8LLz9ZHh-RfC?PsB70Hq3NSgPqnL8w3uITXb;kWrCDwJQ2C?



Scale = 1:55.1

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

| 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 | TC | 0.36 | Vert(LL) | -0.01 | 8-9 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.16 | Vert(CT) | -0.02 | 8-9 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.39 | Horz(CT) | 0.00 | 6 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 89 lb | FT = 20% |

3-7-1

LUMBER

TOP CHORD 2x8 SPF No.2 *Except* 2-5:2x4 SP No.2 BOT CHORD 2x4 SP No.2 *Except* 8-4:2x4 SPF No.3 **WEBS** 2x4 SPF No.3 *Except* 11-1:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 2-5. Rigid ceiling directly applied or 6-0-0 oc

BOT CHORD bracing

REACTIONS (size) 6= Mechanical, 9=0-3-8

Max Horiz 9=204 (LC 13)

Max Uplift 6=-147 (LC 13), 9=-241 (LC 12)

Max Grav 6=468 (LC 36), 9=775 (LC 2)

(lb) - Maximum Compression/Maximum FORCES Tension

TOP CHORD 1-2=-128/140, 2-3=-98/117, 3-4=-240/126,

4-5=-95/98, 5-6=-151/91, 1-11=-95/92

BOT CHORD 10-11=-104/113, 9-10=-120/167, 8-9=-14/25,

7-8=0/74, 4-7=-222/279, 6-7=-251/352 **WEBS**

7-9=-256/279, 4-6=-431/290, 3-9=-639/551, 3-7=-241/353, 2-10=-100/87, 3-10=-164/41,

1-10=-96/102

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 13-0-1 to 13-8-1, Exterior(2R) 13-8-1 to 20-8-14, Interior (1) 20-8-14 to 23-1-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0

- 3) Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.

0-

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 147 lb uplift at joint 6 and 241 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 6,2023





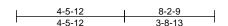
Ply Qty Job Truss Truss Type P210577 E11 Roof Special Job Reference (optiona

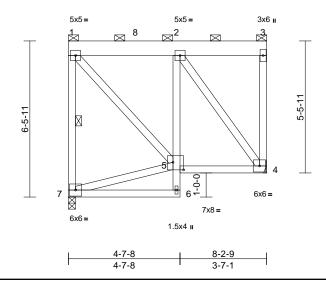
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733405 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 15) 28:24 KWrCDol 420 of ID:Mn1W5M0ii3y5SJdsT2W1g1z9ZHZ-RfC?PsB70Hq3NSgPqnL8w3uITXbG





Scale = 1:47.7

Plate Offsets (X, Y): [5:0-5-4,0-3-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.76 | Vert(LL) | -0.02 | 6-7 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.26 | Vert(CT) | -0.05 | 6-7 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.91 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 73 lb | FT = 20% |

LUMBER

TOP CHORD 2x8 SP 2400F 2 0F

2x4 SP No.2 *Except* 6-2:2x4 SPF No.3 BOT CHORD

WEBS 2x4 SPF No.3

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, except

end verticals. BOT CHORD Rigid ceiling directly applied or 9-2-5 oc

bracing.

WEBS 1 Row at midpt

REACTIONS (size)

4= Mechanical, 7=0-3-8 Max Horiz 7=-236 (LC 12)

Max Uplift 4=-256 (LC 11), 7=-343 (LC 10)

Max Grav 4=988 (LC 2), 7=1508 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-7=-1461/541, 1-2=-705/263, 2-3=-103/112, 3-4=-66/208

BOT CHORD 6-7=-6/13, 5-6=0/87, 2-5=-677/452,

4-5=-410/711

WEBS 5-7=-317/322, 1-5=-428/1058, 2-4=-1219/579

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 343 lb uplift at joint 7 and 256 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1546 lb down and 259 lb up at 2-9-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-3=-88, 6-7=-20, 4-5=-20

Concentrated Loads (lb) Vert: 8=-1437









Ply Job Truss Truss Type Qty P210577 E12 Roof Special Job Reference (optiona

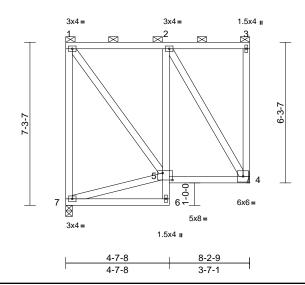
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733406 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 E Nov 21 2022 Print: 8.630 E Nov 21 2022 MiTek Industries, Inc. Mon Jun 65 kOTmLTL#/F2918t ID:J1rsv1t7oUPOz?dB3IOMxPz9ZOC-y4XSLpmFbUHyQGBmTYCZI0IJgyR3





Scale = 1:51.5

Plate Offsets (X, Y): [5:0-5-4,0-3-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.93 | Vert(LL) | -0.02 | 6-7 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.23 | Vert(CT) | -0.05 | 6-7 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.51 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 66 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* 6-2:2x4 SPF No.3 BOT CHORD

WEBS 2x4 SPF No.3

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, except

end verticals.

BOT CHORD Rigid ceiling directly applied or 9-10-10 oc

bracing.

REACTIONS (lb/size) 4=427/ Mechanical, 7=427/0-3-8

Max Horiz 7=-275 (LC 12)

Max Uplift 4=-203 (LC 11), 7=-202 (LC 10)

Max Grav 4=475 (LC 2), 7=475 (LC 2) (lb) - Max. Comp./Max. Ten. - All forces 250

FORCES (lb) or less except when shown.

TOP CHORD 1-7=-431/462

BOT CHORD 2-5=-320/452, 4-5=-353/361

5-7=-351/361, 1-5=-378/376, 2-4=-525/531 WEBS

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 202 lb uplift at joint 7 and 203 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard







Job Truss Truss Type Qty Ply P210577 E13 Half Hip Job Reference (optiona

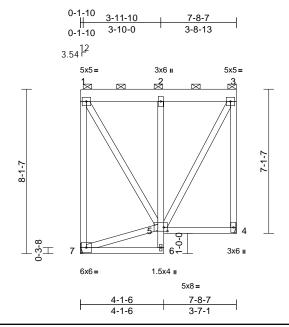
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 🚯 ID:UNQ852?WeyAbglJRiZT0S6z9ZGI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGl

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733407 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Non Jun 05) 8:44 WrCDoi 34236 #



Scale = 1:56.9

Plate Offsets (X, Y): [5:0-2-4,0-2-4]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.88 | Vert(LL) | -0.01 | 6-7 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.20 | Vert(CT) | -0.03 | 6-7 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.58 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 76 lb | FT = 20% |

LUMBER

TOP CHORD 2x8 SPF No 2

BOT CHORD 2x4 SP No.2 *Except* 6-2:2x4 SPF No.3 **WEBS** 2x4 SPF No.3 *Except* 7-1:2x4 SP No.2

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, except

end verticals.

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

bracing.

REACTIONS (size) 4= Mechanical, 7= Mechanical

Max Horiz 7=-303 (LC 12)

Max Uplift 4=-234 (LC 11), 7=-233 (LC 10)

Max Grav 4=445 (LC 2), 7=445 (LC 2) (lb) - Maximum Compression/Maximum

FORCES Tension

1-2=-140/155, 2-3=-141/155, 3-4=-560/608,

TOP CHORD

1-7=-456/505 6-7=-5/5, 5-6=0/76, 2-5=-417/405,

BOT CHORD

4-5=-134/146

WEBS 5-7=-399/409, 1-5=-402/400, 3-5=-523/517

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 234 lb uplift at joint 4 and 233 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 6,2023



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 chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

Ply Job Truss Truss Type Qty P210577 E14 Roof Special

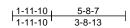
Job Reference (optiona Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65

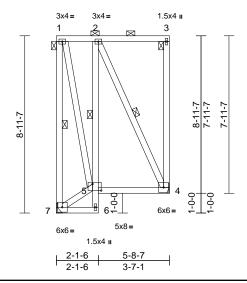
LEE'S SUMMIT. MISSOURI Mon Jun 5008252 ID:njLoZR4v_62c0qLndX5fEbz9ZGB-RfC?PsB70Hq3NSgPqnL8w3uITXbGK

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 158733408

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





Scale = 1:58.2

Plate Offsets (X, Y): [5:0-5-4,0-4-0]

| 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 | TC | 1.00 | Vert(LL) | 0.01 | 2 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.25 | Vert(CT) | -0.02 | 4-5 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.81 | Horz(CT) | -0.01 | 7 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 70 lb | FT = 20% |

LUMBER

2x4 SP No.2 TOP CHORD

BOT CHORD 2x4 SP No.2 *Except* 6-2:2x4 SPF No.3 **WEBS** 2x4 SPF No.3 *Except* 7-1,3-4:2x4 SP No.2

BRACING

TOP CHORD 2-0-0 oc purlins: 1-3, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing. Except:

1 Row at midpt 2-5

WEBS 1 Row at midpt 1-7, 2-4

REACTIONS (size) 4= Mechanical, 7= Mechanical

Max Horiz 4=-343 (LC 12)

Max Uplift 4=-272 (LC 11), 7=-273 (LC 10)

Max Grav 4=392 (LC 25), 7=393 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-7=-650/686, 1-2=-106/127, 2-3=-151/164,

3-4=-149/157

BOT CHORD 6-7=-15/14, 5-6=0/36, 2-5=-507/626,

4-5=-270/279

WEBS 5-7=-184/202, 1-5=-666/641, 2-4=-523/541

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 273 lb uplift at joint 7 and 272 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 6,2023

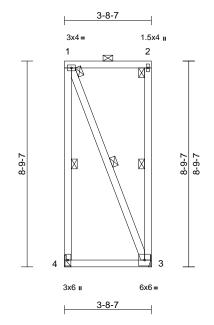




| | | | | | | RELEASE FOR CONSTRUCTION |
|---------|-------|--------------|-----|-----|--------------------------|--|
| Job | Truss | Truss Type | Qty | Ply | | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733409 |
| P210577 | E15 | Roof Special | 1 | 1 | Job Reference (optional) | LETTE CHAMIT MICCOURT |

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

LEE'S SUMMIT, MISSOURI Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Non Jun 650 825 ID:IdJ5NhnoTd8zG5ueBsbymcz9ZCi-RfC?PsB70Hq3NSgPqnL8w3uITXbGK VrCDoi7342JSH



Scale = 1:49.2

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.68 | Vert(LL) | -0.01 | 3-4 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.14 | Vert(CT) | -0.02 | 3-4 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.36 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | 1 | | | | | | | | | Weight: 45 lb | FT = 20% |

LUMBER

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

2x4 SP 1650F 1.5E *Except* 3-1:2x4 SPF WFBS

BRACING

TOP CHORD 2-0-0 oc purlins: 1-2, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

WFBS 1 Row at midpt 1-4, 2-3, 1-3

3= Mechanical, 4= Mechanical REACTIONS (size)

Max Horiz 3=-347 (LC 10)

Max Uplift 3=-465 (LC 11), 4=-465 (LC 10) Max Grav 3=498 (LC 12), 4=498 (LC 13)

(lb) - Maximum Compression/Maximum **FORCES**

Tension TOP CHORD

1-4=-839/906, 1-2=-165/180, 2-3=-171/181

BOT CHORD 3-4=-165/180 **WEBS** 1-3=-782/782

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 465 lb uplift at joint 4 and 465 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 6,2023





Job Truss Truss Type Qtv Ply 3 P210577 G01 Roof Special Girder Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733410 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:9HGM0glt60CrcM24wAc7sSz9Yvz-RfC?PsB70Hq3NSgPqnL8w3uITXbG

WrCDo

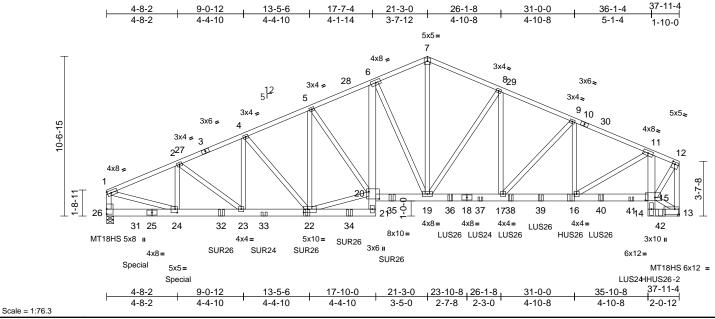


Plate Offsets (X, Y): [12:0-2-0,0-1-12], [13:Edge,0-4-4], [15:0-7-8,0-2-4], [20:0-8-4,0-5-12], [22:0-3-0,0-2-12], [24:0-1-12,0-2-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defI | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.43 | Vert(LL) | 0.16 | 19-20 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.71 | Vert(CT) | -0.33 | 19-20 | >999 | 180 | MT18HS | 197/144 |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 1.00 | Horz(CT) | 0.14 | 13 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 800 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x6 SPF No.2 **WEBS** 2x4 SPF No.3 *Except*

22-20,26-1,24-1,13-12:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD

REACTIONS 13= Mechanical, 26=0-5-8 (size)

Max Horiz 26=129 (LC 15)

Max Uplift 13=-2366 (LC 17), 26=-1660 (LC

16)

Max Grav 13=8801 (LC 2), 26=7392 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension 1-2=-9626/2286, 2-4=-9736/2574,

TOP CHORD

4-5=-8891/2573, 5-6=-8771/2758,

6-7=-7003/2441, 7-8=-7057/2449, 8-9=-7998/2783, 9-11=-8324/2671

11-12=-4498/1320, 1-26=-6488/1558 12-13=-7377/2145

BOT CHORD 24-26=-287/456, 23-24=-2203/8798,

22-23=-2408/8915, 21-22=-299/905, 20-21=-138/526, 6-20=-842/3733,

19-20=-2507/8083, 17-19=-2507/7296,

16-17=-2475/7589, 15-16=-1357/4438,

14-15=-338/1992, 11-15=-3561/1278,

13-14=-214/865

WEBS 2-24=-563/390, 2-23=-279/306, 4-23=0/840,

4-22=-1256/143, 5-22=-336/363, 20-22=-2156/7564, 5-20=-317/123,

6-19=-3772/912, 7-19=-1746/4899, 8-19=-1649/779, 8-17=-630/1249, 9-17=-554/61, 9-16=-341/194,

11-16=-1297/3657, 1-24=-2071/8730,

13-15=-935/297, 12-15=-2004/6805

NOTES N/A

3-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0

Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-4-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B),

unless otherwise indicated. Unbalanced roof live loads have been considered for this design.

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 21-3-0, Exterior(2R) 21-3-0 to 26-1-8, Interior (1) 26-1-8 to 37-9-8 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 6) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1660 lb uplift at joint 26 and 2366 lb uplift at joint 13.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Use Simpson Strong-Tie SUR26 (6-10d Girder, 6-10dx1 1/2 Truss) or equivalent at 7-7-3 from the left end to connect truss(es) to front face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.



Continued on page 2

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

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE



16023 Swingley Ridge Rd Chesterfield, MO 63017

Ply Qty Job Truss Truss Type 3 P210577 G01 Roof Special Girder Job Reference (optiona

DEVELOPMENT SERVICES 158733410 LEE'S SUMMIT. MISSOURI Non Jun 050 8:262 WrCDoi 34252 Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 🚯 ID:9HGM0glt60CrcM24wAc7sSz9Yvz-RfC?PsB70Hq3NSgPqnL8w3ulTXbGl

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

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

14) Use Simpson Strong-Tie SUR24 (4-16d Girder, 4-10dx1 1/2 Truss) or equivalent at 10-5-2 from the left end to connect truss(es) to front face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.

15) Use Simpson Strong-Tie SUR26 (6-10d Girder, 6-10dx1 1/2 Truss) or equivalent at 13-3-2 from the left end to connect truss(es) to front face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.

- 16) Use Simpson Strong-Tie SUR26 (6-10d Girder, 6-10dx1 1/2 Truss) or equivalent at 16-1-1 from the left end to connect truss(es) to front face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.
- 17) Use Simpson Strong-Tie SUR26 (6-10d Girder, 6-10dx1 1/2 Truss) or equivalent at 18-11-0 from the left end to connect truss(es) to front face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.
- 18) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent spaced at 4-0-0 oc max. starting at 22-9-4 from the left end to 32-9-4 to connect truss(es) to front face of bottom chord.
- 19) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 10-0-0 oc max. starting at 24-9-4 from the left end to 34-9-4 to connect truss(es) to front face of bottom chord.
- 20) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent at 30-9-4 from the left end to connect truss(es) to front face of bottom chord.
- 21) Use Simpson Strong-Tie HHUS26-2 (14-SD10212 Girder, 6-SD10212 Truss) or equivalent at 36-8-7 from the left end to connect truss(es) to front face of bottom chord.
- 22) Fill all nail holes where hanger is in contact with lumber.
- 23) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1348 lb down and 179 lb up at 1-11-5, and 1228 lb down and 194 lb up at 4-9-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-7=-78, 7-12=-78, 21-26=-20, 15-20=-20,

13-14=-20

Concentrated Loads (lb)

Vert: 24=-1034 (F), 22=-649 (F), 16=-891 (F), 31=-1144 (F), 32=-582 (F), 33=-517 (F), 34=-618 (F), 35=-510 (F), 36=-168 (F), 37=-278 (F), 38=-388 (F), 39=-389 (F), 40=-448 (F), 41=-375 (F), 42=-2904 (F)

Job Truss Truss Type Qtv Ply P210577 G02 Roof Special Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733411 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Hon Jun 🗗 ID:9NN4Hw6X5vmBnpF8vSq4doz9Yuv-RfC?PsB70Hq3NSgPqnL8w3ulTXbCKWrCDd

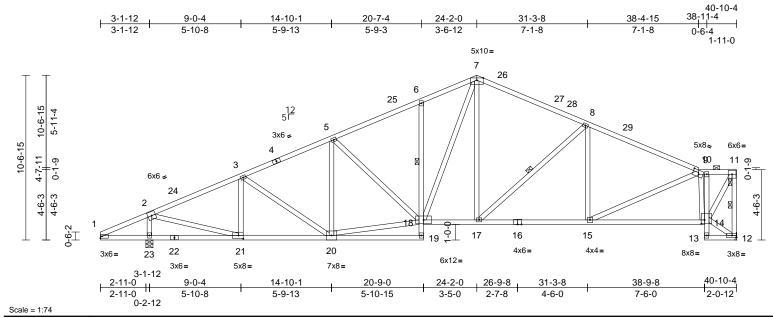


Plate Offsets (X, Y): [9:0-4-12,0-3-0], [14:0-2-8,0-3-0], [21:0-3-8,0-2-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.87 | Vert(LL) | -0.14 | 6-18 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.81 | Vert(CT) | -0.34 | 6-18 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.74 | Horz(CT) | 0.16 | 12 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 248 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 7-9:2x4 SP 1650F

1.5E

BOT CHORD 2x4 SP No.2 *Except* 19-6,10-13:2x4 SPF

No.3

WEBS 2x4 SPF No.3 *Except* 14-11,21-2,18-20:2x4

SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-9-2 max.): 9-11.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing. Except:

1 Row at midpt 6-18

BOT CHORD

WEBS 1 Row at midpt 11-12, 8-17

REACTIONS 12= Mechanical, 23=0-5-8 (size)

Max Horiz 23=208 (LC 16)

Max Uplift 12=-245 (LC 17), 23=-337 (LC 16)

Max Grav 12=2238 (LC 2), 23=2647 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-261/279, 2-3=-3106/391

3-5=-3177/422, 5-6=-3015/418, 6-7=-2964/505, 7-8=-2591/405,

8-9=-2941/367, 9-10=-1214/168

10-11=-1176/172, 11-12=-2190/269

1-23=-159/248, 21-23=-251/305,

20-21=-439/2763, 19-20=-4/150,

18-19=0/108, 6-18=-473/188,

17-18=-318/2246, 15-17=-375/2598,

14-15=-257/1523, 13-14=-12/31,

10-14=-183/20, 12-13=-32/44

WEBS

7-18=-330/1233, 9-14=-1939/322, 12-14=-121/145, 11-14=-306/2427,

2-23=-2512/459, 7-17=-66/555,

8-17=-630/202, 8-15=-338/153,

9-15=-130/1183, 5-18=-314/152, 3-21=-654/181, 2-21=-392/3013,

3-20=-18/159, 5-20=-392/147,

18-20=-424/2721

NOTES

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

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 24-2-0, Exterior(2R) 24-2-0 to 29-2-0, Interior (1) 29-2-0 to 40-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0

Unbalanced snow loads have been considered for this design.

- Provide adequate drainage to prevent water ponding.
- All plates are 3x4 MT20 unless otherwise indicated. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 245 lb uplift at joint 12 and 337 lb uplift at joint 23.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

LOAD CASE(S) Standard





Job Truss Truss Type Qtv Ply P210577 G03 Roof Special Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733412 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:L1b4kJfmUkRpgjBo2P8dyHz9YuC-RfC?PsB70Hq3NSgPqnL8w3uITXbG

WrCDoi7

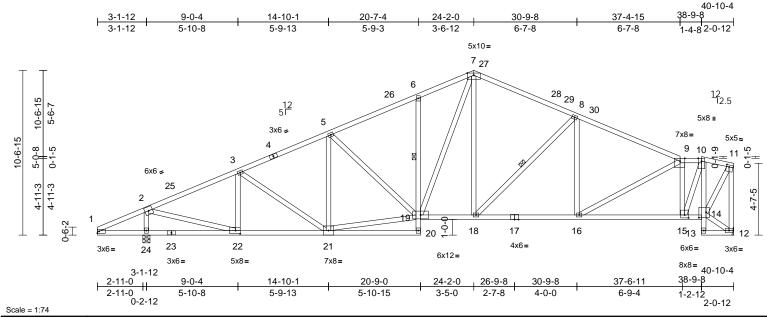


Plate Offsets (X, Y): [9:0-3-11,Edge], [11:0-2-0,0-1-8], [14:0-5-8,0-4-4], [15:0-3-0,0-2-4], [22:0-3-8,0-2-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.77 | Vert(LL) | -0.15 | 6-19 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.75 | Vert(CT) | -0.35 | 6-19 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.96 | Horz(CT) | 0.16 | 12 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 254 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 7-9:2x4 SP 1650F

1.5E

BOT CHORD 2x4 SP No.2 *Except* 20-6,10-13:2x4 SPF

No.3

WEBS 2x4 SPF No.3 *Except* 12-11,22-2,19-21:2x4

SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-7-7 oc purlins, except end verticals, and 2-0-0 oc purlins (4-1-5 max.): 9-10.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:

1 Row at midpt 6-19

WEBS 1 Row at midpt 8-18

REACTIONS 12= Mechanical, 24=0-5-8 (size)

Max Horiz 24=209 (LC 16)

Max Uplift 12=-246 (LC 17), 24=-337 (LC 16)

Max Grav 12=2238 (LC 2), 24=2647 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-336/279, 2-3=-3106/422,

3-5=-3177/547, 5-6=-3015/585,

6-7=-2968/682, 7-8=-2577/551,

8-9=-2917/528, 9-10=-1783/337

10-11=-1125/234, 11-12=-2193/425

BOT CHORD 1-24=-159/322, 22-24=-253/327, 21-22=-572/2763, 20-21=-11/150,

19-20=0/108, 6-19=-477/209,

18-19=-420/2243, 16-18=-508/2583,

15-16=-390/1858, 14-15=-302/1207, 13-14=-10/32, 10-14=-1687/271, 12-13=0/36 **WEBS**

7-19=-331/1238, 9-15=-1912/390, 10-15=-288/1881, 12-14=-135/117,

11-14=-423/2176, 2-24=-2512/657, 5-19=-313/152, 3-22=-654/229,

2-22=-573/3013. 3-21=-17/163. 5-21=-392/169, 19-21=-568/2721,

7-18=-74/570, 8-18=-624/199,

8-16=-265/151. 9-16=-135/831

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 24-2-0, Exterior(2R) 24-2-0 to 29-2-0, Interior (1) 29-2-0 to 40-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- All plates are 3x4 MT20 unless otherwise indicated. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 246 lb uplift at joint 12 and 337 lb uplift at joint 24.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

LOAD CASE(S) Standard





Job Truss Truss Type Qtv Ply P210577 G04 Roof Special Job Reference (optiona S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733413 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Non Jun ID:k2JNIDprGdCwsh3mG0obU7z9Yq8-RfC?PsB70Hq3NSgPqnL8w3uITXbG

KWrCDol 7

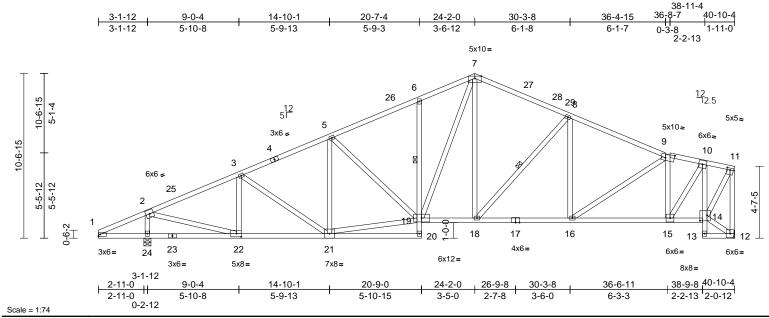


Plate Offsets (X, Y): [9:0-6-12,0-3-0], [11:0-2-8,0-1-8], [14:0-5-8,0-4-4], [22:0-3-8,0-2-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.77 | Vert(LL) | -0.15 | 6-19 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.75 | Vert(CT) | -0.35 | 18-19 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.94 | Horz(CT) | 0.16 | 12 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 254 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 7-9:2x4 SP 1650F

1.5E

BOT CHORD 2x4 SP No.2 *Except* 20-6,10-13:2x4 SPF

No.3

WEBS 2x4 SPF No.3 *Except* 12-11,22-2,19-21:2x4

SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-7-9 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing. Except:

1 Row at midpt 6-19

WEBS 1 Row at midpt 8-18

12= Mechanical, 24=0-5-8 REACTIONS (size)

Max Horiz 24=209 (LC 20)

Max Uplift 12=-246 (LC 17), 24=-337 (LC 16) Max Grav 12=2238 (LC 2), 24=2647 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-336/280, 2-3=-3106/422,

3-5=-3177/547, 5-6=-3015/592, 6-7=-2972/690, 7-8=-2563/561,

8-9=-2884/532, 9-10=-2084/386 10-11=-1114/232, 11-12=-2185/450

BOT CHORD 1-24=-159/322, 22-24=-250/327,

21-22=-571/2763, 20-21=-12/149,

19-20=0/108, 6-19=-481/212, 18-19=-421/2241, 16-18=-509/2568,

15-16=-440/2043, 14-15=-297/1100,

13-14=-10/32, 10-14=-1750/347, 12-13=-5/48

WEBS 7-19=-330/1244, 9-15=-1498/326, 10-15=-275/1761, 12-14=-145/123,

11-14=-451/2135, 2-24=-2512/657, 5-19=-313/152, 3-22=-654/229,

2-22=-573/3013. 3-21=-17/127. 5-21=-392/169, 19-21=-567/2722,

7-18=-84/561, 8-18=-590/197,

8-16=-218/125, 9-16=-82/628

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 24-2-0, Exterior(2R) 24-2-0 to 29-2-0, Interior (1) 29-2-0 to 40-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 246 lb uplift at
- joint 12 and 337 lb uplift at joint 24. 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





Job Truss Truss Type Qty Ply P210577 G05 Roof Special 1 Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733414 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Non Jun ID:5qhY2MU_4qFzaHLXYnoklwz9YpG-RfC?PsB70Hq3NSgPqnL8w3ulTXbG

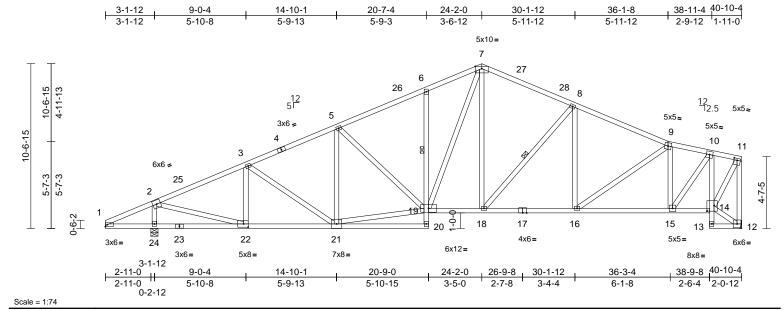


Plate Offsets (X, Y): [11:0-2-8,0-1-8], [14:0-5-8,0-4-4], [22:0-3-8,0-2-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.89 | Vert(LL) | -0.15 | 6-19 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.75 | Vert(CT) | -0.35 | 18-19 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.95 | Horz(CT) | 0.16 | 12 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 255 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No 2

BOT CHORD 2x4 SP No.2 *Except* 20-6,10-13:2x4 SPF

No.3

WEBS 2x4 SPF No.3 *Except* 12-11,22-2,19-21:2x4

SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing. Except:

1 Row at midpt 6-19

WEBS 1 Row at midpt 8-18

REACTIONS (size) 12= Mechanical, 24=0-5-8

Max Horiz 24=209 (LC 16)

Max Uplift 12=-246 (LC 17), 24=-337 (LC 16) Max Grav 12=2238 (LC 2), 24=2647 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-336/280, 2-3=-3106/422,

3-5=-3177/546, 5-6=-3016/595, 6-7=-2972/692, 7-8=-2559/564,

8-9=-2871/535, 9-10=-2144/395

10-11=-1115/232, 11-12=-2184/454

1-24=-159/322, 22-24=-250/327, **BOT CHORD**

21-22=-570/2763, 20-21=-12/148,

19-20=0/108, 6-19=-481/212,

18-19=-421/2240, 16-18=-508/2561,

15-16=-459/2123, 14-15=-300/1103,

13-14=-10/33, 10-14=-1764/362, 12-13=-6/49

WEBS 7-19=-330/1245, 9-15=-1369/301,

10-15=-261/1681, 12-14=-147/125,

11-14=-459/2140, 2-24=-2512/657,

5-19=-312/152, 3-22=-654/229, 2-22=-573/3013. 3-21=-17/127.

5-21=-392/169, 19-21=-566/2722,

7-18=-86/564, 8-18=-588/195,

8-16=-192/114. 9-16=-61/539

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 24-2-0, Exterior(2R) 24-2-0 to 29-2-0, Interior (1) 29-2-0 to 40-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 246 lb uplift at joint 12 and 337 lb uplift at joint 24.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023



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 chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733415 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 🗗 ID:hYWwELDzi7caC9iUy0Y4T8z9XqL-RfC?PsB70Hq3NSgPqnL8w3uITXbG

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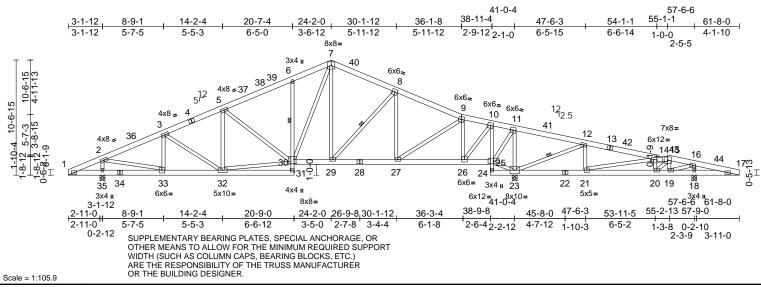


Plate Offsets (X, Y): [30:0-2-4,0-4-12], [31:Edge,0-3-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.60 | Vert(LL) | -0.10 | 6-30 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.79 | Vert(CT) | -0.24 | 6-30 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.83 | Horz(CT) | 0.07 | 23 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 375 lb | FT = 20% |

1-35=-42/300, 33-35=-172/290,

LUMBER

TOP CHORD 2x6 SPF No 2 **BOT CHORD**

2x6 SPF No.2 *Except* 31-6,10-24:2x4 SPF

No.3

WEBS 2x4 SPF No.3 *Except* 26-10,30-32,33-2:2x4

SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-1-11 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 14-15 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing. Except:

1 Row at midpt 6-30

WEBS 1 Row at midpt 12-23, 8-29

REACTIONS (size) 18=0-5-4, 23=0-5-8, (req. 0-6-0),

35=0-5-8

Max Horiz 35=190 (LC 20)

Max Uplift 18=-315 (LC 13), 23=-456 (LC 17),

35=-329 (LC 16) Max Grav 18=1173 (LC 44), 23=3843 (LC 2),

35=2466 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-313/148, 2-3=-2866/408

3-5=-2919/524, 5-6=-2632/547, 6-7=-2573/653, 7-8=-2156/523, 8-9=-2136/465, 9-10=-724/245, 10-11=-8/754, 11-12=-167/1797

12-14=-191/406, 14-15=-588/159 15-16=-514/204, 16-17=-753/794 BOT CHORD

32-33=-418/2533, 31-32=-32/307, 30-31=0/127, 6-30=-599/236, 29-30=-98/1871, 27-29=-150/1881, 26-27=-34/760. 25-26=-735/202. 24-25=-113/13, 10-25=-2209/318,

23-24=-116/18, 21-23=-360/175, 20-21=-83/543. 19-20=-166/552. 18-19=-723/748, 17-18=-723/748

7-30=-324/1225, 9-26=-1850/329, 10-26=-325/2378, 23-25=-1746/310, 14-20=-417/204, 15-20=-260/714, 15-19=-412/217, 11-23=-2228/374

11-25=-210/1693, 12-23=-1585/288, 12-21=0/345, 14-21=-591/77, 16-18=-959/376, 16-19=-185/821 30-32=-324/2331, 2-35=-2260/630,

5-32=-288/130, 5-30=-449/171, 3-32=-24/136, 3-33=-567/214, 2-33=-529/2635, 7-29=-63/290,

8-29=-183/169, 8-27=-663/164,

9-27=-146/1363

NOTES

WERS

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

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 6-2-0, Interior (1) 6-2-0 to 24-2-0, Exterior(2R) 24-2-0 to 30-1-12, Interior (1) 30-1-12 to 61-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this desian
- WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- Provide adequate drainage to prevent water ponding.
- All plates are 4x6 MT20 unless otherwise indicated.





Job Truss Truss Type Qty Ply P210577 G06 Roof Special Job Reference (optiona

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733415 LEE'S SUMMIT, MISSOURI

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

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

- WARNING: Required bearing size at joint(s) 23 greater than input bearing size.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 456 lb uplift at joint 23, 315 lb uplift at joint 18 and 329 lb uplift at joint
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733416 LEE'S SUMMIT. MISSOURI

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

Run; 8.63 S Nov 19 2022 Print; 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:_F4iXoKh2OCXFlkALLCeBYz9Xov-RfC?PsB70Hq3NSgPqnL8w3ulTXbGl

WrCDoi 34292/f

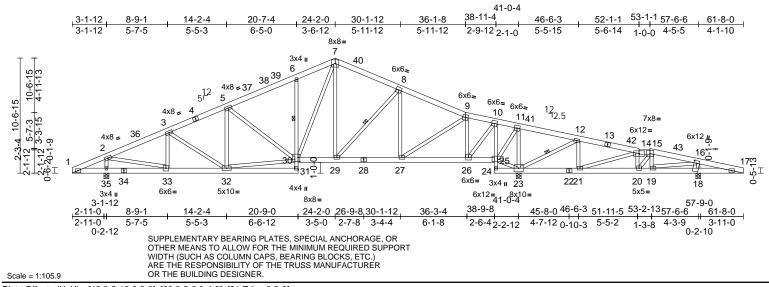


Plate Offsets (X, Y): [16:0-2-12,0-3-0], [30:0-2-0,0-4-8], [31:Edge,0-3-8]

| 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 | 0.55 | Vert(LL) | -0.10 | 6-30 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.82 | Vert(CT) | -0.24 | 6-30 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.81 | Horz(CT) | 0.07 | 23 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 377 lb | FT = 20% |

1-35=-43/300, 33-35=-173/290,

30-31=0/127, 6-30=-599/236,

32-33=-419/2524, 31-32=-32/306,

29-30=-98/1857, 27-29=-141/1856,

26-27=-12/709. 25-26=-792/211.

23-24=-123/22, 21-23=-536/210,

20-21=-81/501, 19-20=-60/374, 18-19=-627/741, 17-18=-627/741

7-30=-324/1226, 9-26=-1861/334

14-20=-90/128, 15-20=-181/252,

15-19=-258/220, 2-35=-2254/628

30-32=-325/2320, 5-32=-285/129,

3-33=-565/213, 2-33=-526/2626,

8-27=-679/169, 9-27=-157/1393

12-23=-1406/256, 12-21=0/397,

14-21=-834/132, 16-18=-965/428,

11-23=-2174/352, 11-25=-217/1731,

5-30=-451/171, 3-32=-23/134,

7-29=-61/277, 8-29=-165/171,

10-26=-330/2389, 23-25=-1824/332,

24-25=-111/18, 10-25=-2269/337,

| LU | MB | ER | |
|----|----|----|--|
| | | | |

2x6 SPF No 2 TOP CHORD

BOT CHORD 2x6 SPF No.2 *Except* 31-6,10-24:2x4 SPF

No.3

WEBS 2x4 SPF No.3 *Except* 26-10,30-32,33-2:2x4

SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-1-14 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 14-15 **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing. Except:

1 Row at midpt 6-30

WEBS 1 Row at midpt 8-29, 12-23

REACTIONS (size) 18=0-5-4, 23=0-5-8, (req. 0-6-1),

35=0-5-8

Max Horiz 35=190 (LC 16)

Max Uplift 18=-312 (LC 13), 23=-459 (LC 17), 35=-329 (LC 16)

Max Grav 18=1164 (LC 44), 23=3864 (LC 2),

35=2460 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-313/149, 2-3=-2856/403

3-5=-2906/518, 5-6=-2616/540, 6-7=-2558/646, 7-8=-2140/516, 8-9=-2108/453, 9-10=-673/222,

10-11=-20/821, 11-12=-185/1867 12-14=-106/614, 14-15=-509/164 15-16=-412/122, 16-17=-747/699 **NOTES**

WERS

BOT CHORD

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

16-19=-355/962

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 6-2-0, Interior (1) 6-2-0 to 24-2-0. Exterior(2R) 24-2-0 to 30-1-12, Interior (1) 30-1-12 to 61-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this desian
- WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- Provide adequate drainage to prevent water ponding.
- All plates are 4x6 MT20 unless otherwise indicated.



June 6,2023

Continued on page 2

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

Design Valid to its 90 mly with win New Commercials. This design is based only upon parameters shown, and is 10 at an individual outlining 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply P210577 G07 Roof Special Job Reference (optiona

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733416 LEE'S SUMMIT, MISSOURI

ID:_F4iXoKh2OCXFlkALLCeBYz9Xov-RfC?PsB70Hq3NSgPqnL8w3ulTXbGl

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

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- WARNING: Required bearing size at joint(s) 23 greater than input bearing size.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 329 lb uplift at joint 35, 459 lb uplift at joint 23 and 312 lb uplift at joint
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

| Job | Truss | Truss Type | Qty | Ply | | |
|---------|-------|--------------|-----|-----|--------------------------|--|
| P210577 | G08 | Roof Special | 1 | 1 | Job Reference (optional) | |

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 15 12 8.832 ID:bIZ7JeXnkogUdVpBedUsiQz9XnM-RfC?PsB70Hq3NSgPqnL8w3uITXbGi WrCDoi 34236.

DEVELOPMENT SERVICES 158733417 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

41-0-4 <u>50-1-1</u> 51-1-1 38-11-4 3-1-12 24-2-0 30-1-12 36-1-8 45-6-3 57-6-6 9-0-10 14-2-4 20-7-4 61-8-0 2-9-12 2-1-0 5-10-14 5-1-10 6-5-0 3-6-12 5-11-12 5-11-12 4-5-15 4-6-14 1-0-03-2-3 3-3-2 8x8: 6 6x6**≈** 10-6-15 39⁴⁰ 4x8 = 38 ₅12 6x6 = 6x6 = 126x6= 9 2-6-12 5-7-3 2-6-122-10-15 4x8 = 41042 11 6x6= 3 12 6x12= 37 4x8 = ଦ୍ର 1314 15 43 6x12 # 2 16 26 30 28 29 25 [™]36 35 6x6= 21 20 19 3x4 II 24 18 5x5= 15 54-3-4 4x4 ı 6x6= 5x10= 5x5= 3x4 II 6x12=__8x10= 41-0-4 49-11-5 3-1-12 57-9-0 38-9-8 47-8-0 51-2-13 20<u>-9-0</u> 24-2-0 26-9-8 30-1-12 3-5-0 2-7-8 3-4-4 9-0-10 45-6-3 57-6-6 61-8-0 2-11-0 2-11-0 36-3-4 14-2-4 2-6-42-2-12 1-3-83-0-7 3-11-0 5-10-14 5-1-10 6-6-12 6-1-8 4-5-15 3-3-2 0-2-10 0-2-12 2-3-5 SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER. Scale = 1:105.9

Plate Offsets (X, Y): [14:0-3-8,0-2-8], [16:0-4-0,0-2-8], [31:0-2-0,0-4-8], [32:Edge,0-3-8]

| 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 | 0.50 | Vert(LL) | -0.10 | 6-31 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.83 | Vert(CT) | -0.24 | 6-31 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.79 | Horz(CT) | 0.07 | 24 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 381 lb | FT = 20% |

LUMBER

2x6 SPF No 2 TOP CHORD

BOT CHORD 2x6 SPF No.2 *Except* 32-6,10-25:2x4 SPF

No.3

WEBS 2x4 SPF No.3 *Except* 27-10,31-33,34-2:2x4

SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-1-5 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 13-14. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing. Except:

6-31 1 Row at midpt

WEBS 1 Row at midpt 8-30

REACTIONS (size) 18=0-5-4, 24=0-5-8, (req. 0-6-1),

36=0-5-8

Max Horiz 36=190 (LC 16)

Max Uplift 18=-313 (LC 13), 24=-458 (LC 17), 36=-329 (LC 16)

Max Grav 18=1176 (LC 44), 24=3858 (LC 2),

36=2461 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-309/125, 2-3=-2894/415,

3-5=-2901/522, 5-6=-2620/542, 6-7=-2563/649, 7-8=-2144/519,

8-9=-2115/458, 9-10=-692/232,

10-11=-18/808, 11-12=-176/1856, 12-13=-105/852, 13-14=-310/202,

14-15=-414/145, 15-16=-374/107,

16-17=-755/742

BOT CHORD 1-36=-17/295, 34-36=-164/284,

33-34=-418/2553, 32-33=-31/306, 31-32=0/129, 6-31=-602/237,

30-31=-97/1860, 28-30=-144/1862,

27-28=-20/722, 26-27=-774/207,

25-26=-113/23, 10-26=-2295/345, 24-25=-124/23, 23-24=-777/220,

21-23=-185/322 20-21=-107/382

19-20=-44/439, 18-19=-671/750,

17-18=-671/750

WEBS 7-31=-324/1228, 9-27=-1854/330

> 10-27=-325/2380, 24-26=-1821/326, 13-21=0/287, 14-21=-253/27, 14-20=0/98,

2-36=-2254/634, 7-30=-62/282,

31-33=-323/2319, 3-33=-16/104,

5-33=-271/123, 5-31=-445/169,

3-34=-534/206, 2-34=-526/2621,

8-30=-171/171, 8-28=-675/167, 9-28=-154/1386, 11-24=-2130/335

11-26=-224/1762, 12-24=-1217/224,

12-23=-1/441, 13-23=-897/150,

16-18=-973/409, 15-20=-228/102,

15-19=-296/210, 16-19=-322/984

NOTES

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

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 6-2-0, Interior (1) 6-2-0 to 24-2-0. Exterior(2R) 24-2-0 to 30-1-12, Interior (1) 30-1-12 to 61-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- Provide adequate drainage to prevent water ponding.
- All plates are 4x6 MT20 unless otherwise indicated.



ontinued on page 2

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 Design Valid to its 90 mly with win New Commercials. This design is based only upon parameters shown, and is 10 at an individual outlining 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Ply Job Truss Truss Type Qty P210577 G08 Roof Special Job Reference (optiona

DEVELOPMENT SERVICES 158733417 LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 15 18 12 4/2 9 2 ID:bIZ7JeXnkogUdVpBedUsiQz9XnM-RfC?PsB70Hq3NSgPqnL8w3ulTXbGi WrCDoi 142 3 2 4 4 2 9 2

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

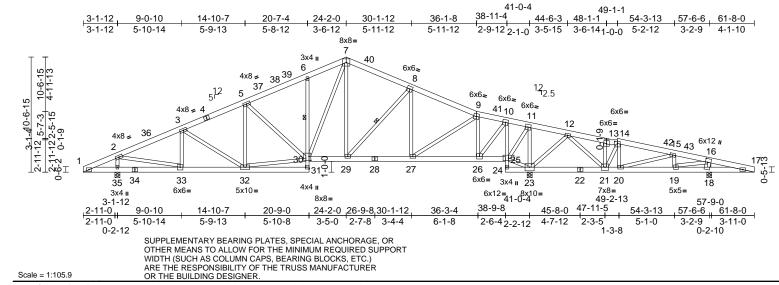
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- WARNING: Required bearing size at joint(s) 24 greater than input bearing size.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 329 lb uplift at joint 36, 458 lb uplift at joint 24 and 313 lb uplift at joint
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733418 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:MBgHqSf6qNOHHoQ3bfegz1z9Xlv-RfC?PsB70Hq3NSgPqnL8w3uITXbG**(**WrCDoi**x429/**f



| Plate Offsets (X, Y): | [14:0-3-0,0-2-4], [16:0-4-0,0-2-8], [3 | 30:0-2-0,0-4-8], [31:Edge,0-3-8] |
|-----------------------|--|----------------------------------|
|-----------------------|--|----------------------------------|

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | -0.10 | 6-30 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.84 | Vert(CT) | -0.24 | 6-30 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.79 | Horz(CT) | 0.07 | 23 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 380 lb | FT = 20% |

| L | U | М | В | E | F | ₹ |
|---|---|---|---|---|---|---|
| | | | | | | |

TOP CHORD 2x6 SPF No 2 **BOT CHORD**

2x6 SPF No.2 *Except* 31-6,10-24:2x4 SPF

No.3

WEBS 2x4 SPF No.3 *Except* 26-10,30-32,33-2:2x4

SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-1-5 oc purlins, except

2-0-0 oc purlins (10-0-0 max.): 13-14. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing. Except:

1 Row at midpt 6-30

WEBS 1 Row at midpt 8-29

REACTIONS (size) 18=0-5-4, 23=0-5-8, (req. 0-6-1),

35=0-5-8

Max Horiz 35=190 (LC 20)

Max Uplift 18=-314 (LC 13), 23=-456 (LC 17),

35=-329 (LC 16)

Max Grav 18=1184 (LC 44), 23=3854 (LC 2),

35=2463 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-311/135, 2-3=-2909/416,

3-5=-2878/522, 5-6=-2607/544, 6-7=-2551/642, 7-8=-2148/518, 8-9=-2121/456, 9-10=-704/228,

10-11=-16/796, 11-12=-183/1846, 12-13=-98/447, 13-14=-105/415,

14-15=-280/263, 15-16=-439/122

16-17=-761/753

BOT CHORD 1-35=-29/297, 33-35=-168/287, 32-33=-421/2570, 31-32=-33/280, 30-31=0/112, 6-30=-539/212,

29-30=-98/1864, 27-29=-143/1868, 26-27=-16/732. 25-26=-758/201.

24-25=-112/7, 10-25=-2314/352, 23-24=-125/20, 21-23=-1009/229,

20-21=-242/228, 19-20=-62/414, 18-19=-684/756, 17-18=-684/756

7-30=-315/1207, 9-26=-1848/331

10-26=-325/2372, 23-25=-1818/342, 13-21=-82/60, 14-21=-659/118,

14-20=-4/193, 2-35=-2256/632, 5-30=-429/166, 5-32=-273/116,

30-32=-309/2314, 3-32=-67/101

3-33=-529/214, 2-33=-531/2651, 7-29=-62/280, 8-29=-174/169,

8-27=-671/168, 9-27=-155/1380, 11-23=-2088/334, 11-25=-243/1787,

15-19=-301/221, 15-20=-285/51,

16-19=-354/1101, 16-18=-982/406

12-23=-1059/229, 12-21=-119/940

NOTES

WERS

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 6-2-0, Interior (1) 6-2-0 to 24-2-0, Exterior(2R) 24-2-0 to 30-1-12, Interior (1) 30-1-12 to 61-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this desian
- WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- Provide adequate drainage to prevent water ponding.
- All plates are 4x6 MT20 unless otherwise indicated.



June 6,2023

ontinued on page 2

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 Design Valid to its 90 mly with win New Commercials. This design is based only upon parameters shown, and is 10 at an individual outlining 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply P210577 G09 Roof Special Job Reference (optiona

DEVELOPMENT SERVICES 158733418 LEE'S SUMMIT, MISSOURI Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 600 842 4/202 ID:MBgHqSf6qNOHHoQ3bfegz1z9XIv-RfC?PsB70Hq3NSgPqnL8w3ulTXbG WrCDolw429 ft

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

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

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- WARNING: Required bearing size at joint(s) 23 greater than input bearing size.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 329 lb uplift at joint 35, 314 lb uplift at joint 18 and 456 lb uplift at joint
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733419 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:NGn_6iUmpGyeRFc8axsdkNz9Xkr-RfC?PsB70Hq3NSgPqnL8w3uITXbGl

(WrCDoi7J4z

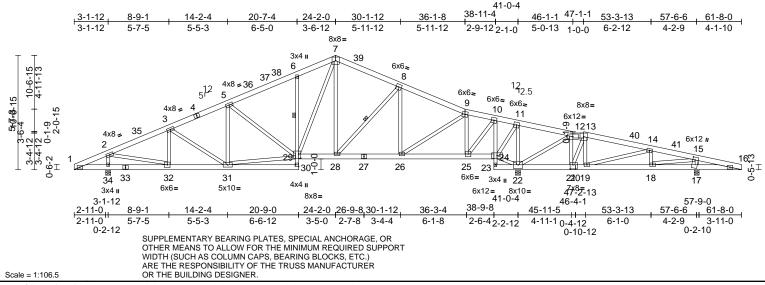


Plate Offsets (X, Y): [15:0-3-0,0-2-8], [20:0-3-0,0-4-8], [29:0-2-4,0-4-12], [30:Edge,0-3-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.56 | Vert(LL) | -0.10 | 6-29 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.80 | Vert(CT) | -0.24 | 6-29 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.82 | Horz(CT) | 0.07 | 22 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 380 lb | FT = 20% |

31-32=-418/2531, 30-31=-32/306,

28-29=-98/1868, 26-28=-137/1876,

23-24=-119/20, 10-24=-2244/335,

22-23=-120/23, 21-22=-678/245.

19-21=-437/218, 18-19=-84/536,

17-18=-649/755, 16-17=-649/755

7-29=-324/1225, 9-25=-1850/338,

12-22=-1209/216, 12-21=-67/768,

29-31=-324/2329, 2-34=-2259/627,

2-32=-525/2633, 11-22=-2213/359,

11-24=-210/1718, 8-28=-179/168,

8-26=-666/172, 9-26=-161/1370,

14-18=-227/214, 14-19=-724/123

15-18=-422/1194, 15-17=-988/423

5-31=-287/128, 5-29=-450/171,

3-31=-23/135, 3-32=-566/213,

10-25=-334/2377, 22-24=-1768/340,

13-21=-912/123, 13-19=0/398, 7-28=-62/287,

29-30=0/127, 6-29=-599/236,

25-26=-5/748. 24-25=-745/212.

BOT CHORD 1-34=-42/300, 32-34=-173/290,

LUMBER TOP CHORD

2x6 SPF No 2 **BOT CHORD**

2x6 SPF No.2 *Except* 30-6,10-23:2x4 SPF

No.3

WEBS 2x4 SPF No.3 *Except* 25-10,29-31,32-2:2x4

SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-1-13 oc purlins, except

2-0-0 oc purlins (10-0-0 max.): 12-13. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing. Except:

1 Row at midpt 6-29

WEBS 1 Row at midpt 8-28

REACTIONS (size) 17=0-5-4, 22=0-5-8, (req. 0-6-1),

34=0-5-8

Max Horiz 34=-190 (LC 21)

Max Uplift 17=-312 (LC 13), 22=-457 (LC 17),

34=-329 (LC 16) Max Grav 17=1191 (LC 44), 22=3847 (LC 2),

34=2465 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-313/148, 2-3=-2864/401

3-5=-2916/516, 5-6=-2628/537, 6-7=-2570/643, 7-8=-2153/513,

8-9=-2130/448, 9-10=-713/212, 10-11=-27/770, 11-12=-193/1823,

12-13=-105/715, 13-14=-113/461,

14-15=-594/149, 15-16=-761/718

NOTES

WERS

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

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 6-2-0. Interior (1) 6-2-0 to 24-2-0, Exterior(2R) 24-2-0 to 30-1-12, Interior (1) 30-1-12 to 61-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip

DOL=1.60 TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0

- Unbalanced snow loads have been considered for this design.
- WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- Provide adequate drainage to prevent water ponding.
- All plates are 4x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- WARNING: Required bearing size at joint(s) 22 greater than input bearing size.





Ply Job Truss Truss Type Qty P210577 G10 Roof Special Job Reference (optiona

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733419 LEE'S SUMMIT, MISSOURI

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

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 457 lb uplift at joint 22, 329 lb uplift at joint 34 and 312 lb uplift at joint . 17.

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

LOAD CASE(S) Standard

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733420 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 🚯 ID:CVFze?NBO0H8JdGMvUBzkzz9Xjh-RfC?PsB70Hq3NSgPqnL8w3ulTXb(KWrCDd+7

41-0-4 45-1-1 38-11-4 3-1-12 14-2-4 20-7-4 24-2-0 30-1-12 36-1-8 44-1-1 52-3-13 57-6-6 61-8-0 8-9-1 5-7-5 5-5-3 6-5-0 3-6-12 5-11-12 5-11-12 2-9-12₂₋₁₋₀ 3-0-13 7-2-12 5-2-9 4-1-10 1-0-0 8x8= 3x4 ı 40 6x6**≈** 38³⁹ 12,5 5¹² 4x8 = 37 6x6 6x6≈ 8x8= 9 6x6≥ 4x8 = 10 6x12= 11 3 1213 36 4x8 = 1542 6x12 # 14 16 III T I 29 27 28 24 <u>≅</u> 35 34 33 32 6x6= 22 21 20 19 3x4 II 23 4x4 II 6x6 =5x10= 5x5 =3x4 II 6x12 = 41-0.48 =43-11-5 41-0 8x8= 3-1-12 24-2-0 26-9-8 30-1-12 3-5-0 2-7-8 3-4-4 38-9-8 47-8-0 57-6-6 57-9-0 2-11-0 52-3-13 8-9-1 20-9-0 36-3-4 14-2-4 2-11-0 2-6-4₂₋₂₋₁₂2-11-1 4-7-13 5-7-5 5-5-3 6-6-12 6-1-8 5-2-9 0-2-10 0-2-12 1-3-8 SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER

Plate Offsets (X, Y): [16:0-2-12,0-3-0], [23:0-2-8,0-4-0], [30:0-2-4,0-4-12], [31:Edge,0-3-8]

OR THE BUILDING DESIGNER.

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.51 | Vert(LL) | -0.10 | 6-30 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.84 | Vert(CT) | -0.24 | 6-30 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.79 | Horz(CT) | 0.07 | 23 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 382 lb | FT = 20% |

LUMBER

Scale = 1:106.5

TOP CHORD 2x6 SPF No 2 **BOT CHORD**

2x6 SPF No.2 *Except* 31-6,10-24:2x4 SPF

No.3

WEBS 2x4 SPF No.3 *Except* 26-10,30-32,33-2:2x4

SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-1-11 oc purlins, except

2-0-0 oc purlins (10-0-0 max.): 12-13. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing. Except:

1 Row at midpt 6-30

WEBS 1 Row at midpt 8-29, 14-21

REACTIONS (size) 18=0-5-4, 23=0-5-8, (req. 0-6-0),

35=0-5-8

Max Horiz 35=-190 (LC 21)

Max Uplift 18=-312 (LC 13), 23=-456 (LC 17),

35=-329 (LC 16) Max Grav 18=1197 (LC 44), 23=3843 (LC 2),

35=2466 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-313/148, 2-3=-2866/399,

3-5=-2919/512, 5-6=-2631/533, 6-7=-2573/639, 7-8=-2156/509, 8-9=-2135/440, 9-10=-730/199, 10-11=-40/762, 11-12=-197/1816,

12-13=-138/1152, 13-14=-138/826, 14-16=-684/167, 16-17=-757/676

BOT CHORD

1-35=-42/300, 33-35=-172/290, 32-33=-419/2533, 31-32=-32/307, 30-31=0/127, 6-30=-599/236, 29-30=-98/1871, 27-29=-133/1881, 26-27=-4/758, 25-26=-725/226, 24-25=-134/31, 10-25=-2316/360,

23-24=-127/28, 22-23=-1110/292, 21-22=-766/254, 19-21=-97/618, 18-19=-606/751, 17-18=-606/751

7-30=-324/1225, 9-26=-1838/339 10-26=-335/2360, 23-25=-1777/356, 12-23=-937/174, 12-22=-147/987,

13-22=-1213/172, 13-21=0/551, 2-35=-2260/626, 5-30=-449/171 5-32=-288/127, 30-32=-325/2331, 3-32=-22/136, 3-33=-567/213,

2-33=-523/2635, 7-29=-63/289 11-23=-2087/315, 11-25=-223/1783, 8-29=-181/169, 8-27=-663/175, 9-27=-166/1365, 16-18=-994/437

14-21=-1160/205, 14-19=-153/208,

16-19=-465/1216

NOTES

WERS

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

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 6-2-0, Interior (1) 6-2-0 to 24-2-0, Exterior(2R) 24-2-0 to 30-1-12, Interior (1) 30-1-12 to 61-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0

- Unbalanced snow loads have been considered for this desian
- WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- Provide adequate drainage to prevent water ponding.
- All plates are 4x6 MT20 unless otherwise indicated.



June 6,2023

Continued on page 2

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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Ply P210577 G11 Roof Special Job Reference (optiona

DEVELOPMENT SERVICES 158733420 LEE'S SUMMIT, MISSOURI Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 60 8 47 2 4/2 9 2 ID:CVFze?NBO0H8JdGMvUBzkzz9Xjh-RfC?PsB70Hq3NSgPqnL8w3uITXb(KWrCDov 342-07)

AS NOTED FOR PLAN REVIEW

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

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

- WARNING: Required bearing size at joint(s) 23 greater than input bearing size.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 456 lb uplift at joint 23, 329 lb uplift at joint 35 and 312 lb uplift at joint
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



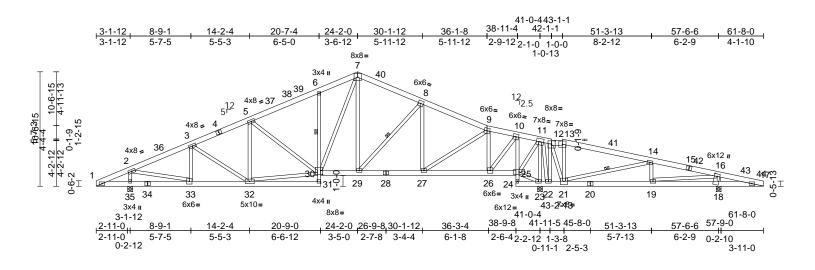
| Job | Truss | Truss Type | Qty | Ply | | |
|---------|-------|--------------|-----|-----|--------------------------|--|
| P210577 | G12 | Roof Special | 1 | 1 | Job Reference (optional) | |

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733421 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

ID:LMA0CWZfJ7dE4hmBf3yyiez9Xi9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK VrCDoi734zJ971



Scale = 1:106.5

Plate Offsets (X, Y): [12:0-4-0,0-3-12], [16:0-2-12,0-3-0], [30:0-2-0,0-4-8], [31:Edge,0-3-8]

| 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 | 0.67 | Vert(LL) | -0.10 | 6-30 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.80 | Vert(CT) | -0.24 | 6-30 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.71 | Horz(CT) | 0.07 | 23 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 390 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2 **BOT CHORD**

2x6 SPF No.2 *Except* 31-6,10-24:2x4 SPF

No.3, 24-20:2x6 SP 2400F 2.0E

WEBS 2x4 SPF No.3 *Except* 26-10,33-2,30-32:2x4

SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-1-13 oc purlins, except

2-0-0 oc purlins (10-0-0 max.): 12-13. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing. Except:

1 Row at midpt 6-30

WEBS 1 Row at midpt 8-29, 14-21

REACTIONS 18=0-5-4, 23=0-5-8, 35=0-5-8 (size)

Max Horiz 35=190 (LC 20)

Max Uplift 18=-310 (LC 13), 23=-456 (LC 17),

35=-329 (LC 16)

18=1185 (LC 44), 23=3852 (LC 2),

35=2463 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-314/148, 2-3=-2862/395,

3-5=-2914/507, 5-6=-2625/527, 6-7=-2567/633, 7-8=-2149/502,

8-9=-2124/429, 9-10=-708/178,

10-11=-57/778, 11-12=-197/1792

12-13=-134/1152, 13-14=-189/1283,

14-16=-753/175, 16-17=-753/630

BOT CHORD

1-35=-43/300, 33-35=-173/290, 32-33=-419/2529, 31-32=-32/306,

30-31=0/127, 6-30=-599/236,

29-30=-99/1865, 27-29=-125/1870,

26-27=-5/737. 25-26=-750/250.

24-25=-360/66, 10-25=-2264/366,

23-24=-176/39, 22-23=-1626/357, 21-22=-1615/360, 19-21=-99/680,

18-19=-559/746, 17-18=-559/746

7-30=-324/1226, 9-26=-1849/346,

10-26=-341/2367, 12-22=-945/126

12-21=-222/1614, 13-21=-808/224,

2-35=-2258/624, 5-30=-450/170,

3-33=-566/212, 2-33=-520/2631,

3-32=-21/135, 5-32=-287/126,

30-32=-325/2327, 7-29=-62/284,

8-29=-175/168, 8-27=-670/180, 9-27=-175/1377, 11-23=-1678/231,

11-22=-329/48, 11-25=-192/1546,

23-25=-1604/352, 16-18=-982/448,

14-21=-1590/290, 14-19=-82/203,

16-19=-486/1148

NOTES

WERS

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 6-2-0, Interior (1) 6-2-0 to 24-2-0, Exterior(2R) 24-2-0 to 30-1-12, Interior (1) 30-1-12 to 61-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this desian
- WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- Provide adequate drainage to prevent water ponding.
- All plates are 4x6 MT20 unless otherwise indicated.



June 6,2023

Continued on page 2

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



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Ply P210577 G12 Roof Special Job Reference (optiona

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733421 LEE'S SUMMIT, MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 28 49 24/29 2 ID:LMA0CWZfJ7dE4hmBf3yyiez9Xi9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK WrCDoi75 2007

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

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 329 lb uplift at joint 35, 456 lb uplift at joint 23 and 310 lb uplift at joint
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or

LOAD CASE(S) Standard

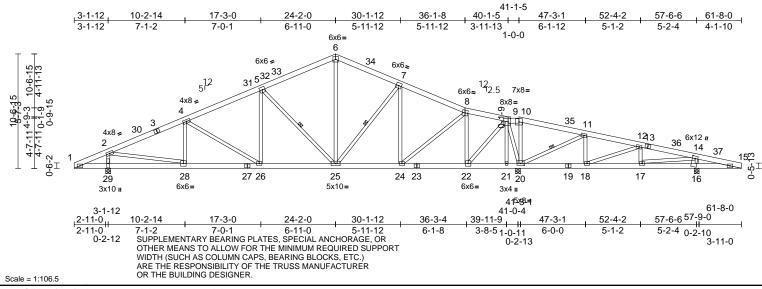
| Job | Truss | Truss Type | Qty | Ply | | |
|---------|-------|--------------|-----|-----|-------------------------|--|
| P210577 | G13 | Roof Special | 1 | 1 | Job Reference (optional | |

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733422 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

ID:Xv50dbYXhWlzluljGWuPLDz9Xfb-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK vrCDoi7342Joh



| Plate Offsets (X, Y) | [9:0-2-8,0-4-0], | [14:0-2-12,0-3-0], | [20:0-4-0,0-2-0] |
|----------------------|------------------|--------------------|------------------|
|----------------------|------------------|--------------------|------------------|

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.52 | Vert(LL) | -0.09 | 26-28 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.55 | Vert(CT) | -0.23 | 26-28 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.98 | Horz(CT) | 0.05 | 20 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 360 lb | FT = 20% |

LUMBER

2x6 SPF No 2 TOP CHORD BOT CHORD 2x6 SPF No.2

WEBS 2x4 SPF No.3 *Except* 22-9,28-2:2x4 SP

No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or

3-11-3 oc purlins, except

2-0-0 oc purlins (10-0-0 max.): 9-10. Rigid ceiling directly applied or 6-0-0 oc

BOT CHORD bracing.

WEBS 1 Row at midpt 11-20, 5-25, 7-25

16=0-5-4, 20=0-5-8, (req. 0-6-1), REACTIONS (size) 29=0-5-8

Max Horiz 29=190 (LC 16)

Max Uplift 16=-301 (LC 13), 20=-467 (LC 17),

29=-329 (LC 16)

16=1132 (LC 64), 20=3846 (LC 2),

29=2481 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-299/56, 2-4=-3072/445, 4-5=-2778/522,

5-6=-2011/490. 6-7=-1988/501. 7-8=-1927/426, 8-9=-728/206,

9-10=-179/1665, 10-11=-220/1784, 11-12=-126/470, 12-14=-601/122,

14-15=-750/650

BOT CHORD 1-29=-8/281, 28-29=-173/270,

26-28=-421/2703, 25-26=-289/2445, 24-25=-117/1686, 22-24=-5/724,

21-22=-1126/272, 20-21=-1119/271, 18-20=-432/235, 17-18=-49/530,

16-17=-578/743, 15-16=-578/743

WEBS

8-22=-1853/348, 9-22=-386/2679,

9-21=-192/25, 9-20=-2094/350, 10-20=-839/174, 11-20=-1487/274

14-16=-945/439, 11-18=0/381,

12-18=-642/106, 12-17=-107/182, 14-17=-413/954, 2-29=-2270/648,

6-25=-162/845, 5-25=-1079/289,

4-28=-406/206, 2-28=-529/2677,

4-26=-352/155, 5-26=0/410, 7-25=-124/222,

7-24=-716/173, 8-24=-151/1267

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 6-2-0, Interior (1) 6-2-0 to 24-2-0, Exterior(2R) 24-2-0 to 30-1-12, Interior (1) 30-1-12 to 61-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- DOL=1.60 TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.

- 5) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- Provide adequate drainage to prevent water ponding.
- All plates are 4x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- WARNING: Required bearing size at joint(s) 20 greater than input bearing size.



Continued on page 2

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

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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



RELEASE FOR CONSTRUCTION Ply Job Truss Truss Type Qty P210577 G13 Roof Special Job Reference (optiona

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733422 LEE'S SUMMIT, MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 5083 424/292 ID:Xv50dbYXhWlzluljGWuPLDz9Xfb-RfC?PsB70Hq3NSgPqnL8w3uITXbGK vrCDoi73 zJG71

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 467 lb uplift at joint 20, 301 lb uplift at joint 16 and 329 lb uplift at joint
- This truss is designed in accordance with the 2018
 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Ply Job Truss Truss Type Qty 3 P210577 **GG01** Half Hip Girder Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733423 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Non Jun ID:NVB7?yTGEMKPKJyG4PFillz9Xd6-RfC?PsB70Hq3NSgPqnL8w3ulTXbG WrCDo

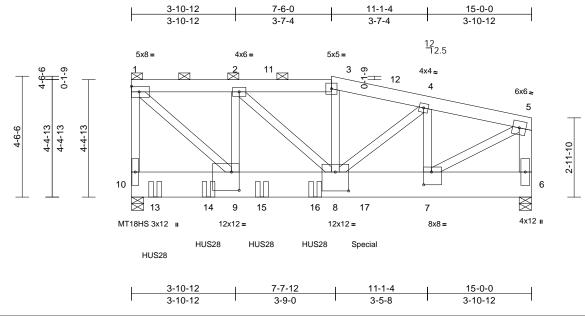


Plate Offsets (X, Y): [7:0-3-8,0-5-12], [8:0-6-0,0-8-8], [9:0-3-8,0-8-4]

| 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 | TC | 0.64 | Vert(LL) | -0.05 | 7-8 | >999 | 240 | MT18HS | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.36 | Vert(CT) | -0.12 | 7-8 | >999 | 180 | MT20 | 197/144 |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.95 | Horz(CT) | 0.01 | 6 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 416 lb | FT = 20% |

LUMBER

Scale = 1:43.2

TOP CHORD 2x6 SPF No 2 BOT CHORD 2x12 SP 2400F 2 0F

WEBS 2x4 SPF No.3 *Except* 6-5:2x6 SPF No.2,

7-5,8-2,9-1:2x4 SP No.2 BRACING

TOP CHORD

Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-3

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

bracing.

REACTIONS (size) 6=0-5-8, 10=0-5-8

Max Horiz 10=-156 (LC 12)

Max Uplift 6=-1809 (LC 13), 10=-1886 (LC 13)

Max Grav 6=8320 (LC 2), 10=11090 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-10=-8417/1763, 1-2=-8330/1719,

2-3=-11968/2678, 3-4=-12281/2729, 4-5=-9735/2278, 5-6=-8015/1913

BOT CHORD 9-10=-140/279, 8-9=-1699/8330,

7-8=-2237/9464, 6-7=-138/407 **WEBS** 5-7=-2482/10706, 3-8=-437/2109,

4-8=-580/3514, 2-8=-1423/5109,

4-7=-2793/600, 2-9=-4048/1245,

1-9=-2361/11602

NOTES

1) N/A

3-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x12 - 6 rows

staggered at 0-4-0 oc Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 3) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 7-6-0, Exterior(2E) 7-6-0 to 14-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1886 lb uplift at joint 10 and 1809 lb uplift at joint 6.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

- 14) Use Simpson Strong-Tie HUS28 (22-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-10-11 from the left end to 6-10-11 to connect truss(es) to front face of bottom chord.
- 15) Fill all nail holes where hanger is in contact with lumber.
- 16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 8781 lb down and 2378 lb up at 8-9-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-3=-88, 3-5=-78, 6-10=-20

Concentrated Loads (lb)

Vert: 13=-1809 (F), 14=-1803 (F), 15=-2030 (F), 16=-1979 (F), 17=-8137 (F)



June 6,2023



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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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



Job Truss Truss Type Qty Ply P210577 H01 Common Girder 2 Job Reference (optiona

DEVELOPMENT SERVICES 158733424 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

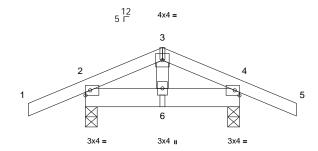
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

10n Jun 65008/42 VrCDoi7542JG Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:DP4A23Tn?jSTok25oHljX0z9Yo?-RfC?PsB70Hq3NSgPqnL8w3uITXbGK

| -1-5-0 | 1-11-0 | 3-10-0 | 5-3-0 |
|--------|--------|--------|-------|
| 1-5-0 | 1-11-0 | 1-11-0 | 1-5-0 |

NAILED





NAILED

| 1-11-0 | 3-10-0 |
|--------|--------|
| 1-11-0 | 1-11-0 |

Scale = 1:28.7

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.33 | Vert(LL) | 0.00 | 6 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.18 | Vert(CT) | 0.00 | 6 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.04 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 19 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SPF No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-10-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

2=0-3-8, 4=0-3-8 REACTIONS (size)

Max Horiz 2=-26 (LC 45)

Max Uplift 2=-78 (LC 12), 4=-78 (LC 13)

Max Grav 2=378 (LC 2), 4=378 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/31, 2-3=-162/27, 3-4=-162/35,

4-5=0/31

2-6=-1/117, 4-6=-1/117 BOT CHORD

WEBS 3-6=0/101

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.: Ce=0.9: Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design

- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 2 and 78 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-3=-78, 3-5=-78, 2-4=-20

Concentrated Loads (lb)

Vert: 3=-2 (F), 6=-18 (F)



June 6,2023



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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Ply Job Truss Truss Type Qty P210577 H₀2 Common 6 1 Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733425 LEE'S SUMMIT. MISSOURI

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

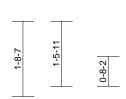
Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:pNSuZfrEiEM40Vv26lp_IYz9YnW-RfC?PsB70Hq3NSgPqnL8w3uITXbGK VrCDoi7342

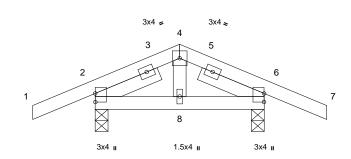
| -1-5-0 | 1-11-0 | 3-10-0 | 5-3-0 |
|--------|--------|--------|-------|
| 1-5-0 | 1-11-0 | 1-11-0 | 1-5-0 |



4x4 =

₅ 12





| 1-11-0 | 3-10-0 |
|--------|--------|
| 1-11-0 | 1-11-0 |

Scale = 1:26.1

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

| 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 | 0.23 | Vert(LL) | 0.00 | 6-8 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(CT) | 0.00 | 6-8 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.04 | Horz(CT) | 0.00 | 6 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 22 lb | FT = 20% |

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-10-0 oc purlins.

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

bracing.

REACTIONS (size) 2=0-3-8, 6=0-3-8

Max Horiz 2=-26 (LC 21)

Max Uplift 2=-67 (LC 12), 6=-67 (LC 13) Max Grav 2=372 (LC 2), 6=372 (LC 2) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/23, 2-4=-208/58, 4-6=-208/67,

6-7=0/23

BOT CHORD 2-8=0/114, 6-8=0/114

WEBS 4-8=0/90

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- 4) Unbalanced snow loads have been considered for this desian.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 2 and 67 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023



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



Job Truss Truss Type Qty Ply Jack-Open P210577 J01 Job Reference (optiona

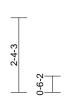
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

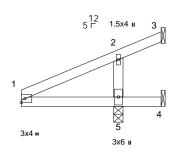
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733426 LEE'S SUMMIT. MISSOURI

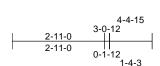
RELEASE FOR CONSTRUCTION

Mon Jun 05) 8:432 VrCDoi7342JG-1 Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:IVEJsGOwYk_0AxPIcHtxt0z9aCT-RfC?PsB70Hq3NSgPqnL8w3uITXbGK

| 1 | 3-0-12 | 4-4-15 |
|---|--------|--------|
| | 3-0-12 | 1-4-3 |







Scale = 1:36.3

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defI | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.67 | Vert(LL) | -0.01 | 4-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.66 | Vert(CT) | 0.01 | 4-5 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.14 | Horz(CT) | -0.12 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 15 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-4-15 oc purlins.

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

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-3-8

Max Horiz 5=88 (LC 16)

Max Uplift 3=-175 (LC 22), 4=-192 (LC 22),

5=-144 (LC 12)

Max Grav 3=18 (LC 12), 4=30 (LC 12), 5=899

(LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-150/112, 2-3=-118/55 TOP CHORD

1-5=-62/154, 4-5=0/0 BOT CHORD

2-5=-564/453

WFBS NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 175 lb uplift at joint 3, 192 lb uplift at joint 4 and 144 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 6,2023



Job Truss Truss Type Qty Ply P210577 J02 Jack-Partial 2 Job Reference (optiona

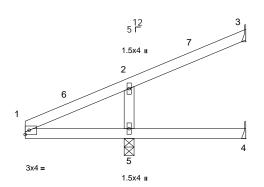
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733427 LEE'S SUMMIT. MISSOURI

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

ID:s?WDaiY4UkcAExvotWc?vlz9aCG-RfC?PsB70Hq3NSgPqnL8w3uITXbGr WrCDoi7s423e7









| 2-11-0 | 3-0-12 | 6-6-0 | |
|--------|------------|-------|--|
| 2-11-0 | 0-1-12 | 3-5-4 | |

Scale = 1:33.9

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.69 | Vert(LL) | -0.03 | 4-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.61 | Vert(CT) | 0.03 | 4-5 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.12 | Horz(CT) | -0.16 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 22 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-3-8 Max Horiz 5=126 (LC 16)

Max Uplift 3=-63 (LC 16), 4=-37 (LC 2), 5=-99

(LC 12)

Max Grav 3=89 (LC 22), 4=20 (LC 12), 5=737

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-210/127, 2-3=-103/28 TOP CHORD

1-5=-83/208, 4-5=0/0 BOT CHORD WFBS 2-5=-523/387

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 6-5-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 3, 37 lb uplift at joint 4 and 99 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 6,2023

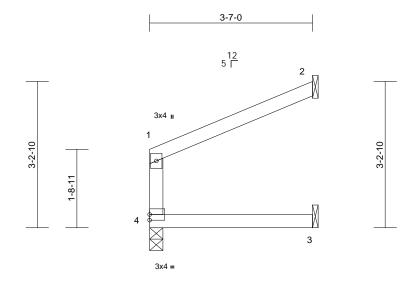


Ply Qty Job Truss Truss Type P210577 J03 Jack-Open Job Reference (optiona

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

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733428 LEE'S SUMMIT. MISSOURI

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 KWrCDon J4230?f ID:DzJ6eQcDJGFSKinmg3CAbpz9aCB-RfC?PsB70Hq3NSgPqnL8w3uITXb



| Scale = 1: | 25.3 |
|------------|------|
|------------|------|

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.36 | Vert(LL) | 0.02 | 3-4 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.27 | Vert(CT) | -0.02 | 3-4 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.05 | 2 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-R | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 13 lb | FT = 20% |

3-7-0

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-7-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2= Mechanical, 3= Mechanical,

4=0-3-8 Max Horiz 4=75 (LC 13)

Max Uplift 2=-71 (LC 16)

Max Grav 2=159 (LC 2), 3=69 (LC 7), 4=202

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-4=-179/78, 1-2=-78/52

BOT CHORD 3-4=0/0

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- This truss has been designed for a 10.0 psf bottom 4) chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023



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



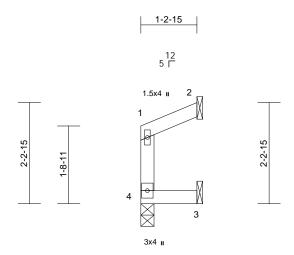
Ply Job Truss Truss Type Qty Jack-Open P210577 J04 Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733429 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:27gNuThzv6?c2dFw0KJar4z9aC5-RfC?PsB70Hq3NSgPqnL8w3uITXbGh



Scale = 1:25.6

| 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) | 0.00 | 3-4 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.09 | Vert(CT) | 0.00 | 3-4 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.01 | 2 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-R | | | | | | | | |
| BCDL | 10.0 | ļ | | | | | | | | | Weight: 5 lb | FT = 20% |

1-2-15

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

1-2-15 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2= Mechanical, 3= Mechanical, 4=0-3-8

Max Horiz 4=47 (LC 13)

Max Uplift 2=-29 (LC 13), 3=-18 (LC 13) Max Grav 2=53 (LC 2), 3=24 (LC 14), 4=68

(LC 30)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-4=-56/17, 1-2=-36/25

BOT CHORD 3-4=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this 3) desian.
- This truss has been designed for a 10.0 psf bottom 4) chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 3 and 29 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023



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



Ply Job Truss Truss Type Qty Jack-Open P210577 J05 Job Reference (optiona

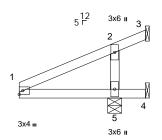
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

DEVELOPMENT SERVICES 158733430 LEE'S SUMMIT. MISSOURI

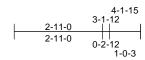
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW











Scale = 1:38

| 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) | 0.00 | 4-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.69 | Vert(CT) | 0.00 | 4-5 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.17 | Horz(CT) | -0.12 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 15 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-1-15 oc purlins.

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

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-5-8 Max Horiz 5=84 (LC 16)

Max Uplift 3=-292 (LC 22), 4=-281 (LC 22),

5=-178 (LC 12)

Max Grav 3=40 (LC 12), 4=43 (LC 12),

5=1071 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-141/114, 2-3=-150/94

BOT CHORD 1-5=-59/146, 4-5=0/0 WFBS 2-5=-652/536

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 292 lb uplift at joint 3, 281 lb uplift at joint 4 and 178 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





Ply Job Truss Truss Type Qty Jack-Open P210577 J06 Job Reference (optiona

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

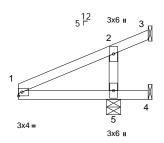
LEE'S SUMMIT. MISSOURI ID:6?422bsOMjuTLxuoOz45yEz9aBs-RfC?PsB70Hq3NSgPqnL8w3ulTXbGrWrCDoi7s4z3o?

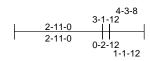
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 158733431

| I . | 3-1-12 | 4-3-8 |
|-----|--------|--------|
| | 3-1-12 | 1-1-12 |







Scale = 1:38.1

| 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) | 0.00 | 4-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.70 | Vert(CT) | 0.00 | 4-5 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.16 | Horz(CT) | -0.13 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 15 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-3-8 oc purlins.

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

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-5-8 Max Horiz 5=86 (LC 16)

3=-245 (LC 22), 4=-245 (LC 22), Max Uplift

5=-165 (LC 12)

3=31 (LC 12), 4=38 (LC 12), Max Grav

5=1006 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-146/115, 2-3=-137/78

1-5=-60/150, 4-5=0/0 BOT CHORD

2-5=-620/504

WFBS NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 245 lb uplift at joint 3, 245 lb uplift at joint 4 and 165 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 6,2023

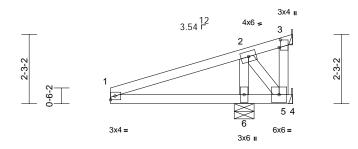


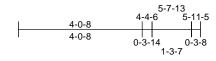
Ply Job Truss Truss Type Qty Jack-Open P210577 J07 Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733432 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:tYZ4jKzPUAvLJ9VKsfDzHwz9aBk-RfC?PsB70Hq3NSgPqnL8w3uITXbGł







Scale = 1:37.6

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

| 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 | 0.59 | Vert(LL) | 0.00 | 5-6 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.56 | Vert(CT) | 0.00 | 5-6 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.55 | Horz(CT) | 0.01 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 23 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-6-9 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 5= Mechanical,

6=0-7-12

Max Horiz 6=82 (LC 12)

Max Uplift 3=-99 (LC 2), 5=-704 (LC 2), 6=-428 (LC 12)

3=36 (LC 12), 5=194 (LC 12), Max Grav

6=1487 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1010/695, 2-3=-64/29

BOT CHORD 1-6=-575/1005, 5-6=-575/828, 4-5=0/0 **WEBS** 2-6=-1361/1724, 3-5=0/0, 2-5=-1269/882

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 428 lb uplift at joint 6, 99 lb uplift at joint 3 and 704 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



June 6,2023



Job Truss Truss Type Qty Ply P210577 J08 Jack-Open Structural Gable 2 Job Reference (optiona

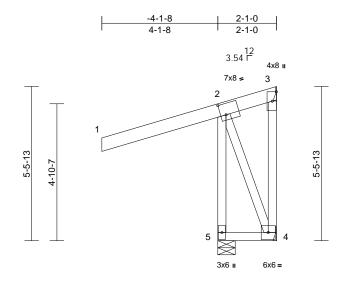
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 15 19 845 ID:laL07WDaXdYMKOcNbZ5udMz9aBP-RfC?PsB70Hq3NSgPqnL8w3ulTXt GKWrCDor/J-2/C7

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 158733433

LEE'S SUMMIT. MISSOURI



Scale = 1:41

Plate Offsets (X, Y): [2:0-2-4,0-4-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.91 | Vert(LL) | 0.00 | 4-5 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(CT) | 0.00 | 4-5 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.28 | Horz(CT) | -0.03 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 32 lb | FT = 20% |

2-1-0

LUMBER

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

WEBS 2x4 SPF No.3 *Except* 5-2:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-1-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 9-4-14 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-7-6

Max Horiz 5=238 (LC 13)

Max Uplift 3=-491 (LC 22), 4=-346 (LC 13),

5=-495 (LC 12)

Max Grav 3=246 (LC 12), 4=98 (LC 14),

5=1049 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/127, 2-3=-223/278, 3-4=0/0,

2-5=-1136/1165

BOT CHORD 4-5=-399/241

WEBS 2-4=-435/887

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 491 lb uplift at joint 3, 346 lb uplift at joint 4 and 495 lb uplift at joint 5.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard



June 6,2023





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



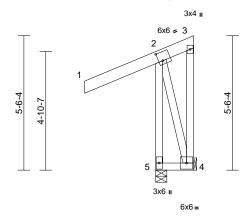
| Job | Truss | Truss Type | Qty | Ply | | |
|---------|-------|-------------|-----|-----|--------------------------|--|
| P210577 | J09 | Jack-Closed | 3 | 1 | Job Reference (optional) | |

DEVELOPMENT SERVICES 158733434 LEE'S SUMMIT, MISSOURI Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Non Jun 658424/292 ID:a0EiyNV?7hR5bwsoRu0H3Cz9aB2-RfC?PsB70Hq3NSgPqnL8w3uITXbG WrCDorw42x2 NrCDorw42x2 NrCDorw4

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

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

1-6-12 1-6-12 -2-11-0 2-11-0 512



1-6-12

Scale = 1:47.4

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

| Loading | (psf) | Spacing | 2-0-0 | csı | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.50 | Vert(LL) | 0.00 | 4-5 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.04 | Vert(CT) | 0.00 | 4-5 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.31 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 27 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2 BOT CHORD 2x4 SP No.2 **WEBS** 2x4 SPF No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-6-12 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=239 (LC 13)

Max Uplift 4=-585 (LC 31), 5=-368 (LC 12) Max Grav 4=255 (LC 12), 5=922 (LC 31)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-5=-1073/738, 1-2=0/124, 2-3=-228/232, TOP CHORD

3-4=-332/357 BOT CHORD 4-5=-338/241 WEBS 2-4=-593/985

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 368 lb uplift at joint 5 and 585 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard









Ply Job Truss Truss Type Qty Jack-Open P210577 J10 Job Reference (optiona

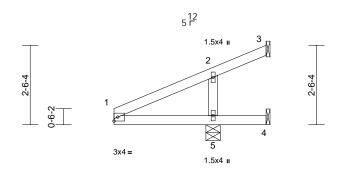
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

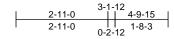
LEE'S SUMMIT. MISSOURI 8/4<u>2</u> Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:EJyFTUeXINyO1mn58QE5Ykz9aAs-RfC?PsB70Hq3NSgPqnL8w3uITXbC KWrCDDH3 ID:EJyFTUeXINyO1mn58QE5Ykz9aAs-RfC?PsB70Hq3NSgPqnL8w3uITXb0

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 158733435







Scale = 1:36.6

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.72 | Vert(LL) | -0.01 | 4-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.70 | Vert(CT) | 0.01 | 4-5 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.14 | Horz(CT) | -0.15 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | 1 | | | | | | | | | Weight: 17 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-9-15 oc purlins.

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

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-5-8

Max Horiz 5=96 (LC 16)

3=-120 (LC 22), 4=-157 (LC 22), Max Uplift

5=-134 (LC 12)

3=7 (LC 12), 4=27 (LC 12), 5=865 Max Grav

(LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-163/116, 2-3=-111/37 TOP CHORD

1-5=-67/167, 4-5=0/0 BOT CHORD WFBS 2-5=-555/437

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 120 lb uplift at joint 3, 157 lb uplift at joint 4 and 134 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023



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 chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Ply Job Truss Truss Type Qty P210577 J11 Jack-Partial 15 Job Reference (optiona

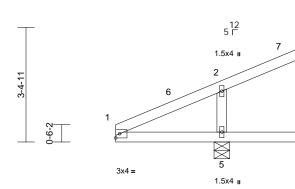
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733436 LEE'S SUMMIT. MISSOURI

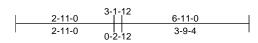
RELEASE FOR CONSTRUCTION

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

ID:q0oXPGpJ?hjPiwsnzMUN6hz9aAe-RfC?PsB70Hq3NSgPqnL8w3uITXbGitWrCDoi1942367







Scale = 1:34.2

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.74 | Vert(LL) | -0.04 | 4-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.64 | Vert(CT) | 0.04 | 4-5 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.13 | Horz(CT) | -0.17 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | ļ | | | | | | | | | Weight: 23 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-5-8

Max Horiz 5=134 (LC 16)

Max Uplift 3=-69 (LC 16), 4=-30 (LC 2),

5=-100 (LC 12)

Max Grav 3=111 (LC 22), 4=20 (LC 12),

5=760 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-220/132, 2-3=-110/32

1-5=-85/216, 4-5=0/0 **BOT CHORD** WFBS

2-5=-546/394

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 6-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 3, 30 lb uplift at joint 4 and 100 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 6,2023



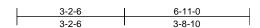
Ply Qty Job Truss Truss Type P210577 J12 Jack-Partial Job Reference (optiona

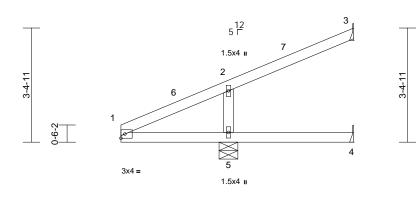
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733437 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

ID:XxPJWhxael_vSdjYSfkWoz9aAU-RfC?PsB70Hq3NSgPqnL8w3uITXbGrWrCDoi754239





| 2-11-0 | 3-2· | -6 6-11-0 |
|--------|----------|----------------|
| 2-11-0 |)-3. | 3-8-10 |

Scale = 1:34.2

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.76 | Vert(LL) | -0.04 | 4-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.66 | Vert(CT) | 0.04 | 4-5 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.13 | Horz(CT) | -0.18 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 23 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-6-11

Max Horiz 5=134 (LC 16) Max Uplift 3=-68 (LC 16), 4=-34 (LC 2),

5=-103 (LC 12)

Max Grav 3=105 (LC 22), 4=21 (LC 12),

5=770 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-219/132, 2-3=-110/31

1-5=-85/216, 4-5=0/0 **BOT CHORD**

WFBS 2-5=-551/398

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 6-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 3, 34 lb uplift at joint 4 and 103 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 6,2023



Ply Job Truss Truss Type Qty P210577 J13 Jack-Partial

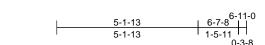
3x4 =

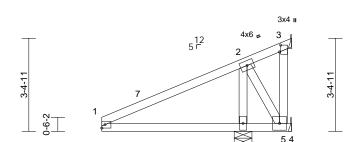
Job Reference (optiona Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 🚯

ID:bqp_fp6?6MtsCmGbx6QFdyz9aAF-RfC?PsB70Hq3NSgPqnL8w3uITXbGl

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733438 LEE'S SUMMIT. MISSOURI 10n Jun 05) 8:42 WrCDoi 34236 ff

RELEASE FOR CONSTRUCTION







6

3x6 II

6x6 =

Scale = 1:42

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

| 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 | 0.75 | Vert(LL) | -0.01 | 5-6 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.44 | Vert(CT) | 0.00 | 5-6 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.43 | Horz(CT) | -0.03 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 30 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

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

bracing.

REACTIONS (size) 3= Mechanical, 5= Mechanical,

6=0-7-12

Max Horiz 6=129 (LC 16)

Max Uplift 3=-116 (LC 2), 5=-868 (LC 2),

6=-311 (LC 12)

3=45 (LC 16), 5=128 (LC 12), Max Grav

6=1785 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-643/704, 2-3=-102/40 **BOT CHORD** 1-6=-522/643, 5-6=-522/446, 4-5=0/0

WEBS 2-6=-1647/1322, 3-5=0/0, 2-5=-840/983

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-1-13, Interior (1) 5-1-13 to 6-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 311 lb uplift at joint 6, 116 lb uplift at joint 3 and 868 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



June 6,2023



Ply Job Truss Truss Type Qty P210577 J14 Jack-Open 2 Job Reference (optiona

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

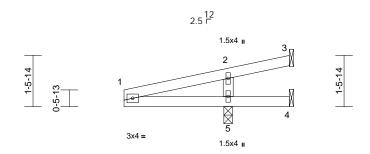
non Jun 6568/42 Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:fiDfpxIPazmkV3vUJICmk7z9aA0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV

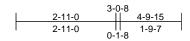
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 158733439

LEE'S SUMMIT. MISSOURI







Scale = 1:33.7

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.67 | Vert(LL) | -0.01 | 4-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.63 | Vert(CT) | -0.01 | 4-5 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.18 | Horz(CT) | 0.08 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 15 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-9-15 oc purlins.

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

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-3-0

Max Horiz 5=52 (LC 12) Max Uplift 3=-93 (LC 2), 4=-126 (LC 2),

5=-231 (LC 12)

3=24 (LC 12), 4=50 (LC 12), 5=790 Max Grav

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-115/66, 2-3=-54/30 1-5=-36/115, 4-5=0/0 BOT CHORD

WFBS 2-5=-518/572

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 3, 126 lb uplift at joint 4 and 231 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 6,2023





Job Truss Truss Type Qty Ply P210577 J15 Jack-Partial Job Reference (optiona

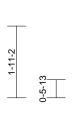
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733440 LEE'S SUMMIT. MISSOURI

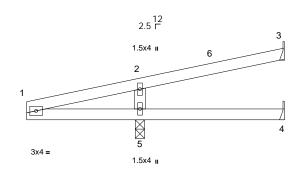
RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Von Jun 50 1845 ID:uRG3i0P2SkuS4S5CL8stb0z9a9t-RfC?PsB70Hq3NSgPqnL8w3uITXbGK VrCDoi742J-ri

| 3-0-8 | 6-11-0 |
|-------|--------|
| 3-0-8 | 3-10-8 |







| 3- | 0-8 |
|--------|--------|
| 2-11-0 | 6-11-0 |
| 2-11-0 | 3-10-8 |

Scale = 1:30.9

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defI | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.71 | Vert(LL) | -0.06 | 4-5 | >816 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.59 | Vert(CT) | -0.05 | 4-5 | >889 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.16 | Horz(CT) | 0.10 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 22 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-3-0 Max Horiz 5=71 (LC 12)

Max Uplift 3=-49 (LC 16), 4=-20 (LC 2),

5=-194 (LC 12)

3=103 (LC 2), 4=34 (LC 12), 5=739 Max Grav

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-142/73, 2-3=-57/16 1-5=-45/138, 4-5=0/0 BOT CHORD WFBS

2-5=-541/512

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 6-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 3, 20 lb uplift at joint 4 and 194 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 6,2023



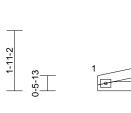
Job Truss Truss Type Qty Ply P210577 J16 Jack-Partial Job Reference (optiona

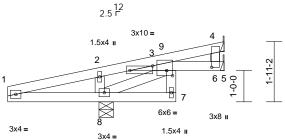
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733441 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:yKgkr9aSwLnKOll5jodOiBz9a9e-RfC?PsB70Hq3NSgPqnL8w3uITXbGKW







| | 2-1 | 1-4 | 6- | 11-0 |
|-----|--------|--------------|-------|----------|
| - [| 2-11-0 | 5-4-8 | 6-7-8 | Ш |
| | 2-11-0 | 2-5-4)-4 | 1-3-0 | -3-8 |

Scale = 1:36.8

Plate Offsets (X, Y): [3:0-2-4,0-2-0], [3:0-5-6,0-1-12], [6:0-1-4,2-7-6]

| 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 | 0.42 | Vert(LL) | -0.07 | 7 | >666 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.26 | Vert(CT) | -0.06 | 7 | >693 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.25 | Horz(CT) | 0.04 | 6 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 27 lb | FT = 20% |

LUMBER

2x4 SP No.2 TOP CHORD

BOT CHORD 2x4 SP No.2 *Except* 7-3:2x4 SPF No.3

WEBS 2x4 SPF No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 4= Mechanical, 6= Mechanical,

8=0-5-8

Max Horiz 8=69 (LC 16)

Max Uplift 4=-36 (LC 16), 8=-185 (LC 12)

Max Grav 4=67 (LC 2), 6=53 (LC 7), 8=720

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-760/534, 2-3=-712/493, 3-4=-29/16 TOP CHORD 1-8=-469/760, 7-8=-29/0, 3-7=0/61, 3-6=-2/2,

BOT CHORD 5-6=0/0

2-8=-312/143, 4-6=0/0, 3-8=-568/794

WEBS NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 6-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 185 lb uplift at joint 8 and 36 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard



June 6,2023





Ply Job Truss Truss Type Qty Jack-Open P210577 J17 Job Reference (optiona

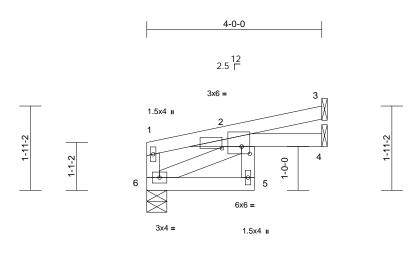
4-0-0

1-6-8

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733442 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:qez5q82lz0axxbfOxnJIFCz9a92-RfC?PsB70Hq3NSgPqnL8w3uITXbGKW



Scale = 1:26.3

| Plate Offsets (X, Y): | [2:0-2-4,0-2-0], | [2:0-5-6,0-0-8] |
|-----------------------|------------------|-----------------|
|-----------------------|------------------|-----------------|

| 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 | 0.51 | Vert(LL) | 0.07 | 5 | >658 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(CT) | -0.10 | 5 | >438 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.02 | Horz(CT) | 0.06 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 18 lb | FT = 20% |

2-5-8 2-5-8

LUMBER

2x4 SP No.2 TOP CHORD

2x4 SP No.2 *Except* 5-2:2x4 SPF No.3 BOT CHORD

WEBS 2x4 SPF No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals. **BOT CHORD**

Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

6=0-5-8

Max Horiz 6=41 (LC 13)

Max Uplift 3=-57 (LC 16), 6=-24 (LC 12) Max Grav 3=211 (LC 2), 4=45 (LC 7), 6=234

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-6=-221/169, 1-2=-57/56, 2-3=-40/38

BOT CHORD 5-6=-23/0, 2-5=0/49, 2-4=-2/2

WEBS 2-6=-103/66

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 6 and 57 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023





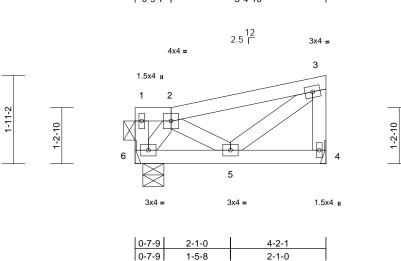
Ply Job Truss Truss Type Qty P210577 J18 Roof Special Job Reference (optiona

DEVELOPMENT SERVICES 158733443 LEE'S SUMMIT. MISSOURI Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:4M?ViD9xsnifXzr7zAzP65z9a8v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKW CDoi7J

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

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

| 0-9-7 | 4-2-1 |
|-------|--------|
| 0-9-7 | 3-4-10 |



Scale = 1:25.2

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.32 | Vert(LL) | 0.00 | 5 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(CT) | 0.00 | 5-6 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.05 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 20 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-2-1 oc purlins, except end verticals, and

2-0-0 oc purlins: 1-2.

Rigid ceiling directly applied or 10-0-0 oc **BOT CHORD**

bracing.

REACTIONS (size) 4= Mechanical, 6= Mechanical

Max Horiz 6=68 (LC 13)

Max Uplift 4=-39 (LC 16), 6=-38 (LC 12) Max Grav 4=233 (LC 37), 6=233 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-6=-32/27, 1-2=-19/21, 2-3=-115/25,

3-4=-216/184

BOT CHORD 5-6=-187/181, 4-5=-33/36

WEBS 2-6=-223/116, 2-5=-68/134, 3-5=-72/130

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 0-9-7, Interior (1) 0-9-7 to 4-0-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 6 and 39 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 6,2023





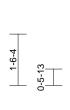
Job Truss Truss Type Qtv Ply P210577 J19 Diagonal Hip Girder Job Reference (optiona

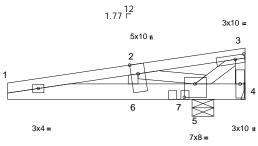
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733444 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:Yq5JUNNEdJz6hlDa0yleruz9a8d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKVrCDoi7J2JG7







TJC37



| | | - 0 | 7-0-10 | |
|--------|--------|------|--------|---|
| | | 5-9- | 10 | |
| 3-8-11 | 5-5-11 | | | 1 |
| 3-8-11 | 1-9-0 | | 1-3-0 | 1 |
| | | 0-3- | 14 | |

Scale = 1:34.2

Plate Offsets (X, Y): [3:0-3-5,0-1-8], [5:0-3-12,0-4-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.87 | Vert(LL) | 0.00 | 4-5 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.55 | Vert(CT) | 0.00 | 4-5 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.58 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 29 lb | FT = 20% |

LUMBER

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

WEBS 2x4 SPF No.3 *Except* 5-3:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-6-2 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

4= Mechanical, 5=0-7-12 REACTIONS (size)

Max Horiz 5=49 (LC 13)

Max Uplift 4=-1379 (LC 2), 5=-744 (LC 12)

Max Grav 4=455 (LC 12), 5=2441 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=-1387/923, 2-3=-2522/1747, TOP CHORD

3-4=-1659/1084

BOT CHORD 1-6=-869/1385, 5-6=-869/1385, 4-5=-23/25

WEBS 2-6=-185/90, 2-5=-902/1274, 3-5=-2239/3265

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1379 lb uplift at joint 4 and 744 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- Use Simpson Strong-Tie TJC37 (4 nail, 30-90) or equivalent at 5-1-0 from the left end to connect truss(es) to back face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
- 10) Fill all nail holes where hanger is in contact with lumber.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-3=-78, 1-4=-20

Concentrated Loads (lb)

Vert: 7=-213 (B)



June 6,2023



Job Truss Truss Type Qty Ply Jack-Open P210577 J20 Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733445 LEE'S SUMMIT. MISSOURI

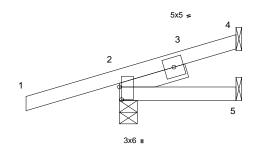
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 15) 28,500 ID:YN89d?nZcmFHmzp605vcD3z9a85-RfC?PsB70Hq3NSgPqnL8w3uITXbCKWrCDon 4200;f4



3.54 T







2-5-15

Scale = 1:24.7

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

| 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 | 0.48 | Vert(LL) | 0.00 | 2-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.07 | Vert(CT) | 0.00 | 2-5 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 13 lb | FT = 20% |

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 1-5-13

BRACING

Structural wood sheathing directly applied or TOP CHORD

2-5-15 oc purlins.

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

bracing.

REACTIONS (size) 2=0-4-9, 4= Mechanical, 5=

Mechanical Max Horiz 2=60 (LC 12)

Max Uplift 2=-144 (LC 12), 4=-28 (LC 16)

Max Grav 2=429 (LC 2), 4=39 (LC 2), 5=49

(LC 7)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/22, 2-4=-102/20 TOP CHORD

BOT CHORD 2-5=0/0

NOTES

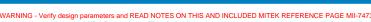
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.: Ce=0.9: Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live 4) load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 4 and 144 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023





Job Truss Truss Type Qty Ply P210577 J21 Jack-Open 2 1 Job Reference (optiona

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:rG7fE0HHyMQTBGS?wC8DNiz9a7S-RfC?PsB70Hq3NSgPqnL8w3ulTXb3KWrCD

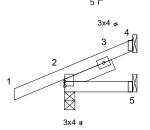
DEVELOPMENT SERVICES 158733446 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

1-11-0 1-5-0 1-11-0

NAILED NAILED





NAILED

NAILED

1-11-0

Scale = 1:32.4

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

| 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 | 0.23 | Vert(LL) | 0.00 | 2-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.04 | Vert(CT) | 0.00 | 2-5 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 11 lb | FT = 20% |

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 1-5-7

BRACING

TOP CHORD Structural wood sheathing directly applied or

1-11-0 oc purlins.

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

bracing.

REACTIONS (size) 2=0-3-8, 4= Mechanical, 5=

Mechanical Max Horiz 2=59 (LC 16)

Max Uplift 2=-62 (LC 12), 4=-47 (LC 17)

Max Grav 2=309 (LC 2), 4=51 (LC 24), 5=77

(LC 7)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/23, 2-4=-86/25

BOT CHORD 2-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.: Ce=0.9: Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 2 and 47 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate
 - Increase=1.15 Uniform Loads (lb/ft) Vert: 1-4=-78, 2-5=-20 Concentrated Loads (lb)
 - Vert: 5=-19 (F=-10, B=-10)



June 6,2023



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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

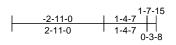
Job Truss Truss Type Qty Ply P210577 J22 Jack-Open 8 1 Job Reference (optiona

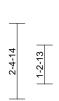
DEVELOPMENT SERVICES 158733447 LEE'S SUMMIT. MISSOURI

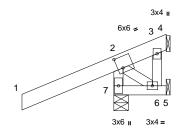
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

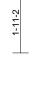
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 650 2836 D:8c2liQMgJWITWLULqAmsABz9a7L-RfC?PsB70Hq3NSgPqnL8w3ulTXbC KWrCDoWJ42907f









5 T2

Scale = 1:36.6

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

| 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 | TC | 0.45 | Vert(LL) | 0.00 | 6 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.01 | Vert(CT) | 0.00 | 6-7 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.05 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 15 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2 BOT CHORD 2x4 SP No.2 **WEBS** 2x4 SPF No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-7-15 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 5= Mechanical,

7=0-5-8

Max Horiz 7=67 (LC 15)

3=-337 (LC 22), 5=-13 (LC 12), Max Uplift

7=-218 (LC 12)

3=117 (LC 12), 5=-1 (LC 4), 7=780 Max Grav

(LC 23)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-7=-768/513, 1-2=0/124, 2-3=-174/115,

3-4=-12/0

BOT CHORD 6-7=-130/31, 5-6=0/0 3-6=-54/39, 2-6=-39/161

WEBS

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 218 lb uplift at joint 7, 13 lb uplift at joint 5 and 337 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



June 6,2023



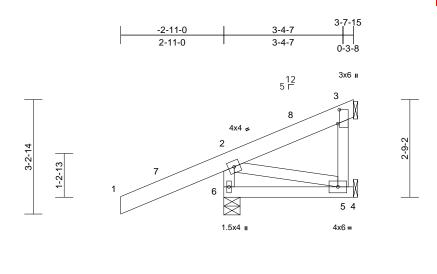
Ply Job Truss Truss Type Qtv Jack-Open P210577 J23 8 Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733448 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:5XDvFjoFqarMrtEGxkPIdnz9a6n-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV



Scale = 1:32.6

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

| 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 | 0.42 | Vert(LL) | -0.01 | 5-6 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.12 | Vert(CT) | -0.01 | 5-6 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.07 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 25 lb | FT = 20% |

3-4-7 3-4-7

LUMBER

TOP CHORD 2x6 SPF No 2 BOT CHORD 2x4 SP No.2 **WEBS** 2x4 SPF No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-7-15 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 5= Mechanical, 6=0-5-8

Max Horiz 6=93 (LC 16)

3=-73 (LC 22), 5=-5 (LC 16), Max Uplift

6=-142 (LC 12)

3=41 (LC 23), 5=77 (LC 7), 6=645 Max Grav

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-6=-613/390, 1-2=0/124, 2-3=-118/35

BOT CHORD 5-6=-211/58, 4-5=0/0 **WEBS** 3-5=0/0, 2-5=-60/220

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-11-0 to 2-1-0, Interior (1) 2-1-0 to 3-4-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 142 lb uplift at joint 6, 73 lb uplift at joint 3 and 5 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard



June 6,2023





Qty Ply Job Truss Truss Type P210577 J24 Jack-Closed 3 Job Reference (optiona

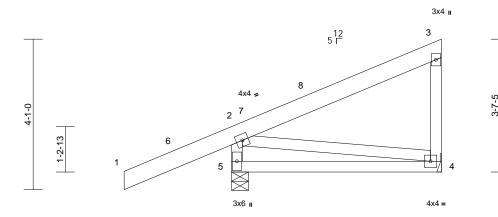
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733449 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. I 1on Jun 15 ID:jeckYm4ITLR8JHIIg4mJzQz9a1F-RfC?PsB70Hq3NSgPqnL8w3uITXbGK

| -2-11-0 | 5-8-6 |
|---------|-------|
| 2-11-0 | 5-8-6 |



Scale = 1:31.3

| | | | - | | | | | | | | | | |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|--|
| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP | |
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.42 | Vert(LL) | -0.05 | 4-5 | >999 | 240 | MT20 | 197/144 | |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.37 | Vert(CT) | -0.10 | 4-5 | >633 | 180 | | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.10 | Horz(CT) | 0.00 | 4 | n/a | n/a | | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | | |
| RCDI. | 10.0 | 1 | | I | | l | | | | | Weight: 35 lb | FT - 20% | |

5-8-6

LUMBER

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-8-6 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 9-8-5 oc

bracing.

REACTIONS 4= Mechanical, 5=0-5-8 (size)

Max Horiz 5=171 (LC 15) Max Uplift 4=-50 (LC 16), 5=-147 (LC 12)

Max Grav 4=268 (LC 23), 5=717 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

2-5=-663/427, 1-2=0/124, 2-3=-167/126, TOP CHORD

3-4=-232/179 **BOT CHORD** 4-5=-354/157 **WEBS** 2-4=-108/313

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-11-0 to 2-1-0, Interior (1) 2-1-0 to 5-6-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.: Ce=0.9: Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 147 lb uplift at joint 5 and 50 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023



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 chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

Ply Job Truss Truss Type Qtv P210577 J25 Jack-Open 3 Job Reference (optiona

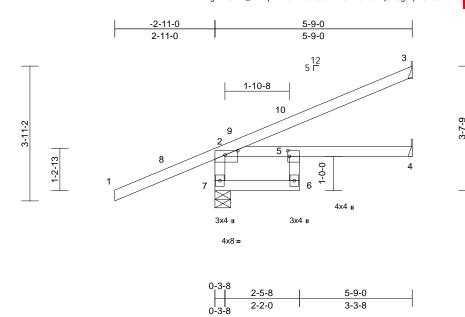
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733450 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:gZnL64Wt_Pz1dp2DnePmR0z9a0h-RfC?PsB70Hq3NSgPqnL8w3uITXbG

KWrCDoM342929f



Scale = 1:33.6

| Plate Offsets (X, | Y): [2 | ::0-4-8,0-1-8], | [5:0-2-0,0-0-8] |
|-------------------|--------|-----------------|-----------------|
|-------------------|--------|-----------------|-----------------|

| 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 | 0.70 | Vert(LL) | 0.05 | 4-5 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.36 | Vert(CT) | -0.09 | 4-5 | >739 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.03 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-R | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 28 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.5F

2x4 SP No.2 *Except* 6-5:2x4 SPF No.3 BOT CHORD

WEBS 2x4 SPF No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-9-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

7=0-5-8 Max Horiz 7=134 (LC 16)

Max Uplift 3=-83 (LC 16), 7=-102 (LC 12)

Max Grav 3=225 (LC 23), 4=108 (LC 7),

7=758 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-7=-723/382. 1-2=0/124. 2-3=-137/66 **BOT CHORD**

6-7=-169/167, 5-6=-40/27, 2-5=-168/169,

4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-11-0 to 2-1-0, Interior (1) 2-1-0 to 5-8-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 7 and 83 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard







Ply Job Truss Truss Type Qty Jack-Open P210577 J26 5

Job Reference (optiona

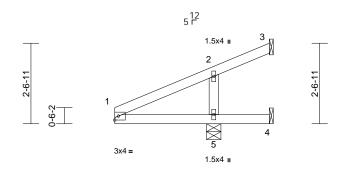
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733451 LEE'S SUMMIT. MISSOURI

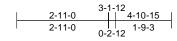
RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 15 ID:JtWudBgP95UK3fzWU9dawYz9a0V-RfC?PsB70Hq3NSgPqnL8w3uITXbC KWrCDDH3 ID:JtWudBgP95UK3fzWU9dawYz9a0V-RfC?PsB70Hq3NSgPqnL8w3uITXbC

| 3-1-12 | 4-10-15 |
|--------|---------|
| 3-1-12 | 1-9-3 |





Scale = 1:36.6

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defI | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.73 | Vert(LL) | -0.01 | 4-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.70 | Vert(CT) | 0.01 | 4-5 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.14 | Horz(CT) | -0.15 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 17 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-10-15 oc purlins.

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

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-5-8

Max Horiz 5=97 (LC 16)

Max Uplift 3=-106 (LC 22), 4=-148 (LC 22),

5=-131 (LC 12)

Max Grav 3=4 (LC 12), 4=26 (LC 12), 5=853

(LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-166/117, 2-3=-109/32 TOP CHORD

1-5=-68/169, 4-5=0/0 **BOT CHORD** WFBS

2-5=-551/431

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 106 lb uplift at joint 3, 148 lb uplift at joint 4 and 131 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 6,2023



Ply Job Truss Truss Type Qty P210577 J27 Jack-Closed 5 Job Reference (optiona

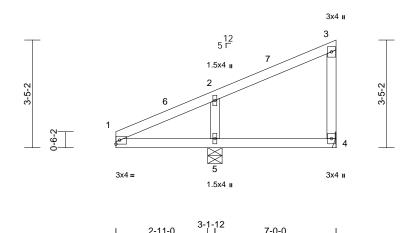
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733452 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:vZMAZzqBsOFLlp2DJ5tsUVz9a0H-RfC?PsB70Hq3NSgPqnL8w3uITXbG<mark>,</mark>WrCDoi**y4**292





Scale = 1:36.6

| 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 | 0.68 | Vert(LL) | -0.02 | 4-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.57 | Vert(CT) | 0.02 | 4-5 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.13 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 27 lb | FT = 20% |

3-10-4

2-11-0 2-11-0

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

4= Mechanical, 5=0-5-8 REACTIONS (size)

Max Horiz 5=143 (LC 13)

Max Uplift 4=-62 (LC 13), 5=-130 (LC 12)

Max Grav 4=93 (LC 22), 5=760 (LC 2) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-284/176, 2-3=-115/88, 3-4=-132/100

BOT CHORD 1-5=-132/279, 4-5=-82/115

WEBS 2-5=-537/403

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 6-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 4 and 130 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 6,2023



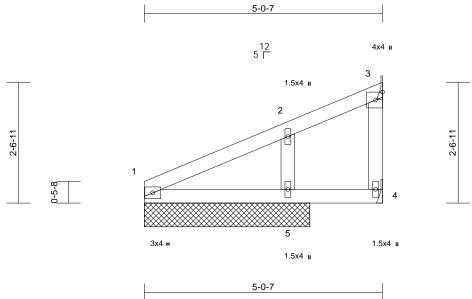
Ply Job Truss Truss Type Qty P210577 J28 Jack-Open Structural Gable Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733453 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65

ID:GX93cguKhwtdrawA5eT1BYz9a0C-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoil4292



| Scale = 1:2 |
|-------------|
|-------------|

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.21 | Vert(LL) | 0.00 | 1-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.07 | Vert(CT) | -0.01 | 1-5 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.08 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | 1 | | | | | | | Weight: 19 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS OTHERS 2x4 SPF No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-0-7 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing.

REACTIONS (size)

1=3-6-0, 3= Mechanical, 4= Mechanical, 5=3-6-0

Max Horiz 1=102 (LC 13)

Max Uplift 1=-2 (LC 16), 3=-18 (LC 13), 5=-91

(LC 16)

Max Grav 1=153 (LC 22), 3=48 (LC 22), 4=18

(LC 7), 5=396 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-175/132, 2-3=-76/50, 3-4=0/0

BOT CHORD 1-5=-45/49. 4-5=-45/49

WFBS 2-5=-331/258

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint
- 1, 18 lb uplift at joint 3 and 91 lb uplift at joint 5. This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard



June 6,2023



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 chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

Ply Job Truss Truss Type Qty P210577 J29 Jack-Partial 8 Job Reference (optiona

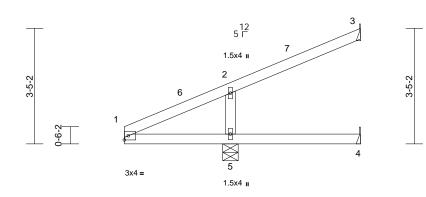
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733454 LEE'S SUMMIT. MISSOURI

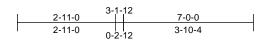
RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 15 12 3452 ID:ReKEwR1D5IG3gGGHFS9c8tz9a01-RfC?PsB70Hq3NSgPqnL8w3uITXb(KWrCDor/J4za0?)







Scale = 1:34.2

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.75 | Vert(LL) | -0.04 | 4-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.63 | Vert(CT) | 0.04 | 4-5 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.13 | Horz(CT) | -0.17 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | 1 | | | | | | | | | Weight: 23 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-5-8 Max Horiz 5=135 (LC 16)

Max Uplift 3=-71 (LC 16), 4=-27 (LC 2),

5=-100 (LC 12)

Max Grav 3=117 (LC 22), 4=20 (LC 12),

5=762 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-222/133, 2-3=-111/34

1-5=-86/218, 4-5=0/0 **BOT CHORD**

WFBS 2-5=-549/394

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 6-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 3, 27 lb uplift at joint 4 and 100 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023





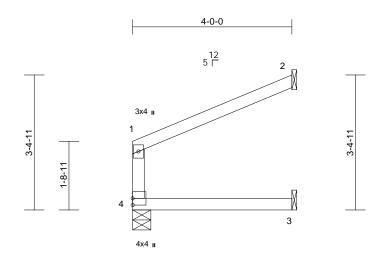
Ply Qty Job Truss Truss Type P210577 J30 Jack-Open 3 Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733455 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:oc77z95MwruMm18F1?Inrwz9a?y-RfC?PsB70Hq3NSgPqnL8w3uITXbGl



4-0-0 Scale = 1:28.9

| 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 | 0.42 | Vert(LL) | 0.03 | 3-4 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.32 | Vert(CT) | -0.03 | 3-4 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.07 | 2 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-R | | | | | | | | |
| BCDL | 10.0 | | | 1 | | | | | | | Weight: 14 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-0-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 2= Mechanical, 3= Mechanical, 4=0-5-8

Max Horiz 4=80 (LC 13)

Max Uplift 2=-78 (LC 16)

Max Grav 2=179 (LC 22), 3=78 (LC 7), 4=229

(LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-4=-203/90, 1-2=-88/57

BOT CHORD 3-4=0/0

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- This truss has been designed for a 10.0 psf bottom 4) chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 6,2023

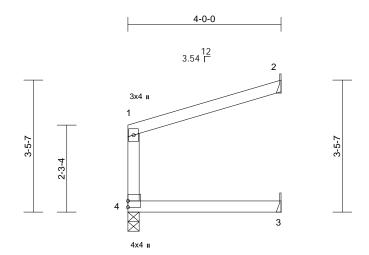


Ply Qty Job Truss Truss Type P210577 J31 Jack-Open Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733456 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 KWrCDo 7 420?f ID:5y2mRYAIG_nM66Bbx_NQdPz9a?r-RfC?PsB70Hq3NSgPqnL8w3uITXbG



Scale = 1:30.1

| | (0 | ١ | 2.2.2 | 1001 | - | | | (1) | 1/1.0 | | DI 4750 | 0010 | _ |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|---|
| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP | |
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.58 | Vert(LL) | 0.03 | 3-4 | >999 | 240 | MT20 | 197/144 | |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.38 | Vert(CT) | -0.03 | 3-4 | >999 | 180 | | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.12 | 2 | n/a | n/a | | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-R | | | | | | | | | |
| BCDL | 10.0 | 1 | | | | | | | | | Weight: 14 lb | FT = 20% | |

4-0-0

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

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 (size) 2= Mechanical, 3= Mechanical,

4=0-3-8 Max Horiz 4=79 (LC 13)

Max Uplift 2=-71 (LC 16), 4=-14 (LC 12) Max Grav 2=179 (LC 2), 3=77 (LC 7), 4=228

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-4=-200/136, 1-2=-64/42

BOT CHORD 3-4=0/0

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- This truss has been designed for a 10.0 psf bottom 4) chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 4 and 71 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 6,2023



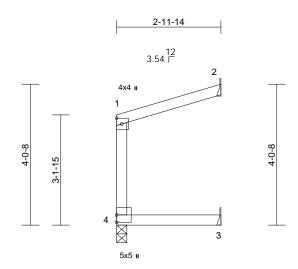
Ply Qty Job Truss Truss Type P210577 J32 Jack-Open Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733457 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Non Jun 5 8:542 Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:v6Q1ibFWsqXWq1elIEUqsgz9a?I-RfC?PsB70Hq3NSgPqnL8w3uITXbGK



Scale = 1:33

| | | | _ | - | - | | | | | | | |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| Loading | (psf) | Spacing | 2-0-0 | csı | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.70 | Vert(LL) | 0.02 | 3-4 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.42 | Vert(CT) | 0.02 | 3-4 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.16 | 2 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-R | | 1 | | | | | | |
| BCDI | 10.0 | I | | 1 | | | | | | | Wojaht: 12 lb | ET - 20% |

2-11-14

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

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 (size) 2= Mechanical, 3= Mechanical, 4=0-3-8

Max Horiz 4=91 (LC 13)

Max Uplift 2=-56 (LC 16), 3=-19 (LC 13),

4=-12 (LC 12)

Max Grav 2=134 (LC 2), 3=56 (LC 7), 4=167

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-4=-144/89, 1-2=-59/38

BOT CHORD 3-4=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 4, 56 lb uplift at joint 2 and 19 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023





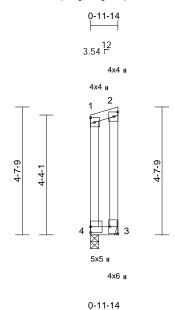
Ply Truss Type Job Truss Qty P210577 J33 Jack-Closed Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733458 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:9qSRbgM9kbgEPQqUKd8xkZz9a?c-RfC?PsB70Hq3NSgPqnL8w3uITXbG

KWrCDo+J4Q0?f



Scale = 1:41.7

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

| 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 | 0.76 | Vert(LL) | 0.00 | 3-4 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.36 | Vert(CT) | 0.00 | 3-4 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-R | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 12 lb | FT = 20% |

LUMBER

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

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 (size) 3= Mechanical, 4=0-3-8

Max Horiz 4=176 (LC 13)

Max Uplift 3=-548 (LC 13), 4=-470 (LC 12) Max Grav 3=477 (LC 14), 4=565 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-4=-374/340, 1-2=-116/109, 2-3=-397/428

BOT CHORD 3-4=-157/159

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.: Ce=0.9: Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 470 lb uplift at joint 4 and 548 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023





Job Truss Truss Type Qty Ply Jack-Open P210577 J34 3

Job Reference (optiona

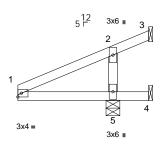
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733459 LEE'S SUMMIT. MISSOURI

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

non Jun 65008:52 Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:SSvVdteD4zhqH6f5kgaZidz9a?E-RfC?PsB70Hq3NSgPqnL8w3uITXbGK\

| 3-1-12 | 4-3-15 |
|--------|--------|
| 3-1-12 | 1-2-3 |







Scale = 1:38.1

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.70 | Vert(LL) | 0.00 | 4-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.70 | Vert(CT) | 0.01 | 4-5 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.16 | Horz(CT) | -0.13 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | 1 | | | | | | | | | Weight: 15 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-3-15 oc purlins.

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

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-5-8

Max Horiz 5=87 (LC 16)

3=-234 (LC 22), 4=-237 (LC 22), Max Uplift

5=-162 (LC 12)

Max Grav 3=29 (LC 12), 4=37 (LC 12), 5=991

(LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-147/115, 2-3=-134/74

1-5=-61/151, 4-5=0/0 BOT CHORD WFBS 2-5=-612/497

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 234 lb uplift at joint 3, 237 lb uplift at joint 4 and 162 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





Ply Job Truss Truss Type Qty Jack-Open P210577 J35 Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733460 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Mon Jun 05008:552 Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:loq95GkcR7ardAiReeCDU6z9a?7-RfC?PsB70Hq3NSgPqnL8w3uITXbGK

1-4-15 ₅ 12 1.5x4 II P

1-4-15

Scale = 1:25.7

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|--------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.15 | Vert(LL) | 0.00 | 3-4 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.10 | Vert(CT) | 0.00 | 3-4 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.01 | 2 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-R | | | | | | | | |
| BCDL | 10.0 | ļ | | | | | | | | | Weight: 6 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

1-4-15 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2= Mechanical, 3= Mechanical, 4=0-5-8

Max Horiz 4=49 (LC 13)

Max Uplift 2=-31 (LC 16), 3=-15 (LC 13) Max Grav 2=61 (LC 2), 3=25 (LC 7), 4=75

(LC 30)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-4=-65/21, 1-2=-38/27

BOT CHORD 3-4=0/0

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this 3) desian.
- This truss has been designed for a 10.0 psf bottom 4) chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 3 and 31 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard







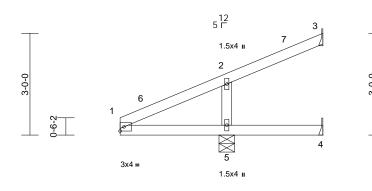
Ply Job Truss Truss Type Qty Jack-Open P210577 J36 5 Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733461 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 15 12 8 45 2 ID:WLJAm?qdYaaiaPJz6JL5poz9a??-RfC?PsB70Hq3NSgPqnL8w3uITXbGr WrCDoi734239?





| 2-11-0 | 3-1-12 | 5-11-12 | |
|--------|------------|---------|--|
| 2-11-0 | 0-2-12 | 2-10-0 | |

Scale = 1:34

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.71 | Vert(LL) | -0.02 | 4-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.66 | Vert(CT) | 0.03 | 4-5 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.13 | Horz(CT) | -0.17 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 20 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-11-12 oc purlins.

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

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-5-8 Max Horiz 5=117 (LC 16)

Max Uplift 3=-49 (LC 16), 4=-68 (LC 2),

5=-109 (LC 12)

3=32 (LC 22), 4=20 (LC 12), 5=758 Max Grav

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-197/123, 2-3=-99/14

1-5=-79/198, 4-5=0/0 BOT CHORD WFBS

2-5=-519/398

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 5-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 3, 68 lb uplift at joint 4 and 109 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





Ply Qty Job Truss Truss Type P210577 J37 Jack-Closed Job Reference (optiona

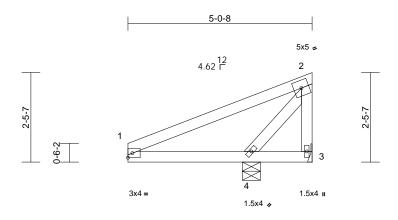
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733462 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:ohEqEPv0vkTiwULJ0HzkbGz9a_u-RfC?PsB70Hq3NSgPqnL8w3uITXbGh

Mon Jun 05) 8:55 WrCDoi794z36?





Scale = 1:31.6

| Loading | (psf) | Spacing | 2-0-0 | csı | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.96 | Vert(LL) | 0.00 | 3-4 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.30 | Vert(CT) | 0.00 | 3-4 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.31 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 20 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS 3= Mechanical, 4=0-5-15 (size)

Max Horiz 4=100 (LC 13)

Max Uplift 3=-291 (LC 22), 4=-220 (LC 12)

Max Grav 3=81 (LC 12), 4=892 (LC 22) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-710/758, 2-3=-344/274

BOT CHORD 1-4=-624/724, 3-4=-43/47

WEBS 2-4=-1008/989

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. Refer to girder(s) for truss to truss connections.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 291 lb uplift at joint 3 and 220 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





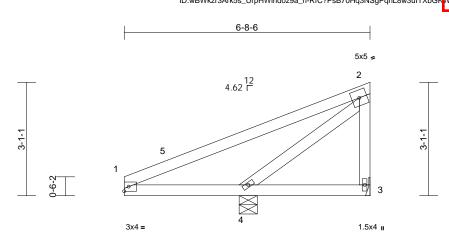


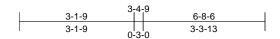
Ply Qty Job Truss Truss Type P210577 J38 Jack-Closed

DEVELOPMENT SERVICES 158733463 LEE'S SUMMIT. MISSOURI Job Reference (optiona Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:wBWkzr3Ark5s_UrpHWind0z9a_h-RfC?PsB70Hq3NSgPqnL8w3uITXbGł

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

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





1.5x4 🚜

Scale = 1:31.4

| 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 | TC | 0.75 | Vert(LL) | -0.01 | 3-4 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.27 | Vert(CT) | -0.01 | 3-4 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.40 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | ļ | | | | | | | | | Weight: 28 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-8-6 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4=0-5-15

Max Horiz 4=130 (LC 13)

Max Uplift 3=-54 (LC 13), 4=-173 (LC 12)

Max Grav 3=48 (LC 22), 4=763 (LC 2) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-821/985, 2-3=-96/70

BOT CHORD 1-4=-816/844, 3-4=-56/61

WEBS 2-4=-1050/914

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. Refer to girder(s) for truss to truss connections.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 3 and 173 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 6,2023





RELEASE FOR CONSTRUCTION Ply Qty Job Truss Truss Type P210577 J39 Jack-Closed Job Reference (optiona

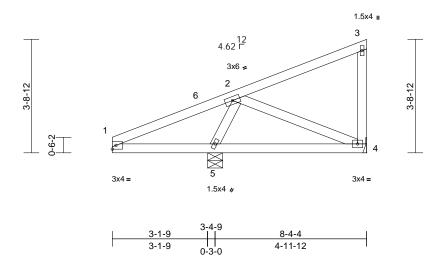
DEVELOPMENT SERVICES 158733464 LEE'S SUMMIT. MISSOURI

S NOTED FOR PLAN REVIEW

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:srAwyLI5MZVAmPoTu0YEu0z9a_O-RfC?PsB70Hq3NSgPqnL8w3uITXbCKWrCDoryJ4207f4





Scale = 1:37.9

| 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 | 0.56 | Vert(LL) | -0.02 | 4-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.25 | Vert(CT) | -0.04 | 4-5 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.19 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 36 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS 4= Mechanical, 5=0-5-15 (size)

Max Horiz 5=160 (LC 13)

Max Uplift 4=-63 (LC 13), 5=-175 (LC 12)

Max Grav 4=193 (LC 22), 5=824 (LC 2) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-503/497, 2-3=-133/97, 3-4=-172/121

BOT CHORD 1-5=-362/498, 4-5=-178/218

WEBS 2-4=-154/146, 2-5=-762/590

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-0-0 to 7-0-14, Exterior(2R) 7-0-14 to 8-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 4 and 175 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 6,2023



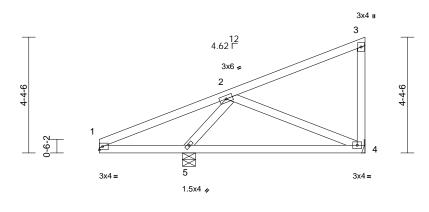
Ply Qty Job Truss Truss Type P210577 J40 Jack-Closed Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733465 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 VrCDoi7 42JQ ID:wjab6TUVqAO23iRLGfJI?Bz9a_9-RfC?PsB70Hq3NSgPqnL8w3uITXbGK





| ı | 3-1-9 | 3-4-9 I I | 10-0-2 | ı |
|---|-------|--------------|--------|--------|
| - | 3-1-9 | 0-3-0 | 6-7-10 | \neg |

Scale = 1:43.4

| Loading | (psf) | Spacing | 2-0-0 | csı | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.70 | Vert(LL) | -0.05 | 4-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.34 | Vert(CT) | -0.10 | 4-5 | >797 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.23 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 44 lb | FT = 20% |

bearing plate capable of withstanding 76 lb uplift at joint

International Residential Code sections R502.11.1 and

6) Provide mechanical connection (by others) of truss to

This truss is designed in accordance with the 2018

R802.10.2 and referenced standard ANSI/TPI 1.

4 and 173 lb uplift at joint 5.

LOAD CASE(S) Standard

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS 4= Mechanical, 5=0-5-15 (size)

Max Horiz 5=191 (LC 13)

Max Uplift 4=-76 (LC 16), 5=-173 (LC 12)

Max Grav 4=325 (LC 22), 5=882 (LC 2) (lb) - Maximum Compression/Maximum

FORCES Tension TOP CHORD

1-2=-524/568, 2-3=-172/97, 3-4=-216/140

BOT CHORD 1-5=-419/525, 4-5=-165/274

WEBS 2-4=-205/131, 2-5=-909/635

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-0-0 to 7-0-14, Exterior(2R) 7-0-14 to 9-10-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. Refer to girder(s) for truss to truss connections.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15

OF MISS SCOTT M. SEVIER PE-2001018807 SSIONAL

June 6,2023





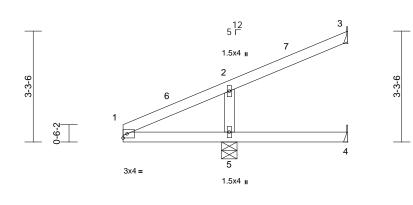
Ply Job Truss Truss Type Qty P210577 J41 Jack-Partial Job Reference (optiona

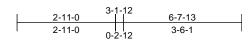
DEVELOPMENT SERVICES 158733466 Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65

LEE'S SUMMIT. MISSOURI ID:SoYeTxgX35Pm_AfQC0cVeYz9Zzv-RfC?PsB70Hq3NSgPqnL8w3uITXbC<mark>x</mark>WrCDony42g07f1

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW







Scale = 1:34.1

| 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 | 0.73 | Vert(LL) | -0.03 | 4-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.64 | Vert(CT) | 0.04 | 4-5 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.12 | Horz(CT) | -0.17 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | 1 | | | | | | | | | Weight: 22 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

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

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-5-8

Max Horiz 5=129 (LC 16)

Max Uplift 3=-64 (LC 16), 4=-39 (LC 2), 5=-102 (LC 12)

3=91 (LC 22), 4=20 (LC 12), 5=757 Max Grav

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-213/129, 2-3=-106/28 1-5=-84/211, 4-5=0/0 **BOT CHORD**

2-5=-537/394

WFBS NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 6-7-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 3, 39 lb uplift at joint 4 and 102 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023





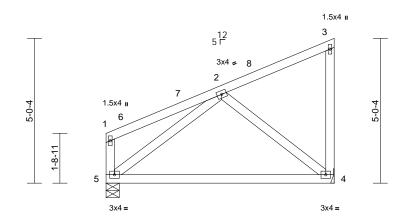
Ply Job Truss Truss Type Qty P210577 J42 Jack-Closed

DEVELOPMENT SERVICES 158733467 LEE'S SUMMIT. MISSOURI Job Reference (optiona Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:p1ty4TxKtrAedYLfVe?fXBz9ZzZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKW<mark>-</mark>CDoi7J²

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

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





7-10-15 Scale = 1:40

| 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 | 0.38 | Vert(LL) | -0.20 | 4-5 | >452 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.81 | Vert(CT) | -0.40 | 4-5 | >226 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.20 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | 1 | | 1 | | | | | | | Weight: 42 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 9-6-6 oc

BOT CHORD

bracing.

REACTIONS 4= Mechanical, 5=0-5-8 (size)

Max Horiz 5=209 (LC 13)

Max Uplift 4=-98 (LC 16), 5=-51 (LC 16)

Max Grav 4=462 (LC 22), 5=457 (LC 2) (lb) - Maximum Compression/Maximum

FORCES Tension

1-5=-148/102, 1-2=-72/95, 2-3=-144/118, TOP CHORD

3-4=-151/123

BOT CHORD 4-5=-335/355 **WEBS** 2-4=-378/348, 2-5=-373/163

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 7-9-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.: Ce=0.9: Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 5 and 98 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 6,2023



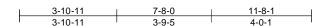


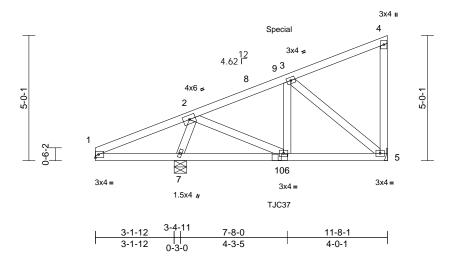
Ply Job Truss Truss Type Qtv P210577 J43 Diagonal Hip Girder Job Reference (optiona S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733468 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 rCDoi7J ID:xX9tpv5UqrpohYq9mtkiZxz9ZzM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV





Scale = 1:46

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.48 | Vert(LL) | -0.01 | 6-7 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.22 | Vert(CT) | -0.02 | 5-6 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.20 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 56 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 5= Mechanical, 7=0-5-15

Max Horiz 7=221 (LC 13)

Max Uplift 5=-118 (LC 16), 7=-204 (LC 12)

Max Grav 5=393 (LC 22), 7=941 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD $1-2=-421/499,\ 2-3=-314/83,\ 3-4=-140/107,$

4-5=-168/108

BOT CHORD 1-7=-376/418, 6-7=-274/241, 5-6=-192/266 WEBS 2-6=-227/423, 3-6=-173/153, 3-5=-294/156,

2-7=-861/499

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-0-0 to 7-0-14, Exterior(2R) 7-0-14 to 11-6-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint 5 and 204 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Use Simpson Strong-Tie TJC37 (4 nail, 22-30) or equivalent at 7-4-6 from the left end to connect truss(es) to front face of bottom chord, skewed 67.5 deg.to the left, sloping 0.0 deg, down.
- Fill all nail holes where hanger is in contact with lumber.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 37 lb down and 101 lb up at 7-4-6 on top chord. The design/ selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-4=-78, 1-5=-20

Concentrated Loads (lb)

Vert: 10=64 (F)



June 6,2023

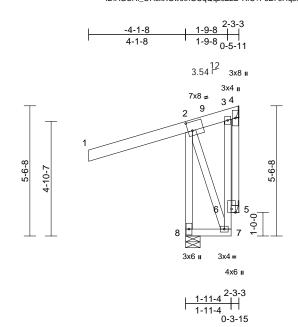




| | | | | | | RELEASE FOR CONSTRUCTION |
|---------|-------|----------------------------|-----|-----|--------------------------|---|
| Job | Truss | Truss Type | Qty | Ply | | AS NOTED FOR PLAN REVIEW |
| P210577 | J44 | Jack-Open Structural Gable | 1 | 1 | Job Reference (optional) | DEVELOPMENT SERVICES 158733469 LEE'S SUMMIT, MISSOURI |

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

LEE'S SUMMIT. MISSOURI Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Non Jun 650 88.55 ID:AGCHi_C7icxXGw0tnGOqQqz9ZzD-RfC?PsB70Hq3NSgPqnL8w3ulTXbCxWrCDor742s07f



Scale = 1:49

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

| 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 | 0.91 | Vert(LL) | 0.00 | 7 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.26 | Vert(CT) | 0.00 | 3 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.25 | Horz(CT) | -0.03 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 36 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2

BOT CHORD 2x4 SP No.2 *Except* 7-3:2x4 SPF No.3 **WEBS** 2x4 SPF No.3 *Except* 8-2:2x4 SP 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 6-0-0 oc

bracing.

REACTIONS (size) 4= Mechanical, 5= Mechanical,

8=0-7-6

Max Horiz 8=223 (LC 13)

Max Uplift 4=-194 (LC 22), 5=-348 (LC 31),

8=-462 (LC 12)

Max Grav 4=27 (LC 12), 5=199 (LC 12),

8=1007 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/127, 2-3=-170/204, 3-4=-108/96,

4-5=0/0. 2-8=-1031/941

BOT CHORD 7-8=-340/210, 6-7=-776/434, 3-6=-416/287,

5-6=-94/98

WEBS 2-7=-403/788

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -4-1-8 to 0-10-8, Interior (1) 0-10-8 to 2-1-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 194 lb uplift at joint 4, 348 lb uplift at joint 5 and 462 lb uplift at joint 8.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard





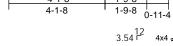


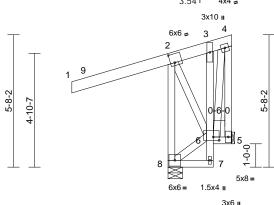
| | | | | | | RELEASE FOR CONSTRUCTION |
|---------|-------|-------------|-----|-----|--------------------------|--|
| Job | Truss | Truss Type | Qty | Ply | | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733470 |
| P210577 | J45 | Jack-Closed | 1 | 1 | Job Reference (optional) | LETIC CLIMMIT MICCOLIDI |

DEVELOPMENT SERVICES 158733470 LEE'S SUMMIT, MISSOURI Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Non Jun 50 2832 ID:a6PquqSg_IThf?YjySIWE2z9Zyv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV CDoi7J 2007

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







1-11-4 1-11-4

Scale = 1:49.4

Plate Offsets (X, Y): [2:0-2-4,0-4-8], [6:0-3-0,0-1-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.80 | Vert(LL) | -0.01 | 3 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.30 | Vert(CT) | 0.01 | 3 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.21 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 42 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2

BOT CHORD 2x4 SP No.2 *Except* 7-3:2x4 SPF No.3 **WEBS**

2x4 SPF No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-8-12 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 5= Mechanical, 8=0-7-6

Max Horiz 8=229 (LC 13)

Max Uplift 5=-357 (LC 31), 8=-414 (LC 12)

Max Grav 5=169 (LC 12), 8=948 (LC 2) (lb) - Maximum Compression/Maximum

FORCES

Tension

TOP CHORD 2-8=-925/983, 1-2=0/127, 2-3=-117/182,

3-4=-48/96, 4-5=-363/459

7-8=-9/10, 6-7=0/33, 3-6=-694/589, 5-6=-87/95

WEBS 6-8=-458/257, 2-6=-249/651, 4-6=-486/412

NOTES

BOT CHORD

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 414 lb uplift at joint 8 and 357 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard







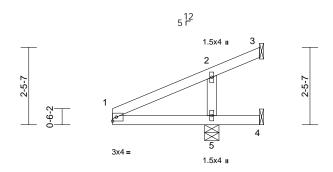
Ply Job Truss Truss Type Qty Jack-Open P210577 J46 2

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

DEVELOPMENT SERVICES 158733471 LEE'S SUMMIT. MISSOURI Job Reference (optiona Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Vion Jun 15 ID:Xm30uKgbWbs?RwVNaybzW3z9Zyc-RfC?PsB70Hq3NSgPqnL8w3uITXb SKWrCD-

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW







Scale = 1:36.5

| 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 | 0.71 | Vert(LL) | -0.01 | 4-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.70 | Vert(CT) | 0.01 | 4-5 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.14 | Horz(CT) | -0.14 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 16 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-7-15 oc purlins.

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

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-5-8

Max Horiz 5=93 (LC 16)

3=-151 (LC 22), 4=-178 (LC 22), Max Uplift

5=-141 (LC 12)

Max Grav 3=13 (LC 12), 4=29 (LC 12), 5=895

(LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-158/116, 2-3=-116/47 TOP CHORD

1-5=-65/162, 4-5=0/0 BOT CHORD WFBS

2-5=-567/451

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 151 lb uplift at joint 3, 178 lb uplift at joint 4 and 141 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 6,2023



Ply Job Truss Truss Type Qty P210577 J47 Jack-Partial 1

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

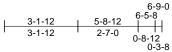
LEE'S SUMMIT. MISSOURI Job Reference (optiona Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 KWrCDorJ4202f

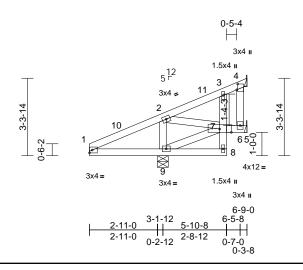
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 158733472

6-9-0 6-5-8 3-1-12 5-8-12

ID:BRQhEUsRgO4EaqQ0lqqjxWz9Zx5-RfC?PsB70Hq3NSgPqnL8w3uITXbG





Scale = 1:49.4

Plate Offsets (X, Y): [4:0-3-0,0-0-8]

| 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 | 0.32 | Vert(LL) | -0.01 | 8-9 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.18 | Vert(CT) | -0.01 | 8-9 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.13 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 33 lb | FT = 20% |

LUMBER

2x4 SP No.2 TOP CHORD

BOT CHORD 2x4 SP No.2 *Except* 8-3:2x4 SPF No.3

WEBS 2x4 SPF No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 4= Mechanical, 6= Mechanical,

9=0-5-8

Max Horiz 9=126 (LC 16)

Max Uplift 4=-63 (LC 16), 9=-103 (LC 12)

Max Grav 4=39 (LC 22), 6=29 (LC 7), 9=755

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-400/413, 2-3=-70/36, 3-4=-34/28 TOP CHORD

BOT CHORD 1-9=-297/399, 8-9=-1/1, 7-8=0/37,

3-7=-155/161, 6-7=-3/2, 5-6=0/0 **WEBS** 2-9=-545/380, 7-9=-323/222, 2-7=-208/300,

4-6=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 6-5-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 9 and 63 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard



June 6,2023





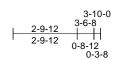
Job Truss Truss Type Qtv Ply Jack-Open P210577 J48

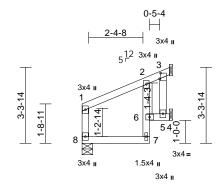
DEVELOPMENT SERVICES 158733473 LEE'S SUMMIT. MISSOURI Job Reference (optiona Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 🚯 o**Q**9:**/**ℓ**)** KWrCD JJ 2007

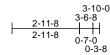
ID:MYarYF_L4nTgOWm8udXluqz9Zww-RfC?PsB70Hq3NSgPqnL8w3ulTXb

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

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







Scale = 1:50.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.15 | Vert(LL) | 0.00 | 2 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.24 | Vert(CT) | -0.01 | 2 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.02 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 18 lb | FT = 20% |

LUMBER

2x4 SP No.2 TOP CHORD

2x4 SP No.2 *Except* 7-2:2x4 SPF No.3 BOT CHORD

WEBS 2x4 SPF No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-10-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 3= Mechanical, 5= Mechanical, 8=0-5-8

Max Horiz 8=75 (LC 13)

Max Uplift 3=-11 (LC 16), 5=-53 (LC 16)

Max Grav 3=84 (LC 2), 5=126 (LC 2), 8=203

(LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-8=-168/61 1-2=-108/12 2-3=-16/29

BOT CHORD 7-8=-85/72, 6-7=-18/47, 2-6=-94/137,

5-6=0/0, 4-5=0/0 3-5=0/0

WEBS NOTES

Unbalanced roof live loads have been considered for

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 3 and 53 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard





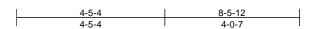
Ply Job Truss Truss Type Qtv P210577 J49 Jack-Closed Job Reference (optiona

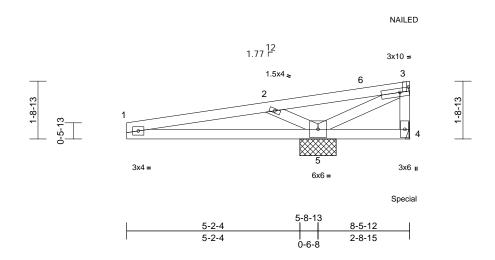
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733474 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Mon Jun 65009:00 VrCDoi7342JS-i Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 🚯 ID:Biy6pl36gdDp7RDHFuei75z9Zwq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK





Scale = 1:34.5

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

| 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 | 0.96 | Vert(LL) | -0.03 | 4-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.84 | Vert(CT) | -0.03 | 4-5 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.84 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 32 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 5-9-8 oc

bracing.

REACTIONS (size) 4= Mechanical, 5=1-1-1

Max Horiz 5=62 (LC 49)

Max Uplift 4=-1295 (LC 37), 5=-505 (LC 12) Max Grav 4=439 (LC 48), 5=1602 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-1671/1006, 2-3=-2337/1851, TOP CHORD

3-4=-911/717

BOT CHORD 1-5=-937/1660, 4-5=-29/32 2-5=-992/847, 3-5=-2069/2647

WEBS NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-0-0 to 7-0-14, Exterior(2R) 7-0-14 to 8-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1295 lb uplift at joint 4 and 505 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 172 lb down and 556 lb up at 8-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-3=-78, 1-4=-20 Concentrated Loads (lb) Vert: 4=329 (F), 3=70 (F)



June 6,2023





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 chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



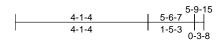
16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Ply Jack-Open P210577 J50 Job Reference (optiona

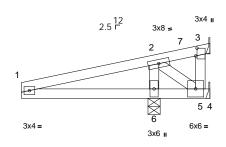
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733475 LEE'S SUMMIT. MISSOURI

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

ID:jWOkbz2TvJ5yVHe5hB7Tbuz9Zwr-RfC?PsB70Hq3NSgPqnL8w3ulTXbGi WrCDoi7s4zbe.









| | 4-1 | | 5- | 9- | 15 |
|--------|-----|-------|----|----------|----|
| 3-11-0 | | 5-6-7 | | | ľ |
| 3-11-0 | 0-2 | 1-5-3 | > | -3- | ĺ |
| | 0-2 | -4 | U· | -3- | o |

Scale = 1:35.6

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

| 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 | 0.58 | Vert(LL) | 0.00 | 5-6 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.50 | Vert(CT) | 0.00 | 5-6 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.44 | Horz(CT) | 0.01 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 21 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-4-11 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 5= Mechanical,

6=0-4-8

Max Horiz 6=59 (LC 16)

Max Uplift 3=-65 (LC 2), 5=-548 (LC 2),

6=-390 (LC 12)

3=23 (LC 12), 5=177 (LC 12), Max Grav

6=1283 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1104/796, 2-3=-43/17

BOT CHORD 1-6=-711/1103, 5-6=-711/979, 4-5=0/0 **WEBS** 2-6=-1161/1388, 3-5=0/0, 2-5=-1211/879

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 5-6-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 390 lb uplift at joint 6, 65 lb uplift at joint 3 and 548 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard



June 6,2023



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 chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply P210577 J51 Jack-Partial 3 Job Reference (optiona

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

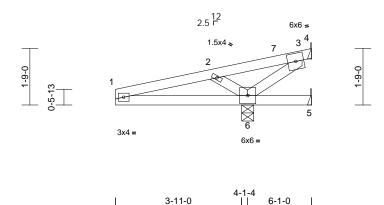
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733476 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Mon Jun 5 p 9:00

| | | 6-1-0 |
|--------|-------|--------|
| 3-1-12 | 5-7-2 | |
| 3-1-12 | 2-5-6 | 0.5.14 |

ID:QiWxGBNPYcV7ERCHmM6oBaz9ZwQ-RfC?PsB70Hq3NSgPqnL8w3uIT



Scale = 1:35.8

| 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 | 0.43 | Vert(LL) | -0.01 | 5-6 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.44 | Vert(CT) | -0.01 | 5-6 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.47 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 22 lb | FT = 20% |

3-11-0

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-2-6 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 4= Mechanical, 5= Mechanical,

6=0-4-8 Max Horiz 6=63 (LC 16)

Max Uplift 4=-396 (LC 2), 5=-17 (LC 2),

6=-339 (LC 12)

Max Grav 4=112 (LC 12), 5=23 (LC 12),

6=1135 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-911/567, 2-3=-1182/939, 3-4=-86/116

BOT CHORD 1-6=-500/905. 5-6=0/0

WFBS 2-6=-478/426, 3-6=-1163/1465

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 6-0-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 396 lb uplift at joint 4, 17 lb uplift at joint 5 and 339 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023

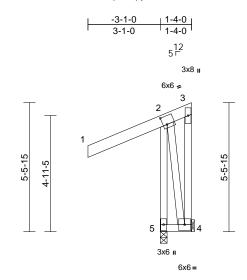


| Job | Truss | Truss Type | Qty | Ply | | Г |
|---------|-------|-------------|-----|-----|--------------------------|---|
| P210577 | J52 | Jack-Closed | 3 | 1 | Job Reference (optional) | |

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

LEE'S SUMMIT. MISSOURI Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Non Jun 650 2941 ID:Rz2Nq?a4Yqejn2?YGQvnNAz9Zw9-RfC?PsB70Hq3NSgPqnL8w3ulTXbC KWrCDowJ42907f

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733477



1-4-0

Scale = 1:49.1

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

| 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 | TC | 0.60 | Vert(LL) | 0.00 | 5 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.04 | Vert(CT) | 0.00 | 4-5 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.38 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 26 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2 BOT CHORD 2x4 SP No.2 **WEBS** 2x4 SPF No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-6-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 4= Mechanical, 5=0-3-8

Max Horiz 5=239 (LC 13)

Max Uplift 4=-773 (LC 31), 5=-449 (LC 12) Max Grav 4=332 (LC 12), 5=1099 (LC 31)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-5=-1299/894, 1-2=0/131, 2-3=-267/280, TOP CHORD

3-4=-459/502 **BOT CHORD** 4-5=-337/237 WEBS 2-4=-709/1201

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 449 lb uplift at joint 5 and 773 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard









Ply Truss Type Job Truss Qty P210577 J53 Jack-Closed Job Reference (optiona

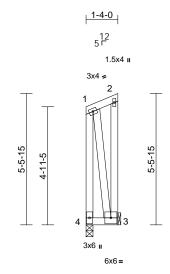
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:vR8Ac9oMIMv9xpO0KCE?6yz9Zvt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGi

LEE'S SUMMIT. MISSOURI Mon Jun 05) 9:012 WrCDoil 94z36:#

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 158733478



1-4-0

Scale = 1:48.2

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.62 | Vert(LL) | 0.00 | 4 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(CT) | 0.00 | 3-4 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.43 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 20 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

1-6-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4=0-3-8

Max Horiz 4=212 (LC 13)

Max Uplift 3=-531 (LC 13), 4=-420 (LC 12)

Max Grav 3=442 (LC 14), 4=556 (LC 15) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-4=-957/862, 1-2=-115/108, 2-3=-79/71

BOT CHORD 3-4=-284/274 WEBS 1-3=-888/976

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully
- Unbalanced snow loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15
- Exp.; Ce=0.9; Cs=1.00; Ct=1.10

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

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 420 lb uplift at joint 4 and 531 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard







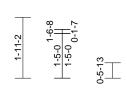
Ply Job Truss Truss Type Qty P210577 J54 Roof Special Girder Job Reference (optiona

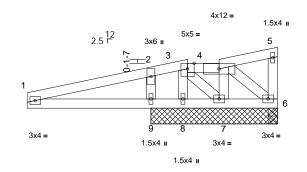
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733479 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 🚯 ID:JHLkp?1vbVQKKuvsVPbhvAz9ZvZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoily4292/f







Special

| ı | 4-11-2 | 6-2-10 | 7-11-0 |
|---|--------|--------|--------|
| | 4-11-2 | 1-3-8 | 1-8-6 |

Scale = 1:36.5

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.64 | Vert(LL) | 0.00 | 8-9 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.50 | Vert(CT) | 0.00 | 8-9 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.25 | Horz(CT) | 0.00 | 6 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | 1 | | | | | | | | | Weight: 32 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WFBS 2x4 SPF No 3 OTHERS 2x4 SPF No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-10-9 oc purlins, except end verticals, and

2-0-0 oc purlins: 3-4.

Rigid ceiling directly applied or 6-0-0 oc **BOT CHORD**

bracing.

REACTIONS 6=4-0-0, 7=4-0-0, 8=4-0-0, 9=4-0-0 (size)

Max Horiz 9=72 (LC 13)

Max Uplift 6=-29 (LC 16), 7=-79 (LC 43),

8=-1079 (LC 65), 9=-231 (LC 12) Max Grav 6=137 (LC 29), 7=43 (LC 12),

8=458 (LC 87), 9=695 (LC 41)

(lb) - Maximum Compression/Maximum

Tension

1-2=-934/744, 2-3=-826/651, 3-4=-291/209, TOP CHORD

4-5=-44/40, 5-6=-252/161

1-9=-661/933, 8-9=-661/873, 7-8=-607/803,

6-7=-244/344

3-8=-458/581, 3-7=-715/574, 4-7=-306/308, WFBS

4-6=-376/298, 2-9=-538/481

NOTES

FORCES

BOT CHORD

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 6-0-14, Interior (1) 6-0-14 to 7-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this desian.
- Provide adequate drainage to prevent water ponding.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 6, 1079 lb uplift at joint 8, 79 lb uplift at joint 7 and 231 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 174 lb down and 87 lb up at 7-9-4 on top chord, and 453 lb down and 1391 lb up at 5-0-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1 15

Uniform Loads (lb/ft)

Vert: 1-3=-78, 3-4=-88, 4-5=-78, 1-6=-20

Concentrated Loads (lb)

Vert: 5=-150 (F), 8=816 (B)



June 6,2023



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 chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply P210577 K01 Hip Girder 2 Job Reference (optiona

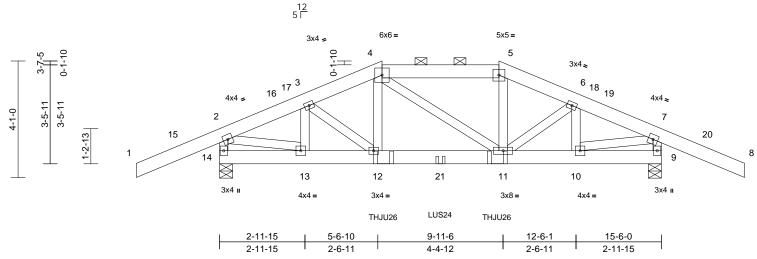
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:4?5x?PqjbOdHPFV2gC5oClz9Xzu-RfC?PsB70Hq3NSgPqnL8w3uITXbGrWrCDoi7y429

DEVELOPMENT SERVICES 158733480 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

| - 1 | -2-11-0 | <u> </u> 2-11-15 | 5-8-6 | 9-9-10 | 12-6-1 | 15-6-0 | 18-5-0 |
|-----|---------|------------------|-------|--------|--------|---------|--------|
| ı | 2-11-0 | 2-11-15 | 2-8-7 | 4-1-4 | 2-8-7 | 2-11-15 | 2-11-0 |
| | | | | | | | |



Scale = 1:40.4

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.26 | Vert(LL) | -0.02 | 11-12 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.29 | Vert(CT) | -0.04 | 11-12 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.34 | Horz(CT) | 0.01 | 9 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 196 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x6 SPF No 2

2x4 SPF No.3 *Except* 14-2,9-7:2x4 SP No.2 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing

REACTIONS (size) 9=0-5-8, 14=0-5-8

Max Horiz 14=37 (LC 64)

Max Uplift 9=-411 (LC 13), 14=-411 (LC 12)

Max Grav 9=1827 (LC 41), 14=1827 (LC 41)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/131, 2-3=-1759/529, 3-4=-2107/660,

4-5=-1932/637, 5-6=-2112/660,

6-7=-1758/530, 7-8=0/131, 2-14=-1744/609,

7-9=-1744/610

13-14=-115/222, 12-13=-386/1528,

11-12=-469/1926, 10-11=-352/1527,

9-10=-115/190

3-13=-494/164, 3-12=-224/567,

4-12=-124/444, 4-11=-57/68, 5-11=-129/451,

6-11=-224/575, 6-10=-499/164,

2-13=-378/1536, 7-10=-377/1534

NOTES

WEBS

BOT CHORD

2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-11-0 to 2-1-0, Interior (1) 2-1-0 to 5-8-6, Exterior(2E) 5-8-6 to 9-9-10, Exterior(2R) 9-9-10 to 16-10-8, Interior (1) 16-10-8 to 18-5-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 411 lb uplift at joint 14 and 411 lb uplift at joint 9.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

- 13) Use Simpson Strong-Tie THJU26 (SGL & SGL LC 2-PLY) or equivalent at 5-9-1 from the left end to connect truss(es) to front face of bottom chord.
- 14) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 7-9-0 from the left end to connect truss(es) to front face of bottom chord.
- 15) Use Simpson Strong-Tie THJU26 (SGL & SGL RC 2-PLY) or equivalent at 9-8-15 from the left end to connect truss(es) to front face of bottom chord.
- 16) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-78, 2-4=-78, 4-5=-88, 5-7=-78, 7-8=-78,

9-14=-20

Concentrated Loads (lb)

Vert: 12=-473 (F), 11=-473 (F), 21=-248 (F)



June 6,2023



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 chorembers 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



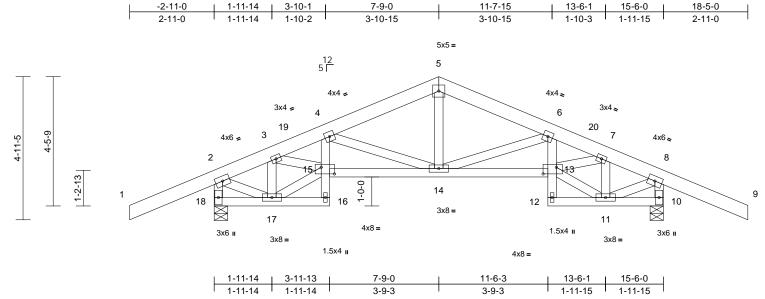
Ply Job Truss Truss Type Qty P210577 K02 Roof Special 14 Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733481 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:nTIZESMJEvA1h0sWFRt6_az9XzC-RfC?PsB70Hq3NSgPqnL8w3uITXbG

KWrCDoi 7



Scale = 1:39.8

| 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 | 0.45 | Vert(LL) | -0.03 | 14-15 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.44 | Vert(CT) | -0.08 | 14-15 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.44 | Horz(CT) | 0.06 | 10 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | 1 | | | | | | | Weight: 98 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2

BOT CHORD 2x4 SP No.2 *Except* 16-4,6-12:2x4 SPF

No.3

WEBS 2x4 SPF No.3 *Except* 18-2,10-8:2x4 SP

BRACING

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or 5-7-14 oc purlins, except end verticals.

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

bracing, Except:

6-0-0 oc bracing: 17-18,10-11.

REACTIONS (size) 10=0-5-8, 18=0-5-8

Max Horiz 18=51 (LC 16)

Max Uplift 10=-188 (LC 17), 18=-188 (LC 16)

Max Grav 10=1219 (LC 2), 18=1219 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/124, 2-3=-728/171, 3-4=-1635/354,

4-5=-1164/249, 5-6=-1164/260,

6-7=-1635/321, 7-8=-729/172, 8-9=0/124,

2-18=-1192/423, 8-10=-1192/423

BOT CHORD 4-15=-16/182, 14-15=-239/1537,

17-18=-103/122, 16-17=-15/67, 15-16=0/43,

13-14=-165/1536, 12-13=0/43, 6-13=-16/182,

11-12=-12/67, 10-11=-103/80

6-14=-575/186, 2-17=-76/672, 8-11=-75/672,

5-14=-30/427, 4-14=-576/203, 7-11=-562/62,

11-13=-3/555, 7-13=-180/998, 3-17=-563/86,

15-17=-49/555, 3-15=-183/999

NOTES

WEBS

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-11-0 to 1-11-14, Interior (1) 1-11-14 to 7-9-0, Exterior(2R) 7-9-0 to 12-9-0, Interior (1) 12-9-0 to 18-5-0 zone; cantilever left and right exposed; end vertical left and right exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 188 lb uplift at joint 18 and 188 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





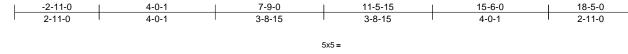


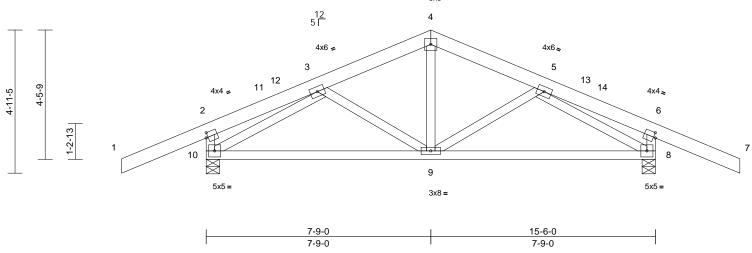
Ply Qty Job Truss Truss Type P210577 K03 Common Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733482 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Non Jun ID:FxrN?cac?RRUrnEzIDCKjMz9Xyw-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoi





Scale = 1:39.8

Plate Offsets (X, Y): [2:0-0-13,0-2-0], [6:0-0-13,0-2-0]

| 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 | TC | 0.45 | Vert(LL) | -0.07 | 9-10 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.60 | Vert(CT) | -0.14 | 8-9 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.45 | Horz(CT) | 0.02 | 8 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 91 lb | FT = 20% |

LUMBER

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

WEBS 2x4 SPF No.3 *Except* 10-2,8-6:2x4 SP 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 (size) 8=0-5-8, 10=0-5-8

Max Horiz 10=51 (LC 16)

Max Uplift 8=-188 (LC 17), 10=-188 (LC 16) Max Grav 8=1219 (LC 2), 10=1219 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum

Tension

1-2=0/124, 2-3=-156/80, 3-4=-909/229, TOP CHORD 4-5=-909/228, 5-6=-156/80, 6-7=0/124,

2-10=-595/323, 6-8=-595/324

BOT CHORD 9-10=-149/822, 8-9=-106/822

WEBS 4-9=0/307, 3-10=-1002/232, 5-8=-1002/233,

3-9=-95/145, 5-9=-95/145

NOTES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-11-0 to 2-1-0, Interior (1) 2-1-0 to 7-9-0, Exterior(2R) 7-9-0 to 12-9-0, Interior (1) 12-9-0 to 18-5-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 188 lb uplift at joint 10 and 188 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard







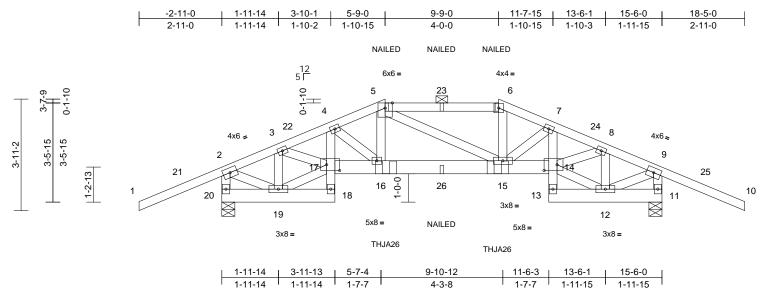
Job Truss Truss Type Qtv Ply 2 P210577 K04 Hip Girder Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733483 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 🚯 ID:B5bYBufEIAS5NkZp_8TNSDz9XZ?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDc



Scale = 1:40.6

| Plate Offsets | (X, Y |): | [14:0-5-8,0-2-8], [17:0-5-8,0-2-8] |
|---------------|-------|----|------------------------------------|
|---------------|-------|----|------------------------------------|

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.64 | Vert(LL) | -0.03 | 15-16 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.30 | Vert(CT) | -0.07 | 15-16 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.35 | Horz(CT) | 0.04 | 11 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | 1 | | 1 | | | | | | | Weight: 193 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No 2

2x6 SPF No.2 *Except* 18-4,7-13:2x4 SPF **BOT CHORD** No.3

WEBS 2x4 SPF No.3 *Except* 20-2,11-9:2x4 SP

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and

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

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

bracing, Except:

6-0-0 oc bracing: 19-20,11-12.

REACTIONS (size) 11=0-5-8, 20=0-5-8 Max Horiz 20=34 (LC 64)

Max Uplift 11=-374 (LC 13), 20=-374 (LC 12)

Max Grav 11=1751 (LC 41), 20=1751 (LC 41)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/131, 2-3=-1234/356, 3-4=-2731/730, TOP CHORD

4-5=-2676/728, 5-6=-2444/673,

6-7=-2665/701, 7-8=-2732/703,

8-9=-1235/356, 9-10=0/131, 2-20=-1686/564,

9-11=-1686/564

19-20=-282/292, 18-19=-51/219, BOT CHORD

17-18=-9/89, 4-17=-88/107, 16-17=-571/2522, 15-16=-531/2454

14-15=-504/2524, 13-14=-8/89, 7-14=-83/90,

12-13=-44/217, 11-12=-282/251

WEBS 4-16=-116/159, 5-16=-92/511, 5-15=-69/69,

6-15=-58/501, 7-15=-82/150,

2-19=-319/1401, 9-12=-319/1402, 3-19=-1137/295, 17-19=-217/947,

3-17=-345/1564, 8-12=-1137/274

12-14=-177/949, 8-14=-366/1564

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 OC.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-11-0 to 1-11-14, Interior (1) 1-11-14 to 5-9-0, Exterior(2E) 5-9-0 to 9-9-0, Exterior(2R) 9-9-0 to 16-9-14, Interior (1) 16-9-14 to 18-5-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- 7) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 374 lb uplift at joint 20 and 374 lb uplift at joint 11.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802 10 2 and referenced standard ANSI/TPI 1
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord
- Right Hand Hip) or equivalent at 5-9-6 from the left end to connect truss(es) to back face of bottom chord. 15) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Left

14) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply,

- Hand Hip) or equivalent at 9-8-10 from the left end to connect truss(es) to back face of bottom chord.
- 16) Fill all nail holes where hanger is in contact with lumber.
- 17) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)



June 6,2023

Continued on page 2

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Ply Job Truss Truss Type Qty P210577 K04 Hip Girder Job Reference (optional

LEE'S SUMMIT, MISSOURI Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. fron Jun 50 3045 24/2 0 2 ID:85bYBufEIAS5NkZp_8TNSDz9XZ?-RfC?PsB70Hq3NSgPqnL8w3uITXb6 WrCDor4 24/2 0 2

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 158733483

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

Vert: 1-2=-78, 2-5=-78, 5-6=-88, 6-9=-78, 9-10=-78, 18-20=-20, 14-17=-20, 11-13=-20 Concentrated Loads (lb) Vert: 5=-142 (B), 6=-142 (B), 16=-272 (B), 15=-272 (B), 23=-138 (B), 26=-41 (B)



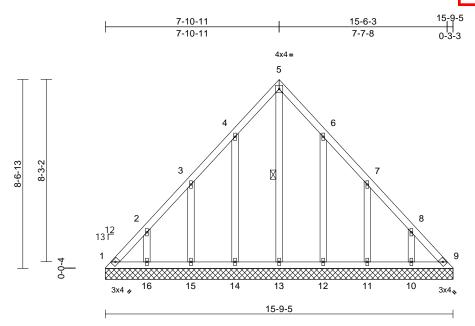
Job Truss Truss Type Qty Ply P210577 LG01 Lay-In Gable Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733484 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:KVjK2Q_XpOfR2FkOwvM7Flz9aJS-RfC?PsB70Hq3NSgPqnL8w3uITXbG<mark>k</mark>WrCDol**yd4292**ff



Scale = 1:52.3

Plate Offsets (X, Y): [7:0-0-0,Edge], [8:0-0-0,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 | TC | 0.09 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.19 | Horiz(TL) | 0.01 | 9 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 91 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing. WEBS

1 Row at midpt

REACTIONS (size)

1=15-9-5, 9=15-9-5, 10=15-9-5, 11=15-9-5, 12=15-9-5, 13=15-9-5. 14=15-9-5, 15=15-9-5, 16=15-9-5

Max Horiz 1=-235 (LC 10)

Max Uplift 1=-74 (LC 12), 9=-38 (LC 13), 10=-140 (LC 15), 11=-145 (LC 15),

12=-141 (LC 15), 14=-143 (LC 14), 15=-144 (LC 14), 16=-140 (LC 14)

Max Grav 1=221 (LC 14), 9=198 (LC 28), 10=267 (LC 26), 11=269 (LC 26),

12=280 (LC 26), 13=215 (LC 28), 14=282 (LC 25), 15=268 (LC 25),

16=267 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-318/203, 2-3=-217/155, 3-4=-182/106, 4-5=-209/168, 5-6=-209/159, 6-7=-144/63,

7-8=-193/106, 8-9=-285/202

BOT CHORD 1-16=-138/221, 15-16=-138/221

14-15=-138/221, 13-14=-138/221, 12-13=-138/221, 11-12=-138/221, 10-11=-138/221, 9-10=-138/221

WEBS 5-13=-175/86, 4-14=-255/167, 3-15=-260/170, 2-16=-244/157,

6-12=-255/165, 7-11=-260/171,

8-10=-244/157

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00: Cat. II: Exp C: Enclosed: MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-0 to 5-4-0, Interior (1) 5-4-0 to 7-10-14, Exterior(2R) 7-10-14 to 12-10-14, Interior (1) 12-10-14 to 15-5-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 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, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 1, 38 lb uplift at joint 9, 143 lb uplift at joint 14, 144 lb uplift at joint 15, 140 lb uplift at joint 16, 141 lb uplift at joint 12, 145 lb uplift at joint 11 and 140 lb uplift at joint
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

NOTES



June 6,2023

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 chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

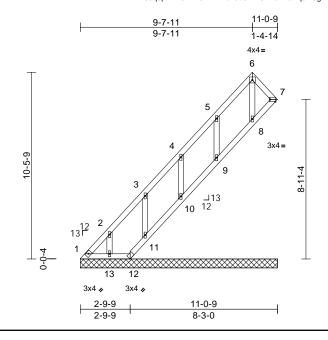
Job Truss Truss Type Qtv Ply P210577 LG02 Lay-In Gable Job Reference (optiona S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733485 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 🚯 ID:2RK68q6pTTw0FnVJW?YTfsz9aJI-RfC?PsB70Hq3NSgPqnL8w3uITXbGI

Mon Jun 5 99:062 WrCDoi 34z36.4



Scale = 1:64.5

Plate Offsets (X, Y): [7:Edge,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 | 0.12 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.04 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.06 | Horiz(TL) | 0.00 | 7 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 59 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size)

1=11-0-9, 7=11-0-9, 8=11-0-9, 9=11-0-9, 10=11-0-9, 11=11-0-9,

12=11-0-9, 13=11-0-9

Max Horiz 1=408 (LC 14)

Max Uplift 1=-93 (LC 12), 7=-175 (LC 14),

9=-150 (LC 14), 10=-139 (LC 14), 11=-155 (LC 14), 12=-48 (LC 12),

13=-134 (LC 14)

Max Grav 1=328 (LC 14), 7=133 (LC 25)

8=209 (LC 27), 9=286 (LC 25), 10=265 (LC 25), 11=270 (LC 25), 12=96 (LC 14), 13=242 (LC 25)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-458/393, 2-3=-338/293, 3-4=-196/169, 4-5=-110/77, 5-6=-152/115, 6-7=-136/133 **BOT CHORD**

1-13=-77/63, 12-13=-77/63, 11-12=-117/108, 10-11=-121/109, 9-10=-122/108,

8-9=-122/108, 7-8=-121/95

6-8=-168/30, 5-9=-278/174, 4-10=-259/164,

3-11=-269/170, 2-13=-236/147

NOTES

WEBS

FORCES

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-0 to 5-4-0, Interior (1) 5-4-0 to 9-7-14, Exterior(2E) 9-7-14 to 10-10-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc. 7)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 1, 175 lb uplift at joint 7, 48 lb uplift at joint 12, 150 lb uplift at joint 9, 139 lb uplift at joint 10, 155 lb uplift at joint 11 and 134 lb uplift at joint 13.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7, 8, 9, 10, 11
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard









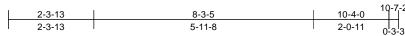
Job Truss Truss Type Qtv Ply P210577 LG03 Lay-In Gable Job Reference (optiona

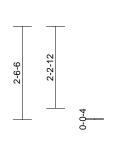
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733486 LEE'S SUMMIT. MISSOURI

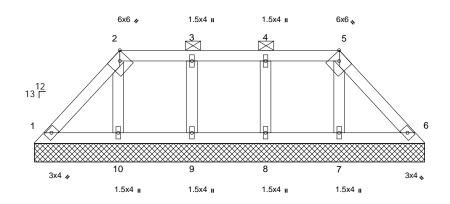
RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Non Jun ID:LnFlcEBCpco0asXfQzA6RKz9aJB-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoi7







10-7-2

Scale = 1:31.3

Plate Offsets (X, Y): [2:0-2-9,Edge], [5:0-2-9,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 | TC | 0.08 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.04 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.05 | Horiz(TL) | 0.00 | 6 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | I | | | | | | | Weight: 42 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 2-5. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD

REACTIONS (size)

1=10-7-2, 6=10-7-2, 7=10-7-2, 8=10-7-2, 9=10-7-2, 10=10-7-2

Max Horiz 1=63 (LC 11)

Max Uplift 1=-28 (LC 15), 6=-20 (LC 15),

7=-28 (LC 15), 8=-49 (LC 11), 9=-47 (LC 10), 10=-44 (LC 11)

1=137 (LC 2), 6=141 (LC 2), 7=222

(LC 32), 8=250 (LC 31), 9=247 (LC

32), 10=223 (LC 31)

FORCES (lb) - Maximum Compression/Maximum

Tension

Max Grav

TOP CHORD 1-2=-126/59, 2-3=-78/62, 3-4=-78/62,

4-5=-78/62. 5-6=-121/39

BOT CHORD 1-10=-16/49, 9-10=-17/52, 8-9=-17/52,

7-8=-17/52, 6-7=-17/52

5-7=-167/46, 4-8=-212/71, 3-9=-208/69,

2-10=-168/65

WEBS NOTES

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 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, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 1, 20 lb uplift at joint 6, 28 lb uplift at joint 7, 49 lb uplift at joint 8, 47 lb uplift at joint 9 and 44 lb uplift at joint 10.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 6,2023



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 chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qtv Ply P210577 LG04 Lay-In Gable Job Reference (optiona

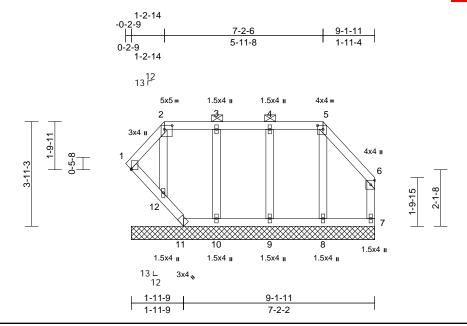
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733487 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:WuPvw_K5D?BSPYtnZnshOfz9aJ0-RfC?PsB70Hq3NSgPqnL8w3uITXbG

KWrCDoM34QQf



Scale = 1:43.3

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|-----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.08 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.03 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.07 | Horiz(TL) | 0.00 | 6 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | [| | | | | | | | | Weight: 48 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2 **WEBS** 2x4 SP No.2 **OTHERS** 2x4 SPF No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-5

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

bracing.

REACTIONS (size)

1=9-1-11, 6=9-1-11, 7=9-1-11, 8=9-1-11, 9=9-1-11, 10=9-1-11,

11=9-1-11, 12=9-1-11

Max Horiz 1=101 (LC 13)

Max Uplift 1=-101 (LC 15), 6=-63 (LC 15),

8=-4 (LC 11), 9=-47 (LC 11), 10=-45 (LC 11), 11=-16 (LC 10),

12=-95 (LC 11)

1=123 (LC 27), 6=133 (LC 27), Max Grav

7=31 (LC 5), 8=206 (LC 33), 9=254 (LC 32), 10=246 (LC 33), 11=37

(LC 13), 12=184 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-172/158, 2-3=-120/121, 3-4=-120/121,

4-5=-120/121, 5-6=-150/122, 6-7=0/0 **BOT CHORD** 1-12=-49/58, 11-12=-46/69, 10-11=-28/39,

9-10=-28/39, 8-9=-28/39, 7-8=-28/39 **WEBS** 5-8=-169/38, 4-9=-213/70, 3-10=-210/67,

2-12=-148/98

NOTES

Unbalanced roof live loads have been considered for

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 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, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding. Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 6, 101 lb uplift at joint 1, 16 lb uplift at joint 11, 4 lb uplift at joint 8, 47 lb uplift at joint 9, 45 lb uplift at joint 10 and 95 lb uplift at joint 12.
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 12.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

LOAD CASE(S) Standard



June 6,2023



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 chorembers 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



Job Truss Truss Type Qtv Ply P210577 LG05 Lay-In Gable Job Reference (optional

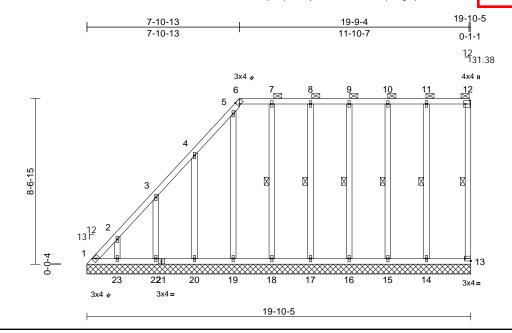
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 🗗 ID:iYdwMNtKdqs4ITpQikAEj8z9aIJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWCDoi7J-

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 158733488

LEE'S SUMMIT. MISSOURI



Scale = 1:59.6

Plate Offsets (X, Y): [6:0-1-7,Edge], [12:Edge,0-3-1], [13:Edge,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 | 0.80 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.27 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.42 | Horiz(TL) | 0.00 | 13 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 139 lb | FT = 20% |

LUMBER

2x4 SP No 2 TOP CHORD BOT CHORD 2x4 SP No 2 **WEBS** 2x4 SPF No.3 **OTHERS** 2x4 SPF No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-12.

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

bracing.

WEBS 12-13, 11-14, 10-15, 1 Row at midpt

9-16, 8-17, 7-18

REACTIONS (size)

1=19-10-5, 13=19-10-5, 14=19-10-5, 15=19-10-5,

16=19-10-5, 17=19-10-5, 18=19-10-5, 19=19-10-5, 20=19-10-5, 22=19-10-5,

23=19-10-5 Max Horiz 1=352 (LC 11)

1=-152 (LC 12), 13=-21 (LC 11), Max Uplift

14=-51 (LC 10), 15=-44 (LC 11), 16=-41 (LC 10), 17=-45 (LC 10), 18=-58 (LC 11), 19=-124 (LC 11),

20=-158 (LC 14), 22=-142 (LC 14),

23=-129 (LC 14)

1=289 (LC 11), 13=109 (LC 2), Max Grav 14=274 (LC 33), 15=234 (LC 2), 16=241 (LC 2), 17=240 (LC 33),

18=244 (LC 33), 19=262 (LC 25), 20=272 (LC 25), 22=273 (LC 25),

23=244 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-598/605, 2-3=-497/517, 3-4=-374/403,

4-5=-258/298, 5-6=-180/149, 6-7=-162/176, 7-8=-162/176, 8-9=-162/176, 9-10=-162/176,

10-11=-162/176, 11-12=-162/176,

12-13=-148/102

BOT CHORD 1-23=-161/176, 22-23=-161/176,

20-22=-161/176, 19-20=-161/176, 18-19=-161/176, 17-18=-161/176, 16-17=-161/176, 15-16=-161/176,

14-15=-161/176, 13-14=-161/176 **WEBS** 11-14=-259/117, 10-15=-195/72,

9-16=-201/65. 8-17=-200/70. 7-18=-204/82.

5-19=-338/216, 4-20=-270/182, 3-22=-256/167, 2-23=-222/146

NOTES

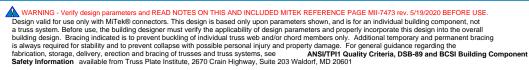
- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-0 to 5-7-0, Interior (1) 5-7-0 to 7-11-1, Exterior(2R) 7-11-1 to 14-11-14, Interior (1) 14-11-14 to 19-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.

- 8) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 152 lb uplift at joint 1, 21 lb uplift at joint 13, 51 lb uplift at joint 14, 44 lb uplift at joint 15, 41 lb uplift at joint 16, 45 lb uplift at joint 17, 58 lb uplift at joint 18, 124 lb uplift at joint 19, 158 lb uplift at joint 20, 142 lb uplift at joint 22 and 129 lb uplift at joint 23.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard









Job Truss Truss Type Qty Ply P210577 LG06 Lay-In Gable Job Reference (optiona

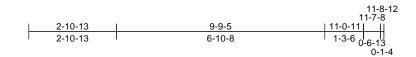
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733489 LEE'S SUMMIT. MISSOURI

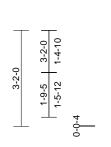
RELEASE FOR CONSTRUCTION

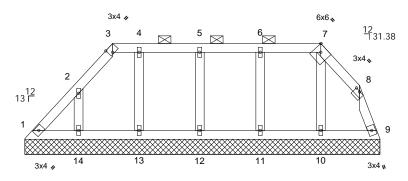
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:2WRpP4wTSMUMPEiOVHmPQCz9aIE-RfC?PsB70Hq3NSgPqnL8w3uIT

8/2 (bGKWrOD)







11-8-12

Scale = 1:38.1

Plate Offsets (X, Y): [3:0-1-7,Edge], [7:0-2-9,Edge], [8:0-2-0,0-0-3]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defI | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|-----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.08 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.04 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.06 | Horiz(TL) | 0.00 | 9 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 52 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-7.

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

REACTIONS (size) 1=11-8-12, 9=11-8-12, 10=11-8-12, 11=11-8-12, 12=11-8-12, 13=11-8-12, 14=11-8-12

Max Horiz 1=91 (LC 11)

Max Uplift 1=-52 (LC 15), 9=-58 (LC 15),

10=-12 (LC 10), 11=-50 (LC 11),

12=-53 (LC 10), 13=-52 (LC 11),

14=-96 (LC 14)

Max Grav 1=149 (LC 26), 9=162 (LC 26),

10=168 (LC 32), 11=256 (LC 31), 12=245 (LC 32), 13=223 (LC 31),

14=240 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-164/93, 2-3=-153/100, 3-4=-112/93,

4-5=-112/93, 5-6=-112/93, 6-7=-112/93,

7-8=-128/85. 8-9=-160/76

BOT CHORD 1-14=-13/53, 13-14=-13/53, 12-13=-13/53, 11-12=-13/53, 10-11=-13/53, 9-10=-13/53

WEBS 7-10=-124/26, 6-11=-215/73, 5-12=-205/76,

4-13=-183/77, 2-14=-195/112

NOTES

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-0 to 2-11-1, Exterior(2R) 2-11-1 to 7-9-9. Interior (1) 7-9-9 to 9-9-9. Exterior(2E) 9-9-9 to 11-6-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 1, 58 lb uplift at joint 9, 12 lb uplift at joint 10, 50 lb uplift at joint 11, 53 lb uplift at joint 12, 52 lb uplift at joint 13 and 96 lb uplift at joint 14.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard





RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW Job Truss Truss Type Qtv Ply DEVELOPMENT SERVICES 158733490 P210577 LG07 Lay-In Gable LEE'S SUMMIT. MISSOURI Job Reference (optiona

18

17 13∟ 12

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 kWrCDoir-4292/f ID:HFTDI916K7d5_cu6WgQXH5z9al5-RfC?PsB70Hq3NSgPqnL8w3ulTXbG

8-7-10

1-6-5 -0-2-9 H 14-4-12 12-10-8 0-2-9 1-6-5 13 4x6= 4x4 II 4

4x6= 3x4 7-11-10 14-4-12 7-11-10 6-5-2

1514

13

12

Scale = 1:79.6

Plate Offsets (X, Y): [1:0-0-7,0-0-14], [3:0-1-7,Edge], [10:Edge,0-2-0], [11:Edge,0-2-0]

10-9-0

| 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 | TC | 0.86 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.40 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.17 | Horiz(TL) | -0.01 | 11 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 122 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No.2 **WEBS** 2x4 SP No.2 **OTHERS** 2x4 SPF No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-10.

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

bracing, Except: 6-0-0 oc bracing: 1-18,16-17.

WEBS 10-11, 9-12, 8-13, 7-14, 1 Row at midpt

18=14-4-12

6-16

REACTIONS (size) 1=14-4-12, 11=14-4-12,

12=14-4-12, 13=14-4-12, 14=14-4-12, 15=14-4-12, 16=14-4-12, 17=14-4-12,

Max Horiz 1=339 (LC 13)

11=-22 (LC 11), 12=-57 (LC 10),

13=-52 (LC 11), 14=-61 (LC 10), 15=-120 (LC 10), 16=-50 (LC 11), 17=-81 (LC 10), 18=-168 (LC 11)

Max Grav 1=114 (LC 2), 11=94 (LC 2),

12=248 (LC 2), 13=243 (LC 2), 14=231 (LC 2), 15=170 (LC 13), 16=245 (LC 2), 17=214 (LC 2),

18=318 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-254/234, 2-3=-237/244, 3-4=-197/215,

4-5=-197/215, 5-6=-197/215, 6-7=-197/215, 7-8=-197/215, 8-9=-197/215, 9-10=-197/215,

10-11=-193/159

BOT CHORD 1-18=-310/321, 17-18=-304/330,

16-17=-306/327, 15-16=-303/333, 14-15=-197/216, 13-14=-197/216, 12-13=-197/216, 11-12=-197/216

WEBS 9-12=-287/153. 8-13=-202/77. 7-14=-198/63.

6-16=-204/69, 5-17=-195/99, 4-18=-408/240

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-6 to 1-8-13, Exterior(2R) 1-8-13 to 8-7-5. Interior (1) 8-7-5 to 14-5-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 11, 120 lb uplift at joint 15, 57 lb uplift at joint 12, 52 lb uplift at joint 13, 61 lb uplift at joint 14, 50 lb uplift at joint 16, 81 lb uplift at joint 17 and 168 lb uplift at joint 18.

- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 16, 17, 18.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard





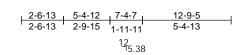


Job Truss Truss Type Qtv Ply P210577 LG08 Lay-In Gable

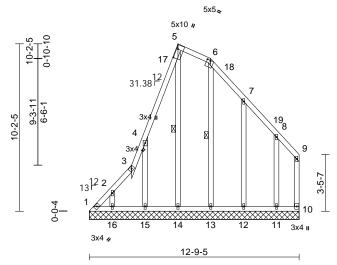
DEVELOPMENT SERVICES 158733491 LEE'S SUMMIT. MISSOURI Job Reference (optiona Mon Jun 65 9:09 VrCDoi7 42 John Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 🚯

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

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



ID:eCH6Lt5F9fFN4Nm4JD0i_9z9al0-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK



Scale = 1:70.2

Plate Offsets (X, Y): [5:0-6-15,0-0-15], [6:0-2-8,0-0-6]

| 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 | 0.36 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.13 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.39 | Horiz(TL) | 0.00 | 10 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 95 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 **WEBS** 2x4 SPF No.3 **OTHERS** 2x4 SPF No.3

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.

WEBS 1 Row at midpt 5-14, 6-13

1=12-9-5, 10=12-9-5, 11=12-9-5, REACTIONS (size)

12=12-9-5, 13=12-9-5, 14=12-9-5,

15=12-9-5, 16=12-9-5 Max Horiz 1=-328 (LC 12)

Max Uplift 1=-201 (LC 14), 10=-33 (LC 16),

11=-186 (LC 17), 12=-155 (LC 17),

14=-334 (LC 15), 15=-472 (LC 16),

16=-190 (LC 12)

1=203 (LC 13), 10=105 (LC 32), Max Grav

11=288 (LC 30), 12=285 (LC 30), 13=270 (LC 23), 14=645 (LC 12),

15=308 (LC 29), 16=300 (LC 30)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=-349/373, 2-3=-423/496, 3-4=-387/545,

4-5=-459/815, 5-6=-204/407, 6-7=-265/469,

7-8=-185/270, 8-9=-101/95, 9-10=-94/67 1-16=-81/103, 15-16=-81/103,

14-15=-81/103, 13-14=-81/103,

12-13=-81/103, 11-12=-81/103,

10-11=-81/103 5-14=-788/373, 4-15=-447/778,

2-16=-277/257, 6-13=-230/8, 7-12=-250/248,

8-11=-212/222

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-0 to 2-7-1, Interior (1) 2-7-1 to 5-5-0, Exterior(2E) 5-5-0 to 12-7-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 201 lb uplift at joint 1, 33 lb uplift at joint 10, 334 lb uplift at joint 14, 472 Ib uplift at joint 15, 190 lb uplift at joint 16, 155 lb uplift at joint 12 and 186 lb uplift at joint 11.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023



WEBS

BOT CHORD



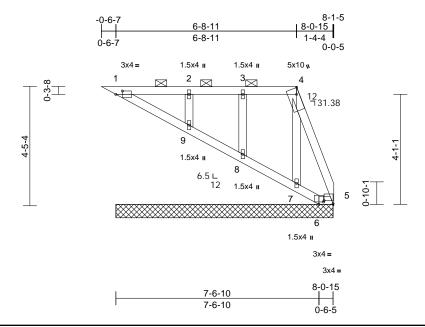
Job Truss Truss Type Qtv Ply P210577 LG09 Lay-In Gable

Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733492 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Non Jun **♀**9:/6**)** ID:Ev7OHfG1sz0OmXrm8AG_Y6z9aHo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoil



Scale = 1:42.8

Plate Offsets (X, Y): [1:0-2-15,0-1-8], [4:0-2-14,Edge], [5:0-4-0,0-1-6], [6:0-2-0,0-1-1]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|-----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.21 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.06 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.08 | Horiz(TL) | 0.00 | 5 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 39 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 1-4. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

REACTIONS (size) 1=8-0-15, 5=8-0-15, 6=8-0-15,

7=8-0-15, 8=8-0-15, 9=8-0-15

Max Horiz 1=-177 (LC 15)

Max Uplift 1=-12 (LC 11), 5=-45 (LC 15), 6=-40 (LC 15), 8=-38 (LC 10), 9=-54 (LC 14)

Max Grav 1=144 (LC 2), 5=135 (LC 27), 6=25

(LC 13), 7=131 (LC 2), 8=233 (LC

33), 9=335 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-100/135, 2-3=-99/134, 3-4=-100/127, TOP CHORD

4-5=-112/65

BOT CHORD 1-9=-81/98, 8-9=-73/100, 7-8=-75/99,

6-7=-66/99, 5-6=-58/82 4-7=-95/57, 3-8=-198/178, 2-9=-279/261

WEBS

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 1, 40 lb uplift at joint 6, 45 lb uplift at joint 5, 38 lb uplift at joint 8 and 54 lb uplift at joint 9.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 7, 8, 9.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard



June 6,2023





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



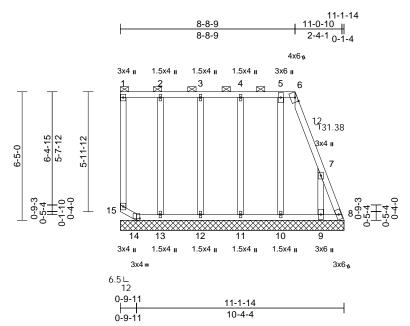
Job Truss Truss Type Qtv Ply P210577 LG10 Lay-In Gable Job Reference (optiona

DEVELOPMENT SERVICES 158733493 LEE'S SUMMIT. MISSOURI **1**99:**/**€

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 🚯 ID:32UfYjLnRpmYUSIwUQNOoNz9aHi-RfC?PsB70Hq3NSgPqnL8w3ulTXbQKWrCDo



Scale = 1:57.4

Plate Offsets (X, Y): [6:0-2-12,Edge], [14:0-2-0,0-1-1]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|-----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.39 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.17 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.40 | Horiz(TL) | 0.00 | 8 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 75 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No.2 **WEBS** 2x4 SPF No.3 **OTHERS** 2x4 SPF No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-10-4 oc purlins, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 1-6

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

bracing.

REACTIONS (size)

8=11-1-14, 9=11-1-14, 10=11-1-14, 11=11-1-14, 12=11-1-14, 13=11-1-14, 14=11-1-14,

15=11-1-14

Max Horiz 15=-248 (LC 10)

8=-397 (LC 13), 9=-457 (LC 15),

10=-254 (LC 10), 11=-94 (LC 11), 12=-45 (LC 10), 13=-61 (LC 10), 14=-162 (LC 15), 15=-28 (LC 13)

Max Grav 8=484 (LC 10), 9=439 (LC 13),

10=327 (LC 26), 11=233 (LC 27), 12=243 (LC 2), 13=242 (LC 2), 14=56 (LC 13), 15=146 (LC 28)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-15=-88/106, 1-2=-116/126, 2-3=-116/126,

3-4=-116/126, 4-5=-116/126, 5-6=-116/126, 6-7=-338/329, 7-8=-958/865

BOT CHORD 14-15=-294/356, 13-14=-310/362,

12-13=-310/362, 11-12=-310/362, 10-11=-310/362, 9-10=-310/362,

8-9=-310/362

WEBS 2-13=-207/187, 3-12=-202/180,

4-11=-194/180, 5-10=-525/545, 7-9=-629/649

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 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, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 15, 397 lb uplift at joint 8, 162 lb uplift at joint 14, 61 lb uplift at joint 13, 45 lb uplift at joint 12, 94 lb uplift at joint 11, 254 lb uplift at joint 10 and 457 lb uplift at joint 9.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 15.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard

SEVIER PE-2001018807 SSIONAL

June 6,2023

OF MISS

SCOTT M.





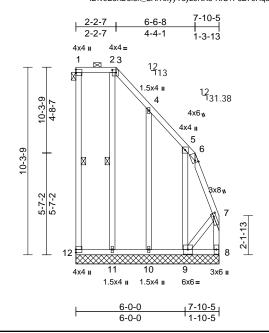
Job Truss Truss Type Qtv Ply P210577 LG11 Lay-In Gable Job Reference (optiona

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

LEE'S SUMMIT. MISSOURI Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:v0E5nDof8h_SAiTtxyyYsyz9NX8-RfC?PsB70Hq3NSgPqnL8w3uITXbGK rCDoi7J

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 158733494



Scale = 1:63.2

Plate Offsets (X, Y): [3:0-2-8,0-1-12], [6:0-1-3,Edge], [7:0-2-4,0-1-8]

| 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 | 0.79 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.35 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.60 | Horiz(TL) | 0.00 | 8 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 77 lb | FT = 20% |

LUMBER

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

WEBS 2x4 SPF No.3 *Except* 12-1:2x4 SP No.2

OTHERS 2x4 SPF No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-5-6 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-3.

BOT CHORD Rigid ceiling directly applied or 7-6-6 oc

bracing.

WEBS 1 Row at midpt 1-12, 2-11

REACTIONS (size) 8=7-10-5, 9=7-10-5, 10=7-10-5,

11=7-10-5, 12=7-10-5 Max Horiz 12=-419 (LC 10)

Max Uplift 8=-618 (LC 13), 9=-817 (LC 10),

10=-69 (LC 15), 11=-127 (LC 10),

12=-25 (LC 10)

8=945 (LC 10), 9=788 (LC 13), Max Grav

10=246 (LC 26), 11=249 (LC 26),

12=96 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-12=-185/149, 1-2=-190/207, 2-3=-190/207, 3-4=-283/292, 4-5=-324/362, 5-6=-905/938,

6-7=-998/997, 7-8=-1534/1468

BOT CHORD 11-12=-538/556, 10-11=-538/556, 9-10=-538/556, 8-9=-49/56

WEBS 2-11=-478/334, 4-10=-243/130,

5-9=-883/785, 7-9=-830/847

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 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, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding. Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 12, 618 lb uplift at joint 8, 127 lb uplift at joint 11, 69 lb uplift at joint 10 and 817 lb uplift at joint 9.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard









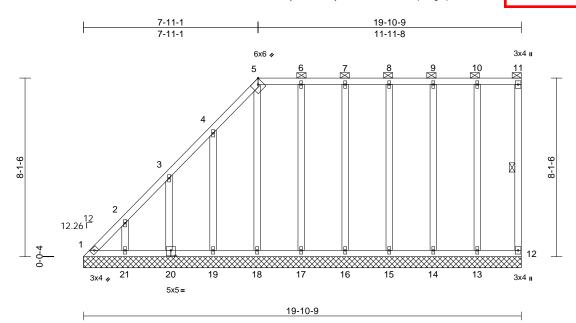
Job Truss Truss Type Qtv Ply P210577 LG12 Lay-In Gable Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733495 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Non Jun VrCDoi7 WJQ ID:ULR3ssRJiyZ?k21A7GzyJrz9aF?-RfC?PsB70Hq3NSgPqnL8w3uITXbGK



Scale = 1:52.3

Plate Offsets (X, Y): [5:0-2-8,Edge], [20:0-2-8,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|-----------|------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.71 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.24 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.37 | Horiz(TL) | 0.00 | 12 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 135 lb | FT = 20% |

TOP CHORD

LUMBER

BOT CHORD 2x4 SP No.2 **WEBS** 2x4 SPF No.3 **OTHERS** 2x4 SPF No.3

BRACING

TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-11.

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

2x4 SP No 2

bracing, Except: 6-0-0 oc bracing: 19-20,18-19.

WEBS 1 Row at midpt 11-12

REACTIONS (size)

1=19-10-9, 12=19-10-9, 13=19-10-9, 14=19-10-9, 15=19-10-9, 16=19-10-9, 17=19-10-9, 18=19-10-9, 19=19-10-9, 20=19-10-9,

21=19-10-9 Max Horiz 1=334 (LC 11)

Max Uplift 1=-106 (LC 12), 12=-19 (LC 11),

13=-48 (LC 10), 14=-45 (LC 11), 15=-42 (LC 10), 16=-40 (LC 10), 17=-46 (LC 11), 18=-109 (LC 11),

19=-142 (LC 14), 20=-127 (LC 14), 21=-127 (LC 14)

1=253 (LC 11), 12=92 (LC 2), Max Grav 13=250 (LC 2), 14=240 (LC 2),

15=240 (LC 2), 16=239 (LC 2), 17=247 (LC 2), 18=232 (LC 25), 19=281 (LC 25), 20=256 (LC 25),

21=262 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-538/547, 2-3=-437/455, 3-4=-332/364,

4-5=-228/250, 5-6=-154/167, 6-7=-154/167, 7-8=-154/167, 8-9=-154/167, 9-10=-154/167, 10-11=-154/167, 11-12=-139/100

BOT CHORD 1-21=-148/164, 19-21=-154/167, 18-19=-154/167, 17-18=-153/167,

16-17=-153/167, 15-16=-153/167, 14-15=-153/167. 13-14=-153/167.

12-13=-153/167 WERS

10-13=-241/111, 9-14=-200/71,

8-15=-200/64, 7-16=-199/65, 6-17=-207/70, 5-18=-304/188, 4-19=-261/165, 3-20=-237/152, 2-21=-230/146

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-3 to 5-4-3, Interior (1) 5-4-3 to 7-11-5, Exterior(2R) 7-11-5 to 15-0-3, Interior (1) 15-0-3 to 19-9-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding. All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 106 lb uplift at joint 1, 19 lb uplift at joint 12, 48 lb uplift at joint 13, 45 lb uplift at joint 14, 42 lb uplift at joint 15, 40 lb uplift at joint 16, 46 lb uplift at joint 17, 109 lb uplift at joint 18, 142 lb uplift at joint 19, 127 lb uplift at joint 20 and 127 lb uplift at joint 21.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard







Job Truss Truss Type Qtv Ply P210577 LG13 Lay-In Gable Job Reference (optiona

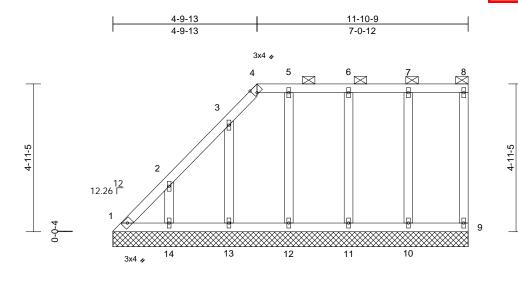
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733496 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 🗗 ID:nhMiKGWi26S?473W1Ebb5Kz9aEu-RfC?PsB70Hq3NSgPqnL8w3uITXb0

KWrCD



Scale = 1:38.5

Plate Offsets (X, Y): [4:0-1-8,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 | TC | 0.26 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.09 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.11 | Horiz(TL) | 0.00 | 9 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 63 lb | FT = 20% |

11-10-9

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No.2 **WEBS** 2x4 SPF No.3 **OTHERS** 2x4 SPF No.3

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-8.

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=11-10-9, 9=11-10-9, 10=11-10-9,

11=11-10-9, 12=11-10-9, 13=11-10-9, 14=11-10-9

Max Horiz 1=198 (LC 11)

Max Uplift 1=-52 (LC 10), 9=-18 (LC 11),

10=-42 (LC 10), 11=-48 (LC 10),

12=-68 (LC 11), 13=-87 (LC 14),

14=-139 (LC 14)

Max Grav 1=153 (LC 13), 9=93 (LC 2),

10=250 (LC 2), 11=237 (LC 2), 12=241 (LC 2), 13=265 (LC 25),

14=259 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-329/347, 2-3=-227/255, 3-4=-137/107,

4-5=-97/104, 5-6=-97/104, 6-7=-97/104, 7-8=-97/104, 8-9=-93/50

BOT CHORD 1-14=-95/104, 13-14=-95/104,

12-13=-95/104, 11-12=-95/104, 10-11=-95/104, 9-10=-95/104

WEBS 7-10=-209/82, 6-11=-198/77, 5-12=-232/110,

3-13=-292/176, 2-14=-258/158

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 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, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding. All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 6)
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 1, 18 lb uplift at joint 9, 42 lb uplift at joint 10, 48 lb uplift at joint 11, 68 lb uplift at joint 12, 87 lb uplift at joint 13 and 139 lb uplift at joint 14.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 6,2023



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 chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Ply P210577 LG14 Lay-In Gable Job Reference (optiona

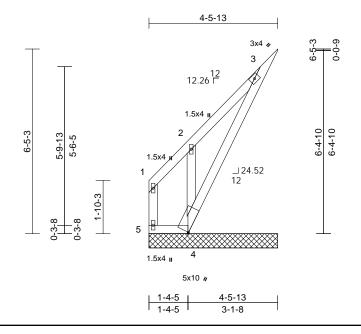
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:8eAbNzaqte4IAuxTqnBmoNz9aEp-RfC?PsB70Hq3NSgPqnL8w3uITXbGh

LEE'S SUMMIT. MISSOURI Mon Jun 05) 9:/22 WrCDoi794256?

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 158733497



Scale = 1:40.2

Plate Offsets (X, Y): [4:0-0-9,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 | TC | 0.13 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.11 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.07 | Horiz(TL) | -0.01 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | [| | | | | | | | | Weight: 26 lb | FT = 20% |

LUMBER

2x4 SP No 2 TOP CHORD BOT CHORD 2x4 SP No.2 **WEBS** 2x4 SPF No.3 **OTHERS** 2x4 SPF No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-6-6 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 8-2-5 oc

REACTIONS (size) 3=4-5-13, 4=4-5-13, 5=4-5-13

Max Horiz 5=147 (LC 14)

Max Uplift 3=-243 (LC 14), 5=-13 (LC 11)

Max Grav 3=225 (LC 25), 4=293 (LC 26),

5=54 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-5=-69/58, 1-2=-68/80, 2-3=-290/254

BOT CHORD 4-5=-214/198, 3-4=-521/504

WEBS 2-4=-357/210

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 5 and 243 lb uplift at joint 3.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023



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 chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Qty Job Truss Truss Type Ply P210577 LG15 Lay-In Gable

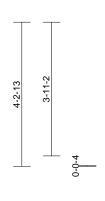
DEVELOPMENT SERVICES 158733498 LEE'S SUMMIT. MISSOURI Job Reference (optiona

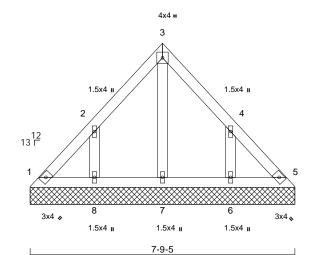
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun ID:zoXte0fbTUrRupPdA2IA1ez9aEj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV rCDoi7J







Scale = 1:33.8

| Loading | (psf) | Spacing | 2-0-0 | csı | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|-----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.09 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.03 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.06 | Horiz(TL) | 0.00 | 5 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 35 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=7-9-5, 5=7-9-5, 6=7-9-5, 7=7-9-5, 8=7-9-5

Max Horiz 1=-111 (LC 12)

1=-26 (LC 10), 5=-9 (LC 11), Max Uplift

6=-160 (LC 15), 8=-160 (LC 14)

1=125 (LC 27), 5=117 (LC 28), Max Grav 6=296 (LC 26), 7=147 (LC 28),

8=296 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-132/100, 2-3=-142/80, 3-4=-136/76,

4-5=-121/86

BOT CHORD 1-8=-55/97, 7-8=-55/97, 6-7=-55/97,

5-6=-55/97

WEBS 3-7=-106/5, 2-8=-302/184, 4-6=-302/184

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 1, 9 lb uplift at joint 5, 160 lb uplift at joint 8 and 160 lb
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard







Job Truss Truss Type Qtv Ply P210577 LG16 Lay-In Gable

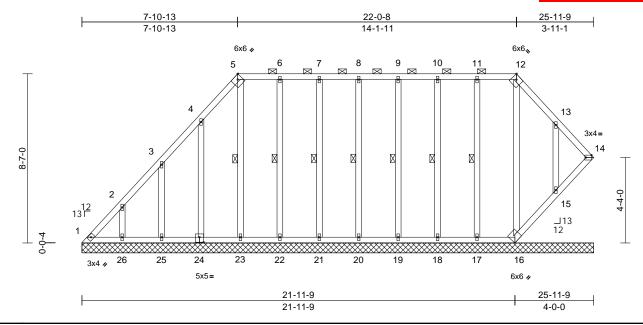
Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733499 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:rZmNTOi6WjLtNQiOPtN6CUz9aEf-RfC?PsB70Hq3NSgPqnL8w3ulTXbGi

WrCDoi



Scale = 1:58.4

Plate Offsets (X, Y): [5:0-2-9,Edge], [12:0-2-9,Edge], [14:Edge,0-1-8], [24:0-2-8,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|-----------|------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.10 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.19 | Horiz(TL) | 0.00 | 14 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 178 lb | FT = 20% |

LUMBER TOP CHORD

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-12.

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

bracing.

2x4 SP No 2

WEBS 11-17, 10-18, 9-19, 8-20, 1 Row at midpt

7-21, 6-22, 5-23

REACTIONS (size) 1=25-11-9, 14=25-11-9, 15=25-11-9, 16=25-11-9,

> 17=25-11-9. 18=25-11-9. 19=25-11-9, 20=25-11-9,

21=25-11-9, 22=25-11-9 23=25-11-9. 24=25-11-9. 25=25-11-9, 26=25-11-9

Max Horiz 1=259 (LC 14)

Max Uplift

1=-68 (LC 12), 14=-68 (LC 11), 15=-153 (LC 15), 16=-64 (LC 10),

17=-42 (LC 11), 18=-40 (LC 10), 19=-39 (LC 10), 20=-39 (LC 11), 21=-39 (LC 10), 22=-46 (LC 10),

23=-16 (LC 11), 24=-145 (LC 14), 25=-144 (LC 14), 26=-146 (LC 14)

Max Grav 1=245 (LC 14), 14=196 (LC 28), 15=297 (LC 26), 16=169 (LC 26), 17=252 (LC 31), 18=239 (LC 31),

19=240 (LC 32), 20=240 (LC 31), 21=237 (LC 2), 22=260 (LC 32), 23=194 (LC 28), 24=275 (LC 25),

25=266 (LC 25), 26=279 (LC 25) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=-352/228, 2-3=-229/153, 3-4=-162/100, 4-5=-168/126, 5-6=-120/108, 6-7=-120/108, 7-8=-120/108, 8-9=-120/108, 9-10=-120/108,

10-11=-120/108, 11-12=-120/108, 12-13=-168/112, 13-14=-126/78

BOT CHORD 1-26=-40/75, 25-26=-40/75, 23-25=-41/76, 22-23=-41/74, 21-22=-41/74, 20-21=-41/74

19-20=-41/74, 18-19=-41/74, 17-18=-41/74. 16-17=-41/74, 15-16=-71/127, 14-15=-77/120

WERS 12-16=-147/24, 11-17=-211/67 10-18=-199/64, 9-19=-200/63, 8-20=-200/63,

7-21=-197/63, 6-22=-221/69, 5-23=-153/41, 4-24=-245/169, 3-25=-246/168, 2-26=-243/164, 13-15=-258/176

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-0 to 5-4-0, Interior (1) 5-4-0 to 7-11-1, Exterior(2R) 7-11-1 to 14-11-14, Interior (1) 14-11-14 to 22-0-12, Exterior(2E) 22-0-12 to 25-9-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding. All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.

- 8) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 1, 68 lb uplift at joint 14, 64 lb uplift at joint 16, 42 lb uplift at joint 17, 40 lb uplift at joint 18, 39 lb uplift at joint 19, 39 lb uplift at joint 20, 39 lb uplift at joint 21, 46 lb uplift at joint 22, 16 lb uplift at joint 23, 145 lb uplift at joint 24, 144 lb uplift at joint 25, 146 lb uplift at joint 26 and 153 lb uplift at joint 15.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 14, 15.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard





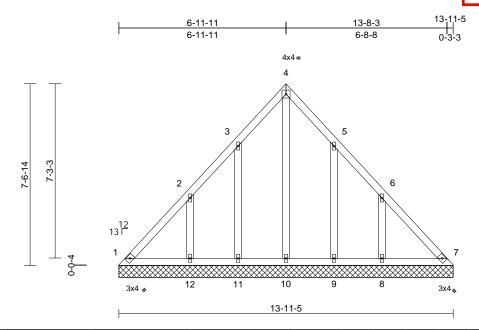


Job Truss Truss Type Qtv Ply P210577 LG17 Lay-In Gable Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733500 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:CXaGX5mELFzATBbMCRyHvYz9aEa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCbb1792b0



Scale = 1:48

| 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 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.06 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.17 | Horiz(TL) | 0.00 | 7 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | 1 | | | | | | | | | Weight: 75 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=13-11-5, 7=13-11-5, 8=13-11-5, 9=13-11-5, 10=13-11-5,

11=13-11-5, 12=13-11-5

Max Horiz 1=206 (LC 11)

Max Uplift 1=-45 (LC 10), 7=-13 (LC 11),

8=-198 (LC 15), 9=-127 (LC 15),

11=-129 (LC 14), 12=-197 (LC 14)

Max Grav 1=225 (LC 27), 7=210 (LC 28),

8=372 (LC 26), 9=247 (LC 26),

10=207 (LC 28), 11=249 (LC 25),

12=371 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-245/182, 2-3=-188/95, 3-4=-191/148, 4-5=-191/140, 5-6=-155/51, 6-7=-216/159

BOT CHORD 1-12=-117/191, 11-12=-117/191,

10-11=-117/191, 9-10=-117/191.

8-9=-117/191, 7-8=-117/191

WEBS 4-10=-163/56, 3-11=-236/154

2-12=-341/217, 5-9=-236/153, 6-8=-341/218

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-0 to 5-4-0, Interior (1) 5-4-0 to 6-11-14, Exterior(2R) 6-11-14 to 11-11-14, Interior (1) 11-11-14 to 13-7-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 1, 13 lb uplift at joint 7, 129 lb uplift at joint 11, 197 lb uplift at joint 12, 127 lb uplift at joint 9 and 198 lb uplift at ioint 8.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



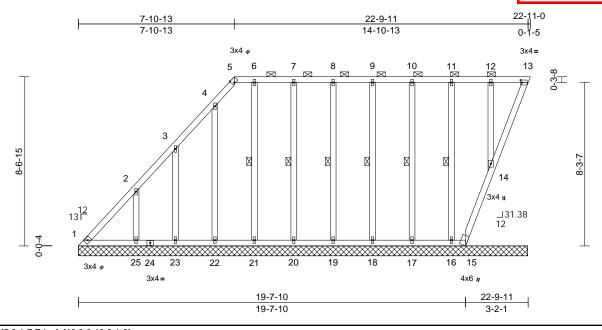




Job Truss Truss Type Qtv Ply P210577 LG18 Lay-In Gable Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733501 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 E Nov 21 2022 Print: 8.630 E Nov 21 2022 MiTek Industries, Inc. Mon Jun ID:4lpnMTplPUTbypu7RG1D3Oz9aEW-zfaj47n30hMf?PXFSMcaFKncEIRSe



Scale = 1:58.4

Plate Offsets (X, Y): [5:0-1-7,Edge], [13:0-0-13,0-1-8]

| 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 | 0.16 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.06 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.23 | Horiz(TL) | -0.01 | 13 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 158 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-13.

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

bracing.

WEBS 1 Row at midpt 11-16, 10-17, 9-18, 8-19,

7-20, 6-21

REACTIONS All bearings 22-9-6.

(lb) - Max Horiz 1=368 (LC 14)

Max Uplift All uplift 100 (lb) or less at joint(s) 1, 13, 14, 15, 16, 17, 18, 19, 20, 21

except 22=-113 (LC 14), 23=-134 (LC 14), 25=-192 (LC 14)

Max Grav All reactions 250 (lb) or less at joint (s) 13, 15, 16, 17, 18, 19, 20, 21,

22, 23 except 1=284 (LC 14), 14=265 (LC 2), 25=366 (LC 26)

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

TOP CHORD 1-2=-416/352 **WEBS** 2-25=-318/211

NOTES

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-0 to 5-4-0, Interior (1) 5-4-0 to 7-11-1, Exterior(2R) 7-11-1 to 12-11-4, Interior (1) 12-11-4 to 22-9-14 zone; cantilever left and right exposed; end vertical left and right exposed C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 15, 14, 16, 17, 18, 19, 20, 21 except (jt=lb) 22=113, 23=133, 25=192.
- 10) N/A
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 6,2023

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 chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW Job Truss Truss Type Qtv Ply DEVELOPMENT SERVICES 158733502 P210577 LG19 Lay-In Gable LEE'S SUMMIT. MISSOURI Job Reference (optiona

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

9:/4 Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 🚯 KWrCDoirJ4230?f ID:8BDSWb_9t5MTF6Y0pwolAYz9aEH-RfC?PsB70Hq3NSgPqnL8w3ulTXb0

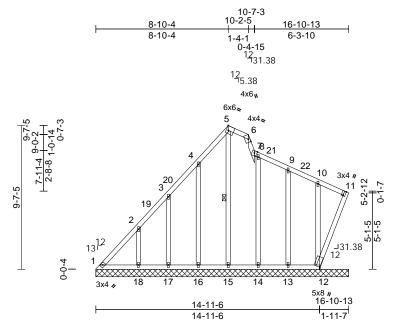


Plate Offsets (X, Y): [5:Edge,0-3-8], [6:0-2-7,Edge], [11:Edge,0-1-8], [12:0-1-10,0-0-6]

| 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 | 0.13 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.06 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.29 | Horiz(TL) | 0.01 | 11 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | 1 | | | | | | | Weight: 112 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

WEBS 1 Row at midpt

REACTIONS (size)

1=16-10-13, 11=16-10-13, 12=16-10-13, 13=16-10-13, 14=16-10-13, 15=16-10-13,

> 16=16-10-13, 17=16-10-13, 18=16-10-13

Max Horiz 1=281 (LC 16)

1=-65 (LC 12), 12=-358 (LC 17),

13=-75 (LC 17), 14=-84 (LC 17), 16=-154 (LC 16), 17=-128 (LC 16),

18=-189 (LC 16)

Max Grav 1=279 (LC 31), 11=330 (LC 32),

12=159 (LC 48), 13=285 (LC 46), 14=289 (LC 23), 15=205 (LC 32), 16=289 (LC 29), 17=238 (LC 29),

18=360 (LC 29)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-397/252, 2-3=-236/164, 3-4=-156/123,

4-5=-129/158, 5-6=-84/161, 6-7=-125/140, 7-8=-90/118, 8-9=-80/71, 9-10=-86/30,

10-11=-117/41

BOT CHORD 1-18=-25/99, 17-18=-25/99, 16-17=-25/99,

15-16=-25/99, 14-15=-25/99, 13-14=-25/99,

12-13=-26/100, 11-12=-87/299

WEBS

5-15=-166/22, 4-16=-247/231, 3-17=-208/203, 2-18=-292/243, 8-14=-250/118, 9-13=-243/114,

10-12=-185/120

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-0 to 5-4-0, Interior (1) 5-4-0 to 8-10-7, Exterior (2E) 8-10-7 to 10-7-7, Interior (1) 10-7-7 to 16-6-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 1, 154 lb uplift at joint 16, 128 lb uplift at joint 17, 189 lb uplift at joint 18, 84 lb uplift at joint 14, 75 lb uplift at joint 13 and 358 lb uplift at joint 12.

- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard







RELEASE FOR CONSTRUCTION Job Truss Truss Type Qtv Ply P210577 LG20 Lay-In Gable Job Reference (optiona

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 15

12

14-0-11

3-10-1

3x4 A

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S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733503 LEE'S SUMMIT. MISSOURI

KWrCDd

3-4-10 9-8-7 14-0-11 3-4-10 6-3-13 4-4-4 6x6 6x6 A 3 4 5 6 M 8 31.39 ¹² 9 Ø 2 4-1-14 16 15 14 13 12 11 13

Scale = 1:57.2

Plate Offsets (X, Y): [3:0-2-12,Edge], [7:0-2-9,Edge], [9:Edge,0-1-8]

3-10-8

| 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 | 0.18 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.19 | Horiz(TL) | 0.00 | 9 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 103 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD

NOTES

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-7.

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

bracing

7-12, 6-13, 5-14, 4-15

WFRS 1 Row at midpt

1=14-0-11, 9=14-0-11, 10=14-0-11, REACTIONS (size) 11=14-0-11, 12=14-0-11,

13=14-0-11, 14=14-0-11, 15=14-0-11 16=14-0-11

Max Horiz 1=261 (LC 14)

1=-200 (LC 12), 9=-149 (LC 11),

10=-174 (LC 15), 11=-138 (LC 10), 12=-66 (LC 10), 13=-41 (LC 11),

14=-55 (LC 10), 16=-605 (LC 14) Max Grav 1=445 (LC 14), 9=316 (LC 25),

10=330 (LC 26), 11=94 (LC 13), 12=207 (LC 27), 13=252 (LC 31), 14=252 (LC 32), 15=178 (LC 28),

16=489 (LC 12)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-473/345, 2-3=-220/144, 3-4=-140/135,

4-5=-140/135, 5-6=-140/135, 6-7=-141/134,

7-8=-197/169, 8-9=-209/145 **BOT CHORD** 1-16=-83/129, 15-16=-83/129

14-15=-83/129, 13-14=-83/129,

12-13=-83/129, 11-12=-83/129, 10-11=-128/207, 9-10=-145/201

WEBS 7-12=-173/83, 6-13=-211/66, 5-14=-212/79,

4-15=-138/19, 2-16=-603/600, 8-10=-306/197

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

10-2-10

10-2-10

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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.

- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 MT20 unless otherwise indicated. 6)
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 200 lb uplift at joint 1, 149 lb uplift at joint 9, 138 lb uplift at joint 11, 66 lb uplift at joint 12, 41 lb uplift at joint 13, 55 lb uplift at joint 14, 605 lb uplift at joint 16 and 174 lb uplift at joint
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 9, 10.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard







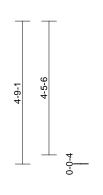
Job Truss Truss Type Qty Ply P210577 LG21 Lay-In Gable

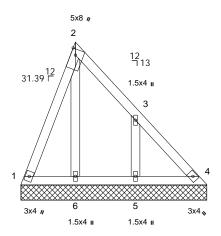
DEVELOPMENT SERVICES 158733504 LEE'S SUMMIT. MISSOURI Job Reference (optiona ID:Kav1OAKjHiuVcPhOSolJJSz9aDr-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

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







6-2-2

Scale = 1:38.3

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defI | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|-----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.23 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.04 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.06 | Horiz(TL) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 32 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=6-2-2, 4=6-2-2, 5=6-2-2, 6=6-2-2

Max Horiz 1=-153 (LC 10)

Max Uplift 1=-37 (LC 15), 4=-28 (LC 11),

5=-175 (LC 15)

Max Grav 1=164 (LC 26), 4=158 (LC 25),

5=333 (LC 26), 6=115 (LC 25) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-147/62, 2-3=-151/98, 3-4=-147/124

BOT CHORD 1-6=-70/122, 5-6=-70/122, 4-5=-70/122

WEBS 2-6=-77/8, 3-5=-341/204

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 1, 28 lb uplift at joint 4 and 175 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard







Job Truss Truss Type Qtv Ply P210577 LG22 Lay-In Gable Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733505 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 🗗 ID:dwqhsZQ6drnVyUjkMmwy5xz9aDk-RfC?PsB70Hq3NSgPqnL8w3uITXbG**(**WrCDoi**x429**/f

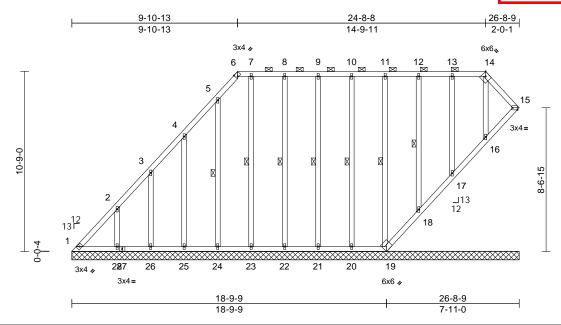


Plate Offsets (X, Y): [6:0-1-7,Edge], [14:0-2-9,Edge], [15:Edge,0-1-8]

| 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 | 0.15 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.25 | Horiz(TL) | 0.00 | 15 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 197 lb | FT = 20% |

LUMBER

Scale = 1:68.8

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-14.

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

bracing.

WEBS 1 Row at midpt 12-18, 11-19, 10-20,

9-21, 8-22, 7-23, 5-24

REACTIONS (size)

1=26-8-9, 15=26-8-9, 16=26-8-9, 17=26-8-9, 18=26-8-9, 19=26-8-9, 20=26-8-9, 21=26-8-9, 22=26-8-9, 23=26-8-9, 24=26-8-9, 25=26-8-9,

26=26-8-9, 28=26-8-9

Max Horiz 1=406 (LC 14)

1=-54 (LC 12), 15=-99 (LC 14), Max Uplift 16=-33 (LC 10), 17=-45 (LC 11),

18=-39 (LC 11), 19=-80 (LC 10), 20=-38 (LC 10), 21=-40 (LC 11), 22=-45 (LC 10), 23=-14 (LC 11), 24=-95 (LC 14), 25=-156 (LC 14),

26=-128 (LC 14), 28=-181 (LC 14) Max Grav 1=335 (LC 14), 15=189 (LC 25),

16=211 (LC 32), 17=251 (LC 31), 18=241 (LC 2), 19=207 (LC 32), 20=244 (LC 32), 21=239 (LC 31), 22=246 (LC 32), 23=216 (LC 31),

24=243 (LC 25), 25=280 (LC 25), 26=245 (LC 25), 28=344 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=-483/356, 2-3=-315/212, 3-4=-203/121,

4-5=-131/51, 5-6=-138/85, 6-7=-96/84, 7-8=-96/84, 8-9=-96/84, 9-10=-96/84, 10-11=-96/84, 11-12=-95/84, 12-13=-95/84,

13-14=-95/83, 14-15=-125/94

1-28=-44/57, 26-28=-44/57, 25-26=-44/57,

24-25=-44/57, 23-24=-44/57, 22-23=-44/57, 21-22=-44/57, 20-21=-44/57, 19-20=-44/57,

18-19=-72/99, 17-18=-73/97, 16-17=-72/98, 15-16=-75/88

WEBS 14-16=-161/55, 13-17=-212/68

12-18=-199/63, 11-19=-199/63, 10-20=-201/64, 9-21=-200/63, 8-22=-206/70,

7-23=-176/38, 5-24=-203/119,

4-25=-258/180, 3-26=-225/154,

2-28=-296/200

NOTES

BOT CHORD

Unbalanced roof live loads have been considered for

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-0 to 5-4-0, Interior (1) 5-4-0 to 9-11-1, Exterior(2R) 9-11-1 to 16-8-12, Interior (1) 16-8-12 to 24-8-12, Exterior(2E) 24-8-12 to 26-6-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.

- 6) All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing. Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 1, 99 lb uplift at joint 15, 33 lb uplift at joint 16, 45 lb uplift at joint 17, 39 lb uplift at joint 18, 80 lb uplift at joint 19, 38 lb uplift at joint 20, 40 lb uplift at joint 21, 45 lb uplift at joint 22, 14 lb uplift at joint 23, 95 lb uplift at joint 24, 156 lb uplift at joint 25, 128 lb uplift at joint 26 and 181 lb uplift at joint 28.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 15, 16, 17, 18.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard





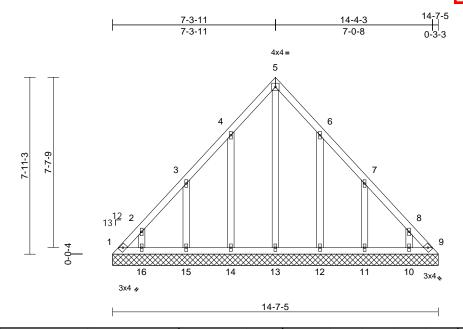


Job Truss Truss Type Qtv Ply P210577 LG23 Lay-In Gable Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733506 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. ID:zteavGTFSNPo2Gbi9KW7o_z9aDf-RfC?PsB70Hq3NSgPqnL8w3uITXbGl WrCDoi

1on Jun 15



Scale = 1:51.7

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defI | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|-----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.09 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.04 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.19 | Horiz(TL) | 0.00 | 9 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 82 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size)

1=14-7-5, 9=14-7-5, 10=14-7-5, 11=14-7-5, 12=14-7-5, 13=14-7-5, 14=14-7-5, 15=14-7-5, 16=14-7-5

Max Horiz 1=-217 (LC 10)

Max Uplift 1=-99 (LC 12), 9=-66 (LC 13),

10=-120 (LC 15), 11=-148 (LC 15), 12=-142 (LC 15), 14=-144 (LC 14), 15=-147 (LC 14), 16=-121 (LC 14)

Max Grav 1=224 (LC 14), 9=202 (LC 15),

10=230 (LC 26), 11=275 (LC 26), 12=279 (LC 26), 13=206 (LC 28), 14=281 (LC 25), 15=274 (LC 25),

16=230 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-311/197, 2-3=-221/156, 3-4=-180/101,

4-5=-199/155, 5-6=-199/148, 6-7=-146/55,

7-8=-199/112, 8-9=-281/197 1-16=-125/202, 15-16=-125/202

14-15=-125/202, 13-14=-125/202,

12-13=-125/202, 11-12=-125/202,

10-11=-125/202, 9-10=-125/202 5-13=-166/71, 4-14=-258/167,

WEBS 3-15=-266/172, 2-16=-216/138,

6-12=-258/166, 7-11=-266/173,

8-10=-216/138

NOTES

BOT CHORD

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-0 to 5-3-14, Interior (1) 5-3-14 to 7-3-14, Exterior(2R) 7-3-14 to 12-3-14, Interior (1) 12-3-14 to 14-3-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 1, 66 lb uplift at joint 9, 144 lb uplift at joint 14, 147 lb uplift at joint 15, 121 lb uplift at joint 16, 142 lb uplift at joint 12, 148 lb uplift at joint 11 and 120 lb uplift at joint
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023



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 chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qtv Ply P210577 LG24 Lay-In Gable Job Reference (optiona

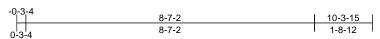
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

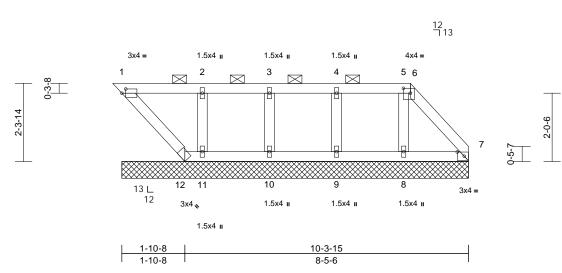
Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Non Jun ID:5NwUejdPON2y6F5BQYFApkz9aDS-RfC?PsB70Hq3NSgPqnL8w3uITXb KWrCD

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 158733507

LEE'S SUMMIT. MISSOURI





Scale = 1:34.3

Plate Offsets (X, Y): [1:0-1-6,0-1-8], [6:0-2-8,0-1-12], [7:0-2-8,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | csı | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|-----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.11 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.04 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.06 | Horiz(TL) | 0.00 | 7 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 42 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 1-6.

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

REACTIONS (size)

1=10-3-15, 7=10-3-15, 8=10-3-15, 9=10-3-15, 10=10-3-15, 11=10-3-15, 12=10-3-15

1=-90 (LC 15) Max Horiz

1=-1 (LC 11), 7=-33 (LC 15), 8=-17 Max Uplift (LC 14), 9=-41 (LC 10), 10=-35 (LC

14), 11=-60 (LC 14), 12=-17 (LC

15)

Max Grav 1=133 (LC 2), 7=119 (LC 27),

8=237 (LC 2), 9=250 (LC 33), 10=229 (LC 2), 11=267 (LC 33),

12=41 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-69/64, 2-3=-66/63, 3-4=-66/63, 4-5=-66/63, 5-6=-66/63, 6-7=-97/51 1-12=-37/49, 11-12=-11/29, 10-11=-11/29,

9-10=-11/29, 8-9=-11/29, 7-8=-11/29 WEBS 2-11=-248/78, 3-10=-186/59, 4-9=-212/65,

5-8=-185/44

NOTES

BOT CHORD

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-3-4 to 5-3-4, Interior (1) 5-3-4 to 8-10-6, Exterior(2E) 8-10-6 to 10-7-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc. 7)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 1, 33 lb uplift at joint 7, 17 lb uplift at joint 12, 60 lb uplift at joint 11, 35 lb uplift at joint 10, 41 lb uplift at joint 9 and 17 lb uplift at joint 8.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 6,2023



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 chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply P210577 LG25 Lay-In Gable Job Reference (optiona

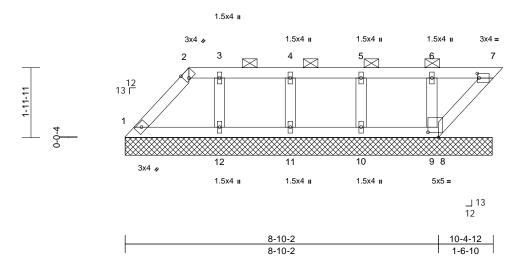
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733508 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:khe19qnxZ3YFY50V74T_JGz9aDG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoF44Q2.ft





Scale = 1:32.5

Plate Offsets (X, Y): [2:0-1-7, Edge], [7:0-0-10,0-1-8], [8:0-3-8,0-1-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|-----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.08 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.05 | Horiz(TL) | 0.00 | 7 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 39 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 2-7.

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

REACTIONS (size)

1=10-4-7, 7=10-4-7, 8=10-4-7, 9=10-4-7, 10=10-4-7, 11=10-4-7, 12=10-4-7

Max Horiz 1=75 (LC 14)

Max Uplift 1=-23 (LC 14), 7=-51 (LC 14),

8=-58 (LC 26), 9=-37 (LC 10),

12=-35 (LC 11)

Max Grav

10=-40 (LC 11), 11=-45 (LC 10),

1=164 (LC 2), 7=147 (LC 2), 8=48

(LC 14), 9=231 (LC 34), 10=243 (LC 2), 11=237 (LC 34), 12=244

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=-153/24, 2-3=-79/45, 3-4=-79/45,

4-5=-79/45, 5-6=-79/45, 6-7=-83/47 BOT CHORD 1-12=-47/82. 11-12=-47/82. 10-11=-47/82.

9-10=-47/82, 8-9=-47/82, 7-8=-77/128

WEBS 6-9=-204/64, 5-10=-201/64, 4-11=-202/67,

3-12=-188/63

NOTES

TOP CHORD

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-0 to 1-9-14, Exterior(2R) 1-9-14 to 6-8-4, Interior (1) 6-8-4 to 10-5-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 1, 51 lb uplift at joint 7, 58 lb uplift at joint 8, 37 lb uplift at joint 9, 40 lb uplift at joint 10, 45 lb uplift at joint 11 and 35 lb uplift at joint 12.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard





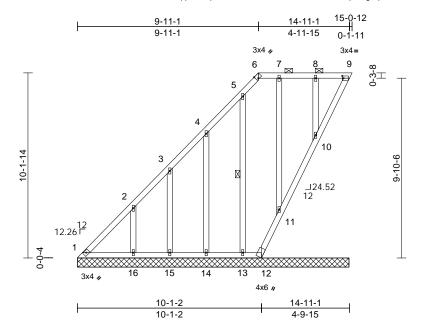
Job Truss Truss Type Qtv Ply P210577 LG26 Lay-In Gable Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733509 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 🚯 KWrCDoM3490/f ID:wppBTavqzRxhNoMcGt9ZFaz9aD5-RfC?PsB70Hq3NSgPqnL8w3uITXbG



Scale = 1:63.2

Plate Offsets (X, Y): [6:0-1-8,Edge], [9:0-0-13,0-1-8]

| 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 | 0.19 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.06 | Vert(TL) | n/a | - | n/a | 999 | 1 | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.25 | Horiz(TL) | -0.01 | 9 | n/a | n/a | 1 | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 98 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 6-9.

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

bracing.

WFRS 1 Row at midpt 5-13

REACTIONS (size) 1=14-10-12. 9=14-10-12. 10=14-10-12, 11=14-10-12,

12=14-10-12, 13=14-10-12, 14=14-10-12, 15=14-10-12,

16=14-10-12

Max Horiz 1=435 (LC 14) Max Uplift 1=-15 (LC 12), 9=-110 (LC 14), 10=-49 (LC 11), 11=-38 (LC 10),

12=-54 (LC 26), 13=-79 (LC 14), 14=-145 (LC 14), 15=-111 (LC 14),

16=-185 (LC 14)

Max Grav 1=314 (LC 14), 9=132 (LC 2), 10=267 (LC 34), 11=221 (LC 2),

12=129 (LC 14), 13=218 (LC 26), 14=281 (LC 26), 15=226 (LC 26),

16=375 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-473/414, 2-3=-302/248, 3-4=-188/163, 4-5=-114/48, 5-6=-98/48, 6-7=-57/52,

7-8=-57/52, 8-9=-67/56

1-16=-56/64, 15-16=-56/64, 14-15=-56/64, **BOT CHORD** 13-14=-56/64, 12-13=-56/64,

11-12=-138/168, 10-11=-139/166,

9-10=-139/153

WEBS

8-10=-219/72, 7-11=-185/58, 5-13=-198/102, 4-14=-262/169, 3-15=-218/136,

2-16=-333/206

NOTES

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

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-3 to 5-1-0, Interior (1) 5-1-0 to 9-11-5, Exterior(2E) 9-11-5 to 14-11-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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.

- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 MT20 unless otherwise indicated. 6)
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 1, 110 lb uplift at joint 9, 54 lb uplift at joint 12, 49 lb uplift at joint 10, 38 lb uplift at joint 11, 79 lb uplift at joint 13, 145 lb uplift at joint 14, 111 lb uplift at joint 15 and 185 lb uplift at joint 16.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

LOAD CASE(S) Standard



June 6,2023



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 chorembers 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

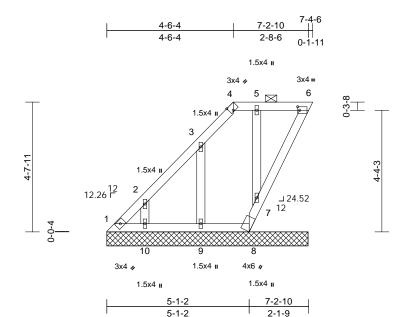
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply P210577 LG27 Lay-In Gable Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733510 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:w4Lc1O6Vzg4GvP9tmyzYR9z9aCq-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoF44QQ?fr



Scale = 1:41.2

Plate Offsets (X, Y): [4:0-1-8,Edge], [6:0-0-13,0-1-8]

| 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 | 0.09 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.06 | Horiz(TL) | 0.00 | 6 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 36 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 4-6. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

REACTIONS (size) 1=7-2-6, 6=7-2-6, 7=7-2-6,

8=7-2-6, 9=7-2-6, 10=7-2-6

Max Horiz 1=194 (LC 14)

Max Uplift 1=-20 (LC 12), 6=-62 (LC 14),

7=-46 (LC 11), 8=-89 (LC 2), 9=-115 (LC 14), 10=-118 (LC 14)

Max Grav

1=150 (LC 14), 6=146 (LC 2),

7=267 (LC 2), 8=79 (LC 14), 9=250

(LC 26), 10=233 (LC 26)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-218/199, 2-3=-150/104, 3-4=-105/18,

4-5=-43/27, 5-6=-53/33 1-10=-35/50, 9-10=-35/50, 8-9=-35/50,

BOT CHORD 7-8=-88/171, 6-7=-93/125

WEBS 5-7=-198/64, 3-9=-243/140, 2-10=-233/139

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
 - Provide adequate drainage to prevent water ponding.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 1, 62 lb uplift at joint 6, 89 lb uplift at joint 8, 46 lb uplift at joint 7, 115 lb uplift at joint 9 and 118 lb uplift at joint
- 9) N/A
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 6,2023



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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 chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

Truss Type Job Truss Qty Ply P210577 LG28 Lay-In Gable Job Reference (optiona

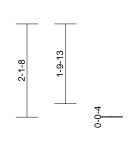
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733511 LEE'S SUMMIT. MISSOURI

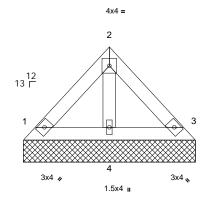
RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 VrCDoi7 42JQ ID:H28V46AdoCiZ0A1rZVZj8Dz9aCl-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK







3-10-9

Scale = 1:26.2

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|-----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.08 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.03 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.02 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | 1 | | | | | | | | | Weight: 15 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-11-1 oc purlins.

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

bracing.

REACTIONS (size) 1=3-11-1, 3=3-11-1, 4=3-11-1

Max Horiz 1=50 (LC 13)

Max Uplift 1=-27 (LC 15), 3=-24 (LC 15)

Max Grav 1=127 (LC 2), 3=127 (LC 2), 4=136

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-101/38, 2-3=-94/31 **BOT CHORD**

1-4=-13/45, 3-4=-13/45

WEBS 2-4=-95/19

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 1 and 24 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023



Truss Type Job Truss Qty Ply P210577 LG29 Lay-In Gable Job Reference (optiona

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

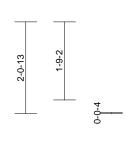
Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:9pO0wTD8rRD?UnLcoLdfl3z9aCh-RfC?PsB70Hq3NSgPqnL8w3ulTXbGh

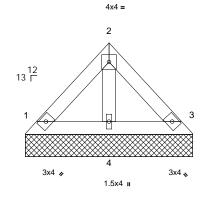
LEE'S SUMMIT. MISSOURI Mon Jun 05) 9:20 WrCDoi794z30:1

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 158733512







3-9-5 Scale - 1:26

| | 000.0 | |
|---|-------|--|
| - | | |
| | | |

| 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 | TC | 0.07 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.03 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.02 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 14 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-9-13 oc purlins.

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

bracing.

REACTIONS (size) 1=3-9-5, 3=3-9-5, 4=3-9-5

Max Horiz 1=-49 (LC 10)

Max Uplift 1=-26 (LC 15), 3=-23 (LC 15)

Max Grav 1=123 (LC 2), 3=123 (LC 2), 4=132

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-98/37, 2-3=-91/30 **BOT CHORD**

1-4=-13/44, 3-4=-13/44

WEBS 2-4=-92/19

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 1 and 23 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023





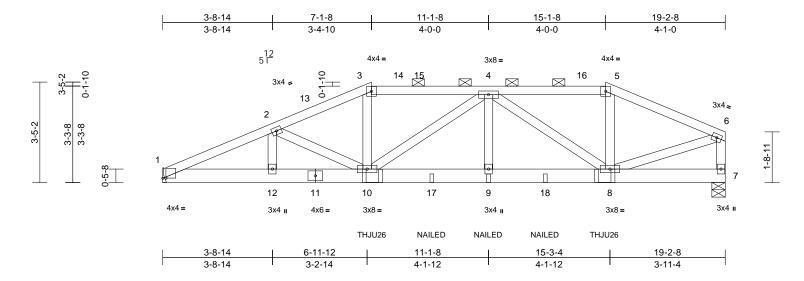
| Job | Truss | Truss Type | Qty | Ply | | AS |
|---------|-------|------------|-----|-----|-------------------------|----|
| P210577 | M01 | Hip Girder | 1 | 2 | Job Reference (optional | |

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Non Jun 650 2024 ID:FBT8?RL4yrRiMJErkG1XBCz9YkH-RfC?PsB70Hq3NSgPqnL8w3ulTXbGkWrCDoin4429

DEVELOPMENT SERVICES 158733513 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW



Scale = 1:39.3

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.22 | Vert(LL) | 0.03 | 9-10 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.23 | Vert(CT) | -0.05 | 9-10 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.24 | Horz(CT) | 0.01 | 7 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 190 lb | FT = 20% |

LUMBER

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

WEBS 2x4 SPF No.3 *Except* 7-6:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 3-5.

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

bracing

REACTIONS (size) 1= Mechanical, 7=0-5-8

Max Horiz 1=61 (LC 87)

Max Uplift 1=-457 (LC 16), 7=-608 (LC 13)

Max Grav 1=1047 (LC 2), 7=1011 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=-2103/1233, 2-3=-1709/1260, 3-4=-1515/1174, 4-5=-1062/881,

5-6=-1193/932, 6-7=-966/706

1-12=-1188/1860, 10-12=-1188/1860,

9-10=-1204/1815, 8-9=-1204/1815,

7-8=-62/88

2-12=0/99, 2-10=-501/154, 3-10=-377/328, **WEBS**

4-10=-402/96, 4-9=-120/230, 4-8=-925/438,

5-8=-237/177, 6-8=-847/1075

NOTES

BOT CHORD

2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for 3) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-12 to 5-0-12, Interior (1) 5-0-12 to 7-1-8, Exterior(2R) 7-1-8 to 14-2-6, Interior (1) 14-2-6 to 15-1-8, Exterior(2E) 15-1-8 to 19-0-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 457 lb uplift at joint 1 and 608 lb uplift at joint 7.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

- 13) Use Simpson Strong-Tie THJU26 (SGL & SGL LC 2-PLY) or equivalent at 7-1-14 from the left end to connect truss(es) to front face of bottom chord.
- 14) Use Simpson Strong-Tie THJU26 (SGL & SGL RC 2-PLY) or equivalent at 15-1-2 from the left end to connect truss(es) to front face of bottom chord.
- 15) Fill all nail holes where hanger is in contact with lumber.
- 16) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-3=-78, 3-5=-88, 5-6=-78, 1-7=-20

Concentrated Loads (lb)

Vert: 10=144 (F), 9=-73 (F), 8=144 (F), 17=-73 (F), 18=-73 (F)



June 6,2023



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 chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

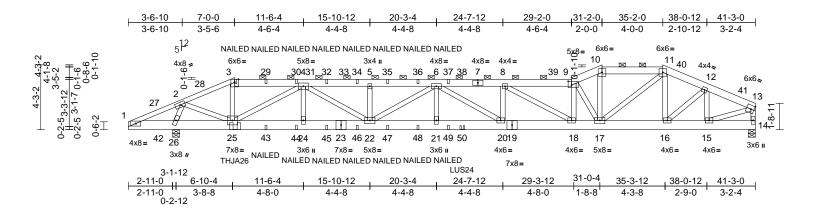
| lob | Truce | Truce Type | Qty | Plv | | AS NOTED FOR PLAN REVIEW |
|---------|-------|---------------------|-----|-----|--------------------------|-------------------------------|
| Job | Truss | Truss Type | Qty | Fly | | DEVELOPM <u>ent ser</u> vices |
| P210577 | M02 | Roof Special Girder | 1 | 2 | Job Reference (optional) | LEE'S SUMMIT, MISSOURI |

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Non Jun 650 3922 ID:rEyZnIYAeFwfkXJs1ZlIh4z9Yik-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWr Doi7J4zsc?

DEVELOPMENT SERVICES 158733514 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:75.8

| Plate Offsets | (X, | Y): | [9:0-2-12,0-3-0] |
|---------------|-----|-----|------------------|
|---------------|-----|-----|------------------|

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.30 | Vert(LL) | -0.27 | 20-21 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.94 | Vert(CT) | -0.55 | 20-21 | >830 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.61 | Horz(CT) | 0.09 | 14 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 494 lb | FT = 20% |

LUMBER

2x6 SPF No.2 *Except* 1-3:2x4 SP No.2 TOP CHORD

BOT CHORD 2x8 SPF No.2

WEBS 2x4 SPF No.3 *Except* 14-13:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and

2-0-0 oc purlins (4-11-5 max.): 3-9, 10-11.

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

bracing, Except:

6-0-0 oc bracing: 1-26.

REACTIONS 14=0-5-8. 26=0-5-8 (size)

Max Horiz 26=73 (LC 16)

Max Uplift 14=-573 (LC 12), 26=-1070 (LC 16)

Max Grav 14=2497 (LC 2), 26=2650 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-285/341, 2-3=-3083/1411,

> 3-4=-2800/1316, 4-5=-8177/2904, 5-6=-8177/2904, 6-8=-9388/2943

8-9=-7534/2174, 9-10=-5886/1668 10-11=-5370/1536, 11-12=-3788/1023,

12-13=-3028/771, 13-14=-2364/600 **BOT CHORD** 1-26=-234/281, 25-26=-351/599,

24-25=-2286/6103, 22-24=-2286/6103, 21-22=-3179/9571, 20-21=-3179/9571,

18-20=-2872/9388, 17-18=-2119/7576,

16-17=-915/3514, 15-16=-703/2727,

14-15=-62/176

WEBS 2-25=-1046/2431, 3-25=-369/790, 4-25=-3852/1224, 4-24=-20/132,

4-22=-684/2457, 5-22=-488/210,

6-22=-1652/409, 6-21=-210/491, 6-20=-357/494, 8-20=-333/560,

8-18=-2162/924, 9-18=-340/867

9-17=-3885/1205, 10-17=-536/1891,

11-17=-764/2474, 11-16=-594/224,

12-16=-305/1141. 12-15=-1173/346.

2-26=-2451/1080, 13-15=-691/2754

NOTES

2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

Unbalanced roof live loads have been considered for this design.

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 7-0-0, Exterior(2R) 7-0-0 to 12-0-0, Interior (1) 12-0-0 to 31-2-0. Exterior(2E) 31-2-0 to 35-2-0, Exterior(2R) 35-2-0 to 40-2-0, Interior (1) 40-2-0 to 41-1-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 5) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this desian.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1070 lb uplift at joint 26 and 573 lb uplift at joint 14.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Left Hand Hip) or equivalent at 7-0-6 from the left end to connect truss(es) to front face of bottom chord.



June 6,2023

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Qty Job Truss Truss Type Ply 2 P210577 M02 Roof Special Girder Job Reference (optiona

DEVELOPMENT SERVICES 158733514 LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

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

13) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss) or equivalent at 21-11-12 from the left end to connect truss(es) to front face of bottom chord.

14) Fill all nail holes where hanger is in contact with lumber.

15) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

Concentrated Loads (lb)

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-3=-78, 3-9=-88, 9-10=-78, 10-11=-88, 11-13=-78, 1-14=-20

> Vert: 3=-39 (F), 25=240 (F), 29=-35 (F), 30=-35 (F), 32=-35 (F), 34=-35 (F), 35=-35 (F), 36=-35 (F), 37=-35 (F), 43=23 (F), 44=23 (F), 45=23 (F), 46=23 (F), 47=23 (F), 48=23 (F), 49=23 (F), 50=-619 (F)

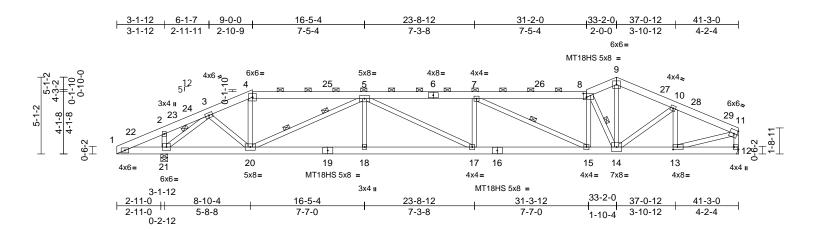


| | | | | | | | _ |
|-----|------|-------|--------------|-----|-----|--------------------------|---|
| Job | | Truss | Truss Type | Qty | Ply | | Г |
| P21 | 0577 | M03 | Roof Special | 1 | 1 | Job Reference (optional) | L |

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733515 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:pbs0Swqk7KkrvaFBclB4sxz9Yfn-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKV



Scale = 1:76.5

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

| 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 | TC | 0.75 | Vert(LL) | -0.25 | 17-18 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.38 | Vert(CT) | -0.60 | 17-18 | >759 | 180 | MT18HS | 244/190 |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.98 | Horz(CT) | 0.11 | 12 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | 1 | | | | | | | Weight: 250 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2 BOT CHORD 2x6 SP 2400F 2.0E

WEBS 2x4 SPF No.3 *Except* 12-11,13-11,14-9:2x4 SP No.2

BRACING

TOP CHORD

Structural wood sheathing directly applied or 3-10-1 oc purlins, except end verticals, and

2-0-0 oc purlins (2-6-7 max.): 4-8

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

bracing, Except:

6-0-0 oc bracing: 1-21.

WEBS 1 Row at midpt 7-15, 3-21, 8-14 2 Rows at 1/3 pts **WEBS** 5-20

REACTIONS (size) 12= Mechanical, 21=0-5-8

Max Horiz 21=92 (LC 16)

Max Uplift 12=-242 (LC 16), 21=-416 (LC 16)

Max Grav 12=2262 (LC 2), 21=2671 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-259/271, 2-3=-178/175, 3-4=-3165/529,

4-5=-2944/519, 5-7=-5979/927, 7-8=-4439/644, 8-9=-3460/508,

9-10=-3450/499, 10-11=-3011/379,

11-12=-2169/269

BOT CHORD 1-21=-156/250, 20-21=-376/2165,

18-20=-817/5512, 17-18=-817/5512,

15-17=-859/5979, 14-15=-576/4464,

13-14=-300/2701, 12-13=-40/157 **WEBS** 4-20=-22/586, 5-20=-2857/430, 5-18=0/292,

5-17=-66/584 7-17=-107/121

7-15=-1873/316, 8-15=-46/824 11-13=-295/2674, 2-21=-555/174,

3-20=-138/1140, 3-21=-2962/449, 9-14=-350/2369, 8-14=-2900/451,

10-14=-101/640, 10-13=-854/160

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 9-0-0, Exterior(2R) 9-0-0 to 14-0-0, Interior (1) 14-0-0 to 33-2-0, Exterior(2R) 33-2-0 to 38-2-0, Interior (1) 38-2-0 to 41-1-4 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 242 lb uplift at joint 12 and 416 lb uplift at joint 21.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 6,2023



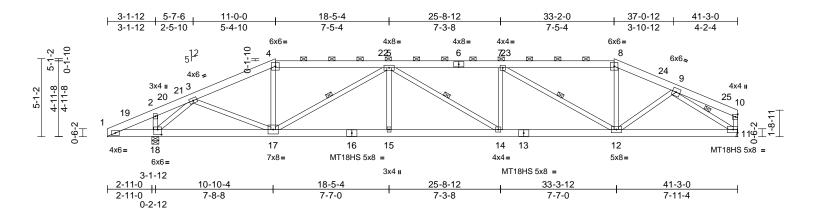


| Job | Truss | Truss Type | Qty | Ply | | |
|---------|-------|------------|-----|-----|--------------------------|--|
| P210577 | M04 | Hip | 1 | 1 | Job Reference (optional) | |

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733516 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 15 16 Print: 8.630 S Nov 19 2022 MiTek Indus



Scale = 1:75.4

Plate Offsets (X, Y): [18:0-3-0,0-4-0]

| 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 | TC | 0.55 | Vert(LL) | -0.21 | 14-15 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.89 | Vert(CT) | -0.49 | 14-15 | >928 | 180 | MT18HS | 197/144 |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.91 | Horz(CT) | 0.15 | 11 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 221 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2 BOT CHORD 2x6 SPF No.2

WEBS 2x4 SPF No.3 *Except* 11-10:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-8-5 oc purlins, except end verticals, and 2-0-0 oc purlins (3-0-3 max.): 4-8.

Rigid ceiling directly applied or 6-0-0 oc

BOT CHORD bracing.

WFRS

1 Row at midpt 5-17, 5-14, 7-12, 9-11

REACTIONS 11= Mechanical, 18=0-5-8 (size)

Max Horiz 18=91 (LC 20)

Max Uplift 11=-274 (LC 13), 18=-366 (LC 12)

Max Grav 11=2262 (LC 2), 18=2671 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-302/320, 2-3=-231/263, 3-4=-3394/482,

4-5=-3045/469, 5-7=-4773/745, 7-8=-3146/480, 8-9=-3452/496,

9-10=-287/76, 10-11=-308/72

1-18=-208/290, 17-18=-293/2009,

15-17=-664/4749, 14-15=-664/4749,

12-14=-669/4773, 11-12=-367/2650

4-17=-22/672, 5-17=-2028/318, 5-15=0/292, 5-14=-66/120, 7-14=0/271, 7-12=-1968/313,

8-12=-30/701, 9-12=-48/788,

9-11=-3099/437, 2-18=-434/150,

3-18=-2982/490, 3-17=-123/1248

NOTES

WEBS

BOT CHORD

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 11-0-0, Exterior(2R) 11-0-0 to 18-0-14, Interior (1) 18-0-14 to 33-2-0, Exterior(2R) 33-2-0 to 40-2-14, Interior (1) 40-2-14 to 41-1-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated. 6)
- This truss has been designed for a 10.0 psf bottom 7) chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 274 lb uplift at joint 11 and 366 lb uplift at joint 18.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 6,2023



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



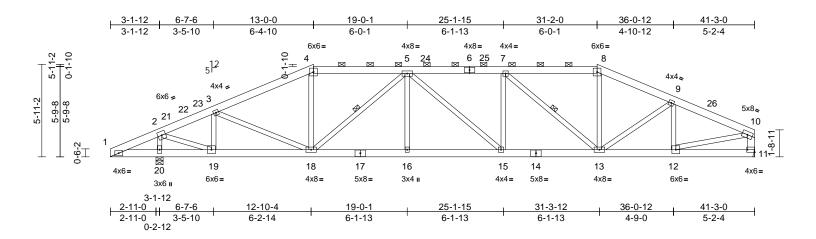
| Job | Truss | Truss Type | Qty | Ply | |
|---------|-------|------------|-----|-----|-------------------------|
| P210577 | M05 | Hip | 1 | 1 | Job Reference (optional |

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 15 12 12 ID:NkkTKa6jlbtOwDTG_AZdL4z9YbY-RfC?PsB70Hq3NSgPqnL8w3ulTXbGi WrCDoi 194236 M

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733517 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:73.8

Plate Offsets (X, Y): [11:Edge,0-2-0]

| 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 | TC | 0.44 | Vert(LL) | -0.15 | 15-16 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.72 | Vert(CT) | -0.36 | 15-16 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.68 | Horz(CT) | 0.11 | 11 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 235 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2 BOT CHORD 2x6 SPF No.2

WEBS 2x4 SPF No.3 *Except* 11-10:2x6 SPF No.2,

12-10,19-2:2x4 SP No.2 BRACING

TOP CHORD

Structural wood sheathing directly applied or

3-5-7 oc purlins, except end verticals, and 2-0-0 oc purlins (3-5-13 max.): 4-8

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

bracing, Except:

6-0-0 oc bracing: 1-20,19-20. 1 Row at midpt 5-18, 7-13

WEBS 11= Mechanical, 20=0-5-8 **REACTIONS** (size)

Max Horiz 20=106 (LC 16)

Max Uplift 11=-248 (LC 13), 20=-340 (LC 12)

Max Grav 11=2257 (LC 2), 20=2666 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=-259/324, 2-3=-2698/321

3-4=-3402/460, 4-5=-3024/450, 5-7=-3939/606, 7-8=-3066/462,

8-9=-3416/478, 9-10=-3207/384

10-11=-2167/281

BOT CHORD 1-20=-220/253, 19-20=-220/273, 18-19=-285/2432, 16-18=-502/3917,

15-16=-502/3917, 13-15=-505/3939, 12-13=-336/2869, 11-12=-53/239

WFBS 4-18=-33/691, 5-18=-1302/206, 7-13=-1282/200, 8-13=-48/751,

9-13=-37/427, 9-12=-684/149, 10-12=-309/2725, 5-16=0/233, 5-15=-66/112, 7-15=0/230 2-20=-2454/408 3-18=-98/769

3-19=-1001/232, 2-19=-386/2784

NOTES

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 13-0-0. Exterior(2R) 13-0-0 to 20-0-14, Interior (1) 20-0-14 to 31-2-0, Exterior(2R) 31-2-0 to 38-2-14, Interior (1) 38-2-14 to 41-0-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 248 lb uplift at joint 11 and 340 lb uplift at joint 20.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 6,2023





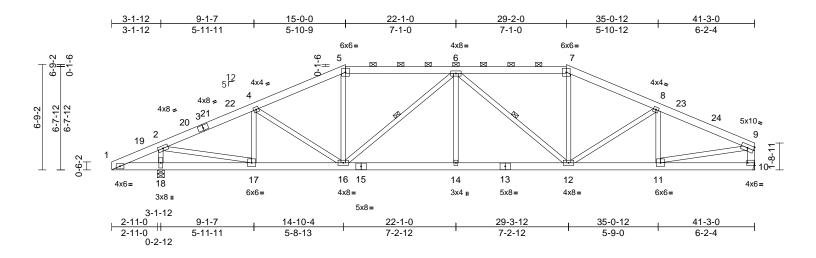
| - | | | | | | | _ |
|---|---------|-------|------------|-----|-----|--------------------------|---|
| I | Job | Truss | Truss Type | Qty | Ply | | Γ |
| I | P210577 | M06 | Hip | 1 | 1 | Job Reference (optional) | L |

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733518 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

ID:5TwX7Rr_xKZkkbe?3U9wJxz9Yab-RfC?PsB70Hq3NSgPqnL8w3uITXbGitWrCDoily42364



Scale = 1:73.9

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

| 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 | TC | 0.51 | Vert(LL) | -0.13 | 14 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.66 | Vert(CT) | -0.31 | 12-14 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.72 | Horz(CT) | 0.09 | 10 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 235 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2 BOT CHORD 2x6 SPF No.2

WEBS 2x4 SPF No.3 *Except* 10-9:2x6 SPF No.2,

11-9,17-2:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-8-6 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-3 max.): 5-7

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

bracing.

WEBS 1 Row at midpt 6-16, 6-12 REACTIONS 10= Mechanical, 18=0-5-8

(size) Max Horiz 18=122 (LC 20)

Max Uplift 10=-222 (LC 13), 18=-314 (LC 12)

Max Grav 10=2257 (LC 2), 18=2666 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

Tension

1-2=-248/105, 2-4=-3256/350,

4-5=-3301/428, 5-6=-2940/420, 6-7=-2975/435, 7-8=-3342/439,

8-9=-3374/404, 9-10=-2164/286

BOT CHORD 1-18=0/236, 17-18=-79/256,

16-17=-298/2890, 14-16=-392/3511, 12-14=-392/3511, 11-12=-337/3010,

10-11=-60/279

WEBS 5-16=-15/618, 6-16=-896/138, 6-14=0/285,

6-12=-859/134, 7-12=-18/639, 8-12=-211/225, 8-11=-556/142, 9-11=-283/2800, 2-18=-2443/454,

4-16=-123/277, 4-17=-612/181,

2-17=-417/2951

NOTES

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 15-0-0, Exterior(2R) 15-0-0 to 22-1-0, Interior (1) 22-1-0 to 29-2-0, Exterior(2R) 29-2-0 to 36-2-14, Interior (1) 36-2-14 to 41-0-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 222 lb uplift at joint 10 and 314 lb uplift at joint 18.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



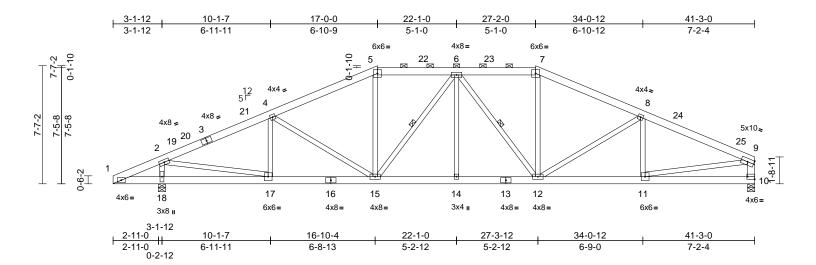




| Job | Truss | Truss Type | Qty | Ply | |
|---------|-------|------------|-----|-----|-------------------------|
| P210577 | M07 | Hip | 1 | 1 | Job Reference (optional |

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 6 12929 Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, ID:H78XaqOCL9DLeWaeCRSUeRz9YZu-RfC?PsB70Hq3NSgPqnL8w3uITX)GKWrCbsf79200

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733519 LEE'S SUMMIT. MISSOURI



Scale = 1:74.1

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

| 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 | TC | 0.44 | Vert(LL) | -0.12 | 14 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.60 | Vert(CT) | -0.28 | 14 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.73 | Horz(CT) | 0.08 | 10 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 243 lb | FT = 20% |

LUMBER

2x6 SPF No 2 TOP CHORD BOT CHORD 2x6 SPF No.2

WEBS 2x4 SPF No.3 *Except* 10-9:2x6 SPF No.2, 11-9,17-2:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-7-7 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-12 max.): 5-7

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

bracing. 6-15, 6-12

WEBS 1 Row at midpt REACTIONS

10=0-5-8, 18=0-5-8 (size)

Max Horiz 18=138 (LC 16)

Max Uplift 10=-217 (LC 17), 18=-287 (LC 12)

Max Grav 10=2257 (LC 2), 18=2666 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-244/51, 2-4=-3393/362, 4-5=-3186/429,

5-6=-2811/436, 6-7=-2832/445,

7-8=-3212/440, 8-9=-3494/419, 9-10=-2162/293

BOT CHORD 1-18=0/230, 17-18=-109/249,

15-17=-315/3004, 14-15=-299/3054, 12-14=-299/3054, 11-12=-343/3108,

10-11=-68/322

WEBS 5-15=-17/606, 6-15=-579/86, 6-14=0/167,

6-12=-550/82, 7-12=-29/623, 8-12=-456/198,

8-11=-442/149, 9-11=-280/2839, 2-18=-2441/467, 4-15=-375/190,

4-17=-490/184, 2-17=-428/2984

NOTES

Unbalanced roof live loads have been considered for this design

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 17-0-0, Exterior(2R) 17-0-0 to 24-0-14. Interior (1) 24-0-14 to 27-2-0. Exterior(2R) 27-2-0 to 34-0-12, Interior (1) 34-0-12 to 41-0-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 217 lb uplift at joint 10 and 287 lb uplift at joint 18.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 6,2023



a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

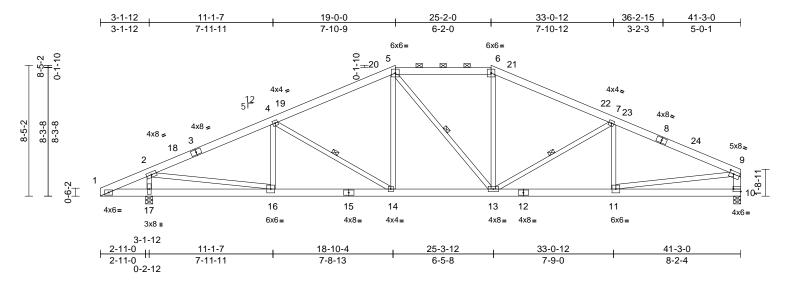


| Job | Truss | Truss Type | Qty | Ply | |
|---------|-------|------------|-----|-----|----------------------|
| P210577 | M08 | Hip | 1 | 1 | Job Reference (optio |

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733520 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:I7HBUc0q58nztVYeEMOglOz9YZ4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGl WrCDoi



Scale = 1:74.2

Plate Offsets (X, Y): [9:0-3-4,0-2-4], [10:Edge,0-2-0]

| 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 | TC | 0.58 | Vert(LL) | -0.11 | 14-16 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.62 | Vert(CT) | -0.28 | 14-16 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.73 | Horz(CT) | 0.07 | 10 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 237 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2 BOT CHORD 2x6 SPF No.2

WEBS 2x4 SPF No.3 *Except* 10-9:2x6 SPF No.2, 11-9,16-2:2x4 SP No.2

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied or

3-4-10 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-3 max.): 5-6

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

bracing.

1 Row at midpt 5-13, 4-14, 7-13

REACTIONS 10=0-5-8, 17=0-5-8 (size)

Max Horiz 17=153 (LC 20)

Max Uplift 10=-237 (LC 17), 17=-300 (LC 16)

Max Grav 10=2257 (LC 2), 17=2666 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-241/21, 2-4=-3485/377, 4-5=-3036/427,

5-6=-2664/444, 6-7=-3053/431,

7-9=-3570/425, 9-10=-2158/296 **BOT CHORD** 1-17=-4/221, 16-17=-140/241,

14-16=-339/3083, 13-14=-242/2652,

11-13=-339/3165, 10-11=-76/370 5-14=-39/470, 5-13=-211/241, 6-13=-18/489,

9-11=-266/2842, 2-17=-2438/479,

4-14=-603/233, 4-16=-383/184,

2-16=-425/2967, 7-11=-346/152,

7-13=-678/241

NOTES

WEBS

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 19-0-0, Exterior(2E) 19-0-0 to 25-2-0, Exterior(2R) 25-2-0 to 32-2-14, Interior (1) 32-2-14 to 41-0-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this desian.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 237 lb uplift at joint 10 and 300 lb uplift at joint 17.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802 10 2 and referenced standard ANSI/TPI 1
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard







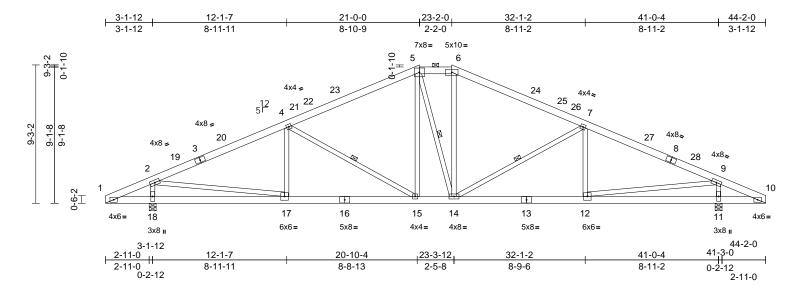
| Job | Truss | Truss Type | Qty | Ply | | |
|---------|-------|------------|-----|-----|-------------------------|--|
| P210577 | M09 | Hip | 1 | 1 | Job Reference (optional | |

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

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733521 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 15 ID:E8RsOOfRr6Kb6UXdHHKsrMz9YYG-RfC?PsB70Hq3NSgPqnL8w3uITXb BKWrCDb4



Scale = 1:77.1

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defI | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.74 | Vert(LL) | -0.13 | 15-17 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.67 | Vert(CT) | -0.32 | 15-17 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.74 | Horz(CT) | 0.07 | 11 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 255 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x6 SPF No.2

WFBS 2x4 SPF No.3 *Except* 9-12,17-2:2x4 SP

BRACING

TOP CHORD

Structural wood sheathing directly applied or TOP CHORD

2-11-10 oc purlins, except

2-0-0 oc purlins (4-2-3 max.): 5-6. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 1 Row at midpt 5-14, 4-15, 7-14

REACTIONS (size) 11=0-5-8, 18=0-5-8

Max Horiz 18=-164 (LC 17)

Max Uplift 11=-317 (LC 17), 18=-317 (LC 16)

Max Grav 11=2650 (LC 2), 18=2650 (LC 2) (lb) - Maximum Compression/Maximum

FORCES

Tension 1-2=-250/28. 2-4=-3625/391. 4-5=-2933/370.

5-6=-2522/389, 6-7=-2940/369,

7-9=-3622/392, 9-10=-248/25 **BOT CHORD** 1-18=-14/249, 17-18=-171/314,

15-17=-371/3220, 14-15=-134/2515,

12-14=-207/3218, 11-12=-11/245,

10-11=-11/245

WEBS 5-15=-72/512, 5-14=-247/292, 6-14=-77/544,

2-18=-2419/473, 9-11=-2417/472, 4-15=-822/273, 7-12=-314/182,

7-14=-813/273, 9-12=-374/3006,

4-17=-305/182, 2-17=-373/3004

NOTES

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 21-0-0, Exterior(2E) 21-0-0 to 23-2-0, Exterior(2R) 23-2-0 to 30-2-14, Interior (1) 30-2-14 to 44-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 317 lb uplift at joint 18 and 317 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard







Job Truss Truss Type Qty Ply P210577 M10 Roof Special Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733522 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Non Jun ID:jy9o0cv2bmJ_zJvQqPg0X4z9YWf-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7342

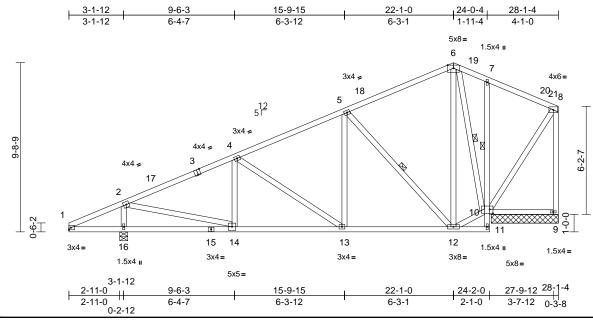


Plate Offsets (X, Y): [3:0-2-0,Edge], [10:0-2-4,0-2-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.79 | Vert(LL) | -0.04 | 13-14 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.47 | Vert(CT) | -0.11 | 13-14 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.62 | Horz(CT) | -0.01 | 9 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 174 lb | FT = 20% |

LUMBER

Scale = 1:66.2

2x4 SP No.2 TOP CHORD

2x4 SP No.2 *Except* 11-7:2x4 SPF No.3 BOT CHORD

WEBS 2x4 SPF No.3 **OTHERS** 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-1-14 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing. Except:

1 Row at midpt 7-10

WEBS 1 Row at midpt 6-10, 5-12

9=3-10-4, 10=3-10-4, 16=0-5-8 REACTIONS (size)

Max Horiz 16=301 (LC 13)

9=-158 (LC 35), 10=-251 (LC 16), Max Uplift

16=-219 (LC 16)

9=31 (LC 16), 10=1849 (LC 2), Max Grav

16=1598 (LC 35)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-261/272, 2-4=-1450/203,

4-5=-1024/190, 5-6=-290/187, 6-7=-44/197,

7-8=-76/244, 8-9=0/187

BOT CHORD 1-16=-148/245, 14-16=-343/276, 13-14=-318/1227, 12-13=-253/836,

11-12=-82/9, 10-11=-12/1, 7-10=-368/144,

9-10=-117/130

WEBS 6-10=-1183/214, 2-16=-1471/372,

6-12=-157/772, 10-12=-103/280, 5-12=-1052/274, 4-14=-210/145,

2-14=-246/1413, 4-13=-470/165,

5-13=-15/457, 8-10=-276/124

NOTES

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 22-1-0, Exterior(2R) 22-1-0 to 27-1-0. Interior (1) 27-1-0 to 27-11-8 zone: cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearing at joint(s) 9 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 158 lb uplift at joint 9, 251 lb uplift at joint 10 and 219 lb uplift at joint
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023



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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qtv Ply Roof Special P210577 M11 Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733523 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Hon Jun 🗗 ID:NXPI6XFEmgysync?0?hqCCz9YWC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCD

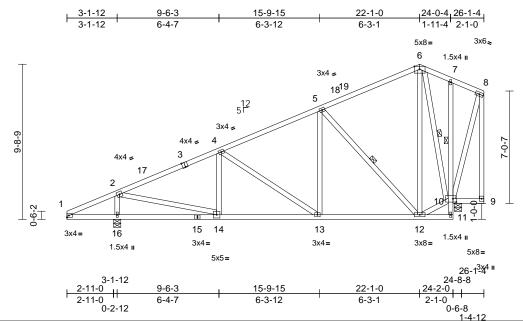


Plate Offsets (X, Y): [3:0-2-0,Edge], [10:0-2-8,0-2-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.79 | Vert(LL) | -0.04 | 13-14 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.48 | Vert(CT) | -0.11 | 13-14 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.66 | Horz(CT) | -0.01 | 10 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 169 lb | FT = 20% |

LUMBER

Scale = 1:72.1

2x4 SP No.2 TOP CHORD

BOT CHORD 2x4 SP No.2 *Except* 11-7:2x4 SPF No.3 **WEBS** 2x4 SPF No.3 *Except* 9-8:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-0-3 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing. Except:

1 Row at midpt 7-10 **WEBS** 1 Row at midpt

REACTIONS (size) 10=0-5-8, 16=0-5-8

Max Horiz 16=342 (LC 13)

Max Uplift 10=-213 (LC 16), 16=-224 (LC 16)

6-10, 5-12

Max Grav 10=1467 (LC 2), 16=1648 (LC 35)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-259/271, 2-4=-1531/211,

4-5=-1123/198, 5-6=-383/187, 6-7=-146/170,

7-8=-161/165, 8-9=-85/43

BOT CHORD 1-16=-146/244, 14-16=-382/251,

13-14=-357/1303, 12-13=-278/928,

11-12=-75/41, 10-11=-12/0, 7-10=-207/95,

9-10=-136/148

WEBS 6-10=-1070/222, 8-10=-94/129,

6-12=-143/711, 10-12=-149/362, 2-16=-1520/381, 5-12=-1039/272,

4-14=-228/147, 2-14=-255/1489,

4-13=-450/163, 5-13=-14/449

NOTES

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 22-1-0, Exterior(2E) 22-1-0 to 25-11-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 213 lb uplift at joint 10 and 224 lb uplift at joint 16.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard







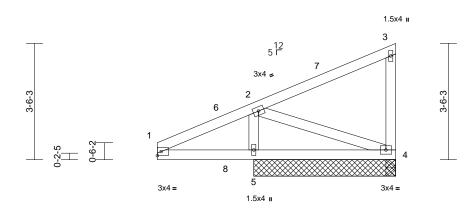
Ply Job Truss Truss Type Qty P210577 M12 Monopitch Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733524 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:yDF22JQ0Tzjtdwhhrxx6m9z9YW_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK WrCDoi7

| 2-11-0 | 7-2-8 |
|--------|-------|
| 2-11-0 | 4-3-8 |



| ١ | 2-11-0 | 7-2-8 |
|---|--------|-------|
| | 2-11-0 | 4-3-8 |

Scale = 1:34.9

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.44 | Vert(LL) | -0.01 | 4-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.17 | Vert(CT) | -0.02 | 4-5 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.15 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 32 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS 4=4-3-8, 5=4-3-8 (size) Max Horiz 5=147 (LC 15)

Max Uplift 4=-61 (LC 13), 5=-117 (LC 12)

Max Grav 4=154 (LC 22), 5=722 (LC 2) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-340/318, 2-3=-132/99, 3-4=-174/135

BOT CHORD 1-5=-205/333, 4-5=-265/264 WEBS 2-5=-626/481, 2-4=-205/242

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 7-0-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 4 and 117 lb uplift at joint 5.

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

LOAD CASE(S) Standard



June 6,2023

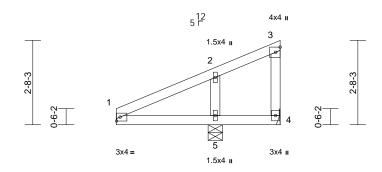


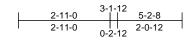


| | | | | | | RELEASE FOR CONSTRUCTION |
|---------|-------|------------|-----|-----|--------------------------|--|
| Job | Truss | Truss Type | Qty | Ply | | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733525 |
| P210577 | M13 | Monopitch | 1 | 1 | Job Reference (optional) | LETTE CHAMIT MICCOURT |

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







Scale = 1:36.6

| 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 | 0.59 | Vert(LL) | -0.01 | 4-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.54 | Vert(CT) | 0.01 | 4-5 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.14 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 20 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-2-8 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 4= Mechanical, 5=0-5-8

Max Horiz 5=108 (LC 13)

Max Uplift 4=-204 (LC 30), 5=-157 (LC 12)

Max Grav 4=54 (LC 12), 5=830 (LC 22) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-268/205, 2-3=-88/69, 3-4=-75/66

BOT CHORD 1-5=-137/270, 4-5=-110/137

WEBS 2-5=-535/441

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. Refer to girder(s) for truss to truss connections.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 204 lb uplift at joint 4 and 157 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023





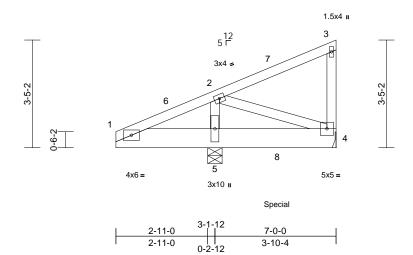
Ply Job Truss Truss Type Qtv P210577 MG01 Jack-Closed Girder

DEVELOPMENT SERVICES 158733526 LEE'S SUMMIT. MISSOURI Job Reference (optiona Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 rCDoi7J ID:8JLnhtQv_Bf4X_YxST7PIzz9Yiu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

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





Scale = 1:36.6

| 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 | 0.38 | Vert(LL) | -0.01 | 4-5 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.50 | Vert(CT) | -0.02 | 4-5 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.18 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | 1 | | | | | | | | | Weight: 36 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x8 SPF No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

4= Mechanical, 5=0-5-8 REACTIONS (size)

Max Horiz 5=136 (LC 13)

Max Uplift 4=-307 (LC 13), 5=-349 (LC 12)

Max Grav 4=639 (LC 22), 5=1238 (LC 2) (lb) - Maximum Compression/Maximum

FORCES

Tension TOP CHORD 1-2=-492/155, 2-3=-120/89, 3-4=-153/119

BOT CHORD 1-5=-140/481, 4-5=-206/412

WEBS 2-5=-443/574, 2-4=-370/192

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 6-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 307 lb uplift at joint 4 and 349 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1027 lb down and 469 lb up at 5-1-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-3=-78, 1-4=-20

Concentrated Loads (lb) Vert: 8=-1021 (F)

> OF MISS SCOTT M. SEVIER PE-2001018807

June 6,2023





Ply Job Truss Truss Type Qty 3 P210577 N01 Hip Girder Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733527 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Inc. ID:vndmfL7SAaEyMslp_t17a3z9XyC-RfC?PsB70Hq3NSgPqnL8w3uITXbGK VrCDoi7

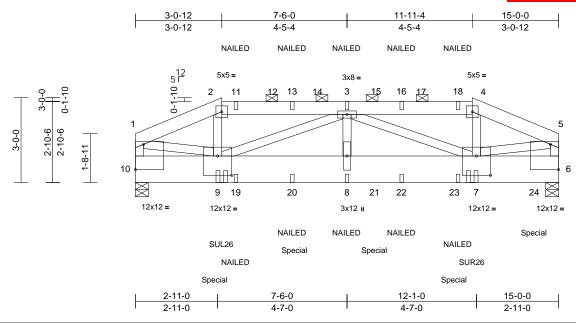


Plate Offsets (X, Y): [6:Edge,0-10-12], [7:0-6-0,0-8-4], [9:0-6-0,0-8-4], [10:Edge,0-10-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.32 | Vert(LL) | -0.05 | 8 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.26 | Vert(CT) | -0.11 | 8 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.63 | Horz(CT) | 0.01 | 6 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 373 lb | FT = 20% |

LUMBER

Scale = 1:40.8

TOP CHORD 2x6 SPF No 2 BOT CHORD 2x12 SP 2400F 2 0F

WEBS 2x4 SPF No.3 *Except* 10-1,9-1,6-5,7-5:2x4 SP No.2

BRACING

TOP CHORD

Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-4

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

bracing.

REACTIONS (size) 6=0-5-8, 10=0-5-8

10=41 (LC 13) Max Horiz Max Uplift 6=-1713 (LC 13), 10=-1485 (LC 12)

Max Grav 6=7608 (LC 2), 10=6311 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-8253/1991, 2-3=-7429/1833,

> 3-4=-7220/1822, 4-5=-8020/1979, 1-10=-5961/1455, 5-6=-5786/1445

BOT CHORD 9-10=-173/475, 8-9=-2677/11355,

7-8=-2677/11355, 6-7=-141/483 **WEBS**

2-9=-615/2800, 3-9=-4365/969, 3-8=-594/3279, 3-7=-4596/983,

4-7=-610/2705, 1-9=-1826/7644,

5-7=-1812/7405

NOTES

3-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x12 - 5 rows staggered at 0-7-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-0-12, Exterior(2R) 3-0-12 to 10-1-10, Interior (1) 10-1-10 to 11-11-4, Exterior(2E) 11-11-4 to 14-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1485 lb uplift at joint 10 and 1713 lb uplift at joint 6.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

- 12) Use Simpson Strong-Tie SUL26 (6-10d Girder, 6-10dx1 1/2 Truss) or equivalent at 3-0-12 from the left end to connect truss(es) to front face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
- 13) Use Simpson Strong-Tie SUR26 (6-10d Girder, 6-10dx1 1/2 Truss) or equivalent at 11-11-4 from the left end to connect truss(es) to front face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.
- 14) Fill all nail holes where hanger is in contact with lumber. 15) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- 16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2622 lb down and 405 lb up at 8-5-13, and 2388 lb down and 377 lb up at 14-1-11 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-78, 2-4=-88, 4-5=-78, 6-10=-20



June 6,2023

. 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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Ply Qty Job Truss Truss Type 3 P210577 N01 Hip Girder Job Reference (optional

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733527 LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 12 4 2 9 2 ID:vndmfL7SAaEyMslp_t17a3z9XyC-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK vrCDoi7 2 9 1

Concentrated Loads (lb)

Vert: 9=-2195 (F=354, B=-2549), 8=51 (F), 7=354 (F), 19=51 (F), 20=-2415 (F=51, B=-2466), 21=-2385 (B), 22=51 (F), 23=-2253 (F=51, B=-2304), 24=-2234



Ply Job Truss Truss Type Qty P210577 N02 Common Structural Gable

3-2-4

Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733528 LEE'S SUMMIT. MISSOURI

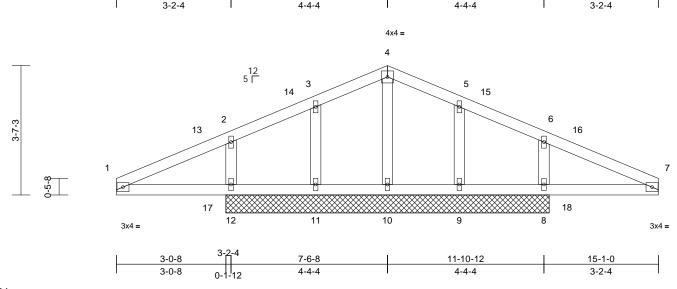
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Non Jun ID:ZkhdhXCo9xvfww9B95cLvsz9YUz-RfC?PsB70Hq3NSgPqnL8w3uITXbGk

11-10-12

4-4-4

15-1-0



7-6-8

4-4-4

Scale = 1:32.1

| 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 | 0.39 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.22 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.13 | Horiz(TL) | 0.00 | 8 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 58 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS OTHERS 2x4 SPF No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

10-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size)

8=9-0-0, 9=9-0-0, 10=9-0-0, 11=9-0-0, 12=9-0-0

Max Horiz 12=-62 (LC 17)

Max Uplift 8=-135 (LC 13), 9=-51 (LC 17) 11=-52 (LC 16), 12=-135 (LC 12)

Max Grav 8=522 (LC 36), 9=214 (LC 23),

10=497 (LC 2), 11=214 (LC 22),

12=522 (LC 35)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-303/422, 2-3=-216/372, 3-4=-156/374, 4-5=-156/374, 5-6=-216/372, 6-7=-303/422

BOT CHORD 1-12=-312/299, 11-12=-312/299,

10-11=-312/299, 9-10=-312/299

8-9=-312/299 7-8=-312/299

WEBS 4-10=-444/193, 6-8=-384/210 2-12=-384/210, 3-11=-205/128, 5-9=-205/128

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 7-6-8, Exterior(2R) 7-6-8 to 12-6-8, Interior (1) 12-6-8 to 15-1-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 135 lb uplift at joint 8, 135 lb uplift at joint 12, 52 lb uplift at joint 11 and 51 lb uplift at joint 9.
- 10) N/A
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard









Ply Job Truss Truss Type Qty P210577 N03 Common Girder 2

DEVELOPMENT SERVICES 158733529 LEE'S SUMMIT. MISSOURI Job Reference (optiona Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 🗗 ID:VfsEEreNg?SYFSv6FeFoMSz9YUP-RfC?PsB70Hq3NSgPqnL8w3uITXb0 KWrCD

4

3x6 II

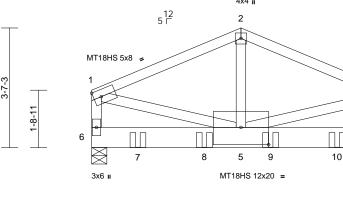
10=-2076 (B)

HUS26

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

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

4-6-0 9-0-0 4-6-0 4-6-0 4x4 II 5 T 2 MT18HS 5x8 👟



HUS26

4-6-0 9-0-0 4-6-0 4-6-0

HUS26

Scale = 1:34.7

Plate Offsets (X, Y): [5:0-10-0,0-6-4]

| Loading | (psf) | Spacing | 2-0-0 | CSI | - | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.Ó | Plate Grip DOL | 1.15 | TC | 0.59 | Vert(LL) | -0.03 | 5-6 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.31 | Vert(CT) | -0.07 | 5-6 | >999 | 180 | MT18HS | 197/144 |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.99 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | 1 | | | | | | | Weight: 116 lb | FT = 20% |

HUS26

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x8 SP 2400F 2.0E

WEBS 2x4 SPF No.3 *Except* 6-1,4-3:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-10-12 oc purlins, except end verticals.

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

bracing.

4=0-5-8, 6=0-5-8 REACTIONS (size)

Max Horiz 6=-50 (LC 14)

Max Uplift 4=-554 (LC 17), 6=-599 (LC 16)

Max Grav 4=4892 (LC 2), 6=5111 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-4722/670, 2-3=-4722/682, 1-6=-3317/552, 3-4=-3317/551

BOT CHORD 5-6=-90/78. 4-5=-27/30

WEBS 2-5=-325/3196, 1-5=-582/4492,

3-5=-609/4492

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-5-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI =1 60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.: Ce=0.9: Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 599 lb uplift at joint 6 and 554 lb uplift at joint 4.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss) or equivalent at 1-4-12 from the left end to connect truss(es) to back face of bottom chord.
- 12) Use Simpson Strong-Tie HUS26 (14-16d Girder, 6-16d Truss) or equivalent spaced at 2-0-0 oc max. starting at 3-4-12 from the left end to 7-4-12 to connect truss(es) to back face of bottom chord.
- 13) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-78, 2-3=-78, 4-6=-20

Concentrated Loads (lb)



Vert: 7=-1979 (B), 8=-2041 (B), 9=-1967 (B),

June 6,2023



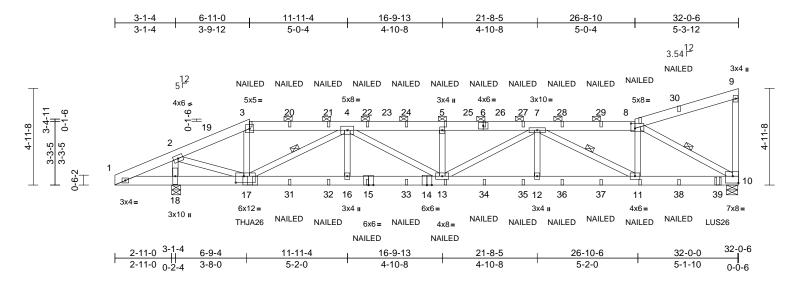


| Job | Truss | Truss Type | Qty | Ply | | , |
|---------|-------|---------------------|-----|-----|--------------------------|---|
| P210577 | P01 | Roof Special Girder | 1 | 1 | Job Reference (optional) | |

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733530 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:92hT1CcZraXCrl1UxShYcKz9YT9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7342



Scale = 1:59.2

Plate Offsets (X, Y): [8:0-2-8,0-3-0], [10:Edge,0-4-4], [17:0-5-0,0-4-0]

| 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 | TC | 0.47 | Vert(LL) | 0.22 | 12-13 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.99 | Vert(CT) | -0.44 | 12-13 | >787 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.97 | Horz(CT) | 0.11 | 10 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | 1 | | | | | | | | | Weight: 170 lb | FT = 20% |

LUMBER

2x6 SPF No 2 TOP CHORD BOT CHORD 2x6 SPF No 2 **WEBS** 2x4 SPF No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-3-2 oc purlins, except end verticals, and

2-0-0 oc purlins (3-1-4 max.): 3-8. Rigid ceiling directly applied or 5-8-15 oc

BOT CHORD bracing.

WEBS

1 Row at midpt 4-17, 7-11, 8-10 REACTIONS 10=0-7-0. 18=0-5-8 (size)

Max Horiz 18=208 (LC 13)

Max Uplift 10=-1121 (LC 16), 18=-844 (LC 16) Max Grav 10=2005 (LC 2), 18=1928 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

BOT CHORD

TOP CHORD 1-2=-359/359, 2-3=-1911/1058,

3-4=-1717/991, 4-5=-4794/1807 5-7=-4794/1807, 7-8=-3009/1110,

8-9=-159/92, 9-10=-262/132 1-18=-248/351, 17-18=-302/337,

16-17=-1670/3867, 13-16=-1670/3867,

12-13=-1631/4716, 11-12=-1631/4716,

10-11=-1131/3061

WEBS 3-17=-225/315, 4-17=-2452/795,

4-16=-40/130, 4-13=-224/1070, 5-13=-540/222, 7-13=-241/90, 7-12=0/264,

7-11=-1949/608, 8-11=-364/1104,

8-10=-3482/1256, 2-18=-1765/1022,

2-17=-1088/1926

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 6-11-0, Exterior(2R) 6-11-0 to 13-11-14. Interior (1) 13-11-14 to 31-10-10 zone: cantilever left and right exposed; end vertical left and right exposed C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this desian.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1121 lb uplift at joint 10 and 844 lb uplift at joint 18.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802 10 2 and referenced standard ANSI/TPI 1
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use Simpson Strong-Tie THJA26 (THJA26 on 1 ply, Left Hand Hip) or equivalent at 6-11-6 from the left end to connect truss(es) to front face of bottom chord.
- 10) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 30-11-12 from the left end to connect truss(es) to front face of bottom
- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 116 lb down and 84 lb up at 26-8-10 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-3=-78, 3-8=-88, 8-9=-78, 1-10=-20 Concentrated Loads (lb)

Vert: 3=-36 (F), 6=-32 (F), 15=25 (F), 17=257 (F), 5=-32 (F), 13=25 (F), 11=-28 (F), 8=-93 (F), 20=-32 (F), 21=-32 (F), 22=-32 (F), 24=-32 (F), 27=-91 (F), 28=-91 (F), 29=-91 (F), 30=-49 (F), 31=25 (F), 32=25 (F), 33=25 (F), 34=25 (F), 35=-30 (F), 36=-30 (F), 37=-30 (F), 38=-12 (F), 39=-30 (F)







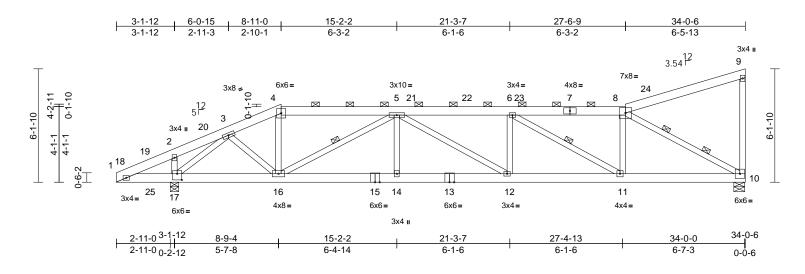
| Job | Truss | Truss Type | Qty | Ply | |
|---------|-------|--------------|-----|-----|-------------------------|
| P210577 | P02 | Roof Special | 1 | 1 | Job Reference (optional |

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733531 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 15 ID:eJMZWoRrbnDPdLokURQkvtz9YS4-RfC?PsB70Hq3NSgPqnL8w3uITXbc kWrCDbyJ



Scale = 1:62.3

Plate Offsets (X, Y): [17:0-3-0,0-4-0]

| 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 | TC | 0.46 | Vert(LL) | -0.15 | 12-14 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.72 | Vert(CT) | -0.35 | 12-14 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.88 | Horz(CT) | 0.10 | 10 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 185 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2 BOT CHORD 2x6 SPF No 2 **WEBS** 2x4 SPF No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-7-6 oc purlins, except end verticals, and

2-0-0 oc purlins (3-6-3 max.): 4-8.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

WEBS 1 Row at midpt 5-16, 6-11 **WEBS** 2 Rows at 1/3 pts 8-10

REACTIONS 10=0-7-0 17=0-5-8 (size)

Max Horiz 17=263 (LC 13)

Max Uplift 10=-310 (LC 16), 17=-355 (LC 16) Max Grav 10=1825 (LC 2), 17=2241 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-350/321, 2-3=-242/232, 3-4=-2423/427,

4-5=-2239/421, 5-6=-3860/655,

6-8=-2575/463, 8-9=-181/127, 9-10=-310/156 **BOT CHORD** 1-17=-205/339, 16-17=-514/1658,

14-16=-737/3794, 12-14=-737/3794

11-12=-700/3860, 10-11=-473/2541 4-16=-8/402, 5-16=-1792/329,

6-11=-1585/264, 8-11=-55/942,

8-10=-2922/507, 2-17=-519/244, 3-16=-157/870, 3-17=-2390/558, 5-14=0/250,

5-12=-18/175, 6-12=0/192

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 8-11-0, Exterior(2R) 8-11-0 to 15-11-14. Interior (1) 15-11-14 to 33-10-10 zone: cantilever left and right exposed; end vertical left and right exposed C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this desian.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 310 lb uplift at joint 10 and 355 lb uplift at joint 17.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802 10 2 and referenced standard ANSI/TPI 1
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

NOTES

WEBS





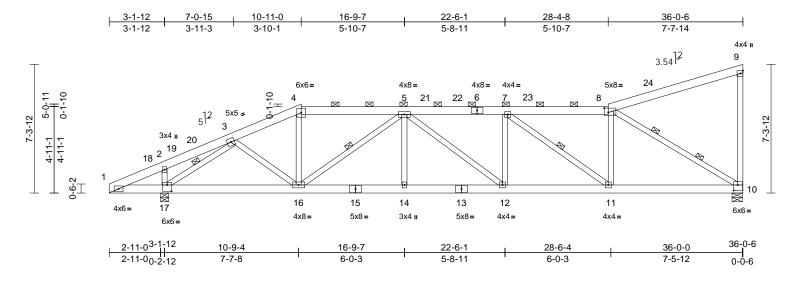


| Job | Truss | Truss Type | Qty | Ply | |
|---------|-------|--------------|-----|-----|-------------------------|
| P210577 | P03 | Roof Special | 1 | 1 | Job Reference (optional |

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733532 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:ACvuaiFspNfv9eQcv07R6?z9YR1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7342



Scale = 1:65.5

Plate Offsets (X, Y): [8:0-2-12,0-3-0], [10:0-2-12,0-3-12], [17:0-3-0,0-4-4]

| 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 | TC | 0.59 | Vert(LL) | -0.12 | 12-14 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.64 | Vert(CT) | -0.30 | 12-14 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.79 | Horz(CT) | 0.10 | 10 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 205 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2 BOT CHORD 2x6 SPF No.2

WEBS 2x4 SPF No.3 *Except* 10-8:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-3-4 oc purlins, except end verticals, and

2-0-0 oc purlins (3-9-2 max.): 4-8.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing. WEBS 1 Row at midpt

5-16, 7-11, 3-17 **WEBS** 2 Rows at 1/3 pts 8-10

REACTIONS 10=0-7-0 17=0-5-8 (size)

Max Horiz 17=318 (LC 13)

Max Uplift 10=-334 (LC 16), 17=-370 (LC 16)

Max Grav 10=1946 (LC 2), 17=2360 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-365/260, 2-3=-253/209, 3-4=-2745/477,

4-5=-2491/469, 5-7=-3478/633,

7-8=-2529/482, 8-9=-213/152, 9-10=-369/181

1-17=-144/351, 16-17=-675/2034,

14-16=-761/3484, 12-14=-761/3484, 11-12=-695/3478, 10-11=-497/2553

4-16=-26/525, 5-16=-1334/257,

7-11=-1332/248, 8-11=-49/939, 8-10=-2961/521, 2-17=-538/254,

3-16=-91/669. 3-17=-2683/652. 5-14=0/225.

5-12=-87/84, 7-12=0/220

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 10-11-0, Exterior(2R) 10-11-0 to 17-11-14. Interior (1) 17-11-14 to 35-10-10 zone: cantilever left and right exposed; end vertical left and right exposed C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0

Unbalanced snow loads have been considered for this design.

Provide adequate drainage to prevent water ponding.

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

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 334 lb uplift at joint 10 and 370 lb uplift at joint 17.

This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802 10 2 and referenced standard ANSI/TPI 1

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

LOAD CASE(S) Standard

NOTES

WEBS

BOT CHORD







Job Truss Truss Type Qtv Ply P210577 P04 Roof Special Job Reference (optiona

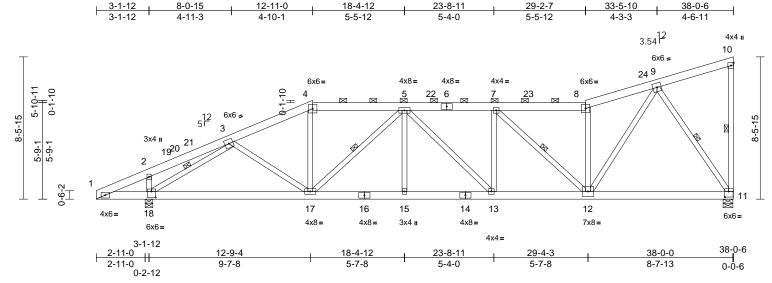
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733533 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:7Pcwiqu6KfLN0ozoWeatmAz9YQC-RfC?PsB70Hq3NSgPqnL8w3uITXbG

KWrCDoir 34292 f



Scale = 1:68.8

Plate Offsets (X, Y): [11:0-2-12,0-4-0], [18:0-3-0,0-4-4]

| 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 | TC | 0.70 | Vert(LL) | -0.12 | 13-15 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.62 | Vert(CT) | -0.29 | 13-15 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.85 | Horz(CT) | 0.09 | 11 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 228 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2 BOT CHORD 2x6 SPF No.2

WEBS 2x4 SPF No.3 *Except* 12-9:2x4 SP No.2

BRACING

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or

3-11-8 oc purlins, except end verticals, and 2-0-0 oc purlins (3-11-1 max.): 4-8.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

WEBS 1 Row at midpt 10-11, 5-17, 7-12, 9-11,

3-18

REACTIONS (size) 11=0-7-0, 18=0-5-8

Max Horiz 18=373 (LC 13)

Max Uplift 11=-359 (LC 16), 18=-385 (LC 16) Max Grav 11=2067 (LC 2), 18=2479 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-379/169, 2-3=-259/141, 3-4=-2992/513,

4-5=-2677/506, 5-7=-3303/630, 7-8=-2512/495, 8-9=-2644/546,

9-10=-188/152, 10-11=-182/94

BOT CHORD 1-18=-54/360, 17-18=-808/2408,

15-17=-781/3343, 13-15=-781/3343, 12-13=-709/3303, 11-12=-350/1206

WEBS 4-17=-32/584, 5-17=-1012/209,

7-12=-1178/283, 8-12=-1147/285 9-12=-397/2421, 9-11=-2178/444,

5-15=0/192, 5-13=-118/102, 7-13=-22/214,

2-18=-587/274, 3-17=-20/464,

3-18=-2939/735

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 12-11-0, Exterior(2R) 12-11-0 to 19-11-14. Interior (1) 19-11-14 to 37-10-10 zone: cantilever left and right exposed; end vertical left and right exposed C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 359 lb uplift at joint 11 and 385 lb uplift at joint 18.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802 10 2 and referenced standard ANSI/TPI 1
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard







| Job | Truss | Truss Type | Qty | Ply | |
|---------|-------|--------------|-----|-----|-------------------------|
| P210577 | P05 | Roof Special | 1 | 1 | Job Reference (optional |

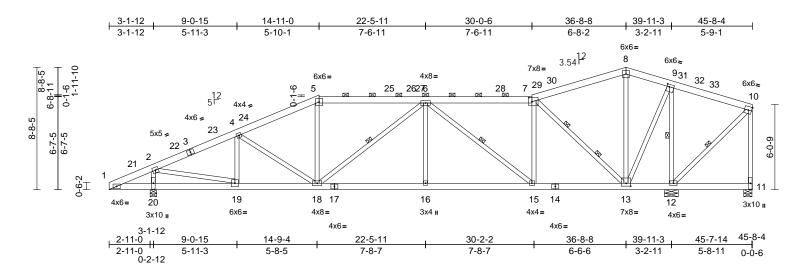
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733534 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 150 19942

ID:ye4uD7oXvOftu9d1rBvDmnz9YP2-RfC?PsB70Hq3NSgPqnL8w3uITXbGK_WrCDoi7s4z30



Scale = 1:81.8

Plate Offsets (X, Y): [7:0-2-12,0-3-8], [9:0-2-0,0-2-0], [13:0-4-0,0-2-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.58 | Vert(LL) | -0.12 | 16 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.54 | Vert(CT) | -0.28 | 16-18 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.97 | Horz(CT) | 0.07 | 11 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 281 lb | FT = 20% |

LUMBER

2x6 SPF No 2 TOP CHORD BOT CHORD 2x6 SPF No.2

WEBS 2x4 SPF No.3 *Except* 11-10,19-2:2x4 SP

No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-1-13 max.): 5-7.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

WEBS 1 Row at midpt 6-18, 6-15, 9-12, 10-12 **WEBS** 2 Rows at 1/3 pts 7-13

REACTIONS 11=0-7-0, 12=0-11-12, 20=0-5-8 (size)

Max Horiz 20=225 (LC 13) Max Uplift 11=-971 (LC 62), 12=-541 (LC 16),

20=-375 (LC 16)

11=188 (LC 16), 12=3891 (LC 2), 20=2421 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-320/124, 2-4=-2841/465

4-5=-2805/502, 5-6=-2487/500,

6-7=-1805/403, 7-8=-202/166, 8-9=-181/179,

9-10=-202/962, 10-11=-146/982 **BOT CHORD**

1-20=-21/307, 19-20=-212/311,

18-19=-633/2509, 16-18=-585/2776, 15-16=-585/2776, 13-15=-401/1824,

12-13=-841/298, 11-12=-112/124

WEBS 5-18=0/458, 6-18=-499/97, 6-16=0/307,

6-15=-1301/244, 7-15=-67/979, 2-20=-2210/614, 4-18=-212/166,

4-19=-531/212, 2-19=-532/2591, 8-13=-388/135, 7-13=-2412/440,

9-13=-386/2197, 9-12=-2823/631,

10-12=-1192/246

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0. Interior (1) 5-0-0 to 14-11-0, Exterior(2R) 14-11-0 to 19-11-0, Interior (1) 19-11-0 to 36-8-8, Exterior(2R) 36-8-8 to 41-8-8, Interior (1) 41-8-8 to 45-6-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 971 lb uplift at joint 11, 375 lb uplift at joint 20 and 541 lb uplift at joint 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 6,2023



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

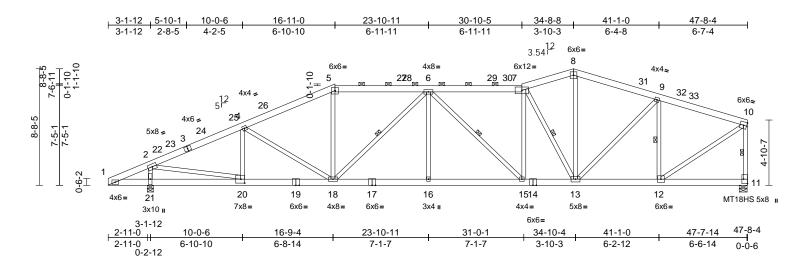


| Job | Truss | Truss Type | Qty | Ply | |
|---------|-------|--------------|-----|-----|--------------------------|
| P210577 | P06 | Roof Special | 1 | 1 | Job Reference (optional) |

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733535 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:ReDZ8vQ8fMDV89c0u6rQtlz9YOE-RfC?PsB70Hq3NSgPqnL8w3uITXbGI WrCDoi 2429



Scale = 1:85.9

Plate Offsets (X, Y): [11:Edge,0-3-8], [20:0-3-8,0-3-8]

| 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 | 0.53 | Vert(LL) | -0.19 | 15-16 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.80 | Vert(CT) | -0.46 | 15-16 | >999 | 180 | MT18HS | 197/144 |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.88 | Horz(CT) | 0.12 | 11 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 294 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2 BOT CHORD 2x6 SPF No 2

WEBS 2x4 SPF No.3 *Except* 11-10,12-10,2-20:2x4

SP No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or

3-1-15 oc purlins, except end verticals, and 2-0-0 oc purlins (3-2-10 max.): 5-7

BOT CHORD Rigid ceiling directly applied or 8-3-2 oc

bracing.

WEBS 1 Row at midpt 6-18, 6-15, 10-11, 7-13,

9-12

REACTIONS (size) 11=0-7-0. 21=0-5-8

> Max Horiz 21=171 (LC 16) Max Uplift 11=-252 (LC 12), 21=-450 (LC 16)

Max Grav 11=2650 (LC 2), 21=3055 (LC 2) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-301/10, 2-4=-4063/613, 4-5=-4018/725,

5-6=-3580/709, 6-7=-3926/787, 7-8=-3119/674, 8-9=-3177/661,

9-10=-2532/518, 10-11=-2586/520 **BOT CHORD** 1-21=0/285, 20-21=-159/316,

18-20=-761/3622, 16-18=-803/4254, 15-16=-803/4254, 13-15=-745/3931,

12-13=-489/2372, 11-12=-72/95

WEBS 5-18=-58/853, 6-18=-961/180, 6-16=0/292,

6-15=-590/151, 7-15=-36/503, 10-12=-508/2847, 2-21=-2811/726, 2-20=-699/3574, 4-20=-625/243, 4-18=-275/181, 8-13=-205/1291, 7-13=-2030/375, 9-13=-145/919,

9-12=-1489/387

NOTES

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 16-11-0. Exterior(2R) 16-11-0 to 21-11-0, Interior (1) 21-11-0 to 34-8-8, Exterior(2R) 34-8-8 to 39-8-8, Interior (1) 39-8-8 to 47-6-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 252 lb uplift at joint 11 and 450 lb uplift at joint 21.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 6,2023



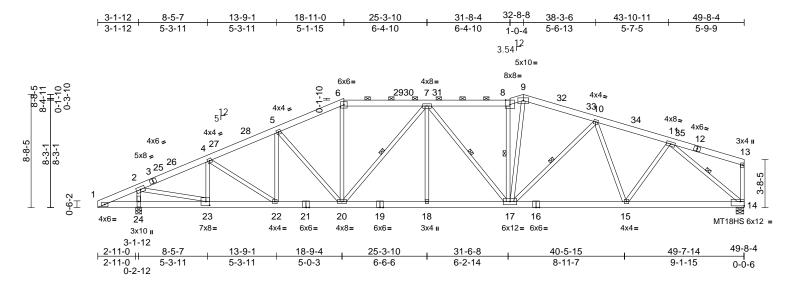


Job Truss Truss Type Qtv Ply P210577 P07 Roof Special Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733536 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:hSNgIEMRW1wat__pvnjTU_z9YN1-RfC?PsB70Hq3NSgPqnL8w3uITXbG

KWrCDol73



Scale = 1:88.6

Plate Offsets (X, Y): [8:0-4-0,Edge], [14:Edge,0-4-0], [23:0-3-8,0-3-8]

| 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 | 0.50 | Vert(LL) | -0.19 | 17-18 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.75 | Vert(CT) | -0.45 | 17-18 | >999 | 180 | MT18HS | 197/144 |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.95 | Horz(CT) | 0.15 | 14 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 311 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2 BOT CHORD 2x6 SPF No 2

WEBS 2x4 SPF No.3 *Except* 14-13,14-11,23-2:2x4

SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-4-0 oc purlins, except end verticals, and

2-0-0 oc purlins (3-2-14 max.): 6-8 **BOT CHORD** Rigid ceiling directly applied or 8-10-3 oc

bracing.

WEBS 1 Row at midpt 7-20, 7-17, 8-17, 11-14,

10-17

REACTIONS (size) 14=0-7-0. 24=0-5-8

Max Horiz 24=160 (LC 20) Max Uplift 14=-413 (LC 13), 24=-340 (LC 12)

Max Grav 14=2771 (LC 2), 24=3174 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-310/100, 2-4=-3954/560,

4-5=-4334/742, 5-6=-4064/779,

6-7=-3658/749, 7-8=-3865/801,

8-9=-3976/826, 9-10=-3879/780 10-11=-3606/684, 11-13=-156/120,

13-14=-256/103

BOT CHORD 1-24=0/299, 23-24=-118/297,

22-23=-633/3540, 20-22=-704/3912,

18-20=-685/4151, 17-18=-685/4151, 15-17=-613/3605, 14-15=-536/2784

6-20=-113/1000, 7-20=-943/189, 7-18=0/238,

WEBS 7-17=-644/107, 8-17=-1215/270,

9-17=-284/1695, 11-14=-3661/648,

2-24=-2934/719. 2-23=-692/3634. 4-23=-873/270, 4-22=-99/481,

5-22=-158/104. 5-20=-547/197

10-17=-140/320, 10-15=-692/184,

11-15=-65/1028

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16: Vult=115mph (3-second aust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0. Interior (1) 5-0-0 to 18-11-0, Exterior(2R) 18-11-0 to 23-11-0, Interior (1) 23-11-0 to 32-8-8, Exterior(2R) 32-8-8 to 37-8-8, Interior (1) 37-8-8 to 49-6-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- 5) Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 413 lb uplift at joint 14 and 340 lb uplift at joint 24.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 6,2023



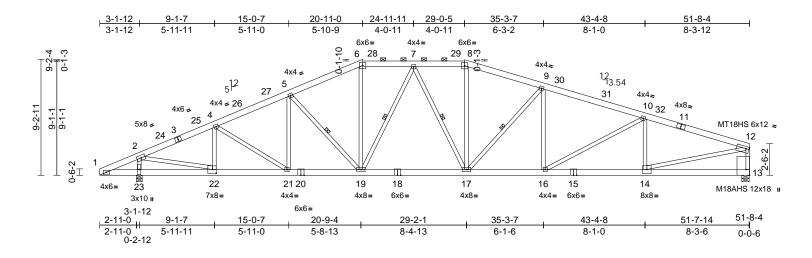


| Job | Truss | Truss Type | Qty | Ply | |
|---------|-------|------------|-----|-----|-------------------------|
| P210577 | P08 | Hip | 1 | 1 | Job Reference (optional |

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733537 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Non Jun 650 29 kt ID:sO76JR6Kw4knJWkkYoq0?3z9YM3-RfC?PsB70Hq3NSgPqnL8w3ulTXbq KWrCDox34sa7f4 9:45



Scale = 1:91.6

Plate Offsets (X, Y): [12:0-3-0,0-2-0], [13:Edge,0-3-8], [22:0-3-8,0-3-8]

| Loading | (psf) | Spacing | 2-0-0 | csı | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.79 | Vert(LL) | -0.22 | 16-17 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.87 | Vert(CT) | -0.53 | 17-19 | >999 | 180 | M18AHS | 142/136 |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.95 | Horz(CT) | 0.15 | 13 | n/a | n/a | MT18HS | 197/144 |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 314 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2 BOT CHORD 2x6 SPF No.2

WEBS 2x4 SPF No.3 *Except* 13-12,22-2:2x4 SP No.2, 14-12:2x4 SP 1650F 1.5E

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-10 oc purlins, except end verticals, and 2-0-0 oc purlins (3-6-7 max.): 6-8

BOT CHORD Rigid ceiling directly applied or 8-2-2 oc

bracing.

1 Row at midpt 7-19, 7-17, 9-17, 5-19

WEBS REACTIONS

13=0-7-0, 23=0-5-8

(size)

Max Horiz 23=171 (LC 16)

Max Uplift 13=-418 (LC 13), 23=-342 (LC 16)

Max Grav 13=2891 (LC 2), 23=3294 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-298/56, 2-4=-4305/714, 4-5=-4564/890,

5-6=-4169/893, 6-7=-3736/869, 7-8=-4026/918, 8-9=-4298/924,

9-10=-4914/976, 10-12=-4791/861,

12-13=-2797/576

BOT CHORD 1-23=-8/285, 22-23=-140/284,

21-22=-692/3853, 19-21=-758/4115, 17-19=-692/3988, 16-17=-784/4600,

14-16=-807/4497, 13-14=-72/169

6-19=-172/1076, 7-19=-767/195,

7-17=-219/279, 8-17=-96/710,

9-17=-919/258, 9-16=0/227, 12-14=-758/4466, 2-23=-3047/773,

5-19=-649/232, 4-22=-811/275,

2-22=-768/3870 4-21=-79/380 5-21=-87/99

10-16=-15/283, 10-14=-959/307

NOTES

WEBS

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-2-0, Interior (1) 5-2-0 to 20-11-0, Exterior(2R) 20-11-0 to 28-2-11, Interior (1) 28-2-11 to 29-0-5, Exterior(2R) 29-0-5 to 36-4-1, Interior (1) 36-4-1 to 51-6-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 418 lb uplift at joint 13 and 342 lb uplift at joint 23.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 6,2023





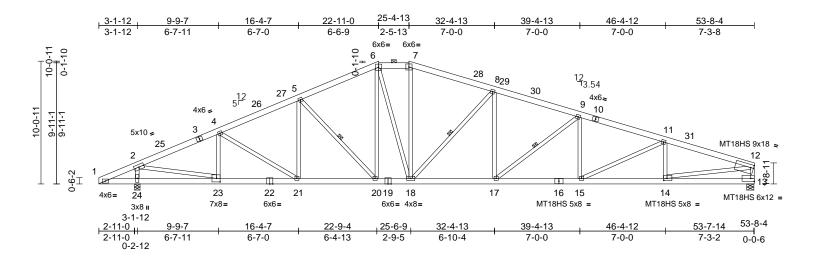
Truss Type Job Truss Qtv Ply P210577 P09 Hip Job Reference (optiona

DEVELOPMENT SERVICES 158733538 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:tCiO0tjKvl9YwL7X10Fzapz9YLG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV



Scale = 1:94.4

Plate Offsets (X, Y): [12:Edge,0-3-0], [14:0-3-4,0-2-0], [23:0-3-8,0-3-8]

| 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 | 0.74 | Vert(LL) | -0.26 | 15-17 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.79 | Vert(CT) | -0.64 | 15-17 | >947 | 180 | MT18HS | 244/190 |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.98 | Horz(CT) | 0.14 | 13 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 352 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2

BOT CHORD 2x6 SP 2400F 2.0E *Except* 22-19:2x6 SPF

No.2

WEBS 2x4 SPF No.3 *Except* 13-12,23-2:2x4 SP

No.2, 14-12:2x4 SP 1650F 1.5E

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-3 oc purlins, except end verticals, and 2-0-0 oc purlins (3-6-9 max.): 6-7.

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

bracing, Except:

9-2-11 oc bracing: 21-23 8-11-14 oc bracing: 20-21.

WEBS 1 Row at midpt 8-18, 5-20, 9-17

REACTIONS 13=0-7-0, 24=0-5-8 (size)

Max Horiz 24=184 (LC 20)

Max Uplift 13=-425 (LC 13), 24=-366 (LC 16)

Max Grav 13=3012 (LC 2), 24=3413 (LC 2) (lb) - Maximum Compression/Maximum

FORCES

TOP CHORD

Tension 1-2=-276/40, 2-4=-4627/730, 4-5=-4818/883,

5-6=-4246/873, 6-7=-3945/881,

7-8=-4219/880, 8-9=-5262/1002

9-11=-6010/1054, 11-12=-5810/984, 12-13=-2890/562

BOT CHORD 1-24=-20/263, 23-24=-170/259,

21-23=-646/4141, 20-21=-680/4331,

18-20=-533/3795, 17-18=-738/4956,

15-17=-883/5671, 14-15=-915/5478,

13-14=-107/389

WEBS 6-20=-127/655, 6-18=-180/767, 7-18=-109/713, 8-18=-1534/339,

2-24=-3106/776, 12-14=-822/5172,

5-20=-822/256, 4-23=-774/267, 2-23=-770/4012. 4-21=-41/298. 5-21=-5/215.

8-17=-53/718, 9-17=-958/230, 9-15=0/227,

11-15=-23/388, 11-14=-862/258

NOTES

- Unbalanced roof live loads have been considered for 1)
- this design.
- Wind: ASCE 7-16: Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-4-7, Interior (1) 5-4-7 to 22-11-0, Exterior(2E) 22-11-0 to 25-4-13, Exterior(2R) 25-4-13 to 32-11-15, Interior (1) 32-11-15 to 53-6-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding. All plates are MT20 plates unless otherwise indicated.
- All plates are 4x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 425 lb uplift at
- joint 13 and 366 lb uplift at joint 24. 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

LOAD CASE(S) Standard



June 6,2023





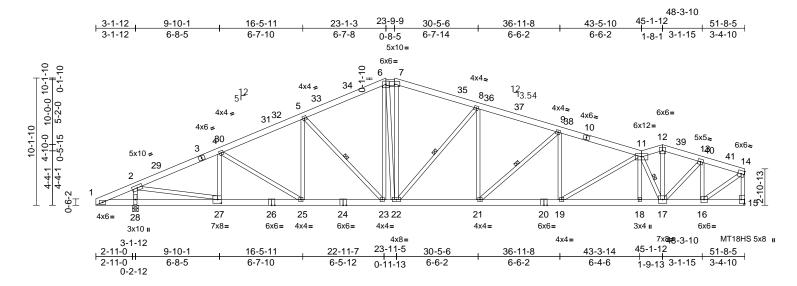
| Job | Truss | Truss Type | Qty | Ply | |
|---------|-------|--------------|-----|-----|------------------------|
| P210577 | P10 | Roof Special | 1 | 1 | Job Reference (options |

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733539 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:F2CG2HD6irnypPcMl2T2bzz9YJK-RfC?PsB70Hq3NSgPqnL8w3ulTXbGkWrCDoi734z



Scale = 1:91.8

Plate Offsets (X, Y): [15:Edge,0-3-8], [27:0-3-8,0-3-8]

| 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 | 0.63 | Vert(LL) | -0.24 | 19-21 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.96 | Vert(CT) | -0.58 | 19-21 | >998 | 180 | MT18HS | 197/144 |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.96 | Horz(CT) | 0.18 | 15 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 336 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2 BOT CHORD 2x6 SPF No 2

WEBS 2x4 SPF No.3 *Except* 15-14,16-14,27-2:2x4 SP No.2

BRACING

TOP CHORD

Structural wood sheathing directly applied or

2-5-9 oc purlins, except end verticals, and

2-0-0 oc purlins (3-7-2 max.): 6-7

BOT CHORD bracing.

(size)

Rigid ceiling directly applied or 2-2-0 oc

WEBS 1 Row at midpt 11-17, 8-22, 9-21, 5-23 REACTIONS 15= Mechanical, 28=0-5-8

Max Horiz 28=189 (LC 20)

Max Uplift 15=-404 (LC 13), 28=-364 (LC 16) Max Grav 15=2892 (LC 2), 28=3294 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-295/30, 2-4=-4443/653, 4-5=-4617/786,

5-6=-4023/789, 6-7=-3619/777, 7-8=-3876/779, 8-9=-4781/886,

9-11=-5433/946, 11-12=-3873/728, 12-13=-3897/715, 13-14=-2690/504,

14-15=-2834/527

BOT CHORD 1-28=-12/279, 27-28=-169/288,

25-27=-653/3993, 23-25=-667/4149,

22-23=-534/3584, 21-22=-708/4496,

19-21=-846/5156, 18-19=-860/5001, 17-18=-863/5002, 16-17=-482/2528,

15-16=-45/73

WEBS 7-22=-167/838, 14-16=-551/3124,

2-28=-3044/752, 6-22=-129/581,

11-18=-12/115, 11-17=-3227/524

12-17=-311/1799, 13-17=-255/1761, 13-16=-1874/393, 8-22=-1457/320,

8-21=-65/740, 9-21=-934/216, 9-19=-48/224,

11-19=-32/407, 6-23=-95/559, 5-23=-854/261 4-27=-714/251

2-27=-728/3918, 4-25=-32/232, 5-25=0/239

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-2-0, Interior (1) 5-2-0 to 23-1-3, Exterior(2E) 23-1-3 to 23-9-9, Exterior(2R) 23-9-9 to 28-11-9, Interior (1) 28-11-9 to 45-1-12, Exterior(2R) 45-1-12 to 50-3-12, Interior (1) 50-3-12 to 51-6-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- 4) Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated. All plates are 4x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 404 lb uplift at joint 15 and 364 lb uplift at joint 28.

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

LOAD CASE(S) Standard





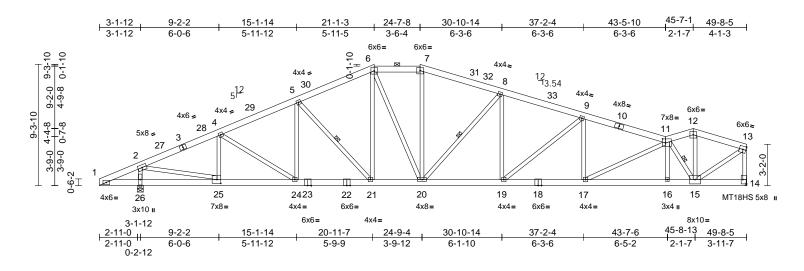


| Job | Truss | Truss Type | Qty | Ply | |
|---------|-------|--------------|-----|-----|-----------------------|
| P210577 | P11 | Roof Special | 1 | 1 | Job Reference (option |

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733540 LEE'S SUMMIT. MISSOURI

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

ID:0Drr7uY6oeeL?J0Wk9Sr29z9YHc-RfC?PsB70Hq3NSgPqnL8w3uITXbGK WrCDoi75-2J97



Scale = 1:88.4

Plate Offsets (X, Y): [11:0-2-12,0-3-12], [14:Edge,0-3-8], [25:0-3-8,0-3-8]

| 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 | 0.58 | Vert(LL) | -0.21 | 19 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.88 | Vert(CT) | -0.51 | 17-19 | >999 | 180 | MT18HS | 197/144 |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.91 | Horz(CT) | 0.16 | 14 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 311 lb | FT = 20% |

LUMBER

2x6 SPF No 2 TOP CHORD BOT CHORD 2x6 SPF No 2

WEBS 2x4 SPF No.3 *Except* 14-13,15-13,25-2:2x4

SP No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or

2-7-5 oc purlins, except end verticals, and 2-0-0 oc purlins (3-9-2 max.): 6-7

BOT CHORD Rigid ceiling directly applied or 8-0-2 oc

bracing. (size)

WEBS 1 Row at midpt 8-20, 11-15, 5-21 REACTIONS 14= Mechanical, 26=0-5-8

Max Horiz 26=175 (LC 20)

Max Uplift 14=-397 (LC 13), 26=-339 (LC 16)

Max Grav 14=2771 (LC 2), 26=3174 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-302/71, 2-4=-4116/620, 4-5=-4327/776,

5-6=-3880/798, 6-7=-3655/817,

7-8=-3904/816, 8-9=-4739/908,

9-11=-5229/937, 11-12=-2610/525

12-13=-2684/515, 13-14=-2721/517

BOT CHORD 1-26=-5/289, 25-26=-144/300, 24-25=-652/3679, 21-24=-695/3892,

20-21=-586/3470, 19-20=-755/4461,

17-19=-857/4960, 16-17=-798/4441,

15-16=-795/4443, 14-15=-47/68

WFBS 6-21=-111/597, 6-20=-156/673, 7-20=-67/619. 8-20=-1253/282.

13-15=-534/3071, 8-19=-35/558,

9-19=-701/177, 9-17=-192/106,

11-17=-67/739 11-16=0/140

12-15=-172/1148, 11-15=-3449/569, 2-26=-2932/740, 5-21=-701/228,

4-25=-764/260, 2-25=-721/3696

4-24=-61/329, 5-24=-42/158

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16: Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 21-1-3, Exterior(2E) 21-1-3 to 24-7-8, Exterior(2R) 24-7-8 to 29-7-8, Interior (1) 29-7-8 to 45-7-1, Exterior(2E) 45-7-1 to 49-6-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding. 5)
- All plates are MT20 plates unless otherwise indicated. 6) All plates are 4x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 397 lb uplift at joint 14 and 339 lb uplift at joint 26.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 6,2023





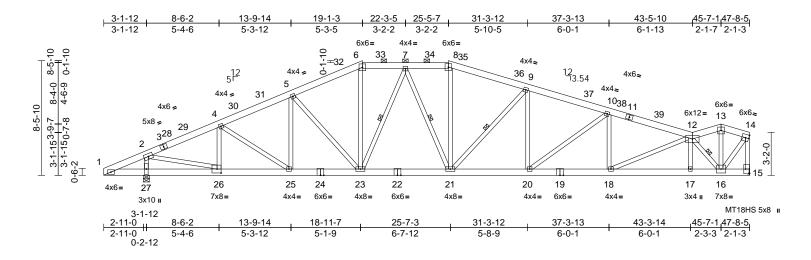
| Job |) | Truss | Truss Type | Qty | Ply | | |
|-----|-------|-------|--------------|-----|-----|--------------------------|--|
| P2 | 10577 | P12 | Roof Special | 1 | 1 | Job Reference (optional) | |

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733541 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:v3B3EWQGrmi7eNXLyHkkzLz9YGU-RfC?PsB70Hq3NSgPqnL8w3uITXb

KWrCDoi7



Scale = 1:85.1

Plate Offsets (X, Y): [15:Edge,0-3-8], [26:0-3-8,0-3-8]

| 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 | 0.54 | Vert(LL) | -0.19 | 20-21 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.84 | Vert(CT) | -0.46 | 20-21 | >999 | 180 | MT18HS | 197/144 |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.85 | Horz(CT) | 0.15 | 15 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 298 lb | FT = 20% |

LUMBER

2x6 SPF No 2 TOP CHORD BOT CHORD 2x6 SPF No 2

WEBS 2x4 SPF No.3 *Except* 15-14,16-14,26-2:2x4

SP No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or

2-8-15 oc purlins, except end verticals, and 2-0-0 oc purlins (3-8-10 max.): 6-8

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

WEBS 1 Row at midpt 9-21, 12-16, 7-23, 7-21

REACTIONS 15= Mechanical, 27=0-5-8 (size) Max Horiz 27=159 (LC 16)

Max Uplift 15=-388 (LC 13), 27=-315 (LC 16)

Max Grav 15=2651 (LC 2), 27=3055 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

Tension

1-2=-310/120, 2-4=-3777/573 4-5=-4097/743, 5-6=-3791/761

6-7=-3400/743, 7-8=-3718/803,

8-9=-3961/805, 9-10=-4656/879

10-12=-4954/872, 12-13=-1587/331,

13-14=-1579/327, 14-15=-2580/464 **BOT CHORD** 1-27=-17/299, 26-27=-119/302,

25-26=-625/3375, 23-25=-697/3694,

21-23=-652/3627, 20-21=-767/4383,

18-20=-826/4695, 17-18=-651/3652,

16-17=-654/3648, 15-16=-44/62

WEBS

6-23=-148/980, 8-21=-76/641,

9-21=-1016/247, 14-16=-443/2528, 12-17=0/178, 12-16=-3483/579,

13-16=-125/681, 9-20=-15/397,

10-20=-444/139, 10-18=-350/151,

12-18=-191/1201. 2-27=-2820/711. 5-23=-525/200, 4-26=-819/265,

2-26=-678/3469 4-25=-92/422

5-25=-122/102, 7-23=-750/174,

7-21=-107/377

NOTES

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

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 19-1-3, Exterior(2R) 19-1-3 to 24-1-3, Interior (1) 24-1-3 to 25-5-7, Exterior(2R) 25-5-7 to 30-5-7, Interior (1) 30-5-7 to 45-7-1, Exterior(2E) 45-7-1 to 47-6-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber

DOL=1.60 plate grip DOL=1.60 TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.: Ce=0.9: Cs=1.00: Ct=1.10. Lu=50-0-0

- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated. All plates are 4x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 388 lb uplift at joint 15 and 315 lb uplift at joint 27.

- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802 10 2 and referenced standard ANSI/TPI 1
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 6,2023





| Job | Truss | Truss Type | Qty | Ply | |
|---------|-------|--------------|-----|-----|--------------------------|
| P210577 | P13 | Roof Special | 1 | 1 | Job Reference (optional) |

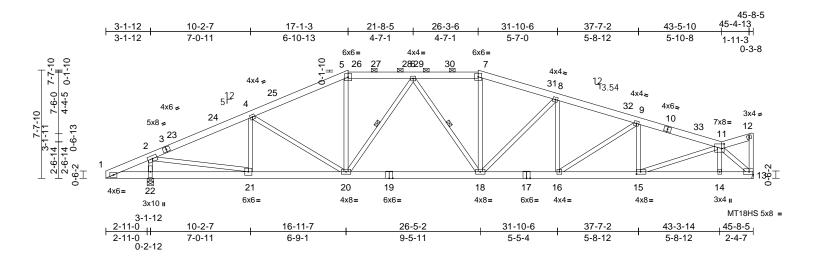
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733542 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:SVoFR2ed3oRoFvIIN_2QZez9YEv-RfC?PsB70Hq3NSgPqnL8w3uITXbGi

WrCDoi



Scale = 1:81.3

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

| 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 | TC | 0.47 | Vert(LL) | -0.17 | 16-18 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.80 | Vert(CT) | -0.43 | 18-20 | >999 | 180 | MT18HS | 197/144 |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.95 | Horz(CT) | 0.13 | 13 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 267 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2 BOT CHORD 2x6 SPF No.2

WEBS 2x4 SPF No.3 *Except* 13-12,21-2:2x4 SP

No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-0-5 oc purlins, except end verticals, and 2-0-0 oc purlins (3-7-6 max.): 5-7

BOT CHORD Rigid ceiling directly applied or 8-5-7 oc

bracing.

WEBS 1 Row at midpt 6-20, 6-18

REACTIONS 13= Mechanical, 22=0-5-8 (size) Max Horiz 22=143 (LC 16)

Max Uplift 13=-379 (LC 13), 22=-300 (LC 12)

Max Grav 13=2530 (LC 2), 22=2935 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-302/25, 2-4=-3874/621, 4-5=-3756/699,

5-6=-3334/695, 6-7=-3762/779,

7-8=-4001/782, 8-9=-4541/843,

9-11=-4578/787, 11-12=-88/59, 12-13=-97/39

BOT CHORD 1-22=-6/286, 21-22=-114/281,

20-21=-664/3445, 18-20=-688/3723,

16-18=-757/4278, 15-16=-759/4319, 14-15=-420/2425, 13-14=-424/2421

5-20=-82/840, 7-18=-53/626,

2-22=-2694/722, 4-20=-272/198, 4-21=-576/231, 2-21=-689/3388,

6-20=-850/206, 6-18=-204/245, 11-14=0/166,

8-18=-806/221, 8-16=0/206, 9-16=-106/121,

9-15=-565/198, 11-15=-361/2011,

11-13=-3415/563

NOTES

WEBS

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 17-1-3, Exterior(2R) 17-1-3 to 22-1-3, Interior (1) 22-1-3 to 26-3-6, Exterior(2R) 26-3-6 to 31-3-6, Interior (1) 31-3-6 to 45-6-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated. 6)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 379 lb uplift at joint 13 and 300 lb uplift at joint 22.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 6,2023





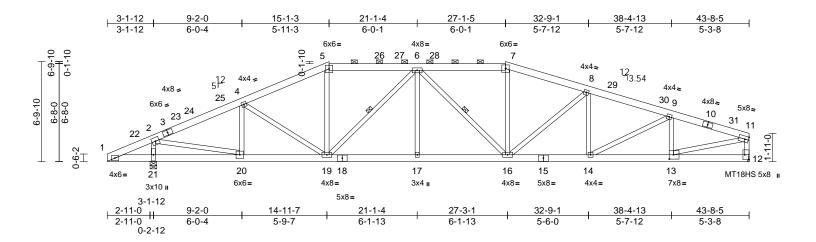
| Job | Truss | Truss Type | Qty | Ply | | Г |
|---------|-------|------------|-----|-----|--------------------------|---|
| P210577 | P14 | Hip | 1 | 1 | Job Reference (optional) | |

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Von Jun 15 ID:7nJTC53SCxVZdUS?XH747cz9YBo-RfC?PsB70Hq3NSgPqnL8w3ulTXbc KWrCDo-

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733543 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:78.4

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

| 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 | 0.38 | Vert(LL) | -0.17 | 16-17 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.72 | Vert(CT) | -0.40 | 16-17 | >999 | 180 | MT18HS | 197/144 |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.88 | Horz(CT) | 0.11 | 12 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 252 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2 BOT CHORD 2x6 SPF No 2

WEBS 2x4 SPF No.3 *Except* 12-11,13-11,20-2:2x4

SP No.2

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied or

3-3-12 oc purlins, except end verticals, and

2-0-0 oc purlins (3-6-2 max.): 5-7. **BOT CHORD** Rigid ceiling directly applied or 8-9-4 oc

bracing.

1 Row at midpt 6-19, 6-16

REACTIONS 12= Mechanical, 21=0-5-8 (size)

Max Horiz 21=123 (LC 20)

Max Uplift 12=-365 (LC 13), 21=-314 (LC 12)

Max Grav 12=2409 (LC 2), 21=2816 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-308/96, 2-4=-3517/617, 4-5=-3603/725,

5-6=-3217/715, 6-7=-3762/815, 7-8=-4002/819, 8-9=-4377/855,

9-11=-3853/709, 11-12=-2326/478

BOT CHORD 1-21=-5/296, 20-21=-81/293,

19-20=-563/3130, 17-19=-673/3891,

16-17=-673/3891, 14-16=-716/4126,

13-14=-676/3628, 12-13=-59/165

5-19=-86/777, 6-19=-1088/220, 6-17=0/232,

6-16=-427/78, 7-16=-49/567, 8-16=-596/189,

11-13=-642/3606, 2-21=-2586/704, 4-19=-80/310, 4-20=-656/249,

2-20=-684/3177, 8-14=-155/108,

9-14=-93/570, 9-13=-941/262

NOTES

WEBS

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 15-1-3, Exterior(2R) 15-1-3 to 22-2-1, Interior (1) 22-2-1 to 27-1-5, Exterior(2R) 27-1-5 to 34-2-3, Interior (1) 34-2-3 to 43-6-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 365 lb uplift at joint 12 and 314 lb uplift at joint 21.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 6,2023



a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

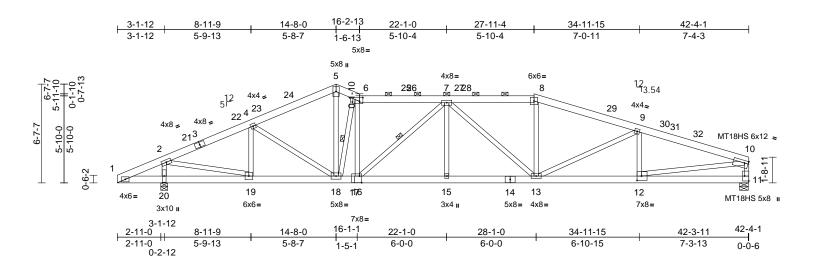


| Job | Truss | Truss Type | Qty | Ply | |
|---------|-------|--------------|-----|-----|---------------|
| P210577 | P15 | Roof Special | 1 | 1 | Job Reference |

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733544 LEE'S SUMMIT. MISSOURI

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

ce (optiona Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:UqE4X2xE?MiCuiX1l6xCb?z9YAf-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK_VrCDoi7342



Scale = 1:77.2

Plate Offsets (X, Y): [6:0-2-12,0-3-0], [10:0-3-0,0-2-0], [11:Edge,0-3-8], [12:0-3-8,0-3-8], [17:0-1-12,0-5-4]

| 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 | TC | 0.59 | Vert(LL) | -0.20 | 15-16 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.84 | Vert(CT) | -0.48 | 15-16 | >979 | 180 | MT18HS | 197/144 |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.99 | Horz(CT) | 0.11 | 11 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 247 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2 BOT CHORD 2x6 SPF No 2

WEBS 2x4 SPF No.3 *Except* 11-10,12-10,19-2:2x4

SP No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or

2-11-15 oc purlins, except end verticals, and 2-0-0 oc purlins (3-4-11 max.): 6-8

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

WEBS 1 Row at midpt 7-16, 6-18 REACTIONS 11=0-7-0, 20=0-5-8 (size)

Max Horiz 20=120 (LC 16)

Max Uplift 11=-347 (LC 13), 20=-256 (LC 16)

Max Grav 11=2328 (LC 2), 20=2736 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

Tension

1-2=-313/146, 2-4=-3334/532, 4-5=-3459/654, 5-6=-3406/689,

6-7=-3680/726, 7-8=-3902/781,

8-9=-4176/787, 9-10=-4361/772, 10-11=-2225/464

BOT CHORD 1-20=-40/301, 19-20=-77/301,

18-19=-465/2962, 16-18=-576/3690,

15-16=-692/4259, 13-15=-692/4259,

12-13=-713/4092, 11-12=-90/316

6-16=-47/465, 7-16=-891/188, 7-15=0/254, 7-13=-581/85, 8-13=-30/568, 9-13=-427/113,

9-12=-591/219. 5-18=-374/2252.

6-18=-2119/382, 10-12=-633/3838,

2-20=-2505/651, 4-18=-73/334,

4-19=-670/243, 2-19=-609/3021

NOTES

WEBS

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 14-8-0. Exterior(2E) 14-8-0 to 16-2-13, Interior (1) 16-2-13 to 27-11-4, Exterior(2R) 27-11-4 to 32-11-4, Interior (1) 32-11-4 to 42-2-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 347 lb uplift at joint 11 and 256 lb uplift at joint 20.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 6,2023



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 chorembers 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

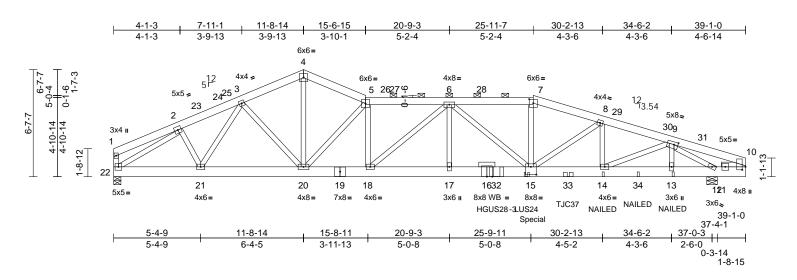


| | | | | | | RELEASE FOR CONSTRUCTION |
|---------|-------|---------------------|-----|-----|--------------------------|--|
| Job | Truss | Truss Type | Qty | Ply | | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733545 |
| P210577 | P16 | Roof Special Girder | 1 | 3 | Job Reference (optional) | LETTE CHMMIT MICCOURT |

DEVELOPMENT SERVICES 158733545 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Non Jun 65 2395 ID:9uQVYbQa64oe8MZtPdXHp0z9Nhy-RfC?PsB70Hq3NSgPqnL8w3ulTXbQ KWrCDo-343-74



Scale = 1:71.3

Plate Offsets (X, Y): [7:0-3-0,0-2-15], [9:0-2-15,0-2-0], [10:0-2-3,0-2-8], [15:0-4-0,0-5-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.23 | Vert(LL) | -0.15 | 15-17 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.58 | Vert(CT) | -0.34 | 15-17 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.70 | Horz(CT) | 0.07 | 12 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 801 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2

2x8 SP 2400F 2.0E *Except* 22-19:2x8 SPF **BOT CHORD** No.2

WEBS 2x4 SPF No.3 *Except* 22-1:2x4 SP No.2

OTHERS 2x4 SP No.2

Right 2x4 SP No.2 -- 1-6-0 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.

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

REACTIONS 12=0-7-12, 22=0-5-6 (size)

Max Horiz 22=-119 (LC 103)

Max Uplift 12=-1257 (LC 13), 22=-524 (LC 13)

Max Grav 12=5469 (LC 2), 22=3896 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-551/156, 2-3=-5819/1182,

3-4=-6744/1380, 4-5=-6774/1373 5-6=-10244/2014, 6-7=-12239/2482,

7-8=-12647/2540, 8-9=-11175/2405,

9-10=-2509/576, 1-22=-441/134

21-22=-860/4860, 20-21=-1012/5905, **BOT CHORD**

18-20=-1809/10185, 17-18=-2292/12757, 15-17=-2292/12757, 14-15=-2191/10647,

13-14=-1588/7053, 12-13=-1588/7053,

10-12=-475/2217

WEBS 4-20=-904/4726, 5-20=-6093/1211,

8-15=-126/1867, 8-14=-1714/209,

2-21=-130/1078, 3-21=-1195/260,

3-20=-127/650, 5-18=-323/1779,

6-17=-204/1862, 6-18=-3453/707, 7-15=-552/3051, 6-15=-834/276,

2-22=-5530/1060, 9-14=-663/3952,

9-13=-950/101, 9-12=-5888/1442

NOTES

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x6 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 4 rows staggered at 0-4-0 oc.
- Web connected as follows: 2x4 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 11-8-14, Exterior(2E) 11-8-14 to 15-6-15, Interior (1) 15-6-15 to 25-11-7, Exterior(2R) 25-11-7 to 30-11-7, Interior (1) 30-11-7 to 39-1-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 524 lb uplift at joint 22 and 1257 lb uplift at joint 12.

- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord
- 12) Use Simpson Strong-Tie HGUS28-3 (36-16d Girder, 6-16d Truss) or equivalent at 23-8-4 from the left end to connect truss(es) to back face of bottom chord.
- 13) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 25-6-10 from the left end to connect truss(es) to back face of bottom chord.
- 14) Use Simpson Strong-Tie TJC37 (6 nail, 30-90) or equivalent at 28-1-6 from the left end to connect truss (es) to back face of bottom chord, skewed 22.5 deg.to the left, sloping 0.0 deg. down.
- 15) Fill all nail holes where hanger is in contact with lumber.
- 16) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.



June 6,2023

Continued on page 2

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



Ply Job Truss Truss Type Qty P16 3 P210577 Roof Special Girder Job Reference (optional

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733545 LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION

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

17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 371 lb down and 131 lb up at 25-11-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-4=-78, 4-5=-78, 5-7=-88, 7-10=-78, 10-22=-20 Concentrated Loads (lb) Vert: 15=-813 (B), 14=-171 (B), 13=182 (B), 32=-3367 (B), 33=-304 (B), 34=-34 (B)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 15) 152 4/29 2 ID:9uQVYbQa64oe8MZtPdXHp0z9Nhy-RfC?PsB70Hq3NSgPqnL8w3uITXbc KWrCDow 34207i



Qty Ply Job Truss Truss Type P210577 Q01 Roof Special Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733546 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:zZrJt0MBm76Eb4jmsz3PWOz9YA6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDo

1-10-0 6-9-8 11-9-0 17-3-13 23-6-0 4-11-8 4-11-8 5-6-13 6-2-3 4x6= 4 12 5 Г 2-3-13 3x4 = 6x6= 4x8= 3 155 6 16 14 1-9-12 4-3-10 5x5= 4x6= 2 4-3-10 2-5-14 2-5-14 2-5-14 2-5-14 11 10 9 8 12 3x4 II 1.5x4 II 3x4= 3x8= 5x5= 5x5 = 3x4 = 1-8-4 6-9-8 11-9-0 17-5-9 23-6-0 1-8-4 5-1-4 4-11-8 5-8-9 6-0-7

| Sua | le = | 1.5 | 1.0 |
|-----|------|-----|-----|
| | | | |

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.93 | Vert(LL) | -0.05 | 8-9 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.49 | Vert(CT) | -0.14 | 8-9 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.82 | Horz(CT) | 0.04 | 7 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | I | | | | | | | Weight: 127 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 5-6:2x4 SP 1650F

1.5F

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

BRACING

Structural wood sheathing directly applied, TOP CHORD

except end verticals, and 2-0-0 oc purlins

(4-0-12 max.): 1-2. 5-6. Rigid ceiling directly applied or 9-1-6 oc **BOT CHORD**

bracing.

REACTIONS (size) 7= Mechanical, 13= Mechanical

Max Horiz 13=169 (LC 13)

Max Uplift 7=-177 (LC 17), 13=-162 (LC 16) Max Grav 7=1392 (LC 2), 13=1395 (LC 43)

(lb) - Maximum Compression/Maximum FORCES

Tension

1-13=-1374/195, 1-2=-976/159, TOP CHORD

2-3=-1922/286, 3-4=-1575/314,

4-5=-1579/297, 5-6=-1576/303,

6-7=-1334/258

BOT CHORD 12-13=-256/217. 11-12=-377/1063.

9-11=-420/1691, 8-9=-330/1609, 7-8=-65/94

1-12=-230/1669, 2-12=-1312/250, 5-8=-929/259, 6-8=-310/1856, 4-9=-63/592,

5-9=-437/127, 3-9=-474/150, 3-11=-176/104,

2-11=-106/687

NOTES

WEBS

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 1-10-0, Interior (1) 1-10-0 to 11-9-0, Exterior(2R) 11-9-0 to 16-9-0, Interior (1) 16-9-0 to 23-4-4 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 162 lb uplift at joint 13 and 177 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard



June 6,2023



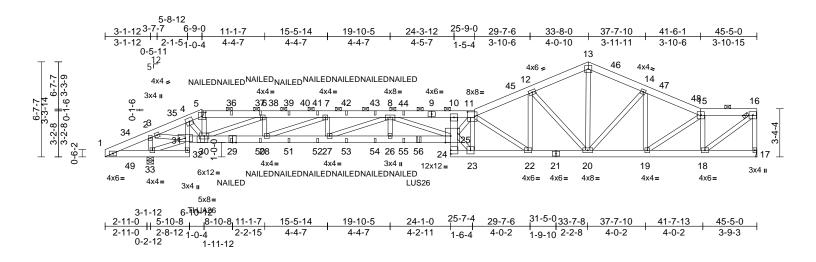
| Job | Truss | Truss Type | Qty | Ply | | |
|---------|-------|---------------------|-----|-----|-------------------------|--|
| P210577 | Q02 | Roof Special Girder | 1 | 3 | Job Reference (optional | |

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733547 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. 10n Jun 150 2935 ID:D?9zREXTc7frZbu9r2mOG7z9Y7J-RfC?PsB70Hq3NSgPqnL8w3ulTXbGi WrCDoi 3423 27 27



Scale = 1:80.3

Plate Offsets (X, Y): [5:0-3-0,0-3-5], [11:0-6-0,0-3-12], [25:0-4-8,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 | TC | 0.63 | Vert(LL) | -0.47 | 25-26 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.80 | Vert(CT) | -1.09 | 25-26 | >465 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.79 | Horz(CT) | 0.24 | 17 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 816 lb | FT = 20% |

LUMBER **BOT CHORD**

TOP CHORD 2x6 SPF No 2

2x6 SPF No.2 *Except* 32-4:2x4 SPF No.3,

10-24:1 1/2" x 5 1/2" 2.0E Microllam® LVL,

29-25:2x6 SP 2400F 2.0E

2x4 SPF No.3 *Except* 23-25,25-11:2x4 SP

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and

2-0-0 oc purlins (5-8-9 max.): 5-11, 15-16.

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

bracing, Except:

6-0-0 oc bracing: 1-33,31-32.

17= Mechanical, 33=0-5-8 REACTIONS (size)

Max Horiz 33=127 (LC 13)

Max Uplift 17=-404 (LC 17), 33=-968 (LC 16)

Max Grav 17=2921 (LC 2), 33=3225 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=-293/224, 2-3=-1135/463, 3-4=-4473/1603, 4-5=-5484/1919,

5-6=-5369/1882, 6-7=-10834/2992 7-8=-15476/3804, 8-10=-19419/4018,

10-11=-17245/3553, 11-12=-7589/1443, 12-13=-4698/894, 13-14=-4668/880,

14-15=-4585/816, 15-16=-3338/585,

16-17=-2834/478

BOT CHORD 1-33=-106/288, 32-33=-84/207,

31-32=-41/58, 4-31=-1294/420, 30-31=-1539/4158, 28-30=-2998/10834,

27-28=-3809/15476, 26-27=-4285/19124,

25-26=-4285/19124, 24-25=-133/643,

10-25=-146/117, 23-24=-854/4122, 22-23=-2440/12133. 20-22=-1319/6939

19-20=-751/4185, 18-19=-608/3470,

17-18=-49/78

WEBS

31-33=-225/285, 23-25=-1917/9703,

11-25=-1908/8750, 11-23=-6495/1341,

15-18=-2631/495, 16-18=-684/4216, 2-33=-2994/1015, 3-31=-1365/4089,

5-30=-422/1237, 4-30=-544/1763,

6-30=-5917/1203. 8-25=-231/771.

6-28=-245/1832, 7-28=-5000/874,

7-27=-112/1421, 8-27=-3929/512.

8-26=-121/870, 12-22=-758/3726,

11-22=-6412/1417, 12-20=-3988/901,

13-20=-574/3098. 14-20=-158/306.

14-19=-479/161, 15-19=-179/894

NOTES

3-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been

provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

Unbalanced roof live loads have been considered for this design.

Wind: ASCE 7-16: Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0. Interior (1) 5-0-0 to 6-9-0, Exterior(2R) 6-9-0 to 11-9-0, Interior (1) 11-9-0 to 33-8-0, Exterior(2R) 33-8-0 to 38-8-0, Interior (1) 38-8-0 to 45-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip

5) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0

Unbalanced snow loads have been considered for this desian.

Provide adequate drainage to prevent water ponding.

All plates are 6x6 MT20 unless otherwise indicated.

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

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

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 404 lb uplift at joint 17 and 968 lb uplift at joint 33.

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

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



June 6,2023

Continued on page 2

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

DOL=1.60



Qty Job Truss Truss Type Ply 3 P210577 Q02 Roof Special Girder Job Reference (optiona

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

LEE'S SUMMIT, MISSOURI Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 19 2022 MiTek Industries, Industries,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 158733547

14) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Left Hand Hip) or equivalent at 6-9-6 from the left end to connect truss(es) to front face of bottom chord.

- 15) Use Simpson Strong-Tie LUS26 (4-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent at 21-10-4 from the left end to connect truss(es) to front face of bottom chord.
- 16) Fill all nail holes where hanger is in contact with lumber.
- 17) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

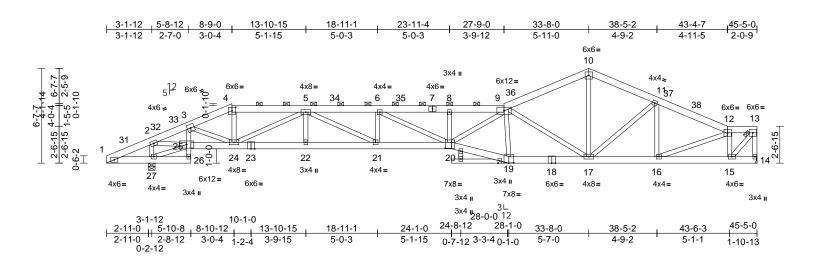
Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-5=-78, 5-11=-88, 11-13=-78, 13-15=-78, 15-16=-88, 1-32=-20, 25-31=-20, 17-24=-20 Concentrated Loads (lb) Vert: 5=-3 (F), 30=263 (F), 55=-105 (F), 56=-871 (F)



| | | | | | | RELEASE FOR CONSTRUCTION |
|---------|-------|--------------|-----|-----|--------------------------|---|
| Job | Truss | Truss Type | Qty | Ply | | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES |
| P210577 | Q03 | Roof Special | 1 | 2 | Job Reference (optional) | DEVELOPMENT SERVICES 158733548 LEE'S SUMMIT, MISSOURI |

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 15 10 11 ID:nb_ZAGO8oxWCV0WjDKXzN6z9Y3c-RfC?PsB70Hq3NSgPqnL8w3uITXt GKWrCDe7742/C1



Scale = 1:80.5

Plate Offsets (X, Y): [4:0-3-0,0-2-15], [19:0-4-0,0-0-4], [20:0-5-4,0-5-0]

| 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 | TC | 0.35 | Vert(LL) | -0.32 | 20-21 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.88 | Vert(CT) | -0.76 | 20-21 | >662 | 180 | 1 | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.97 | Horz(CT) | 0.21 | 14 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 519 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2

BOT CHORD 2x6 SPF No.2 *Except* 26-3:2x4 SPF No.3,

28-19:2x4 SP No.2

WEBS 2x4 SPF No.3 *Except* 29-30:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-15 max.): 4-9, 12-13.

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

bracing, Except:

6-0-0 oc bracing: 1-27,25-26.

REACTIONS (size) 14= Mechanical, 27=0-5-8

Max Horiz 27=123 (LC 16)

Max Uplift 14=-231 (LC 16), 27=-439 (LC 16)

Max Grav 14=2513 (LC 2), 27=2919 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=-247/284, 2-3=-3966/658,

3-4=-4943/789, 4-5=-4670/767 5-6=-9583/1426, 6-8=-10180/1453,

8-9=-10180/1453, 9-10=-3879/515,

10-11=-3853/532, 11-12=-3845/478 12-13=-1985/253, 13-14=-2424/265

BOT CHORD 1-27=-178/241, 26-27=-39/178,

25-26=-47/50, 3-25=-741/209,

24-25=-647/3641, 22-24=-1166/7714,

21-22=-1166/7714, 20-21=-1393/9583, 19-20=-1020/7577, 17-19=-959/7209,

16-17=-419/3489, 15-16=-265/2146,

14-15=-37/74

WEBS

25-27=-333/273, 3-24=-220/1059,

4-24=-154/1340, 8-20=-444/132, 9-20=-523/3467, 9-19=-1671/293,

12-15=-2349/318, 13-15=-323/3024,

9-17=-4356/696, 10-17=-264/2390,

2-27=-2614/474, 2-25=-563/3688,

5-24=-3422/486, 6-20=-95/799, 5-22=0/170, 5-21=-255/2099, 6-21=-844/180,

11-17=-226/206, 11-16=-481/124,

12-16=-167/1460

NOTES

2-ply truss to be connected together with 10d

(0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B),

unless otherwise indicated.

Unbalanced roof live loads have been considered for

this design.

DOL=1.60

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 8-9-0, Exterior (2R) 8-9-0 to 13-10-15, Interior (1) 13-10-15 to 33-8-0, Exterior(2R) 33-8-0 to 38-5-2, Interior (1) 38-5-2 to 45-3-4 zone; cantilever left and right exposed; end vertical left and right exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip

- 5) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 231 lb uplift at joint 14 and 439 lb uplift at joint 27.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 6,2023



Design Valid to its 90 mly with win New Commercials. This design is based only upon parameters shown, and is 10 at an individual outlining 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

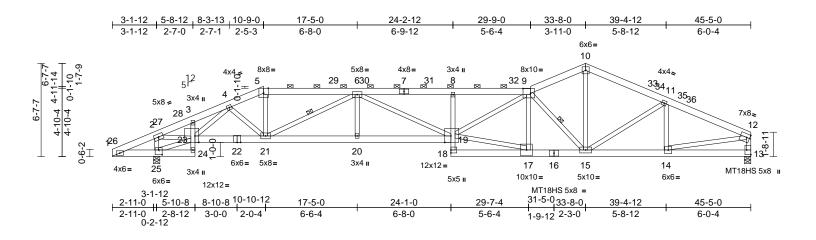


| Job | Truss | Truss Type | Qty | Ply | | |
|---------|-------|--------------|-----|-----|--------------------------|--|
| P210577 | Q04 | Roof Special | 1 | 1 | Job Reference (optional) | |

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733549 LEE'S SUMMIT. MISSOURI

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

kun: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. 10n Jun 15 12045 ID: gUJtX3qWm2Bb4nJp1IJvRYz9X3n-RfC?PsB70Hq3NSgPqnL8w3ulTXbGi WrCDoi 1942 Set 1



Scale = 1:81.9

Plate Offsets (X, Y): [5:0-4-2,Edge], [9:0-6-8,0-4-0], [12:0-2-8,0-3-0], [13:Edge,0-3-8], [19:0-5-4,Edge], [23:0-3-4,Edge], [25:0-3-0,0-4-0]

| 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 | TC | 0.91 | Vert(LL) | -0.40 | 19-20 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 1.00 | Vert(CT) | -0.97 | 19-20 | >523 | 180 | MT18HS | 197/144 |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.96 | Horz(CT) | 0.29 | 13 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 278 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2

BOT CHORD 2x6 SPF No.2 *Except* 24-3:2x4 SPF No.3, 8-18:2x4 SP No.2, 22-19:2x6 SP 2400F 2.0E **WEBS** 2x4 SPF No.3 *Except* 17-19:2x4 SP 1650F

1.5E, 19-9,13-12,14-12,23-2,15-10:2x4 SP

No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-2-2 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 5-9.

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing.

WFBS 1 Row at midpt 6-21, 9-15 13=0-5-8 25=0-5-8 REACTIONS (size)

> Max Horiz 25=120 (LC 16) Max Uplift 13=-231 (LC 16), 25=-439 (LC 16)

Max Grav 13=2513 (LC 2), 25=2919 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-252/308, 2-3=-4083/672,

3-4=-4107/720, 4-5=-4830/777, 5-6=-4553/751, 6-8=-7737/1141, 8-9=-7676/1136, 9-10=-3846/532

10-11=-3875/531, 11-12=-3821/464, 12-13=-2424/315

BOT CHORD 1-25=-198/246, 24-25=-40/162,

23-24=-42/49, 3-23=-134/68, 21-23=-703/4332, 20-21=-1018/7013, 19-20=-1018/7013, 18-19=0/144, 8-19=-776/211, 17-18=-91/652, 15-17=-692/5500, 14-15=-386/3426,

13-14=-53/228

WEBS

23-25=-340/282, 5-21=-140/1279, 6-21=-2778/399, 6-20=0/305, 6-19=-101/809, 17-19=-605/4902, 9-19=-444/2725,

9-17=-903/186, 12-14=-342/3276, 2-25=-2613/473, 2-23=-579/3830, 4-21=-66/342, 4-23=-785/234, 10-15=-304/2440, 9-15=-3072/505

11-14=-649/162, 11-15=-186/275

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 10-9-0, Exterior(2R) 10-9-0 to 15-9-0, Interior (1) 15-9-0 to 33-8-0, Exterior(2R) 33-8-0 to 38-8-0, Interior (1) 38-8-0 to 45-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 439 lb uplift at joint 25 and 231 lb uplift at joint 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

LOAD CASE(S) Standard



June 6,2023



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 chorembers 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



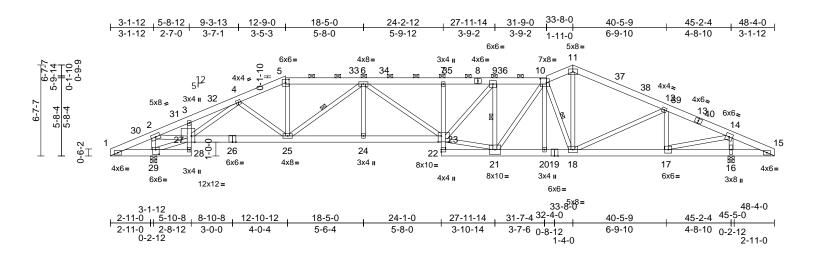
| Job | Truss | Truss Type | Qty | Ply | | Г |
|---------|-------|--------------|-----|-----|--------------------------|---|
| P210577 | Q05 | Roof Special | 1 | 1 | Job Reference (optional) | |

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 15 12014 ID:XCTq13AaJMVDkRZvqnHAIFz9X0m-RfC?PsB70Hq3NSgPqnL8w3uITXbQ KWrCDor7J42e0?i

LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733550



Scale = 1:83.9

Plate Offsets (X, Y): [5:0-3-0,0-2-15], [10:0-5-8,0-3-8], [23:0-2-12,0-5-4], [27:0-3-4,Edge], [29:0-3-0,0-4-0]

| 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 | TC | 0.59 | Vert(LL) | -0.29 | 7 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.95 | Vert(CT) | -0.69 | 23-24 | >726 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.94 | Horz(CT) | 0.24 | 16 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 297 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2

BOT CHORD 2x6 SPF No.2 *Except* 28-3,7-22:2x4 SPF

No.3, 26-23:2x6 SP 2400F 2.0E

WEBS 2x4 SPF No.3 *Except* 27-2,18-11,17-14:2x4

SP No.2, 23-21:2x4 SP 1650F 1.5E

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-2-9 oc purlins, except

2-0-0 oc purlins (2-7-2 max.): 5-10. BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing.

WEBS 1 Row at midpt 6-25, 10-18, 9-21

REACTIONS (size) 16=0-5-8, 29=0-5-8

Max Horiz 29=-116 (LC 17)

Max Uplift 16=-260 (LC 17), 29=-439 (LC 16)

Max Grav 16=2900 (LC 2), 29=2900 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-254/308, 2-3=-4073/669,

3-4=-4135/729, 4-5=-4644/751,

5-6=-4309/725, 6-7=-6105/939, 7-9=-6076/935, 9-10=-4812/730

10-11=-3689/526, 11-12=-3815/524,

12-14=-3408/380, 14-15=-256/227

BOT CHORD 1-29=-199/248, 28-29=-47/143,

27-28=-43/49, 3-27=-200/87, 25-27=-700/4330, 24-25=-812/5727,

23-24=-812/5727, 22-23=0/94, 7-23=-496/145, 21-22=-70/433,

20-21=-497/4211, 18-20=-497/4214, 17-18=-284/3059, 16-17=-129/248,

15-16=-129/248

WEBS

27-29=-328/279, 5-25=-150/1298,

6-25=-1862/288, 6-23=-61/467, 10-20=-92/27, 2-29=-2598/468,

2-27=-580/3830, 11-18=-314/2305,

10-18=-2396/429. 14-16=-2673/431.

12-18=-75/532, 12-17=-871/224,

14-17=-451/3257, 9-21=-1988/369 9-23=-311/1938 10-21=-206/1166

21-23=-565/4526, 6-24=0/245,

4-25=-241/123, 4-27=-706/252

NOTES

Unbalanced roof live loads have been considered for 1)

this design. Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope)

exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 12-9-0, Exterior(2R) 12-9-0 to 17-9-0, Interior (1) 17-9-0 to 33-8-0, Exterior(2R) 33-8-0

to 38-8-0, Interior (1) 38-8-0 to 48-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for

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

TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully

Exp.: Ce=0.9: Cs=1.00: Ct=1.10. Lu=50-0-0 Unbalanced snow loads have been considered for this design.

Provide adequate drainage to prevent water ponding.

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

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 439 lb uplift at joint 29 and 260 lb uplift at joint 16.

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

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

LOAD CASE(S) Standard



June 6,2023

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

Design Valid to its 90 mly with win New Commercials. This design is based only upon parameters shown, and is 10 at an individual outlining 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



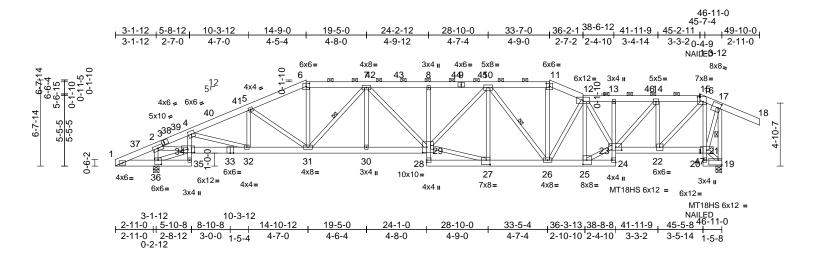
| ſ | Job | Truss | Truss Type | Qty | Ply | | |
|---|---------|-------|---------------------|-----|-----|-------------------------|--|
| | P210577 | Q06 | Roof Special Girder | 1 | 1 | Job Reference (optional | |

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733551 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 02026 ID:x3xzjHAe3FXcnweHX0B0_Lz9WwJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbG (WrCDoW4429C4)



Scale = 1:89.1

[3:0-2-4,0-2-0], [6:0-3-0,0-2-15], [11:0-3-0,0-2-15], [15:0-5-0,0-4-8], [17:0-2-2,0-4-0], [19:Edge,0-4-8], [23:0-5-8,0-2-12], [24:Edge,0-3-8], [25:0-3-8,0-4-0], Plate Offsets (X, Y): [27:0-3-8,0-4-4], [29:0-3-12,0-5-0], [34:0-6-4,0-3-0], [36:0-3-0,0-4-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.55 | Vert(LL) | -0.26 | 8 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.90 | Vert(CT) | -0.62 | 29-30 | >840 | 180 | MT18HS | 197/144 |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.98 | Horz(CT) | 0.28 | 19 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | 1 | | | | | | |
| BCDL | 10.0 | | | | | 1 | | | | | Weight: 336 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No.2

BOT CHORD 2x6 SPF No.2 *Except* 35-4,24-13,16-20:2x4 SPF No.3, 8-28:2x4 SP No.2, 33-29:2x6 SP

2400F 2.0E

WEBS 2x4 SPF No.3 *Except* 27-29:2x4 SP 1650F

1.5E, 25-23,23-14,22-16,19-17,34-2:2x4 SP

No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-11-10 oc purlins. except end verticals, and 2-0-0 oc purlins (2-10-10 max.): 6-11, 12-15.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

WFBS 7-31 10-26 17-19 1 Row at midpt

REACTIONS (size) 19=0-5-8, 36=0-5-8

Max Horiz 36=172 (LC 15) Max Uplift 19=-903 (LC 13), 36=-378 (LC 12)

Max Grav 19=2678 (LC 2), 36=2989 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-253/244, 2-4=-4187/586,

4-5=-4980/675, 5-6=-4662/698,

6-7=-4285/667 7-8=-5506/907 8-10=-5487/904. 10-11=-3881/675

11-12=-4168/710, 12-13=-4179/756

13-14=-4185/756, 14-15=-2708/570,

15-16=-2636/585, 16-17=-779/360,

17-18=0/131, 17-19=-2567/917

BOT CHORD

1-36=-146/247, 35-36=-41/151, 34-35=-46/52, 4-34=-706/236,

32-34=-638/3906, 31-32=-678/4546,

30-31=-808/5174, 29-30=-808/5174, 28-29=0/108, 8-29=-489/139, 27-28=-77/460,

26-27=-732/4519, 25-26=-700/4040,

24-25=-72/366, 23-24=0/68, 13-23=-404/102, 22-23=-573/2705, 21-22=-230/562,

20-21=-37/36, 16-21=-1702/253,

19-20=-24/109

WEBS 34-36=-355/331, 4-32=-207/687,

5-32=-98/131, 5-31=-536/172, 6-31=-164/1325, 7-31=-1523/257,

7-30=0/233, 7-29=-101/525,

27-29=-670/4153, 10-29=-218/1479,

10-27=-820/210, 10-26=-1143/199,

11-26=-173/1251, 12-26=-454/175

12-25=-1581/306 23-25=-679/3974

12-23=-151/380, 14-23=-351/2310,

14-22=-2175/382, 16-22=-506/3160,

2-36=-2682/431, 2-34=-552/3951,

19-21=-190/139, 17-21=-550/1621

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 14-9-0, Exterior(2R) 14-9-0 to 19-9-0, Interior (1) 19-9-0 to 33-7-0, Exterior(2E) 33-7-0 to 36-2-1, Interior (1) 36-2-1 to 45-2-11, Exterior(2E) 45-2-11 to 49-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 378 lb uplift at joint 36 and 903 lb uplift at joint 19.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 6,2023

Continued on page 2

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Ply Job Truss Truss Type Qty P210577 Q06 Roof Special Girder Job Reference (optional

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733551 LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION

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

- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 12) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails
- per NDS guidelines. 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S) Standard
- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-6=-78, 6-11=-88, 11-12=-78, 12-15=-88, 15-17=-78, 17-18=-78, 1-35=-20, 29-34=-20, 24-28=-20, 21-23=-20, 19-20=-20

Concentrated Loads (lb) Vert: 15=138 (F), 47=113 (F)

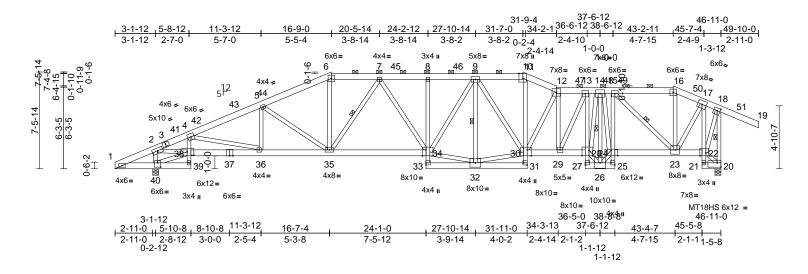


| Job | Truss | Truss Type | Qty | Ply | |
|---------|-------|--------------|-----|-----|--------------------------|
| P210577 | Q07 | Roof Special | 1 | 1 | Job Reference (optional) |

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733552 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 15 12019 ID:RmLuJBsunSV6P1cyXeA4_9z9Wsr-RfC?PsB70Hq3NSgPqnL8w3ulTXbc KWrCDow44207f



| Scal | le | = | 1 | ٠ | R | g | 12 |
|------|----|---|---|---|---|---|----|
| | | | | | | | |

| [10:0-4-9,Edge], [18:0-2-12,0-2-8], [20:Edge,0-4-0] | [22:0-5-8,Edge], [24:0-6-4,0-5-0], [25:Edge,0-3-8], [28:0-6-8,0-5-0], [30:0-3-12,Edge], [31:Edge,0-3-8], |
|--|--|
| Plate Offsets (X-Y): [34:0-3-8 Edge] [38:0-6-4 0-3-0] [40:0-3-0 0-4-0] | |

| 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 | TC | 0.44 | Vert(LL) | -0.29 | 8 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.96 | Vert(CT) | -0.70 | 34-35 | >752 | 180 | MT18HS | 197/144 |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.98 | Horz(CT) | 0.41 | 20 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | 1 | | | | | | | Weight: 364 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No.2 **BOT CHORD**

2x6 SPF No.2 *Except*

39-4,8-33,31-11,17-21:2x4 SPF No.3, 13-27,25-15:2x4 SP No.2, 27-25:1 1/2" x 5

1/2" 2.0E Microllam® LVL

WEBS 2x4 SPF No.3 *Except*

20-18.38-2.34-32.30-32.24-14.28-14:2x4 SP

No 2 24-26 28-26 2x4 SP 1650F 1 5F

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-10-12 oc purlins, except end verticals, and 2-0-0 oc purlins (3-1-3 max.): 6-10, 12-16.

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing.

WEBS 1 Row at midpt 15-23, 18-20, 7-35, 9-32,

14-26

20=0-5-8, 40=0-5-8 REACTIONS (size) Max Horiz 40=170 (LC 15)

Max Uplift 20=-446 (LC 13), 40=-333 (LC 12)

Max Grav 20=2921 (LC 2), 40=2998 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-253/250 2-4=-4231/517

4-5=-4996/628, 5-6=-4504/614,

6-7=-4040/604, 7-8=-4720/698, 8-9=-4705/697, 9-10=-4228/638

10-11=-4218/640, 11-12=-4632/680,

12-13=-4645/668, 13-14=-3999/585,

14-15=-3489/519, 15-16=-1638/292,

16-17=-1757/291, 17-18=-856/232,

18-19=0/131, 18-20=-2796/555

BOT CHORD

1-40=-153/248. 39-40=-42/149. 38-39=-47/52, 4-38=-703/250,

36-38=-572/3970, 35-36=-666/4546,

34-35=-619/4517, 33-34=0/76,

8-34=-383/109, 32-33=-65/276, 31-32=-52/386, 30-31=0/84,

11-30=-183/1481, 29-30=-650/4674,

28-29=-570/4041, 27-28=-1727/252,

13-28=-1212/180, 26-27=-78/541,

25-26=-68/383, 24-25=-1753/253,

15-24=-139/1450, 23-24=-500/3503,

22-23=-87/590, 21-22=-32/33,

17-22=-1740/148, 20-21=-25/124

38-40=-353/354, 5-35=-741/222,

6-35=-129/1253, 12-30=-990/171,

12-29=-1056/176, 13-29=-182/1425,

15-23=-2644/381, 16-23=-15/254,

17-23=-301/2163, 2-40=-2687/421,

2-38=-546/4004, 5-36=-44/122,

4-36=-210/612, 7-34=-44/496,

7-35=-1046/200, 9-32=-1908/323,

9-34=-172/1355, 9-30=-112/462,

32-34=-503/3855, 30-32=-515/3729,

14-26=-2575/368, 24-26=-607/4421, 26-28=-593/4198, 14-24=-209/78,

14-28=-328/2411, 20-22=-209/139,

18-22=-137/1704

NOTES

WEBS

Unbalanced roof live loads have been considered for

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 16-9-0, Exterior(2R) 16-9-0 to 21-9-0, Interior (1) 21-9-0 to 31-7-0, Exterior(2E) 31-7-0 to 34-2-1, Interior (1) 34-2-1 to 43-2-11, Exterior(2R) 43-2-11 to 48-2-11, Interior (1) 48-2-11 to 49-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.



June 6,2023

Continued on page 2

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 Design Valid to its 80 mly with win New Commercials. This design is based only upon parameters shown, and is for an individual orusining 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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Ply P210577 Q07 Roof Special Job Reference (optiona

DEVELOPMENT SERVICES 158733552 LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

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

- 6) Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 6x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 333 lb uplift at joint 40 and 446 lb uplift at joint 20.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



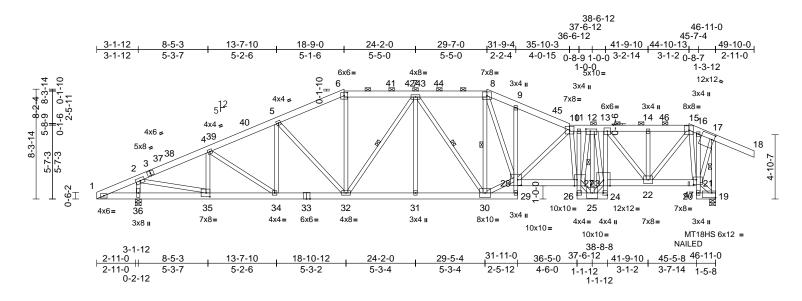
| Job | Truss | Truss Type | Qty | Ply | | |
|---------|-------|---------------------|-----|-----|--------------------------|--|
| P210577 | Q08 | Roof Special Girder | 1 | 1 | Job Reference (optional) | |

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733553 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Non Jun 650 2012 ID:IUB_SCDqdgClw9bd0ph2xVz9Wpn-RfC?PsB70Hq3NSgPqnL8w3ulTXbG WrCDolf-4252 ff



Scale = 1:87.3

Plate Offsets (X, Y): [6:0-3-0,0-2-15], [12:0-4-0,0-2-0], [17:0-2-0,0-4-4], [19:Edge,0-4-4], [21:0-2-8,0-4-8], [24:Edge,0-3-8], [27:0-2-8,Edge], [28:0-3-4,0-5-0], [35:0-3-8,0-3-8]

| 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 | 0.55 | Vert(LL) | -0.25 | 27-28 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.91 | Vert(CT) | -0.60 | 27-28 | >868 | 180 | MT18HS | 197/144 |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.97 | Horz(CT) | 0.30 | 19 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 369 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2

BOT CHORD 2x6 SPF No.2 *Except* 29-9,16-20:2x4 SPF

No.3, 28-27,23-21:2x6 SP 2400F 2.0E, 11-26,24-13:2x4 SP 1650F 1.5E, 26-24:1 1/2"

x 5 1/2" 2.0E Microllam® LVL

WEBS 2x4 SPF No.3 *Except*

30-28,28-8,22-13,22-15,19-17,35-2,23-12,27-

12:2x4 SP No.2, 23-25,27-25:2x4 SP 1650F

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied or

3-1-7 oc purlins, except end verticals, and 2-0-0 oc purlins (3-2-9 max.): 6-8, 10-15. Rigid ceiling directly applied or 4-1-3 oc

BOT CHORD bracing.

1 Row at midpt 7-32, 7-30, 8-30, 17-19,

12-25

REACTIONS (size) 19=0-5-8, 36=0-5-8

Max Horiz 36=169 (LC 15)

Max Uplift 19=-760 (LC 13), 36=-325 (LC 16) Max Grav 19=2796 (LC 2), 36=2992 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-242/120, 2-4=-3657/389,

4-5=-3973/539, 5-6=-3668/586,

6-7=-3325/567, 7-8=-3460/637, 8-9=-4509/788, 9-10=-4659/738,

10-11=-4685/764, 11-12=-4625/758,

12-13=-3956/683, 13-14=-2635/549,

14-15=-2642/551, 15-16=-812/319, 16-17=-782/344, 17-18=0/131,

17-19=-2652/841

BOT CHORD 1-36=-17/231, 35-36=-166/343,

34-35=-473/3267, 32-34=-538/3581,

31-32=-519/3635, 30-31=-519/3635, 29-30=-56/285, 28-29=0/11, 9-28=-149/119,

27-28=-727/4928, 26-27=-1786/276, 11-27=-18/35, 25-26=-102/600,

24-25=-102/579, 23-24=-1790/276

13-23=-150/1293 22-23=-629/3973

21-22=-244/934, 20-21=-37/37,

16-21=-201/64, 19-20=-36/157

6-32=-78/884, 7-32=-721/133, 7-31=0/179, 7-30=-525/95. 8-30=-993/219.

28-30=-476/3470, 8-28=-371/2343,

10-28=-1022/253, 10-27=-1438/231,

13-22=-2186/290, 14-22=-449/126,

15-22=-433/2883, 15-21=-1865/272,

2-36=-2761/513, 5-32=-555/194, 4-35=-809/211, 2-35=-491/3371,

4-34=-81/415, 5-34=-120/102,

12-25=-3036/474, 23-25=-709/4719,

25-27=-708/4688, 12-23=-106/258,

12-27=-402/3018, 19-21=-225/158,

17-21=-464/1844

NOTES

WEBS

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

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph: TCDL=6.0psf: BCDL=6.0psf: h=35ft: Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 18-9-0. Exterior(2R) 18-9-0 to 23-9-0, Interior (1) 23-9-0 to 29-7-0, Exterior(2R) 29-7-0 to 34-7-0, Interior (1) 34-7-0 to 44-10-13, Exterior(2E) 44-10-13 to 49-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- 4) Unbalanced snow loads have been considered for this desian.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 325 lb uplift at joint 36 and 760 lb uplift at joint 19.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 6,2023

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

RELEASE FOR CONSTRUCTION Ply Job Truss Truss Type Qty P210577 Q08 Roof Special Girder Job Reference (optional

DEVELOPMENT SERVICES 158733553 LEE'S SUMMIT, MISSOURI Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. fron Jun 50 2042 4 / 202 ID:iUB_SCDqdgClw9bd0ph2xVz9Wpn-RfC?PsB70Hq3NSgPqnL8w3ulTXbg WrCDon 4 204 2 4 / 202 $^{\circ}$

AS NOTED FOR PLAN REVIEW

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

12) "NAILED" indicates Girder: 3-12d (0.148" x 3.25") toenails per NDS guidelines.

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

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-6=-78, 6-8=-88, 8-10=-78, 10-15=-88, 15-17=-78, 17-18=-78, 1-29=-20, 27-28=-20, 24-26=-20, 21-23=-20, 19-20=-20 Concentrated Loads (lb) Vert: 47=130 (B)



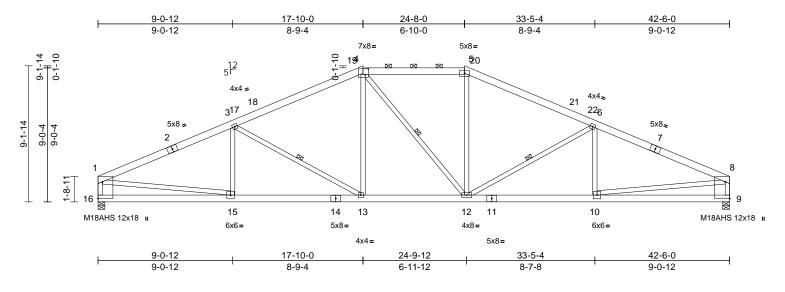
| Job | Truss | Truss Type | Qty | Ply | |
|---------|-------|------------|-----|-----|------------|
| P210577 | Q09 | Hip | 1 | 1 | Job Refere |

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733554 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:MQ7yNYhUSguiLaHo94ePIEz9X6Y-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDo

rence (optional



Scale = 1:77.5

Plate Offsets (X, Y): [4:0-2-8,0-4-12], [9:Edge,0-3-8], [16:Edge,0-3-8]

| 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 | 0.80 | Vert(LL) | -0.15 | 13-15 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.74 | Vert(CT) | -0.38 | 13-15 | >999 | 180 | M18AHS | 142/136 |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.83 | Horz(CT) | 0.10 | 9 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 250 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2 BOT CHORD 2x6 SPF No.2

WEBS 2x4 SPF No.3 *Except* 16-1,15-1,9-8,10-8:2x4 SP No.2

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals, and

2-0-0 oc purlins (3-8-8 max.): 4-5 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

1 Row at midpt 3-13, 4-12, 6-12

REACTIONS 9=0-5-8, 16=0-5-8 (size)

Max Horiz 16=90 (LC 16)

Max Uplift 9=-265 (LC 17), 16=-265 (LC 16)

Max Grav 9=2532 (LC 2), 16=2532 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

Tension 1-3=-4164/502, 3-4=-3498/508,

4-5=-3065/520, 5-6=-3508/509,

6-8=-4163/503, 1-16=-2429/334, 8-9=-2428/334

BOT CHORD 15-16=-158/372, 13-15=-432/3703,

12-13=-292/3064, 10-12=-399/3702,

9-10=-76/373 WEBS 3-15=-333/171, 3-13=-826/280,

4-13=-51/579, 4-12=-258/257, 5-12=-23/579,

6-12=-816/279, 6-10=-336/171,

1-15=-325/3366, 8-10=-326/3364

NOTES

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 17-10-0, Exterior(2E) 17-10-0 to 24-8-0, Exterior(2R) 24-8-0 to 31-8-13, Interior (1) 31-8-13 to 42-4-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this desian.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 265 lb uplift at joint 16 and 265 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 6,2023



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 chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply 3 P210577 QG01 Jack-Closed Girder Job Reference (optiona

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

LEE'S SUMMIT. MISSOURI Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65

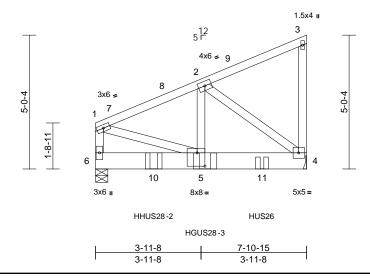
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 158733555

7-10-15

ID:rUQn_EdQTIYkz1gBgxv7i5z9XXI-RfC?PsB70Hq3NSgPqnL8w3uITXbGK





Scale = 1:43.2

Plate Offsets (X, Y): [5:0-3-8,0-6-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.22 | Vert(LL) | -0.02 | 5-6 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.43 | Vert(CT) | -0.04 | 5-6 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.57 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 148 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x8 SPF No 2 **WEBS** 2x4 SPF No.3

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.

4= Mechanical, 6=0-5-8 REACTIONS (size)

Max Horiz 6=203 (LC 13)

Max Uplift 4=-522 (LC 16), 6=-476 (LC 16) Max Grav 4=3671 (LC 2), 6=4010 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-6=-2958/485, 1-2=-4013/590, TOP CHORD 2-3=-139/118, 3-4=-167/125

BOT CHORD 5-6=-369/255, 4-5=-720/3661 **WEBS** 1-5=-541/3877, 2-5=-474/3880,

2-4=-4609/826

NOTES

3-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0

Bottom chords connected as follows: 2x8 - 4 rows staggered at 0-4-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 7-9-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 476 lb uplift at joint 6 and 522 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Use Simpson Strong-Tie HHUS28-2 (22-10d Girder 4-10d Truss) or equivalent at 2-2-2 from the left end to connect truss(es) to front face of bottom chord.
- 11) Use Simpson Strong-Tie HGUS28-3 (36-10d Girder, 6-10d Truss) or equivalent at 4-1-5 from the left end to connect truss(es) to front face of bottom chord.
- 12) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent at 6-2-15 from the left end to connect truss(es) to front face of bottom chord.
- 13) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-3=-78, 4-6=-20

Concentrated Loads (lb)

Vert: 5=-2685 (F), 10=-2269 (F), 11=-1221 (F)



June 6,2023



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 chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply P210577 QG02 Jack-Closed Girder Job Reference (optiona

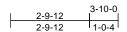
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

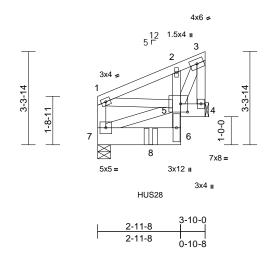
Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 🚯 ID:o_k?iuedLB?zrczBilzoxEz9Y9I-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWr0

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 158733556

LEE'S SUMMIT. MISSOURI





Scale = 1:41.1

Plate Offsets (X, Y): [5:0-3-0,0-3-8]

| 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 | 0.21 | Vert(LL) | -0.01 | 6-7 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.49 | Vert(CT) | -0.02 | 6-7 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.53 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 27 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No 2

2x8 SPF No.2 *Except* 6-2:2x4 SPF No.3, **BOT CHORD**

5-4:2x6 SPF No.2 WEBS 2x4 SPF No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-10-0 oc purlins, except end verticals.

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

REACTIONS 4= Mechanical, 7=0-5-8 (size)

Max Horiz 7=107 (LC 13)

Max Uplift 4=-143 (LC 13), 7=-110 (LC 16) Max Grav 4=891 (LC 22), 7=908 (LC 22)

(lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-7=-402/124, 1-2=-571/111, 2-3=-574/193,

3-4=-883/288

BOT CHORD 6-7=-7/18, 5-6=-98/929, 2-5=-223/223,

4-5=-39/42

5-7=-208/128, 1-5=-80/499, 3-5=-397/1191

WEBS NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp : Ce=0.9: Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 7 and 143 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Use Simpson Strong-Tie HUS28 (22-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent at 1-10-12 from the left end to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate

Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-3=-78, 6-7=-20, 4-5=-20

Concentrated Loads (lb)

Vert: 8=-1375 (F)



June 6,2023





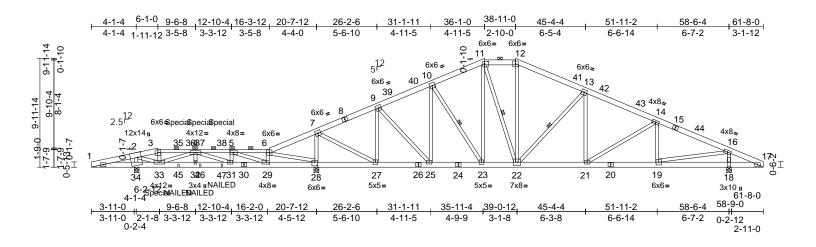
| Job | Truss | Truss Type | Qty | Ply | | |
|---------|-------|---------------------|-----|-----|-------------------------|--|
| P210577 | R01 | Roof Special Girder | 1 | 1 | Job Reference (optional | |

LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733557

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:k8JPox1QpajiU0cZvxiL_Kz9XBH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV/rCDoi7J4z



Scale = 1:105.8

Plate Offsets (X, Y): [2:0-5-8,Edge], [5:0-3-8,0-2-0], [11:0-4-0,0-2-8], [28:0-2-12,0-4-0], [29:0-3-8,0-2-0]

| 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 | TC | 0.82 | Vert(LL) | -0.10 | 31-32 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.67 | Vert(CT) | -0.24 | 19-21 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.83 | Horz(CT) | 0.05 | 18 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 362 lb | FT = 20% |

LUMBER

2x6 SPF No.2 *Except* 3-6:2x4 SP 1650F TOP CHORD

1.5E

BOT CHORD 2x6 SPF No.2

WEBS 2x4 SPF No.3 *Except* 7-27,16-19:2x4 SP

No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-8-15 oc purlins, except

2-0-0 oc purlins (4-7-15 max.): 3-6, 11-12. BOT CHORD Rigid ceiling directly applied or 3-11-15 oc

bracing.

WEBS 1 Row at midpt 11-22, 10-23, 13-22

REACTIONS (size) 18=0-5-8, 28=0-5-8, 34=0-5-4

Max Horiz 34=-178 (LC 17)

Max Uplift 18=-372 (LC 111), 28=-907 (LC

16), 34=-1065 (LC 12)

18=2681 (LC 71), 28=2902 (LC 2),

34=611 (LC 32)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-823/1033, 2-3=-1354/2786,

3-4=-1356/2792, 4-5=-704/1671

5-6=-289/257, 6-7=-978/914, 7-9=-2607/660,

9-10=-2830/695, 10-11=-2602/687,

11-12=-2376/675, 12-13=-2727/677 13-14=-3394/693, 14-16=-3413/574

16-17=-307/72

BOT CHORD 1-34=-960/817, 33-34=-960/827,

32-33=-3072/1381, 31-32=-3072/1381, 29-31=-1671/748, 28-29=-279/357,

27-28=-818/865, 25-27=-395/2291,

23-25=-342/2516, 22-23=-246/2299

21-22=-405/3015, 19-21=-401/3054, 18-19=-2/291, 17-18=-2/291

design.

WEBS 2-34=-668/1082, 2-33=-2164/931,

3-33=-550/251, 6-29=-666/403, 6-28=-573/607, 11-23=-146/421

11-22=-183/447, 12-22=-100/549,

7-28=-2648/859. 7-27=-756/2445. 9-27=-1118/442, 9-25=-261/608,

10-25=-344/251, 10-23=-432/227

4-33=-459/639, 5-29=-979/1871, 4-32=0/90,

4-31=-677/1554, 5-31=-491/276,

16-18=-2462/706, 13-21=-5/321,

13-22=-942/273, 14-21=-169/153

14-19=-533/232, 16-19=-634/3037

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 6-1-0, Interior (1) 6-1-0 to 36-1-0, Exterior(2E) 36-1-0 to 38-11-0, Exterior(2R) 38-11-0 to 45-4-4, Interior (1) 45-4-4 to 61-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this

- 5) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- Provide adequate drainage to prevent water ponding.
- All plates are 4x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1065 lb uplift at joint 34, 907 lb uplift at joint 28 and 372 lb uplift at joint



Continued on page 2

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



Ply Qty Job Truss Truss Type P210577 R01 Roof Special Girder Job Reference (optiona

LEE'S SUMMIT, MISSOURI Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 1920/124/292 ID:k8JPox1QpajiU0cZvxiL_Kz9XBH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV rCDoi7J42JC/

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 158733557

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

- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 13) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 143 Ib down and 496 lb up at 7-11-12, and 143 lb down and 496 lb up at 9-11-12, and 143 lb down and 496 lb up at 11-11-12 on top chord, and 422 lb down and 1323 lb up at 6-1-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-3=-78, 3-6=-88, 6-11=-78, 11-12=-88, 12-17=-78, 1-17=-20 Concentrated Loads (lb) Vert: 33=778 (F), 35=282 (F), 37=282 (F), 38=282 (F), 45=28 (F), 46=28 (F), 47=28 (F)



| Job | Truss | Truss Type | Qty | Ply | | |
|---------|-------|--------------|-----|-----|--------------------------|--|
| P210577 | R02 | Roof Special | 1 | 1 | Job Reference (optional) | |

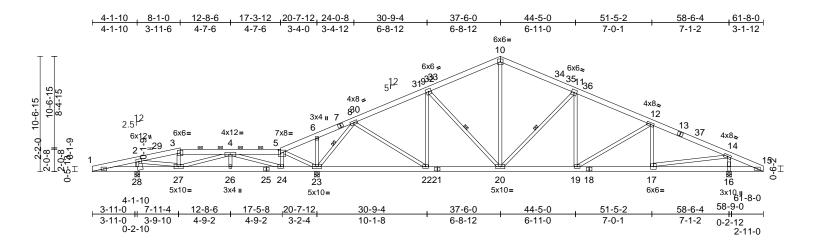
AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733558 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:0s3VrStqBOIBbQrJrUV4dIz9XCm-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK

VrCDoi7 42JQ



Scale = 1:105.9

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

| 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 | 0.44 | Vert(LL) | -0.10 | 17-19 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.57 | Vert(CT) | -0.24 | 17-19 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.89 | Horz(CT) | 0.06 | 16 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 342 lb | FT = 20% |

LUMBER

2x6 SPF No 2 TOP CHORD BOT CHORD 2x6 SPF No.2

WEBS 2x4 SPF No.3 *Except* 17-14:2x4 SP No.2

BRACING

WEBS

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or

3-10-3 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-5

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

bracing, Except:

6-0-0 oc bracing: 1-28,27-28,23-24.

1 Row at midpt 8-23, 9-20, 11-20

REACTIONS (size) 16=0-5-8, 23=0-5-8, (req. 0-5-10),

> 28=0-5-4 Max Horiz 28=190 (LC 16)

Max Uplift 16=-342 (LC 17), 23=-465 (LC 16),

28=-312 (LC 12)

Max Grav 16=2548 (LC 2), 23=3573 (LC 2),

28=1299 (LC 59)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=-749/708, 2-3=-883/109, 3-4=-855/125,

4-5=-132/638, 5-6=-292/1494 6-8=-225/1470, 8-9=-2187/461 9-10=-2157/530, 10-11=-2162/524, 11-12=-2918/552, 12-14=-3190/470,

14-15=-298/50

BOT CHORD 1-28=-636/744, 27-28=-636/753,

26-27=-244/1139, 24-26=-244/1139, 23-24=-587/184, 22-23=-101/718, 20-22=-158/1910, 19-20=-260/2575, 17-19=-301/2812, 16-17=-1/279,

15-16=-1/279

WEBS

3-27=-206/138, 5-24=-76/577, 10-20=-174/928, 2-28=-1104/448, 2-27=-409/1341, 4-24=-1645/269,

4-27=-304/231, 4-26=0/191, 5-23=-904/185, 6-23=-405/128, 8-23=-3291/532,

8-22=-128/1472, 9-22=-660/183, 9-20=-245/151, 14-16=-2333/662 11-20=-1068/285, 11-19=0/403, 12-19=-331/151, 12-17=-427/210,

14-17=-551/2780

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 6-2-0, Interior (1) 6-2-0 to 37-6-0, Exterior(2R) 37-6-0 to 43-8-0, Interior (1) 43-8-0 to 61-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.

- 5) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- Provide adequate drainage to prevent water ponding.
- All plates are 4x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- WARNING: Required bearing size at joint(s) 23 greater than input bearing size.



June 6,2023

Continued on page 2

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

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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



Ply Job Truss Truss Type Qty P210577 R02 Roof Special Job Reference (optional

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733558 LEE'S SUMMIT, MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 5000 24/202 ID:0s3VrStqBOIBbQrJrUV4dIz9XCm-RfC?PsB70Hq3NSgPqnL8w3uITXbGK vrCDoi7v2Jeri

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 312 lb uplift at joint 28, 465 lb uplift at joint 23 and 342 lb uplift at joint 16
- 11) This truss is designed in accordance with the 2018
 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



| | | | | | | RELEASE FOR CONSTRUCTION |
|---------|-------|--------------|-----|-----|--------------------------|---|
| Job | Truss | Truss Type | Qty | Ply | | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES |
| P210577 | R03 | Roof Special | 1 | 1 | Job Reference (optional) | DEVELOPMENT SERVICES 158733559 LEE'S SUMMIT, MISSOURI |

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:bfDopYczv7W4VHK7Bx6St9z9XEP-RfC?PsB70Hq3NSgPqnL8w3uITXbG<mark>.</mark>WrCDoi**y3**4292f

38-0-12 4-1-10 7-1-13 10-1-0 14-2-6 4-1-10 3-0-3 2-11-3 4-1-6 30-2-4 37-6-0 45-2-6 52-10-13 58-6-4 61-8-0 0-6-12 4-1-6 2-4-0 2-1-0 7-5-8 7-3-12 7-1-10 7-8-6 5-7-7 3-1-12 3x4 II 5x10= 1112 4x8 = 4x8≈ 38 39 ₅12 36 10 10-6-15 4x6 -13 4x6**≥** 6x6 = 10-6-15 14 4x8 2.5 6x6 = 8 15 6x6= 4x12= 7x8= 4x8 6x12 u 5 _ 6 3 34 16 2 22₺ 24 Ľά 32 3130 29 28 10x10= 21 20 3்3 19 4x6= 18 4x6= 5x10= 6x6= 4x12= 3x4 II 4x6= 4x4 ı 3x10 II 61-8-0 -16³¥8 ∥ 4x6= 4-1-10 20-7-12 47-8-0 58-9-0 7-1-13 9-11-4 3-0-3 2-9-7 18-5-8 45-2-6 52-10-13 58-6-4 3-11-0 14-2-6 30-2-4 37-11-0 2-2-4 3-11-0 4-3-2 4-3-2 7-3-12 7-8-12 7-3-6 5-2-13 5-7-7 2-5-10 0-2-12 0-2-10 2-2-12 2-11-0

Scale = 1:105.9

| Plate Offsets (X, Y): [2:0-3-0,0-2-8], [6:0-2-12,0-3-8], [23:0-3-12,0-4-8], [24:0-3-8,0-2-8], | , [27:0-2-0,0-4-0] |
|---|--------------------|
|---|--------------------|

| 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 | TC | 0.48 | Vert(LL) | -0.10 | 23-24 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.68 | Vert(CT) | -0.26 | 23-24 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.97 | Horz(CT) | 0.08 | 18 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 363 lb | FT = 20% |

LUMBER TOP CHORD 2x6 SPF No 2

2x6 SPF No.2 *Except* 26-8,12-22:2x4 SPF **BOT CHORD**

No.3 2x4 SPF No.3 *Except* 23-21,19-16:2x4 SP

WEBS No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-10-11 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 4-6. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing. Except:

1 Row at midpt 12-23

WEBS 1 Row at midpt 10-23, 13-23, 15-21

18=0-5-8, 27=0-5-8, (req. 0-5-10), REACTIONS (size)

33=0-5-4

Max Horiz 33=190 (LC 16)

Max Uplift 18=-344 (LC 17), 27=-467 (LC 16),

33=-320 (LC 12)

Max Grav 18=2544 (LC 2), 27=3586 (LC 2),

33=1302 (LC 59)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-750/730, 2-3=-573/84, 3-4=-885/139,

4-5=-877/151, 5-6=-184/995, 6-7=-263/1568,

7-8=-282/202, 8-10=-2496/479,

10-11=-2364/538, 11-12=-2148/577

12-13=-2441/539, 13-15=-3003/547

15-16=-3039/429, 16-17=-318/176

BOT CHORD 1-33=-659/745, 32-33=-659/753,

30-32=-213/560, 29-30=-163/710, 28-29=-163/710, 27-28=-946/207,

26-27=-108/0, 25-26=-116/28, 8-25=-2226/395. 24-25=-96/354.

23-24=-191/2175, 22-23=0/130, 12-23=-205/188, 21-22=-24/186,

19-21=-282/2706, 18-19=-74/307,

17-18=-74/307

WERS 4-30=-214/119, 6-28=-68/652

> 25-27=-1449/283, 8-24=-240/2135, 10-24=-610/197, 10-23=-354/163,

> 13-23=-777/268, 2-33=-1087/426, 3-30=-263/380, 3-32=-394/219,

2-32=-341/1178, 5-28=-1529/270, 5-30=-85/394, 5-29=0/160, 7-27=-2305/325,

7-25=-298/2204, 6-27=-734/128,

13-21=-161/129, 21-23=-253/2484

16-18=-2341/633, 15-21=-135/125

15-19=-582/239, 16-19=-566/2842,

11-23=-263/1060

NOTES

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 6-2-0. Interior (1) 6-2-0 to 37-6-0, Exterior(2R) 37-6-0 to 43-8-0, Interior (1) 43-8-0 to 61-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- DOL=1.60 TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0

- 4) Unbalanced snow loads have been considered for this desian.
- WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- Provide adequate drainage to prevent water ponding.
- All plates are 4x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- WARNING: Required bearing size at joint(s) 27 greater than input bearing size.



June 6,2023

ontinued on page 2

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Ply Job Truss Truss Type Qty P210577 R03 Roof Special Job Reference (optiona

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733559 LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION

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

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 320 lb uplift at joint 33, 467 lb uplift at joint 27 and 344 lb uplift at joint 18.

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

LOAD CASE(S) Standard



| Job | Truss | Truss Type | Qty | Ply | | , |
|---------|-------|--------------|-----|-----|--------------------------|---|
| P210577 | R04 | Roof Special | 1 | 1 | Job Reference (optional) | |

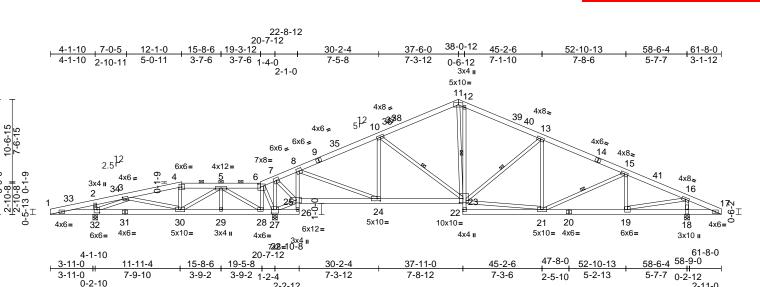
AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733560 LEE'S SUMMIT. MISSOURI

2-11-0

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:EcJCVbjB6hJRE3E5Q6IKPmz9XFY-RfC?PsB70Hq3NSgPqnL8w3uITXbQKWrCDory4230?f



Scale = 1:105.9

Plate Offsets (X, Y): [3:0-0-12,0-2-0], [6:0-2-12,0-3-8], [23:0-3-12,0-4-8], [24:0-3-8,0-2-8], [27:0-2-0,0-4-0], [32:0-3-0,0-3-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.48 | Vert(LL) | -0.10 | 23-24 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.68 | Vert(CT) | -0.26 | 23-24 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.97 | Horz(CT) | 0.08 | 18 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 366 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2

2x6 SPF No.2 *Except* 26-8,12-22:2x4 SPF **BOT CHORD**

No.3

WEBS 2x4 SPF No.3 *Except* 23-21,19-16:2x4 SP

No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-10-11 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 4-6. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing. Except:

1 Row at midpt 12-23 WEBS

1 Row at midpt 10-23, 13-23, 15-21

18=0-5-8, 27=0-5-8, (req. 0-5-10), REACTIONS (size)

32=0-5-4

Max Horiz 32=190 (LC 16)

Max Uplift 18=-344 (LC 17), 27=-468 (LC 16), 32=-321 (LC 12)

Max Grav 18=2543 (LC 2), 27=3588 (LC 2),

32=1305 (LC 59)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-845/764, 2-3=-782/727, 3-4=-769/126,

4-5=-723/147, 5-6=-212/1241, 6-7=-248/1520, 7-8=-251/160,

8-10=-2494/473, 10-11=-2363/535, 11-12=-2147/574, 12-13=-2440/537 13-15=-3002/544, 15-16=-3038/427,

16-17=-318/176

2-2-12

BOT CHORD 1-32=-694/836, 30-32=-263/549, 29-30=-187/323, 28-29=-187/323,

27-28=-1202/247, 26-27=-117/0,

25-26=-160/34, 8-25=-2263/410,

24-25=-48/332, 23-24=-186/2172, 22-23=0/130, 12-23=-206/190,

21-22=-24/186, 19-21=-280/2705,

18-19=-74/307, 17-18=-74/307 4-30=-328/145, 6-28=-70/604,

25-27=-1435/298, 8-24=-247/2135,

10-24=-611/199, 10-23=-361/163,

13-23=-778/268, 2-32=-438/256,

3-32=-1397/563, 3-30=-177/232,

5-28=-1451/261, 5-30=-118/742, 5-29=0/112,

7-27=-2150/288, 7-25=-303/2203,

6-27=-524/105, 11-23=-261/1058, 13-21=-161/129, 21-23=-251/2483,

16-18=-2341/632, 15-21=-136/125,

15-19=-582/238, 16-19=-564/2842

NOTES

WFBS

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 6-2-0, Interior (1) 6-2-0 to 37-6-0, Exterior(2R) 37-6-0 to 43-8-0, Interior (1) 43-8-0 to 61-8-0 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this

- 5) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- Provide adequate drainage to prevent water ponding.
- All plates are 4x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- WARNING: Required bearing size at joint(s) 27 greater than input bearing size.



June 6,2023

ontinued on page 2

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



Ply Job Truss Truss Type Qty P210577 R04 Roof Special Job Reference (optiona

LEE'S SUMMIT, MISSOURI Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. fron Jun 50 2022 4/2 9 2 ID:EcJCVbjB6hJRE3E5Q6lKPmz9XFY-RfC?PsB70Hq3NSgPqnL8w3ulTXbc KWrCDowd 2021

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 158733560

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

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 321 lb uplift at joint 32, 468 lb uplift at joint 27 and 344 lb uplift at joint 18.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

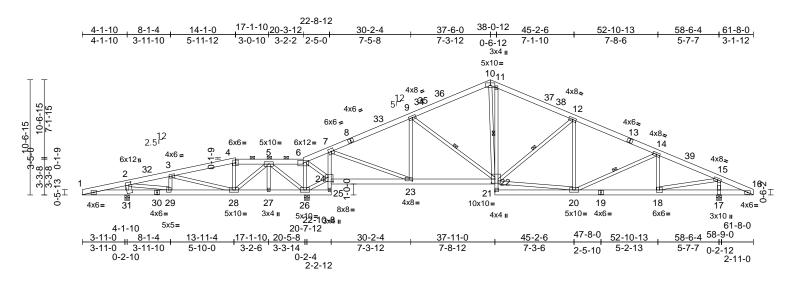
LOAD CASE(S) Standard



| | | | | | | RELEASE FOR CONSTRUCTION |
|---------|-------|--------------|-----|-----|--------------------------|--|
| Job | Truss | Truss Type | Qty | Ply | | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733561 |
| P210577 | R05 | Roof Special | 1 | 1 | Job Reference (optional) | LEEIG GUMMUT MICCOURT |

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:9NGPVPWSfzjdFibtZ6WtMgz9XH6-RfC?PsB70Hq3NSgPqnL8w3ulTXbG (WrCDoi) 2229/f



Scale = 1:105.9

| 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 | 0.48 | Vert(LL) | -0.10 | 22-23 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.61 | Vert(CT) | -0.25 | 22-23 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 1.00 | Horz(CT) | 0.07 | 17 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 364 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2

2x6 SPF No.2 *Except* 25-7,11-21:2x4 SPF **BOT CHORD**

No.3

WEBS 2x4 SPF No.3 *Except* 22-20,18-15:2x4 SP

No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-10-10 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-6.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing. Except:

1 Row at midpt 11-22

WEBS 1 Row at midpt 9-22, 12-22, 14-20

17=0-5-8, 26=0-5-8, (req. 0-5-11), REACTIONS (size)

31=0-5-4

Max Horiz 31=-190 (LC 21)

Max Uplift 17=-346 (LC 17), 26=-473 (LC 16), 31=-320 (LC 12)

17=2545 (LC 2), 26=3622 (LC 2),

Max Grav 31=1277 (LC 45)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-756/703, 2-3=-777/112, 3-4=-409/122,

4-5=-365/143, 5-6=-259/1624, 6-7=-286/133, 7-9=-2504/473, 9-10=-2368/535, 10-11=-2152/574, 11-12=-2445/537 12-14=-3006/544, 14-15=-3042/427,

15-16=-318/176

BOT CHORD 1-31=-633/751, 29-31=-633/759,

28-29=-239/716, 27-28=-552/193

26-27=-552/193, 25-26=-86/0, 24-25=-93/22, 7-24=-2179/401, 23-24=-48/345,

22-23=-187/2181, 21-22=0/130, 11-22=-205/191, 20-21=-24/186 18-20=-280/2708, 17-18=-74/307,

16-17=-74/307

WEBS

4-28=-411/136, 6-26=-1531/247, 24-26=-1868/359, 6-24=-299/2263, 7-23=-250/2088, 9-23=-605/199, 9-22=-368/163, 12-22=-777/267, 2-31=-1067/438, 3-28=-462/119, 3-29=-292/225, 2-29=-451/1365,

5-26=-1410/253, 5-28=-177/1036, 5-27=-50/47, 12-20=-161/129, 20-22=-251/2487, 15-17=-2343/632, 14-20=-135/125, 14-18=-583/238,

15-18=-564/2845, 10-22=-261/1059

NOTES

Unbalanced roof live loads have been considered for this design

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 6-2-0, Interior (1) 6-2-0 to 37-6-0, Exterior(2R) 37-6-0 to 43-8-0, Interior (1) 43-8-0 to 61-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.: Ce=0.9: Cs=1.00: Ct=1.10. Lu=50-0-0
- Unbalanced snow loads have been considered for this design.

- 5) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- WARNING: Required bearing size at joint(s) 26 greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 473 lb uplift at joint 26, 320 lb uplift at joint 31 and 346 lb uplift at joint 17.



June 6,2023

Continued on page 2

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

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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



RELEASE FOR CONSTRUCTION Ply Job Truss Truss Type Qty P210577 R05 Roof Special Job Reference (optiona

LEE'S SUMMIT, MISSOURI Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. fron Jun 50 2042 4/2 9 2 ID:9NGPVPWSfzjdFibtZ6WtMgz9XH6-RfC?PsB70Hq3NSgPqnL8w3ulTXbG WrCDoi 42 4/2 9 2

AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 158733561

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

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

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

LOAD CASE(S) Standard

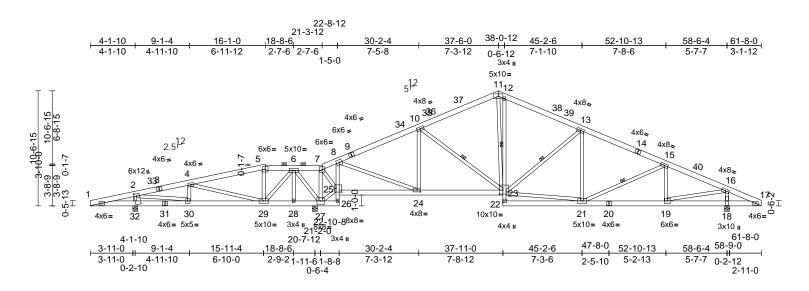
16023 Swingley Ridge Rd Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | | |
|---------|-------|--------------|-----|-----|--------------------------|--|
| P210577 | R06 | Roof Special | 1 | 1 | Job Reference (optional) | |

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733562 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 15 150 160 161 ID:10tnViXek4W71FvJJbYuabz9XIN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK\/rCDoi7J4J5+1



Scale = 1:105.9

Plate Offsets (X, Y): [2:0-2-12,0-3-0], [23:0-3-12,0-4-8], [24:0-3-8,0-2-0], [25:0-6-4,0-4-8]

| 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 | 0.48 | Vert(LL) | -0.09 | 19-21 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.72 | Vert(CT) | -0.24 | 23-24 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.85 | Horz(CT) | 0.06 | 18 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 369 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2

BOT CHORD 2x6 SPF No.2 *Except* 26-8,12-22:2x4 SPF

No.3

WEBS 2x4 SPF No.3 *Except* 24-8,23-21,16-19:2x4

SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-11-6 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 5-7. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing. Except:

1 Row at midpt 12-23

WEBS 1 Row at midpt 10-23, 13-23, 15-21

18=0-5-8, 27=0-5-8, (req. 0-5-10), REACTIONS (size)

32=0-5-4

Max Horiz 32=-190 (LC 17)

Max Uplift 18=-345 (LC 17), 27=-469 (LC 16), 32=-326 (LC 12)

Max Grav 18=2504 (LC 2), 27=3605 (LC 2),

32=1337 (LC 45)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-747/632, 2-4=-1050/151, 4-5=-313/121, TOP CHORD

5-6=-256/131, 6-7=-213/1394, 7-8=-98/507, 8-10=-2293/440, 10-11=-2268/519, 11-12=-2057/559, 12-13=-2341/522 13-15=-2919/530, 15-16=-2973/417,

16-17=-319/179

BOT CHORD 1-32=-561/741, 30-32=-561/750,

29-30=-271/977, 28-29=-663/199, 27-28=-663/199, 26-27=-80/0, 25-26=-154/25, 8-25=-2522/467, 24-25=-365/164, 23-24=-157/1986, 22-23=0/129, 12-23=-223/170, 21-22=-23/181, 19-21=-270/2645,

18-19=-77/307, 17-18=-77/307

WEBS

5-29=-498/159, 7-27=-1239/169, 25-27=-1670/355, 7-25=-230/1652, 8-24=-308/2482, 10-24=-726/216, 10-23=-253/157, 2-32=-1121/464, 4-29=-826/189, 6-27=-1204/222, 6-29=-196/1180, 6-28=-116/35, 4-30=-240/224, 2-30=-526/1543 21-23=-239/2411, 13-21=-146/126, 13-23=-790/267, 15-21=-150/125, 15-19=-568/236, 16-19=-555/2784

16-18=-2303/626, 11-23=-252/1018

NOTES

Unbalanced roof live loads have been considered for this design

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 6-2-0, Interior (1) 6-2-0 to 37-6-0, Exterior(2R) 37-6-0 to 43-8-0, Interior (1) 43-8-0 to 61-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.: Ce=0.9: Cs=1.00: Ct=1.10. Lu=50-0-0
- Unbalanced snow loads have been considered for this design.

- 5) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- Provide adequate drainage to prevent water ponding.
- All plates are 4x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- WARNING: Required bearing size at joint(s) 27 greater than input bearing size.



June 6,2023

Continued on page 2

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Ply Job Truss Truss Type Qty P210577 R06 Roof Special Job Reference (optional Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733562 LEE'S SUMMIT, MISSOURI

Non Jun 6080/24/202 VrCDoi7 02/8 Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. I ID:1otnViXek4W71FvJJbYuabz9XIN-RfC?PsB70Hq3NSgPqnL8w3uITXbGK

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 469 lb uplift at joint 27, 326 lb uplift at joint 32 and 345 lb uplift at joint 18.

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

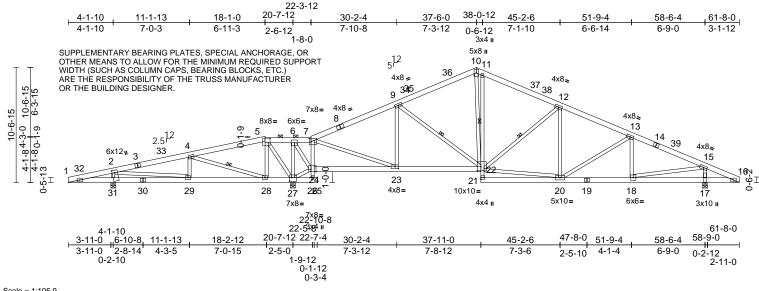
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

| | | | | | | RELEASE FOR CONSTRUCTION |
|---------|-------|--------------|-----|-----|--------------------------|---|
| Job | Truss | Truss Type | Qty | Ply | | AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES |
| P210577 | R07 | Roof Special | 1 | 1 | Job Reference (optional) | DEVELOPMENT SERVICES 158733563 LEE'S SUMMIT, MISSOURI |

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

Kuri: 6.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. 10n Jun 15 po 25 ID:eJDL4Qouye2BvWdt47VuQxz9XLv-RfC?PsB70Hq3NSgPqnL8w3uITXbG WrCDoin4429 ff



Scale = 1:105.9

Plate Offsets (X, Y): [2:0-2-12,0-3-0], [5:0-2-0,0-5-0], [7:0-2-0,0-3-12], [22:0-4-0,0-4-8], [23:0-3-8,0-2-0], [24:0-5-8,Edge], [27:0-2-0,0-4-0]

| 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 | TC | 0.50 | Vert(LL) | -0.10 | 18-20 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.55 | Vert(CT) | -0.25 | 22-23 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.82 | Horz(CT) | 0.06 | 17 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 368 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2

BOT CHORD 2x6 SPF No.2 *Except* 11-21:2x4 SPF No.3 **WEBS** 2x4 SPF No.3 *Except* 23-7,22-20,18-15:2x4

SP No.2 BRACING

TOP CHORD Structural wood sheathing directly applied or

3-11-4 oc purlins, except

2-0-0 oc purlins (10-0-0 max.): 5-7. **BOT CHORD**

Rigid ceiling directly applied or 6-0-0 oc

bracing. Except:

11-22 1 Row at midpt **WEBS** 1 Row at midpt

9-22, 12-22, 4-28 **REACTIONS** (size) 17=0-5-8, 27=0-5-8, (req. 0-5-13),

31 = 0.5 - 4

Max Horiz 31=190 (LC 16)

Max Uplift 17=-343 (LC 17), 27=-480 (LC 16),

31=-310 (LC 12)

Max Grav 17=2506 (LC 2), 27=3718 (LC 2),

31=1229 (LC 59)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-728/505, 2-4=-865/127, 4-5=-124/871, 5-6=-204/1551, 6-7=-68/521, 7-9=-2326/420,

9-10=-2275/511, 10-11=-2080/557, 11-12=-2342/512, 12-13=-2885/527 13-15=-3078/440, 15-16=-302/74

BOT CHORD 1-31=-431/719, 29-31=-431/727

28-29=-211/775, 27-28=-775/269 26-27=-6/5, 25-26=0/0, 23-24=-720/248,

22-23=-156/2010, 21-22=0/136,

11-22=-261/154, 20-21=-19/187

18-20=-276/2712, 17-18=0/285, 16-17=0/285

WEBS

5-28=-6/496, 5-27=-1364/225, 7-23=-393/2888, 9-23=-750/240, 9-22=-282/154, 12-22=-765/262,

2-31=-1030/480, 6-27=-1566/216, 4-28=-1377/271, 4-29=-43/195,

2-29=-500/1101, 12-20=-111/118. 20-22=-232/2392, 15-17=-2295/649

13-20=-238/130, 13-18=-449/205, 15-18=-536/2711, 24-26=-102/35,

7-24=-2298/453, 24-27=-1736/389

6-24=-257/1803, 10-22=-266/1054

NOTES

Unbalanced roof live loads have been considered for this design

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 6-2-0, Interior (1) 6-2-0 to 37-6-0, Exterior(2R) 37-6-0 to 43-8-0, Interior (1) 43-8-0 to 61-8-0 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- DOL=1.60 TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.: Ce=0.9: Cs=1.00: Ct=1.10. Lu=50-0-0
- Unbalanced snow loads have been considered for this design.

- 5) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- Provide adequate drainage to prevent water ponding.
- All plates are 4x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- WARNING: Required bearing size at joint(s) 27 greater than input bearing size.



June 6,2023

ontinued on page 2

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



Ply Job Truss Truss Type Qty P210577 R07 Roof Special Job Reference (optiona

LEE'S SUMMIT, MISSOURI Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. fron Jun 50 2022 4/2 9 2 ID:eJDL4Qouye2BvWdt47VuQxz9XLv-RfC?PsB70Hq3NSgPqnL8w3ulTXbG WrCDolw459 ft

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 158733563

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

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 480 lb uplift at joint 27, 310 lb uplift at joint 31 and 343 lb uplift at joint . 17.
- 11) This truss is designed in accordance with the 2018
 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

16023 Swingley Ridge Rd Chesterfield, MO 63017



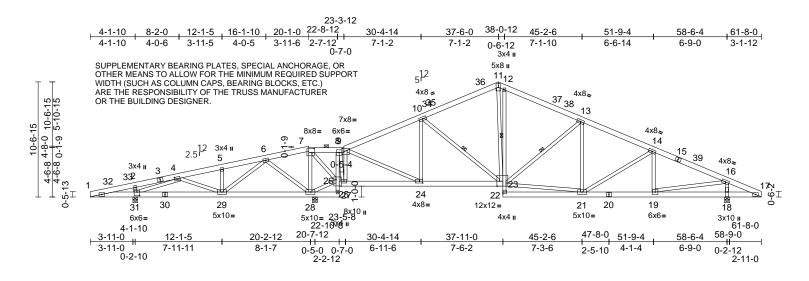
| Job | Truss | Truss Type | Qty | Ply | | |
|---------|-------|--------------|-----|-----|--------------------------|--|
| P210577 | R08 | Roof Special | 1 | 1 | Job Reference (optional) | |

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733564 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:HkFucrVm9mZNa4yJJ94oaNz9XNa-RfC?PsB70Hq3NSgPqnL8w3uITXbCKWrCDo7d



Scale = 1:105.9

Plate Offsets (X, Y): [4:0-1-8,0-2-0], [7:0-2-8,0-4-8], [9:0-2-0,0-3-8], [23:0-3-0,Edge], [24:0-3-8,0-2-0], [26:0-7-4,0-5-12], [31:0-3-0,0-4-0]

| 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 | TC | 0.46 | Vert(LL) | -0.10 | 19-21 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.79 | Vert(CT) | -0.25 | 23-24 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.98 | Horz(CT) | 0.06 | 18 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 370 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2

BOT CHORD 2x6 SPF No.2 *Except* 27-8,12-22:2x4 SPF

No.3

WEBS 2x4 SPF No.3 *Except* 23-21,19-16:2x4 SP

No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-11-5 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 7-9. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing. Except:

1 Row at midpt 12-23

WEBS 1 Row at midpt 10-23, 13-23

18=0-5-8, 28=0-5-8, (req. 0-6-0), REACTIONS (size)

31 = 0 - 5 - 4

Max Horiz 31=-190 (LC 17)

Max Uplift 18=-345 (LC 17), 28=-502 (LC 16),

31=-301 (LC 12)

Max Grav 18=2502 (LC 2), 28=3820 (LC 2),

31=1140 (LC 59)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-823/718, 2-4=-755/687, 4-5=-429/212,

5-6=-427/212, 6-7=-241/1715, 7-8=-70/400, 8-9=-155/158, 9-10=-2297/449, 10-11=-2259/521, 11-12=-2072/566 12-13=-2333/520, 13-14=-2878/536, 14-16=-3072/448, 16-17=-301/74

BOT CHORD 1-31=-648/814, 29-31=-206/525,

28-29=-749/228, 27-28=-206/34, 26-27=-92/12, 8-26=-1832/271, 25-26=-176/176, 24-25=-188/148, 23-24=-160/2003, 22-23=0/136,

12-23=-264/159, 21-22=-22/193, 19-21=-283/2707, 18-19=0/284, 17-18=0/284 WEBS 7-28=-2043/323, 26-28=-1711/356,

7-26=-299/2064, 10-23=-273/147, 2-31=-521/284, 4-29=-223/125,

4-31=-1096/539, 5-29=-420/148,

6-29=-127/969. 6-28=-1182/258.

9-25=-1611/334, 9-24=-281/2214, 10-24=-697/208, 11-23=-272/1052,

13-23=-767/261, 16-18=-2292/652

13-21=-109/120, 21-23=-238/2379,

14-21=-239/130, 14-19=-448/206,

16-19=-540/2706, 8-25=-166/1129

NOTES

Unbalanced roof live loads have been considered for this design

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 6-2-0, Interior (1) 6-2-0 to 37-6-0, Exterior(2R) 37-6-0 to 43-8-0, Interior (1) 43-8-0 to 61-8-0 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.: Ce=0.9: Cs=1.00: Ct=1.10. Lu=50-0-0
- Unbalanced snow loads have been considered for this design.

- 5) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- Provide adequate drainage to prevent water ponding.
- All plates are 4x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- WARNING: Required bearing size at joint(s) 28 greater than input bearing size.



June 6,2023

Continued on page 2

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

Design Valid to its 90 mly with win New Commercials. This design is based only upon parameters shown, and is 10 at an individual outlining 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Ply Job Truss Truss Type Qty P210577 R08 Roof Special Job Reference (optional

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733564 LEE'S SUMMIT, MISSOURI

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Non Jun 50 2022 4/2 9 2 ID:HkFucrVm9mZNa4yJJ94oaNz9XNa-RfC?PsB70Hq3NSgPqnL8w3uITXb6 KWrCDon 4 2071 Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 502 lb uplift at joint 28, 301 lb uplift at joint 31 and 345 lb uplift at joint 18.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



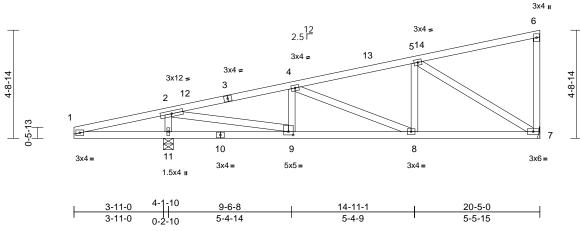
Ply Job Truss Truss Type Qtv P210577 R09 Monopitch Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733565 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:bcCrZ0ycl9bupf3b8JilWCz9XuZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKW





Scale = 1:50.5

Plate Offsets (X, Y): [9:0-2-8,0-1-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.74 | Vert(LL) | -0.05 | 8-9 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.43 | Vert(CT) | -0.12 | 8-9 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.97 | Horz(CT) | 0.02 | 7 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 92 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-4-2 oc purlins, except end verticals. **BOT CHORD**

Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 7= Mechanical, 11=0-5-4

Max Horiz 11=199 (LC 13)

Max Uplift 7=-162 (LC 16), 11=-335 (LC 12) Max Grav 7=905 (LC 2), 11=1528 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-822/685, 2-4=-1464/229, TOP CHORD

4-5=-1122/186, 5-6=-131/88, 6-7=-223/127 **BOT CHORD** 1-11=-600/815. 9-11=-622/807.

8-9=-245/1376, 7-8=-258/1048

2-11=-1379/561, 5-7=-1206/234

4-9=-305/231, 2-9=-676/2013, 4-8=-353/97,

5-8=0/338

NOTES

WEBS

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 20-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 162 lb uplift at joint 7 and 335 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023



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 chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Ply Qty Job Truss Truss Type P210577 V01 Valley Job Reference (optiona

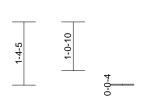
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

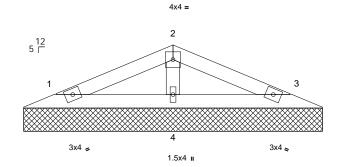
Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:HNkmvp7o5M5wzK3vaXg1uSz9Zst-RfC?PsB70Hq3NSgPqnL8w3uITXbG<mark>K</mark>WrCDohy4292f

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733566 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION







6-5-3

Scale = 1:24.8

| 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 | 0.18 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.07 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.05 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | 1 | | 1 | | | | | | | Weight: 19 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=6-5-3, 3=6-5-3, 4=6-5-3

Max Horiz 1=20 (LC 16)

Max Uplift 1=-30 (LC 16), 3=-33 (LC 17),

4=-11 (LC 16)

1=153 (LC 2), 3=153 (LC 2), 4=296 Max Grav

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-62/35, 2-3=-62/40

1-4=0/25, 3-4=0/25 BOT CHORD

WFBS 2-4=-233/148

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- Gable requires continuous bottom chord bearing.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 1, 33 lb uplift at joint 3 and 11 lb uplift at joint 4.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023





Job Truss Truss Type Qty Ply P210577 V02 Valley Job Reference (optiona

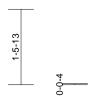
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733567 LEE'S SUMMIT. MISSOURI

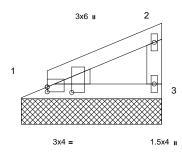
RELEASE FOR CONSTRUCTION

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

| 0-6-2 | 2-9-2 |
|-------|-------|
| 0-6-2 | 2-3-0 |

1.5x4 II





2-9-2



Scale = 1:22.6

Plate Offsets (X, Y): [1:Edge,0-1-2], [1:0-1-5,0-5-13]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|-----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.20 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.08 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.00 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 10 lb | FT = 20% |

LUMBER

2x4 SP No.2 TOP CHORD 2x4 SP No.2 BOT CHORD **WEBS** 2x4 SPF No.3 WEDGE Left: 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-3-0 oc purlins, except end verticals.

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

REACTIONS (size) 1=2-9-2, 3=2-9-2

Max Horiz 1=52 (LC 13) Max Uplift 1=-20 (LC 16), 3=-31 (LC 16)

Max Grav 1=157 (LC 2), 3=157 (LC 2)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-69/59, 2-3=-131/109

BOT CHORD 1-3=-23/25

NOTES

FORCES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- 5) Gable requires continuous bottom chord bearing.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 3 and 20 lb uplift at joint 1.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023



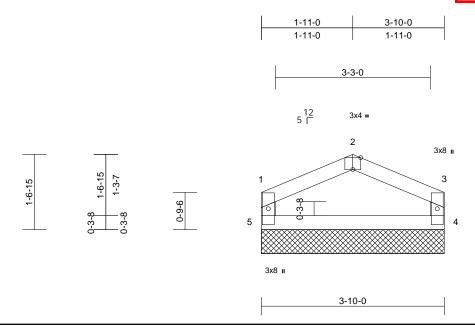
Job Truss Truss Type Qty Ply P210577 V03 Valley 2 1 Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733568 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:HNkmvp7o5M5wzK3vaXg1uSz9Zst-RfC?PsB70Hq3NSgPqnL8w3uITXbG

kWrCDolf-3420.ºf



Scale = 1:24.1

Plate Offsets (X, Y): [2:0-2-0,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 | TC | 0.16 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.10 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.00 | Horiz(TL) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-R | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 13 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-10-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 4=3-10-0, 5=3-10-0

Max Horiz 5=-20 (LC 12)

Max Uplift 4=-24 (LC 17), 5=-24 (LC 16)

Max Grav 4=213 (LC 2), 5=213 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-5=-177/133, 1-2=-190/116, 2-3=-190/124, TOP CHORD 3-4=-177/125

BOT CHORD 4-5=-90/132

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- 5) Unbalanced snow loads have been considered for this desian.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 5 and 24 lb uplift at joint 4.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023







Job Truss Truss Type Qty Ply P210577 V04 Valley 2 Job Reference (optiona

DEVELOPMENT SERVICES 158733569 LEE'S SUMMIT. MISSOURI

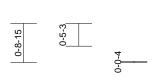
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

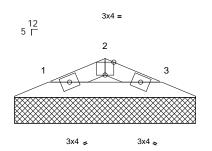
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65 ID:IZI8797QsfDnbTe67EBGQfz9Zss-RfC?PsB70Hq3NSgPqnL8w3uITXbGK

non Jun 05) 20:832

| 1-8-14 | 2-9-6 | 3-5-11 |
|--------|-------|--------|
| 1-8-14 | 1-0-8 | 0-8-6 |





3-5-11

Scale = 1:22.1

Plate Offsets (X, Y): [2:0-2-0,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 | TC | 0.03 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.06 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.00 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 9 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-6-14 oc purlins.

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

bracing.

REACTIONS (size) 1=3-5-11, 3=3-5-11

Max Horiz 1=-8 (LC 21)

Max Uplift 1=-15 (LC 16), 3=-15 (LC 17)

Max Grav 1=124 (LC 2), 3=124 (LC 2)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-148/96, 2-3=-148/100

BOT CHORD 1-3=-73/121

NOTES

FORCES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- 6) Gable requires continuous bottom chord bearing.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 1 and 15 lb uplift at joint 3.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023





Ply Job Truss Truss Type Qty P210577 V05 Valley Job Reference (optiona

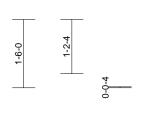
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733570 LEE'S SUMMIT. MISSOURI

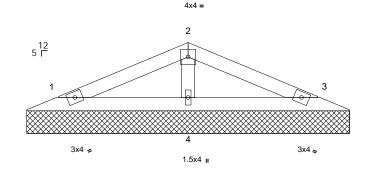
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. I ID:IZI8797QsfDnbTe67EBGQfz9Zss-RfC?PsB70Hq3NSgPqnL8w3uITXbGK

Ion Jun /rCDoi7

| 3-6-10 | 6-4-14 | 7-1-3 |
|--------|--------|-------|
| 3-6-10 | 2-10-4 | 0-8-6 |





7-1-3

Scale = 1:25.3

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defI | L/d | PLATES | GRIP | |
|--------------|-----------|-----------------|-----------------|----------|------|-----------|------|-------|--------|-----|---------------|----------|--|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.24 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 | |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.08 | Vert(TL) | n/a | - | n/a | 999 | | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.06 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 21 lb | FT = 20% | |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=7-1-3, 3=7-1-3, 4=7-1-3

Max Horiz 1=23 (LC 20)

Max Uplift 1=-34 (LC 16), 3=-38 (LC 17),

4=-13 (LC 16)

1=174 (LC 2), 3=174 (LC 2), 4=336 Max Grav

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-70/39, 2-3=-70/44 1-4=0/28, 3-4=0/28 **BOT CHORD**

WFBS 2-4=-264/160

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- Gable requires continuous bottom chord bearing.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 1, 38 lb uplift at joint 3 and 13 lb uplift at joint 4.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023





Job Truss Truss Type Qty Ply P210577 V06 Valley Job Reference (optiona

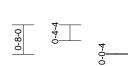
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

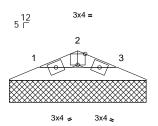
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DEVELOPMENT SERVICES 158733571 LEE'S SUMMIT. MISSOURI Ion Jun 05) 0:842 VrCDoi7J42J67

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

2-4-14 3-1-3 1-6-10 1-6-10 0-10-4 0-8-6





3-1-3

Scale = 1:26.1

Plate Offsets (X, Y): [2:0-2-0,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 | TC | 0.03 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.04 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.00 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 7 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-2-6 oc purlins.

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

bracing.

REACTIONS (size) 1=3-1-3, 3=3-1-3

Max Horiz 1=7 (LC 20)

Max Uplift 1=-12 (LC 16), 3=-12 (LC 17)

Max Grav 1=102 (LC 2), 3=102 (LC 2)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-121/78, 2-3=-121/81

BOT CHORD 1-3=-60/99

NOTES

FORCES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- 6) Gable requires continuous bottom chord bearing.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 1 and 12 lb uplift at joint 3.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023





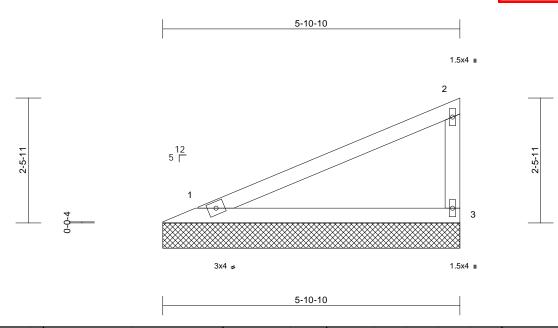
Ply Qty Job Truss Truss Type P210577 V07 Valley Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733572 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. I Ion Jun ID:IZI8797QsfDnbTe67EBGQfz9Zss-RfC?PsB70Hq3NSgPqnL8w3uITXbGK



Scale = 1:22.8

| 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 | 0.87 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.32 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.00 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 19 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

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

bracing.

1=5-10-10, 3=5-10-10 REACTIONS (size)

Max Horiz 1=98 (LC 13) Max Uplift 1=-40 (LC 16), 3=-59 (LC 16)

Max Grav 1=312 (LC 22), 3=312 (LC 22)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-127/110, 2-3=-262/202

BOT CHORD 1-3=-43/47

NOTES

FORCES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp · Ce=0.9· Cs=1.00· Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 1 and 59 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023





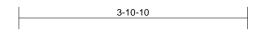
Ply Qty Job Truss Truss Type P210577 V08 Valley Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733573 LEE'S SUMMIT. MISSOURI

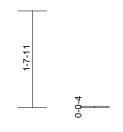
RELEASE FOR CONSTRUCTION

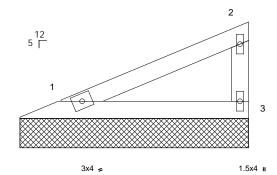
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. I 1on Jun 15 ID:IZI8797QsfDnbTe67EBGQfz9Zss-RfC?PsB70Hq3NSgPqnL8w3uITXbGK



1.5x4 u







3-10-10

Scale = 1:19.6

| 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 | 0.28 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.11 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.00 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 12 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SPF No.3 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-3 oc purlins, except end verticals.

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

bracing.

1=3-10-10, 3=3-10-10 REACTIONS (size)

Max Horiz 1=60 (LC 15)

Max Uplift 1=-24 (LC 16), 3=-36 (LC 16)

Max Grav 1=182 (LC 2), 3=182 (LC 2) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-78/67, 2-3=-152/125

BOT CHORD 1-3=-26/28

NOTES

FORCES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp · Ce=0.9· Cs=1.00· Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 1 and 36 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023





Job Truss Truss Type Qty Ply P210577 V09 Valley

DEVELOPMENT SERVICES 158733574 LEE'S SUMMIT. MISSOURI Job Reference (optiona Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 65

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

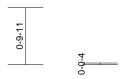
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

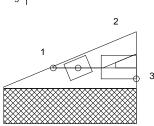
ID:IZI8797QsfDnbTe67EBGQfz9Zss-RfC?PsB70Hq3NSgPqnL8w3uITXbGK

4x6 =

1-10-10









3x4 =

1-10-10

Scale = 1:16.4

Plate Offsets (X, Y): [2:Edge,0-1-14]

| 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 | 0.03 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.01 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 25.0 | Rep Stress Incr | YES | WB | 0.00 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 5 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-11-3 oc purlins, except end verticals. **BOT CHORD**

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=1-10-10, 3=1-10-10 Max Horiz 1=21 (LC 13)

Max Uplift 1=-8 (LC 16), 3=-12 (LC 16) Max Grav 1=62 (LC 2), 3=62 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-27/23, 2-3=-52/43

BOT CHORD 1-3=-9/10

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this
- Gable requires continuous bottom chord bearing.

- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 1 and 12 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023





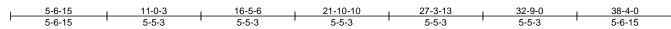
Ply Truss Type Job Truss Qty 3 P210577 X01 Flat Girder 2 Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733575 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 E Nov 21 2022 Print: 8.630 E Nov 21 2022 MiTek Industries, Inc. Hon Jun 🕟 ID:DP_VGXsiZmPvGdOqSxRXGtz9XAC-xadSYacyNNvGAIZzY_d9DshjW2z



SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.

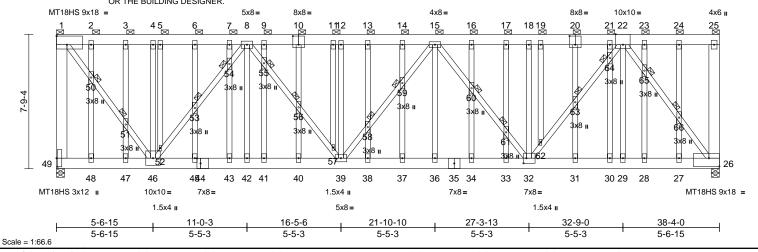


Plate Offsets (X, Y): [1:Edge,0-6-1], [10:0-4-0,0-6-0], [20:0-4-0,0-6-0], [22:0-5-0,Edge], [26:Edge,0-5-12], [32:0-2-0,0-3-8], [44:0-2-8,0-3-8], [49:0-6-0,0-0-10]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defI | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|------------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.37 | Vert(LL) | 0.17 | 37-38 | >999 | 240 | MT18HS | 197/144 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.97 | Vert(CT) | -0.38 | 37-38 | >999 | 180 | MT20 | 197/144 |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.96 | Horz(CT) | 0.11 | 26 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 1401 I | b FT = 20% |

| LUMBER | | TOP CHORD | 1-49=-11/3//3053, 1-2=-8485/226/ |
|-----------|--------------|-----------|----------------------------------|
| TOP CHORD | 2x8 SPF No.2 | | 2-3=-8485/2267, 3-4=-8485/2267, |

2x8 SPF No.2 2x4 SPF No.3 *Except* 49-1,25-26:2x8 SPF No.2, 46-1,26-22:2x4 SP 1650F 1.5E

46-8,39-8,39-15,32-15,32-22:2x4 SP No.2

2x4 SPF No.3

OTHERS BRACING

BOT CHORD

WEBS

TOP CHORD

2-0-0 oc purlins (6-0-0 max.): 1-25, except end verticals.

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc

bracing.

JOINTS 1 Brace at Jt(s): 1, 25, 50, 51, 53, 54,

55, 56, 58, 59, 60,

61, 63, 64, 65, 66

REACTIONS (lb/size)

26=11464/0-5-8, (req. 0-6-13),

49=11464/0-5-8, (req. 0-6-13)

Max Horiz 49=-293 (LC 10)

Max Uplift 26=-2118 (LC 11), 49=-2118 (LC 10)

26=13017 (LC 25), 49=12975 (LC Max Grav

25)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

4-5=-8485/2267, 5-6=-8485/2267,

6-7=-8485/2267, 7-8=-8485/2267

8-9=-16924/4397, 9-10=-16924/4397,

10-11=-16924/4397, 11-12=-16924/4397, 12-13=-16924/4397, 13-14=-16924/4397,

14-15=-16924/4397, 15-16=-14050/3690,

16-17=-14050/3690, 17-18=-14050/3690,

18-19=-14050/3690, 19-20=-14050/3690,

20-21=-14050/3690, 21-22=-14050/3690,

22-23=-259/174, 23-24=-259/174,

24-25=-259/174, 25-26=-1359/410

48-49=-313/456, 47-48=-313/456,

46-47=-313/456, 45-46=-3835/14201,

44-45=-3835/14201, 43-44=-3835/14201, 42-43=-3835/14201, 41-42=-3835/14201,

40-41=-3835/14201, 39-40=-3835/14201,

38-39=-4512/17005, 37-38=-4512/17005,

36-37=-4512/17005, 35-36=-4512/17005,

34-35=-4512/17005, 33-34=-4512/17005,

32-33=-4512/17005, 31-32=-2277/8519, 30-31=-2277/8519, 29-30=-2277/8519,

28-29=-2277/8519, 27-28=-2277/8519,

26-27=-2277/8519



June 6,2023

BOT CHORD

Ply Job Truss Truss Type Qty 3 P210577 X01 Flat Girder 2 Job Reference (optiona

DEVELOPMENT SERVICES 158733575 LEE'S SUMMIT. MISSOURI Run: 8.63 E Nov 21 2022 Print: 8.630 E Nov 21 2022 MiTek Industries, Inc. 1/10n Jun 15187.424/2
ID:DP_VGXsiZmPvGdOqSxRXGtz9XAC-xadSYacyNNvGAlZzY_d9DshjW2z_c??S9Sdc6329.4624/2

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

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

WEBS 1-50=-3496/13375 50-51=-3609/13807 46-51=-3708/14185, 4-46=-1247/353,

46-52=-10313/2724, 52-53=-9224/2432, 53-54=-9169/2419, 8-54=-9660/2549. 8-42=-145/626, 8-55=-1284/4792, 55-56=-1202/4486, 56-57=-1239/4620, 39-57=-1231/4602, 12-39=-2046/557, 15-36=-182/827, 15-60=-4805/1279, 60-61=-4708/1253, 32-61=-4922/1310, 18-32=-2251/613, 32-62=-2491/9523 62-63=-2402/9167, 63-64=-2370/9053, 22-64=-2549/9733, 22-29=-162/696, 22-65=-14510/3781, 65-66=-13981/3643, 26-66=-13650/3557, 2-50=-820/275, 48-50=-1352/415, 3-51=-411/136, 47-51=-877/258, 5-52=-1338/359, 6-53=-863/258, 45-53=-793/244, 7-54=-99/466, 41-55=-51/282, 10-56=-890/266, 40-56=-1060/313, 13-58=-998/287, 38-58=-967/278, 14-59=-254/99, 34-60=-365/130, 17-61=-1130/319, 33-61=-862/249, 19-62=-112/446, 20-63=-958/286, 31-63=-1102/326, 21-64=-282/98, 30-64=-125/563, 23-65=-62/340, 28-65=-310/107, 24-66=-602/212, 27-66=-1015/320

NOTES

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
- Web connected as follows: 2x4 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 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, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 6) Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 3x6 MT20 unless otherwise indicated.
- The Fabrication Tolerance at joint 1 = 4%
- 10) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 11) Gable studs spaced at 2-0-0 oc.
- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 13) WARNING: Required bearing size at joint(s) 49, 26 greater than input bearing size.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2118 lb uplift at joint 49 and 2118 lb uplift at joint 26.
- 15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-25=-588 (F=-500), 26-49=-20

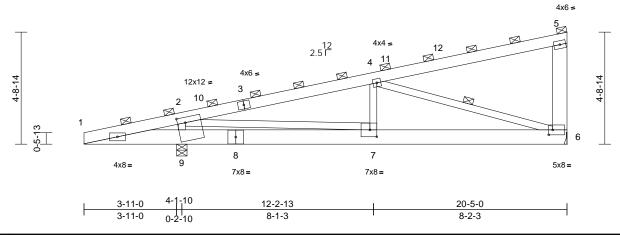
Ply Job Truss Truss Type Qty P210577 X02 2 2 Monopitch Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 158733576 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Jun 🕟 ID:mfPrOPy4rYo7lwrA6WPCB?z9Zro-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoi7





Scale = 1:48.7

Plate Offsets (X, Y): [2:0-4-0,0-2-12], [6:0-2-0,0-2-8], [7:0-3-8,0-3-8]

| Loading | (psf) | Spacing | 6-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.83 | Vert(LL) | -0.07 | 6-7 | >999 | 240 | MT20 | 197/144 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.56 | Vert(CT) | -0.17 | 6-7 | >999 | 180 | | |
| TCDL | 25.0 | Rep Stress Incr | NO | WB | 0.97 | Horz(CT) | 0.01 | 6 | n/a | n/a | | |
| BCLL | 0.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 229 lb | FT = 20% |

LUMBER

TOP CHORD 2x6 SPF No 2 BOT CHORD 2x8 SPF No.2

WEBS 2x4 SPF No.3 *Except* 5-6:2x8 SPF No.2

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end

verticals

(Switched from sheeted: Spacing > 2-0-0).

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing

WEBS 1 Row at midpt 4-6

REACTIONS 6= Mechanical, 9=0-5-4 (size)

Max Horiz 9=560 (LC 13)

Max Uplift 6=-475 (LC 16), 9=-1004 (LC 12)

Max Grav 6=2684 (LC 2), 9=4558 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-2028/205, 2-4=-4714/713,

4-5=-639/254, 5-6=-1028/548

BOT CHORD 1-9=-12/2016, 7-9=-453/1972, 6-7=-744/4368

WEBS 2-9=-3604/1504, 4-6=-4264/849,

4-7=-334/708, 2-7=-1820/4399

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.

Web connected as follows: 2x4 - 1 row at 0-3-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 20-1-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 475 lb uplift at joint 6 and 1004 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 6,2023





RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI Offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth. For 4 x 2 orientation, locate plates 0- ¹n/6" from outside

* Plate location details available in MiTek 20/20 software or upon request.

connector plates.

This symbol indicates the required direction of slots in

edge of truss.

PLATE SIZE

4 × 4

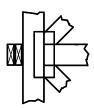
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

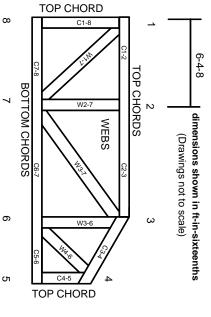
Min size shown is for crushing only

Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber

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- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.