

RE: P250254-01

Roof - BF Lot 440

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

314.434.1200

Site Information:

Customer: Clayton Properties Project Name: P250254-01 Lot/Block: 440 Model: Carolina Model: Carolina - Modern Farmhouse

Address: 1131 SE Ranchland St. Subdivision: Bailey Farms

City: Lee's 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 Floor Load: N/A psf Roof Load: 45.0 psf

This package includes 38 individual, dated Truss Design Drawings and 0 Additional Drawings.

| No. | Seal# | Truss Name | Date | No. | Seal# | Truss Name | Date |
|-----|-----------|------------|-----------|-----|-----------|------------|-----------|
| 1 | 168187632 | A1 | 9/13/2024 | 21 | 168187652 | G2 | 9/13/2024 |
| 2 | 168187633 | A2 | 9/13/2024 | 22 | 168187653 | G3 | 9/13/2024 |
| 3 | 168187634 | A3 | 9/13/2024 | 23 | 168187654 | J1 | 9/13/2024 |
| 4 | 168187635 | A4 | 9/13/2024 | 24 | 168187655 | J2 | 9/13/2024 |
| 5 | 168187636 | A5 | 9/13/2024 | 25 | 168187656 | J3 | 9/13/2024 |
| 6 | 168187637 | A6 | 9/13/2024 | 26 | 168187657 | J4 | 9/13/2024 |
| 7 | 168187638 | A7 | 9/13/2024 | 27 | 168187658 | J5 | 9/13/2024 |
| 8 | 168187639 | B1 | 9/13/2024 | 28 | 168187659 | V1 | 9/13/2024 |
| 9 | 168187640 | B2 | 9/13/2024 | 29 | 168187660 | V2 | 9/13/2024 |
| 10 | 168187641 | B3 | 9/13/2024 | 30 | I68187661 | V3 | 9/13/2024 |
| 11 | 168187642 | C1 | 9/13/2024 | 31 | 168187662 | V4 | 9/13/2024 |
| 12 | 168187643 | C2 | 9/13/2024 | 32 | 168187663 | V5 | 9/13/2024 |
| 13 | 168187644 | CG1 | 9/13/2024 | 33 | 168187664 | V6 | 9/13/2024 |
| 14 | 168187645 | D1 | 9/13/2024 | 34 | 168187665 | V7 | 9/13/2024 |
| 15 | 168187646 | D2 | 9/13/2024 | 35 | 168187666 | V8 | 9/13/2024 |
| 16 | 168187647 | D5 | 9/13/2024 | 36 | 168187667 | V9 | 9/13/2024 |
| 17 | 168187648 | E1 | 9/13/2024 | 37 | 168187668 | V10 | 9/13/2024 |
| 18 | 168187649 | E2 | 9/13/2024 | 38 | 168187669 | V11 | 9/13/2024 |
| 19 | 168187650 | F1 | 9/13/2024 | | | | |
| 20 | 168187651 | G1 | 9/13/2024 | | | | |

The truss drawing(s) referenced above have been prepared by

MiTek USA, Inc under my direct supervision

based on the parameters provided by .

Truss Design Engineer's Name: Sevier, Scott

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

Missouri COA: 001193

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



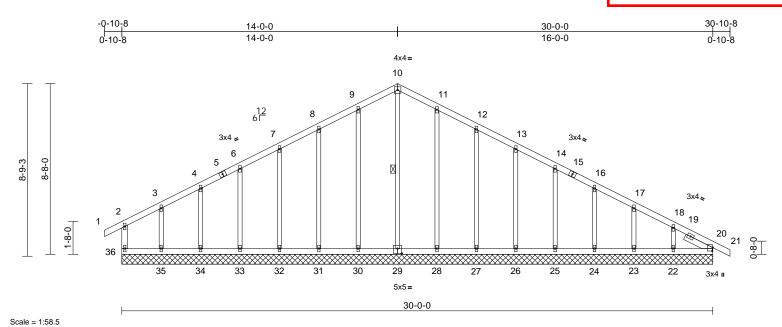
Job Truss Truss Type Qty Ply Roof - BF Lot 440 P250254-01 A1 Common Supported Gable Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168187632 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 14 ID:a28z?L6gE29gV2LEVbGk?yzbjFx-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK VrCDoi7



| 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 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.06 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.20 | Horz(CT) | 0.01 | 20 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 154 lb | FT = 20% |

| LOMBLIX | | |
|-----------|---|-----------|
| TOP CHORD | 2x4 SP No.2 | |
| BOT CHORD | 2x4 SP No.2 | |
| WEBS | 2x4 SP No.2 | |
| OTHERS | 2x3 SPF No.2 | |
| SLIDER | Right 2x4 SP No.2 1-6-7 | |
| BRACING | | |
| TOP CHORD | Structural wood sheathing directly applied or | BOT CHORD |

6-0-0 oc purlins, except end verticals. BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing. 10-29

WFBS 1 Row at midpt

LUMBER

REACTIONS (size) 20=30-0-0, 22=30-0-0, 23=30-0-0, 24=30-0-0, 25=30-0-0, 26=30-0-0, 27=30-0-0. 28=30-0-0. 29=30-0-0. 30=30-0-0, 31=30-0-0, 32=30-0-0, 33=30-0-0, 34=30-0-0, 35=30-0-0, 36=30-0-0

Max Horiz 36=-157 (LC 10)

Max Uplift 20=-59 (LC 9), 22=-95 (LC 13), 23=-58 (LC 13), 24=-62 (LC 13), 25=-61 (LC 13), 26=-60 (LC 13), 27=-65 (LC 13), 28=-55 (LC 13),

30=-51 (LC 12), 31=-67 (LC 12), 32=-59 (LC 12), 33=-64 (LC 12), 34=-50 (LC 12), 35=-109 (LC 12), 36=-33 (LC 13)

Max Grav 20=157 (LC 19), 22=180 (LC 1), 23=181 (LC 26), 24=180 (LC 1), 25=180 (LC 26), 26=180 (LC 1),

27=179 (LC 26), 28=189 (LC 26), 29=226 (LC 21), 30=189 (LC 25), 31=179 (LC 25), 32=180 (LC 1), 33=179 (LC 25), 34=184 (LC 1), 35=164 (LC 25), 36=164 (LC 1)

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

TOP CHORD 2-36=-147/112, 1-2=0/32, 2-3=-58/51 3-4=-52/110, 4-6=-70/162, 6-7=-89/216 7-8=-108/270, 8-9=-127/327, 9-10=-145/374, 10-11=-145/374, 11-12=-127/327,

12-13=-108/270, 13-14=-89/217, 14-16=-77/172, 16-17=-91/145, 17-18=-110/116, 18-20=-168/107, 20-21=0/6 35-36=-80/168, 34-35=-80/168,

33-34=-80/168, 32-33=-80/168, 31-32=-80/168, 30-31=-80/168, 28-30=-80/168, 27-28=-80/168, 26-27=-80/168, 25-26=-80/168,

24-25=-80/168, 23-24=-80/168, 22-23=-80/168, 20-22=-80/168 10-29=-243/46, 9-30=-149/82,

16-24=-140/96, 17-23=-142/122,

8-31=-139/104, 7-32=-140/96, 6-33=-139/97, 4-34=-144/121, 3-35=-124/161. 11-28=-149/82, 12-27=-139/104, 13-26=-140/95, 14-25=-140/97,

18-22=-136/163

NOTES

WFBS

- 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(3E) 1-1-8 to 6-0-0, Exterior(2N) 6-0-0 to 16-0-0, Corner(3R) 16-0-0 to 21-0-0, Exterior(2N) 21-0-0 to 32-10-8 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
- 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.
- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 36, 20, 30, 31, 32, 33, 34, 35, 28, 27, 26, 25, 24, 23, and 22. This connection is for uplift only and does not consider lateral forces.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard







Job Truss Truss Type Qty Ply Roof - BF Lot 440 P250254-01 A2 6 Common Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168187633 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 14 ID:EMtWWRGCPkgzxuGYC7UYUUzbjFl-RfC?PsB70Hq3NSgPqnL8w3ulTXt GKWrCD

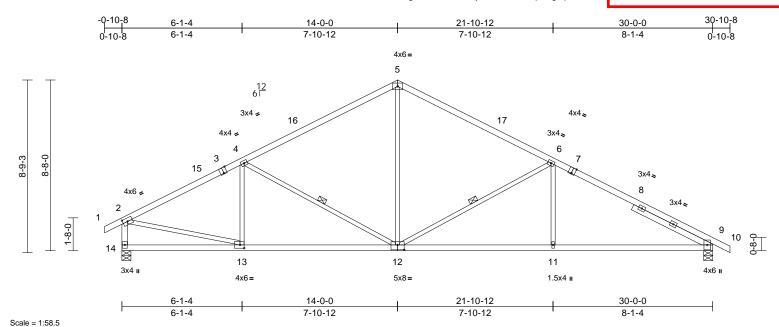


Plate Offsets (X, Y): [2:0-2-15,0-2-0], [3:0-2-0,Edge], [7:0-2-0,Edge], [9:0-3-9,0-1-5], [12:0-4-0,0-3-0], [13:0-2-8,0-2-0]

| 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 | 0.61 | Vert(LL) | -0.11 | 9-11 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.74 | Vert(CT) | -0.25 | 9-11 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.61 | Horz(CT) | 0.07 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 139 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.5E *Except* 1-3,7-10:2x4 SP

No.2

BOT CHORD 2x4 SP No.2

2x3 SPF No.2 *Except* 14-2:2x4 SP No.2 WFBS SLIDER

Right 2x4 SP No.2 -- 4-5-15 **BRACING**

TOP CHORD

Structural wood sheathing directly applied or

3-3-5 oc purlins, except end verticals.

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

bracing WEBS

1 Row at midpt 6-12, 4-12

REACTIONS (size) 9=0-5-8, 14=0-5-8 Max Horiz 14=-157 (LC 10)

Max Uplift 9=-233 (LC 13), 14=-218 (LC 12)

Max Grav 9=1404 (LC 1), 14=1415 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/32, 2-4=-1798/311, 4-5=-1504/342,

5-6=-1504/347, 6-9=-2249/364, 9-10=0/6,

2-14=-1360/304

BOT CHORD 13-14=-125/193, 11-13=-267/1894,

9-11=-217/1894

5-12=-73/708, 6-12=-798/306, 6-11=0/335,

4-12=-447/233, 4-13=-207/133,

2-13=-175/1479

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) 1-1-8 to 6-1-8, Interior (1) 6-1-8 to 16-0-0, Exterior(2R) 16-0-0 to 21-0-0, Interior (1) 21-0-0 to 32-10-8 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14 and 9. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



September 13,2024



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Truss Type Job Truss Qty Ply Roof - BF Lot 440 P250254-01 **A3** Common 6 Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168187634 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 14 ID:EMtWWRGCPkgzxuGYC7UYUUzbjFl-RfC?PsB70Hq3NSgPqnL8w3ulTXt GKWrCL

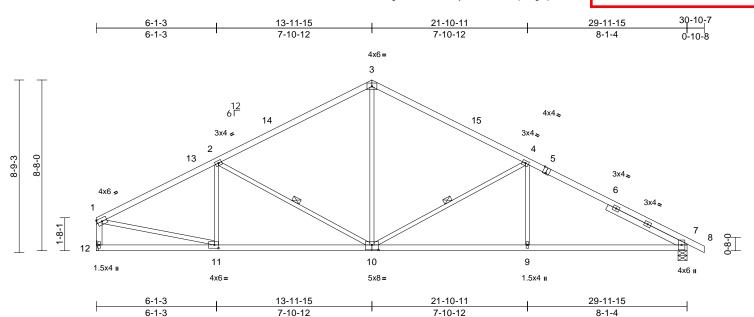


Plate Offsets (X, Y): [5:0-2-0,Edge], [7:0-3-9,0-1-5], [10:0-4-0,0-3-0], [11:0-2-8,0-2-0]

| 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 | 0.61 | Vert(LL) | -0.11 | 7-9 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.74 | Vert(CT) | -0.25 | 7-9 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.61 | Horz(CT) | 0.07 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 137 lb | FT = 20% |

LUMBER

Scale = 1:58.5

2x4 SP 1650F 1.5E *Except* 5-8:2x4 SP TOP CHORD

No.2

BOT CHORD 2x4 SP No.2

2x3 SPF No.2 *Except* 12-1:2x4 SP No.2 WFBS SLIDER

Right 2x4 SP No.2 -- 4-5-15 **BRACING**

TOP CHORD

Structural wood sheathing directly applied or

3-3-3 oc purlins, except end verticals.

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

bracing WEBS

1 Row at midpt 4-10, 2-10 (size) 7=0-5-8, 12= Mechanical

REACTIONS Max Horiz 12=-166 (LC 17)

Max Uplift 7=-233 (LC 13), 12=-192 (LC 12)

Max Grav 7=1405 (LC 1), 12=1342 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-1802/311, 2-3=-1507/345,

3-4=-1506/346, 4-7=-2251/364, 7-8=0/6,

1-12=-1288/251

BOT CHORD 11-12=-101/192, 9-11=-266/1896, 7-9=-219/1896

WEBS 3-10=-73/711, 4-10=-799/306, 4-9=0/335,

2-10=-455/233, 2-11=-213/142,

1-11=-211/1503

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) 2-1-13 to 7-1-13, Interior (1) 7-1-13 to 16-0-0, Exterior(2R) 16-0-0 to 21-0-0, Interior (1) 21-0-0 to 32-10-8 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 7 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 192 lb uplift at
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.
- 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



September 13,2024



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Ply Truss Type Job Truss Qty Roof - BF Lot 440 P250254-01 **A4** Common Job Reference (optional RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168187635 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 14 ID:Ak_Gx7HSxMwhABPwKYW0avzbjFj-RfC?PsB70Hq3NSgPqnL8w3uITXb0 KWrCD07J4

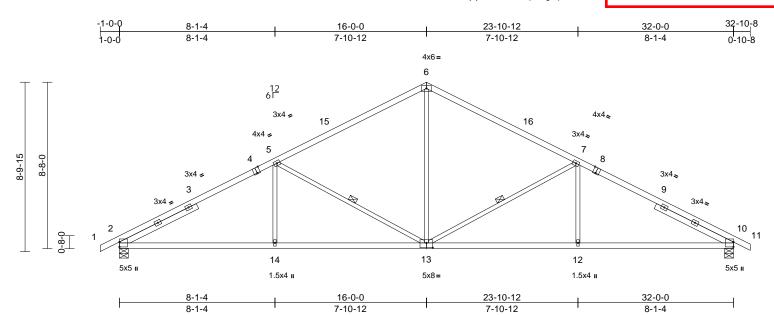


Plate Offsets (X, Y): [4:0-2-0,Edge], [8:0-2-0,Edge], [13:0-4-0,0-3-0]

| 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 | 0.68 | Vert(LL) | -0.12 | 2-14 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.76 | Vert(CT) | -0.26 | 10-12 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.60 | Horz(CT) | 0.11 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 145 lb | FT = 20% |

LUMBER

2x4 SP 1650F 1.5E *Except* 1-4,8-11:2x4 SP TOP CHORD

No.2 2x4 SP No.2

BOT CHORD 2x3 SPF No 2 WFBS

SLIDER Left 2x4 SP No.2 -- 4-5-15, Right 2x4 SP

No.2 -- 4-5-15

BRACING TOP CHORD

Structural wood sheathing directly applied or

3-0-9 oc purlins.

BOT CHORD Rigid ceiling directly applied or 9-9-4 oc

bracing

WFBS 7-13. 5-13 1 Row at midpt REACTIONS (size) 2=0-5-8, 10=0-5-8

Max Horiz 2=161 (LC 16)

Max Uplift 2=-244 (LC 12), 10=-241 (LC 13) Max Grav 2=1510 (LC 1), 10=1501 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/10, 2-5=-2447/389, 5-6=-1710/373, 6-7=-1710/374, 7-10=-2448/390, 10-11=0/6

BOT CHORD 2-14=-358/2068, 12-14=-358/2069,

10-12=-242/2069

WEBS 6-13=-100/889, 7-13=-792/305, 7-12=0/337,

5-13=-790/304, 5-14=0/337

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) -1-0-0 to 4-0-0, Interior (1) 4-0-0 to 16-0-0, Exterior(2R) 16-0-0 to 21-0-0, Interior (1) 21-0-0 to 32-10-8 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

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
- 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 Roof - BF Lot 440 P250254-01 A5 8 Common Job Reference (optional RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168187636 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 14 ID:pnBNuPDK6pIO4QXzX_wrtszbjFo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7

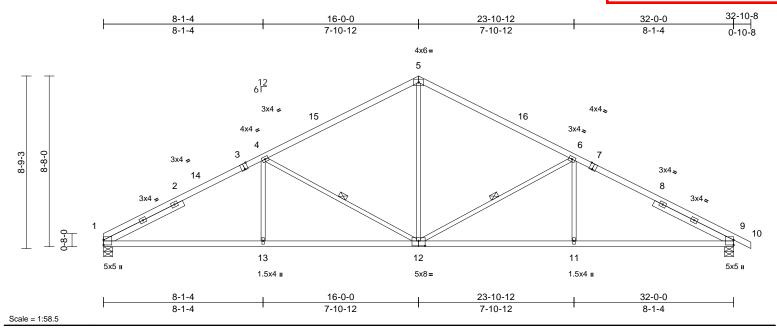


Plate Offsets (X, Y): [3:0-2-0,Edge], [7:0-2-0,Edge], [12:0-4-0,0-3-0]

| 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 | 0.86 | Vert(LL) | -0.12 | 1-13 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.77 | Vert(CT) | -0.27 | 1-13 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.60 | Horz(CT) | 0.11 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 144 lb | FT = 20% |

LUMBER

2x4 SP 1650F 1.5E *Except* 1-3,7-10:2x4 SP TOP CHORD

No.2

BOT CHORD 2x4 SP No.2 2x3 SPF No 2 WFBS

SLIDER Left 2x4 SP No.2 -- 4-5-15, Right 2x4 SP

No.2 -- 4-5-15

BRACING

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied or 9-8-11 oc

bracing

WEBS 1 Row at midpt 6-12, 4-12

1=0-5-8, 9=0-5-8 REACTIONS (size) Max Horiz 1=-161 (LC 13)

> Max Uplift 1=-218 (LC 12), 9=-241 (LC 13) Max Grav 1=1439 (LC 1), 9=1502 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-4=-2454/401, 4-5=-1712/379,

5-6=-1712/374, 6-9=-2450/390, 9-10=0/6 **BOT CHORD** 1-13=-361/2075, 11-13=-361/2075,

9-11=-246/2071

WEBS 5-12=-105/891, 6-12=-792/305, 6-11=0/337,

4-12=-796/306, 4-13=0/339

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 32-10-8 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

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 9. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



September 13,2024





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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Ply Truss Type Job Truss Qty Roof - BF Lot 440 P250254-01 A6 Common Job Reference (optional

14

1.5x4 II

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168187637 LEE'S SUMMIT. MISSOURI

5x5 ı

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

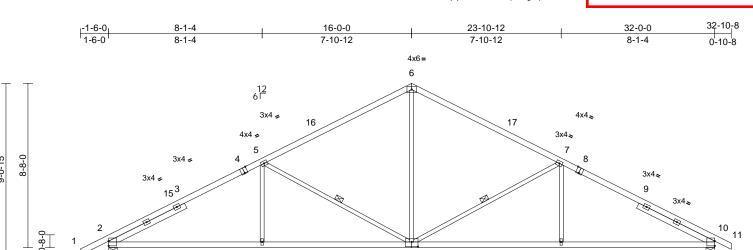
Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 14 ID:Ak_Gx7HSxMwhABPwKYW0avzbjFj-RfC?PsB70Hq3NSgPqnL8w3uITXb0 KWrCD0i7J4z

12

1.5x4 II

32-0-0

8-1-4



13

5x8=

23-10-12

7-10-12

Scale = 1:60.8

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

8-1-4

8-1-4

5x5 II

| 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 | 10-12 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.76 | Vert(CT) | -0.26 | 10-12 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.60 | Horz(CT) | 0.11 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 146 lb | FT = 20% |

LUMBER

2x4 SP 1650F 1.5E *Except* 1-4,8-11:2x4 SP TOP CHORD

No.2

BOT CHORD 2x4 SP No.2 2x3 SPF No 2 WFBS

SLIDER Left 2x4 SP No.2 -- 4-5-15, Right 2x4 SP

No.2 -- 4-5-15

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-0-9 oc purlins.

BOT CHORD Rigid ceiling directly applied or 9-9-11 oc

bracing WFBS

7-13. 5-13 1 Row at midpt REACTIONS (size) 2=0-5-8, 10=0-5-8

Max Horiz 2=171 (LC 12)

Max Uplift 2=-257 (LC 12), 10=-240 (LC 13) Max Grav 2=1547 (LC 1), 10=1500 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/27, 2-5=-2439/379, 5-6=-1706/369,

6-7=-1707/373, 7-10=-2445/389, 10-11=0/6 BOT CHORD

2-14=-354/2058, 12-14=-354/2066, 10-12=-238/2066

WEBS 6-13=-99/885, 7-13=-792/305, 7-12=0/337,

5-13=-782/300, 5-14=0/336

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) -1-6-0 to 3-6-0, Interior (1) 3-6-0 to 16-0-0, Exterior(2R) 16-0-0 to 21-0-0, Interior (1) 21-0-0 to 32-10-8 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

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

16-0-0

7-10-12

- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10 and 2. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



September 13,2024



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



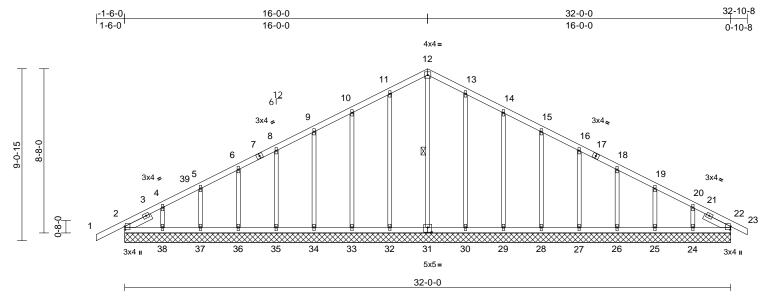
| | | | | | | _ |
|------------|-------|------------------------|-----|-----|---------------------------|---|
| Job | Truss | Truss Type | Qty | Ply | Roof - BF Lot 440 | _ |
| P250254-01 | A7 | Common Supported Gable | 1 | 1 | .lob Reference (optional) | |

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168187638 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 14 ID:2EiMDg7J?MHX6CwQ3JnzYAzbjFw-RfC?PsB70Hq3NSgPqnL8w3uITXb(KWrCDdir J4z

RELEASE FOR CONSTRUCTION



Scale = 1:60.8

LUMBER

| Plate Offsets (X, Y): | [2:0-2-1,0-0-5], [22:0-2 | 2-1,0-0-5], [31:0-2-8,0-3-0] |
|-----------------------|--------------------------|------------------------------|
|-----------------------|--------------------------|------------------------------|

| 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 | 0.17 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.04 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.20 | Horz(CT) | 0.01 | 22 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 163 lb | FT = 20% |

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x3 SPF No.2 OTHERS SLIDER

Left 2x4 SP No.2 -- 1-6-7, Right 2x4 SP No.2 -- 1-6-7

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 12-31

REACTIONS (size) 2=32-0-0, 22=32-0-0, 24=32-0-0,

25=32-0-0, 26=32-0-0, 27=32-0-0, 28=32-0-0, 29=32-0-0, 30=32-0-0, 31=32-0-0, 32=32-0-0, 33=32-0-0,

34=32-0-0, 35=32-0-0, 36=32-0-0, 37=32-0-0, 38=32-0-0

Max Horiz 2=171 (LC 12)

Max Uplift 2=-43 (LC 8), 24=-92 (LC 13),

25=-58 (LC 13), 26=-62 (LC 13), 27=-61 (LC 13), 28=-60 (LC 13), 29=-66 (LC 13), 30=-54 (LC 13), 32=-58 (LC 12), 33=-64 (LC 12), 34=-61 (LC 12), 35=-61 (LC 12),

36=-62 (LC 12), 37=-59 (LC 12), 38=-90 (LC 12)

Max Grav 2=236 (LC 1), 22=162 (LC 1),

24=178 (LC 26), 25=181 (LC 1), 26=180 (LC 26), 27=180 (LC 26), 28=180 (LC 1), 29=179 (LC 26),

30=189 (LC 26), 31=197 (LC 22), 32=189 (LC 25), 33=179 (LC 25), 34=180 (LC 1), 35=180 (LC 1), 36=178 (LC 25), 37=187 (LC 1),

38=143 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/27, 2-4=-216/71, 4-5=-148/79

5-6=-111/93, 6-8=-84/119, 8-9=-68/147, 9-10=-71/185, 10-11=-91/241,

11-12=-109/290, 12-13=-109/290,

13-14=-91/241, 14-15=-71/185, 15-16=-53/131, 16-18=-51/77, 18-19=-62/28,

19-20=-86/23, 20-22=-151/47, 22-23=0/6

2-38=-44/177, 37-38=-44/177,

36-37=-44/177, 35-36=-44/177

34-35=-44/177, 33-34=-44/177,

32-33=-44/177, 30-32=-44/177, 29-30=-44/177, 28-29=-44/177

27-28=-44/177, 26-27=-44/177

25-26=-44/177, 24-25=-44/177

22-24=-44/177

WEBS 12-31=-172/28, 11-32=-149/86

10-33=-139/102, 9-34=-140/95,

8-35=-140/97, 6-36=-139/96, 5-37=-147/113, 4-38=-106/149, 13-30=-149/86,

14-29=-139/102, 15-28=-140/96, 16-27=-140/97, 18-26=-139/97

19-25=-142/121, 20-24=-134/179

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 Corner(3E) -1-6-0 to 3-6-0, Exterior(2N) 3-6-0 to 16-0-0, Corner(3R) 16-0-0 to 21-0-0, Exterior(2N) 21-0-0 to 32-10-8 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
- 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.

- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 2, 58 lb uplift at joint 32, 64 lb uplift at joint 33, 61 lb uplift at joint 34, 61 lb uplift at joint 35, 62 lb uplift at joint 36, 59 lb uplift at joint 37, 90 lb uplift at joint 38, 54 lb uplift at joint 30, 66 lb uplift at joint 29, 60 lb uplift at joint 28, 61 lb uplift at joint 27, 62 lb uplift at joint 26, 58 lb uplift at joint 25 and 92 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



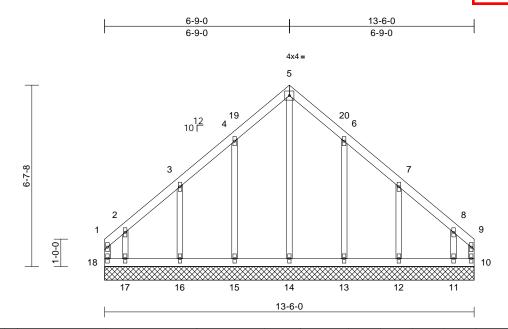


Job Truss Truss Type Qty Ply Roof - BF Lot 440 P250254-01 В1 Common Supported Gable Job Reference (optional S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168187639 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 1214 2247 ID:D4L4yd3YPWXNOHSHi2gZlvzbjG0-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDors423C?f



Scale = 1:42.1

| 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 | 0.12 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.07 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.27 | Horiz(TL) | 0.00 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | | | | | | Weight: 66 lb | FT = 20% |

LUMBER

2x4 SP No.2 TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x3 SPF No.2 WEBS 2x3 SPF No.2 OTHERS

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)

10=13-6-0, 11=13-6-0, 12=13-6-0, 13=13-6-0, 14=13-6-0, 15=13-6-0, 16=13-6-0, 17=13-6-0, 18=13-6-0

Max Horiz 18=185 (LC 9)

Max Uplift 10=-157 (LC 11), 11=-180 (LC 13), 12=-103 (LC 13), 13=-98 (LC 13),

15=-98 (LC 12), 16=-102 (LC 12), 17=-188 (LC 12), 18=-187 (LC 10)

Max Grav 10=183 (LC 8), 11=229 (LC 20), 12=197 (LC 20), 13=203 (LC 20),

14=199 (LC 22), 15=204 (LC 19), 16=196 (LC 19), 17=243 (LC 19),

18=212 (LC 9)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-18=-140/120, 1-2=-163/147, 2-3=-114/97, 3-4=-96/187, 4-5=-152/302, 5-6=-152/302,

6-7=-95/189, 7-8=-100/79, 8-9=-139/123,

9-10=-120/100

BOT CHORD 17-18=-89/99. 16-17=-89/99. 15-16=-89/99.

> 14-15=-89/99. 13-14=-89/99. 12-13=-89/99. 11-12=-89/99, 10-11=-89/99

5-14=-286/85, 4-15=-164/175

3-16=-158/213, 2-17=-162/198 6-13=-163/175, 7-12=-158/213,

8-11=-156/199

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 Corner(3E) 0-1-4 to 5-1-4, Exterior(2N) 5-1-4 to 6-9-0, Corner(3R) 6-9-0 to 11-9-0, Exterior(2N) 11-9-0 to 13-4-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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. 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 187 lb uplift at joint 18, 157 lb uplift at joint 10, 98 lb uplift at joint 15, 102 lb uplift at joint 16, 188 lb uplift at joint 17, 98 lb uplift at joint 13, 103 lb uplift at joint 12 and 180 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



September 13,2024



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



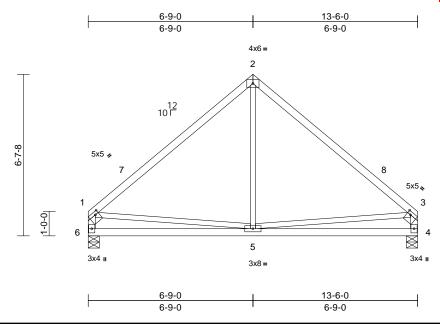
Ply Job Truss Truss Type Qty Roof - BF Lot 440 P250254-01 B2 Common Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168187640 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Th ı Sep 12**14 22:**47 ID:l9J7J5FaeRY6JkhLePyJyHzbjFm-RfC?PsB70Hq3NSgPqnL8w3uITXbGK\ /rCDoi7J42J69



Scale = 1:47.2

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

| 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 | 0.74 | Vert(LL) | -0.04 | 5-6 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.39 | Vert(CT) | -0.08 | 5-6 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.12 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 64 lb | FT = 20% |

LUMBER

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

2x3 SPF No.2 *Except* 6-1,4-3:2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-7-1 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 6=186 (LC 9)

Max Uplift 4=-72 (LC 13), 6=-72 (LC 12) Max Grav 4=594 (LC 1), 6=594 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-606/170, 2-3=-606/170, 1-6=-536/173,

3-4=-536/173

BOT CHORD 5-6=-240/398, 4-5=-157/263 WFBS 2-5=0/275, 1-5=-106/234, 3-5=-112/236

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 6-9-0, Exterior(2R) 6-9-0 to 11-9-0, Interior (1) 11-9-0 to 13-4-4 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6 and 4. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



September 13,2024



Job Truss Truss Type Qty Ply Roof - BF Lot 440 P250254-01 **B**3 Common Girder 2

3-6-8

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

LEE'S SUMMIT. MISSOURI Job Reference (optiona Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 14 ID:2VEnnUKz_aQ7fpjiZNayklzbjFf-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J42bc?+

13-6-1

3-6-8

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 168187641

6-9-0 9-11-9 3-6-8 13-6-1 3-6-8 3-2-8 3-2-8 3-6-8 4x6 ı 10 F 3x6、 3x6 3 3x6 🊜 3x6**⋄** 2 ПП ПΠ 11 12 9 13 8 14 10 5x8= 5x8= 3x10 II 12x12 = 3x10 II HUS26 HUS26 HUS26 HUS26 HUS26 HUS26 3-6-8 6-9-0 9-11-9

Plate Offsets (X, Y): [1:Edge,0-3-0], [7:Edge,0-3-0], [8:0-7-0,0-1-8], [9:0-6-0,0-7-0], [10:0-7-0,0-1-8]

| 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) | -0.05 | 9-10 | >999 | 240 | MT20 | 185/148 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.44 | Vert(CT) | -0.08 | 9-10 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.75 | Horz(CT) | 0.02 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 184 lb | FT = 20% |

3-2-8

3-2-8

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x10 HF No.2 2x3 SPF No.2 WEBS

SLIDER Left 2x4 SP No.2 -- 2-6-0, Right 2x4 SP No.2

-- 2-6-1

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-0-7 oc purlins

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

bracing

REACTIONS (size) 1=0-5-8, 7=0-5-8

Max Horiz 1=169 (LC 11)

Max Uplift 1=-763 (LC 12), 7=-760 (LC 13)

Max Grav 1=4855 (LC 1), 7=4834 (LC 1) (lb) - Maximum Compression/Maximum

FORCES

Tension TOP CHORD

1-3=-5093/897, 3-4=-3757/746,

4-5=-3757/746 5-7=-5091/896

BOT CHORD 1-10=-603/3567, 9-10=-603/3567, 8-9=-553/3565, 7-8=-553/3565

WEBS 3-10=-257/1751, 3-9=-1006/291,

4-9=-814/4354, 5-9=-1003/291, 5-8=-261/1748

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

Bottom chords connected as follows: 2x10 - 3 rows staggered at 0-8-0 oc.

Web connected as follows: 2x3 - 1 row at 0-9-0 oc.

All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

- Unbalanced roof live loads have been considered for
- 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) 0-2-12 to 5-2-12, Interior (1) 5-2-12 to 6-9-0, Exterior(2R) 6-9-0 to 11-9-0, Interior (1) 11-9-0 to 13-3-5 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- Two H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 7. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Use Simpson Strong-Tie HUS26 (14-16d Girder, 4-16d Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-8-12 from the left end to 11-8-12 to connect truss(es) to back face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-4=-70, 4-7=-70, 1-7=-20

Concentrated Loads (lb)

Vert: 10=-1419 (B), 8=-1419 (B), 11=-1419 (B), 12=-1419 (B), 13=-1419 (B), 14=-1419 (B)



September 13,2024



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job Truss Truss Type Qty Ply Roof - BF Lot 440 P250254-01 C1 Common Supported Gable Job Reference (optional

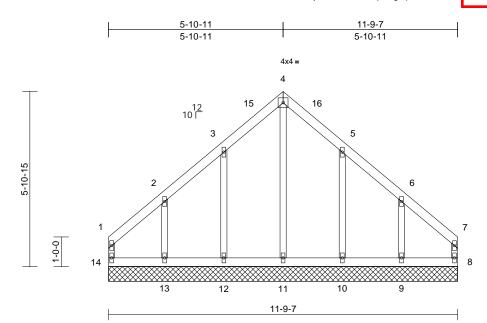
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Th ı Sep 12<mark>14</mark> ID:lunilH2weCPWn7u49L9KmhzbjG1-RfC?PsB70Hq3NSgPqnL8w3uITXbGK WrCDoi734zJC?

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 168187642

LEE'S SUMMIT. MISSOURI



Scale = 1:38.9

| Loading | (psf) | Spacing | 2-0-0 | csı | | 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 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.07 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.21 | Horiz(TL) | 0.00 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | | | | | | Weight: 55 lb | FT = 20% |

LUMBER

2x4 SP No.2 TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x3 SPF No.2 WEBS 2x3 SPF No.2 OTHERS

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=11-9-7, 9=11-9-7, 10=11-9-7, 11=11-9-7, 12=11-9-7, 13=11-9-7,

14=11-9-7

Max Horiz 14=165 (LC 11)

Max Uplift 8=-59 (LC 9), 9=-142 (LC 13), 10=-91 (LC 13), 12=-91 (LC 12), 13=-144 (LC 12), 14=-71 (LC 8)

8=128 (LC 19), 9=231 (LC 20), Max Grav

10=197 (LC 20), 11=186 (LC 22), 12=196 (LC 19), 13=235 (LC 19),

14=136 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-14=-103/59, 1-2=-118/101, 2-3=-96/185, 3-4=-154/305, 4-5=-154/306, 5-6=-94/186,

6-7=-109/88, 7-8=-96/56 **BOT CHORD** 13-14=-78/87, 12-13=-78/87, 11-12=-78/87,

10-11=-78/87, 9-10=-78/87, 8-9=-78/87

WEBS 4-11=-280/86, 3-12=-161/201,

2-13=-174/238, 5-10=-161/201, 6-9=-172/239

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 Corner(3E) 0-1-4 to 5-1-4, Exterior(2N) 5-1-4 to 5-10-11, Corner(3R) 5-10-11 to 10-10-11, Exterior(2N) 10-10-11 to 11-8-3 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
- 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.
- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 14, 59 lb uplift at joint 8, 91 lb uplift at joint 12, 144 lb uplift at joint 13, 91 lb uplift at joint 10 and 142 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.

LOAD CASE(S) Standard



September 13,2024



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



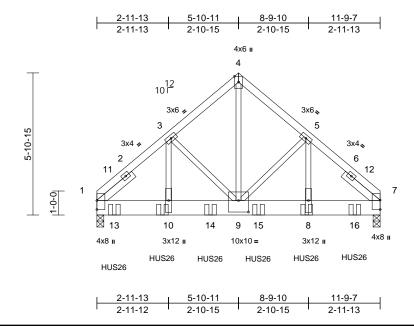
Job Truss Truss Type Qty Ply Roof - BF Lot 440 P250254-01 C2 Common Girder 2

DEVELOPMENT SERVICES 168187643 LEE'S SUMMIT. MISSOURI Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. The Sep 1214 2248 ID:6760MpJjTzAPQVZJRyYUfKzbjFh-RfC?PsB70Hq3NSgPqnL8w3ulTXbGkWrCDoi754z36?/



Scale = 1:47.9

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

| 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 | 0.67 | Vert(LL) | -0.04 | 9-10 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.45 | Vert(CT) | -0.07 | 9-10 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.66 | Horz(CT) | 0.02 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 143 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x8 SPF No.2 2x3 SPF No.2 WEBS

Left 2x4 SP No.2 -- 1-10-10, Right 2x4 SP **SLIDER** No.2 -- 1-10-10

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-8-2 oc purlins

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

bracing.

REACTIONS (size) 1=0-3-7, (req. 0-3-9), 7=0-3-8

Max Horiz 1=-151 (LC 31)

Max Uplift 1=-687 (LC 12), 7=-666 (LC 13)

Max Grav 1=4573 (LC 1), 7=4424 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

1-3=-4555/802, 3-4=-3343/670, TOP CHORD

4-5=-3344/670 5-7=-4554/801

BOT CHORD 1-10=-525/3231. 9-10=-525/3231. 8-9=-495/3233, 7-8=-495/3233

WEBS 3-10=-219/1587, 3-9=-962/283,

4-9=-719/3859. 5-9=-965/285. 5-8=-223/1585

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 - 3 rows staggered at 0-8-0 oc.

- Web connected as follows: 2x3 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 5-10-11, Exterior(2R) 5-10-11 to 10-10-11, Interior (1) 10-10-11 to 11-9-7 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
- 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) 1 greater than input bearing size.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Two H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 7. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Use Simpson Strong-Tie HUS26 (14-16d Girder, 4-16d Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-8-12 from the left end to 10-8-12 to connect truss(es) to back face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-4=-70, 4-7=-70, 1-7=-20

Concentrated Loads (lb)

Vert: 10=-1322 (B), 8=-1322 (B), 13=-1325 (B), 14=-1322 (B), 15=-1322 (B), 16=-1322 (B)

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.



September 13,2024



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

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



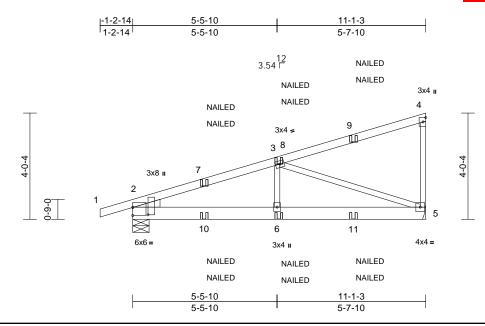
Job Truss Truss Type Qty Ply Roof - BF Lot 440 P250254-01 CG1 Diagonal Hip Girder Job Reference (optiona

DEVELOPMENT SERVICES 168187644 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 Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Th ı Sep 12<mark>14</mark> ID:ewYe9Tl5if2YoL_7tF1F67zbjFi-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrDoi7J4z9e?



Scale = 1:43.7

Plate Offsets (X, Y): [2:Edge,0-3-11], [2:0-3-6,0-6-15]

| 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 | 0.74 | Vert(LL) | 0.03 | 6 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.68 | Vert(CT) | -0.05 | 5-6 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.91 | Horz(CT) | 0.01 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 49 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.5E **BOT CHORD** 2x6 SPF No.2 2x3 SPF No.2 WEBS WFDGF Left: 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 9-10-6 oc

bracing

REACTIONS (size) 2=0-7-6, 5= Mechanical

Max Horiz 2=169 (LC 28)

Max Uplift 2=-229 (LC 8), 5=-233 (LC 12) Max Grav 2=698 (LC 1), 5=702 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/0, 2-3=-1163/411, 3-4=-142/93,

4-5=-248/193

BOT CHORD 2-6=-546/1040, 5-6=-546/1040 WEBS 3-6=0/352, 3-5=-1073/512

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 Corner (3) -1-2-14 to 5-10-0, Exterior(2R) 5-10-0 to 10-11-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 2 SPF No.2 crushing 3) capacity of 425 psi.
- Refer to girder(s) for truss to truss connections
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 233 lb uplift at ioint 5.

- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-4=-70, 2-5=-20

Concentrated Loads (lb)

Vert: 3=-53 (F=-26, B=-26), 6=-19 (F=-10, B=-10), 9=-198 (F=-99, B=-99), 11=-59 (F=-30, B=-30)



September 13,2024





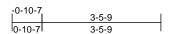


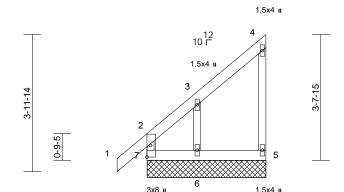
Job Truss Truss Type Qty Ply Roof - BF Lot 440 P250254-01 D1 Monopitch Supported Gable

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

DEVELOPMENT SERVICES 168187645 LEE'S SUMMIT. MISSOURI Job Reference (optional Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Th ı Sep 12<mark>14</mark> ID:ATTrNJ4ox7n5eacfqTi1NKzbjG_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV rCDoi7J4

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW





3-5-9

1.5x4 II

Scale = 1:33.6

| 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 | 0.30 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.14 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.09 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | | | | | | Weight: 18 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x3 SPF No.2 WEBS 2x3 SPF No.2 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-5-9 oc purlins, except end verticals.

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

bracing.

(size) REACTIONS 5=3-5-8, 6=3-5-8, 7=3-5-8

Max Horiz 7=152 (LC 9)

Max Uplift 5=-34 (LC 9), 6=-131 (LC 12),

7=-46 (LC 8) 5=88 (LC 19), 6=192 (LC 19), Max Grav

7=170 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-7=-156/166, 1-2=0/44, 2-3=-388/246,

3-4=-141/115, 4-5=-104/147

BOT CHORD 6-7=-65/86, 5-6=-65/86 WEBS 3-6=-239/371

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(3E) 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.
- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 7, 34 lb uplift at joint 5 and 131 lb uplift at joint 6.
- Non Standard bearing condition. Review required.
- 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







Truss Type Job Truss Qty Ply Roof - BF Lot 440 P250254-01 D2 10 Monopitch Job Reference (optional

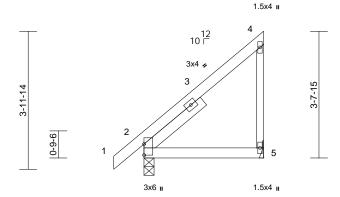
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168187646 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Th ı Sep 12**14 22:4**8 ID:l9J7J5FaeRY6JkhLePyJyHzbjFm-RfC?PsB70Hq3NSgPqnL8w3uITXbGK\ /rCDoi7J42J69

| -0-10-8 | 3-5-8 | |
|---------|-------|--|
| 0-10-8 | 3-5-8 | |



Scale = 1:33.3

| 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 | 0.39 | Vert(LL) | -0.01 | 2-5 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.13 | Vert(CT) | -0.02 | 2-5 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 20 lb | FT = 20% |

3-5-8

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x3 SPF No.2 WEBS

SLIDER Left 2x4 SP No.2 -- 2-2-4

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-5-8 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-3-8, 5= Mechanical

Max Horiz 2=143 (LC 9)

Max Uplift 2=-23 (LC 12), 5=-67 (LC 9)

Max Grav 2=220 (LC 1), 5=173 (LC 19) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/19, 2-4=-222/168, 4-5=-208/254

BOT CHORD 2-5=-67/72

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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 5) bearing plate capable of withstanding 67 lb uplift at joint
- 6) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.

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.

LOAD CASE(S) Standard







Truss Type Job Truss Qty Ply Roof - BF Lot 440 P250254-01 D5 Monopitch Supported Gable

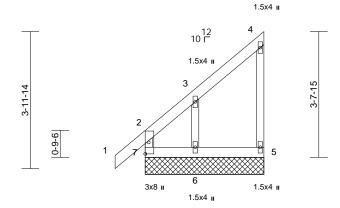
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168187647 LEE'S SUMMIT. MISSOURI Job Reference (optional

RELEASE FOR CONSTRUCTION

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Th ı Sep 12**11**42248 ID:ATTrNJ4ox7n5eacfqTi1NKzbjG_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV rCDoi7J4

| -0-10-8 | 3-5-8 | |
|-------------|-------|--|
| 0-10-8 | | |



Scale = 1:33.6

| | | 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 | 0.31 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.15 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.09 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDI | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | l ` ´ | | | | | Weight: 18 lb | FT = 20% |

3-5-8

LUMBER

2x4 SP No.2 TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x3 SPF No.2 WEBS 2x3 SPF No.2 OTHERS

BRACING

Structural wood sheathing directly applied or TOP CHORD 3-5-8 oc purlins, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing.

(size) REACTIONS 5=3-5-8, 6=3-5-8, 7=3-5-8

Max Horiz 7=152 (LC 9)

Max Uplift 5=-34 (LC 9), 6=-131 (LC 12), 7=-46 (LC 8)

5=88 (LC 19), 6=192 (LC 19), Max Grav

7=170 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-7=-157/167, 1-2=0/44, 2-3=-388/246,

3-4=-141/115, 4-5=-104/147

BOT CHORD 6-7=-65/86, 5-6=-65/86

WEBS 3-6=-239/371

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(3E) 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.
- 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.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 7, 34 lb uplift at joint 5 and 131 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







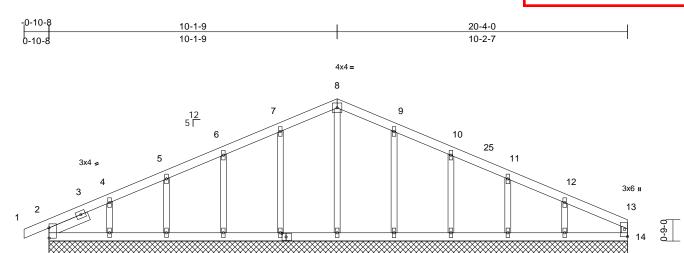
Job Truss Truss Type Qty Ply Roof - BF Lot 440 P250254-01 E1 Common Supported Gable Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168187648 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Th i Sep 1214 ID:lunilH2weCPWn7u49L9KmhzbjG1-RfC?PsB70Hq3NSgPqnL8w3uITXbGK



19

20-4-0

18

17

16

15

Scale = 1:40.5 Plate Offsets (X, Y): [2:0-4-5,0-0-1], [20:0-1-12,0-1-8]

| 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 | 0.06 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.04 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.06 | Horz(CT) | 0.00 | 14 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 86 lb | FT = 20% |

220

3x4 =

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

9-6-0

2x3 SPF No.2 WEBS OTHERS 2x3 SPF No 2

SLIDER Left 2x4 SP No.2 -- 1-6-4

BRACING

BOT CHORD

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

bracing.

REACTIONS (size) 2=20-4-0, 14=20-4-0, 15=20-4-0, 16=20-4-0, 17=20-4-0, 18=20-4-0,

19=20-4-0, 21=20-4-0, 22=20-4-0,

24

3x6 II

23

22

23=20-4-0, 24=20-4-0

Max Horiz 2=86 (LC 12)

Max Uplift 2=-35 (LC 13), 15=-78 (LC 13),

16=-48 (LC 13), 17=-57 (LC 13), 18=-55 (LC 13), 21=-57 (LC 12),

22=-56 (LC 12), 23=-51 (LC 12),

24=-82 (LC 12) Max Grav 2=168 (LC 1), 14=90 (LC 1)

15=204 (LC 26), 16=174 (LC 1), 17=180 (LC 1), 18=190 (LC 26),

19=154 (LC 22), 21=190 (LC 25), 22=179 (LC 1), 23=180 (LC 1),

24=185 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-8/0. 2-4=-116/60. 4-5=-68/79.

5-6=-53/108, 6-7=-69/154, 7-8=-84/198, 8-9=-84/198, 9-10=-69/154, 10-11=-53/107,

11-12=-50/55, 12-13=-58/15, 13-14=-72/33 **BOT CHORD** 2-24=-14/46, 23-24=-14/46, 22-23=-14/46, 21-22=-14/46, 19-21=-14/46, 18-19=-14/46,

17-18=-14/46, 16-17=-14/46, 15-16=-14/46, 14-15=-14/46

WEBS

8-19=-114/0, 7-21=-150/92, 6-22=-138/94,

5-23=-142/113, 4-24=-140/159, 9-18=-150/92, 10-17=-140/98,

11-16=-136/125, 12-15=-158/167

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(3E) -0-9-10 to 4-2-7, Exterior(2N) 4-2-7 to 10-2-7, Corner(3R) 10-2-7 to 15-2-7, Exterior(2N) 15-2-7 to 20-3-11 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.
- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 2, 57 lb uplift at joint 21, 56 lb uplift at joint 22, 51 lb uplift at joint 23, 82 lb uplift at joint 24, 55 lb uplift at joint 18, 57 lb uplift at joint 17, 48 lb uplift at joint 16 and 78 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.

LOAD CASE(S) Standard



September 13,2024



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job Truss Truss Type Qty Ply Roof - BF Lot 440 P250254-01 E2 3 Common Job Reference (optiona

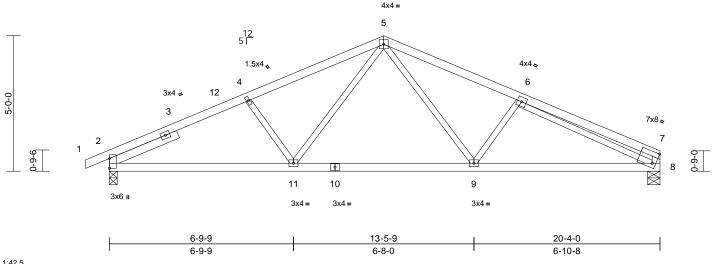
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168187649 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Th i Sep 1214 ID:Hzll5lEyt7QFia695iR4P3zbjFn-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4z





Scale = 1:42.5

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

| 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 | 0.47 | Vert(LL) | -0.07 | 9-11 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.50 | Vert(CT) | -0.14 | 9-11 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.90 | Horz(CT) | 0.04 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | _ | | | | | | Weight: 87 lb | FT = 20% |

LUMBER

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

2x3 SPF No.2 *Except* 8-7:2x4 SP No.2 WEBS

Left 2x4 SP No.2 -- 2-9-0 SLIDER

BRACING

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

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

bracing.

REACTIONS (size) 2=0-3-8, 8=0-5-8

Max Horiz 2=86 (LC 12)

Max Uplift 2=-163 (LC 12), 8=-140 (LC 13) Max Grav 2=971 (LC 1), 8=907 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-8/0, 2-4=-1576/396, 4-5=-1383/382,

5-6=-1400/386, 6-7=-439/123, 7-8=-310/119 BOT CHORD 2-11=-329/1343, 9-11=-177/984,

8-9=-318/1367

WFBS 5-9=-94/452, 6-9=-285/196, 5-11=-91/435,

4-11=-264/191, 6-8=-1149/286

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) -0-9-10 to 4-2-6, Interior (1) 4-2-6 to 10-2-7, Exterior(2R) 10-2-7 to 15-3-8, Interior (1) 15-3-8 to 20-3-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.
- 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



September 13,2024



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

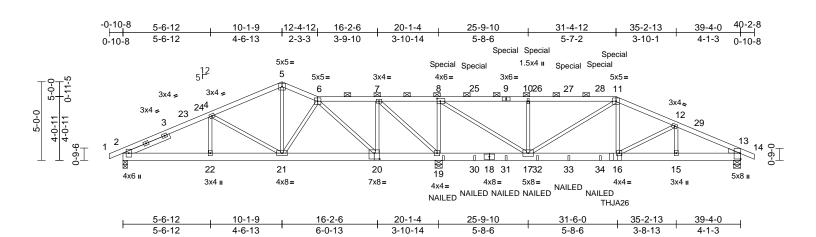


| Job | Truss | Truss Type | Qty | Ply | Roof - BF Lot 440 | Г |
|------------|-------|---------------------|-----|-----|--------------------------|---|
| P250254-01 | F1 | Roof Special Girder | 1 | 2 | Job Reference (optional) | |

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12/13/22/49 ID:PT1gqCO6p63PlabfLxA7RpzbjFa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK\rCDoi7\d2j\s

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168187650 LEE'S SUMMIT. MISSOURI



Scale = 1:73.4

Plate Offsets (X, Y): [2:0-3-1,0-2-7], [8:0-2-8,0-2-0], [13:Edge,0-0-11], [20:0-4-0,0-4-8]

| 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 | 0.65 | Vert(LL) | 0.06 | 16-17 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.55 | Vert(CT) | -0.10 | 16-17 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.60 | Horz(CT) | 0.02 | 13 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 374 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SPF No.2 2x3 SPF No.2 WEBS WEDGE Right: 2x4 SP No.2 **SLIDER** Left 2x4 SP No.2 -- 3-2-4

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 6-11.

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 19-20,17-19.

REACTIONS (size) 2=0-3-8, 13=0-5-8, 19=0-5-8

Max Horiz 2=-88 (LC 34)

Max Uplift 2=-192 (LC 33), 13=-505 (LC 13),

19=-1021 (LC 13)

Max Grav 2=692 (LC 1), 13=1657 (LC 26),

19=3836 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-2/0. 2-4=-998/319. 4-5=-504/279.

5-6=-463/298, 6-7=-269/505, 7-8=-278/1344, 8-10=-1688/642, 10-11=-1689/642,

11-12=-2895/968, 12-13=-2984/930

13-14=0/0

BOT CHORD 2-22=-280/821, 21-22=-280/821,

19-21=-505/392, 17-19=-1344/419,

16-17=-761/2607, 15-16=-765/2571, 13-15=-765/2571

WEBS 11-16=-124/931, 8-19=-2636/975,

7-19=-1255/202, 7-20=-84/643,

6-20=-921/230, 5-21=-111/245, 6-21=-91/424, 4-21=-509/191, 4-22=0/191,

12-16=-254/245, 12-15=0/81,

10-17=-1064/609, 8-17=-1066/3513,

11-17=-1141/352

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: 2x3 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-9-10 to 4-2-6, Interior (1) 4-2-6 to 10-2-7, Exterior(2E) 10-2-7 to 12-5-11, Interior (1) 12-5-11 to 31-5-10, Exterior(2R) 31-5-10 to 36-5-10, Interior (1) 36-5-10 to 40-3-6 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
- 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.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1021 lb uplift at ioint 19
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.

- 10) Two H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13. This connection is for uplift only and does not consider lateral forces.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Right Hand Hip) or equivalent at 31-5-4 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.



September 13,2024

NOTES

Continued on page 2 neters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Qty Roof - BF Lot 440 Job Truss Truss Type Ply 2 P250254-01 F1 Roof Special Girder Job Reference (optional

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

LEE'S SUMMIT. MISSOURI Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. The Sep 1214 2249 ID:PT1gqCO6p63PlabfLxA7RpzbjFa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKtVrCDoi7

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 168187650

16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 256 lb down and 161 lb up at 20-5-11, 252 lb down and 160 lb up at 22-5-11, 252 lb down and 160 lb up at 24-5-11, 252 lb down and 160 lb up at 26-5-11, 252 lb down and 160 lb up at 28-5-11, and 252 lb down and 160 lb up at 30-5-11, and 252 lb down and 160 lb up at 31-5-10 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-5=-70, 5-6=-70, 6-11=-70, 11-14=-70, 2-13=-20

Concentrated Loads (lb) Vert: 9=-202 (F), 16=-732 (F), 8=-206 (F), 19=-59 (F), 11=-202 (F), 25=-202 (F), 26=-202 (F), 27=-202 (F), 28=-202 (F), 30=-59 (F), 31=-59 (F), 32=-59 (F), 33=-59 (F), 34=-59 (F)



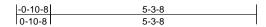
Ply Job Truss Truss Type Qty Roof - BF Lot 440 P250254-01 G1 Monopitch Supported Gable

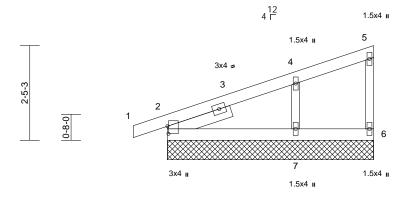
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

DEVELOPMENT SERVICES 168187651 LEE'S SUMMIT. MISSOURI Job Reference (optional Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Th ı Sep 12<mark>14</mark>

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

ID:lunilH2weCPWn7u49L9KmhzbjG1-RfC?PsB70Hq3NSgPqnL8w3uITXbGK





Scale = 1:29.6

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

| 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 | 0.22 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.08 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.10 | Horz(CT) | 0.00 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 23 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x3 SPF No.2 WEBS OTHERS 2x3 SPF No 2

SLIDER Left 2x4 SP No.2 -- 1-8-7

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-3-8 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 2=5-3-8, 6=5-3-8, 7=5-3-8

Max Horiz 2=98 (LC 11)

Max Uplift 2=-56 (LC 8), 6=-9 (LC 9), 7=-85 (LC 12)

Max Grav

2=194 (LC 1), 6=45 (LC 1), 7=288

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-5/0, 2-4=-196/104, 4-5=-54/53,

5-6=-37/59

BOT CHORD 2-7=-43/58 6-7=-43/58

WFBS 4-7=-219/389

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(3E) -0-10-8 to 4-1-8, Exterior(2N) 4-1-8 to 5-2-4 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
- 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.
- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 6, 56 lb uplift at joint 2 and 85 lb uplift at joint 7.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 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



September 13,2024



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Ply Job Truss Truss Type Qty Roof - BF Lot 440 P250254-01 G2 6 Monopitch Job Reference (optional

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

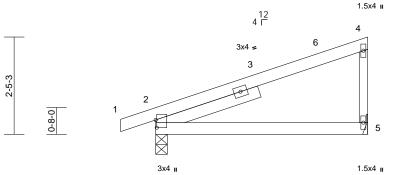
LEE'S SUMMIT. MISSOURI Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 14 2249 ID:Lad?h4DiLWAXSGynzHPcKezbjFp-RfC?PsB70Hq3NSgPqnL8w3uITXbG (WrCDoi 14236 ff

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 168187652

-0-10-8 5-3-8 5-3-8





5-3-8

Scale = 1:28.8

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

| 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 | 0.67 | Vert(LL) | -0.04 | 2-5 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.34 | Vert(CT) | -0.09 | 2-5 | >717 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 23 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x3 SPF No.2 WEBS

SLIDER Left 2x4 SP No.2 -- 2-8-6

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-3-8 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-3-8, 5= Mechanical

Max Horiz 2=98 (LC 9)

Max Uplift 2=-86 (LC 8), 5=-59 (LC 12) Max Grav 2=300 (LC 1), 5=228 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-5/0, 2-4=-133/78, 4-5=-176/267

BOT CHORD 2-5=-43/47

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) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-2-4 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 5.

- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



September 13,2024



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Truss Type Job Truss Qty Ply Roof - BF Lot 440 P250254-01 G3 6 Monopitch Job Reference (optional

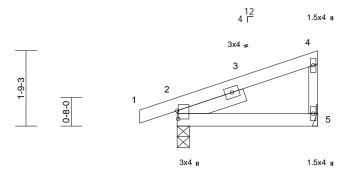
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168187653 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. The Sep 12/14/22/49 ID:Hzll5lEyt7QFia695iR4P3zbjFn-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrqDoi7J4z3e?

| -0-10-8 | 3-3-8 |
|---------|-------|
| 0-10-8 | 3-3-8 |



3-3-8

Scale = 1:27

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

| 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 | 0.23 | Vert(LL) | -0.01 | 2-5 | >999 | 240 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.12 | Vert(CT) | -0.01 | 2-5 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 15 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x3 SPF No.2 WEBS

Left 2x4 SP No.2 -- 1-7-12 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-3-8 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-3-8, 5= Mechanical

Max Horiz 2=66 (LC 9)

Max Uplift 2=-71 (LC 8), 5=-35 (LC 12) Max Grav 2=213 (LC 1), 5=135 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

1-2=-5/0, 2-4=-85/52, 4-5=-103/166

TOP CHORD

BOT CHORD 2-5=-29/32

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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 5.

- 6) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



September 13,2024



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



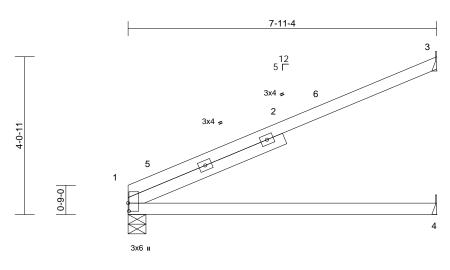
Truss Type Job Truss Qty Ply Roof - BF Lot 440 P250254-01 J1 Jack-Open

DEVELOPMENT SERVICES 168187654 LEE'S SUMMIT. MISSOURI Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 14 ID:?uMXCAMDWChqu6t4godQpAzbjFd-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDbi7J4x

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



7-11-4

Scale = 1:29.6

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

| 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 | 0.71 | Vert(LL) | -0.23 | 1-4 | >410 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.83 | Vert(CT) | -0.46 | 1-4 | >205 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.04 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 31 lb | FT = 20% |

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 4-4-4

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 9-2-10 oc

bracing.

REACTIONS (size) 1=0-5-8, 3= Mechanical, 4=

Mechanical 1=163 (LC 12)

Max Horiz Max Uplift 1=-39 (LC 12), 3=-163 (LC 12) 1=354 (LC 1), 3=276 (LC 1), 4=158 Max Grav

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-3=-143/84 BOT CHORD 1-4=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 7-10-8 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 1 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 163 lb uplift at joint 3.

- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.
- 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









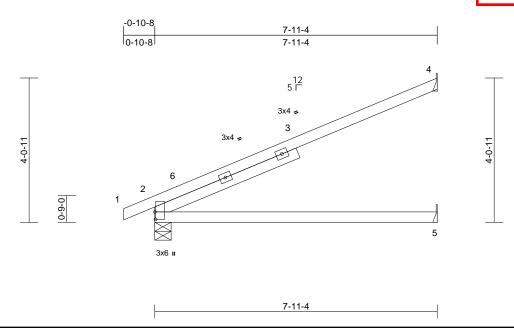
Truss Type Ply Job Truss Qty Roof - BF Lot 440 P250254-01 J2 Jack-Open 6 Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168187655 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Th ı Sep 12**14 23:4**9 ID:tO3dTkC3aC2gr7NaPZuNnRzbjFq-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoi794z3e?



Scale = 1:32.4

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

| 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) | -0.23 | 2-5 | >410 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.83 | Vert(CT) | -0.46 | 2-5 | >205 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.06 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 33 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP 1650F 1.5E BOT CHORD 2x4 SP No.2

Left 2x4 SP No.2 -- 4-4-4 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied. Rigid ceiling directly applied or 9-2-10 oc **BOT CHORD**

bracing.

REACTIONS (size) 2=0-5-8, 4= Mechanical, 5=

Mechanical Max Horiz 2=160 (LC 12)

Max Uplift 2=-62 (LC 12), 4=-162 (LC 12) Max Grav 2=419 (LC 1), 4=272 (LC 1), 5=158

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-6/0, 2-4=-142/83

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) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 7-10-8 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 2 SP No.2 crushing capacity of 565 psi.
- 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 ioint 4.

- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





Truss Type Job Truss Qty Ply Roof - BF Lot 440 P250254-01 J3 Jack-Open 2

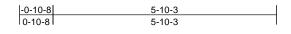
Job Reference (optional

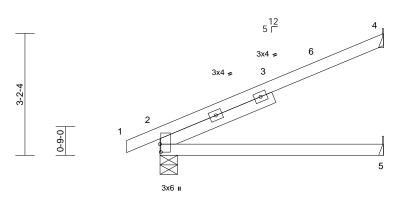
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168187656 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 1214 2249 ID:tO3dTkC3aC2gr7NaPZuNnRzbjFq-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoi794z3e?





5-10-3

Scale = 1:30.2

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

| 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 | 0.76 | Vert(LL) | -0.07 | 2-5 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.43 | Vert(CT) | -0.13 | 2-5 | >516 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.02 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 24 lb | FT = 20% |

LUMBER

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

Left 2x4 SP No.2 -- 3-2-11 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-10-3 oc purlins.

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

bracing.

REACTIONS (size) 2=0-5-8, 4= Mechanical, 5=

Mechanical Max Horiz 2=122 (LC 12)

Max Uplift 2=-50 (LC 12), 4=-121 (LC 12) Max Grav 2=326 (LC 1), 4=198 (LC 1), 5=116

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-6/0, 2-4=-116/60

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) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-9-7 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 2 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 4.

- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



September 13,2024



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Truss Type Job Truss Qty Ply Roof - BF Lot 440 P250254-01 J4 Jack-Open 2

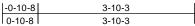
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

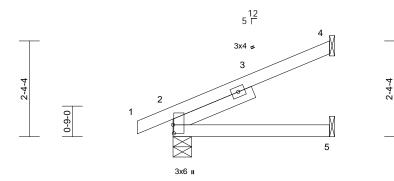
DEVELOPMENT SERVICES 168187657 LEE'S SUMMIT. MISSOURI Job Reference (optional Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 14 22:49

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

3-10-3

ID:Lad?h4DiLWAXSGynzHPcKezbjFp-RfC?PsB70Hq3NSgPqnL8w3ulTXbG (WrCDoi V42) 21





3-10-3

Scale = 1:28.3

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

| 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 | 0.29 | Vert(LL) | -0.01 | 2-5 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.17 | Vert(CT) | -0.02 | 2-5 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.01 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 17 lb | FT = 20% |

LUMBER

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

Left 2x4 SP No.2 -- 2-1-11 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-10-3 oc purlins.

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

bracing.

REACTIONS (size) 2=0-5-8, 4= Mechanical, 5=

Mechanical Max Horiz 2=85 (LC 12)

Max Uplift 2=-38 (LC 12), 4=-81 (LC 12)

Max Grav 2=239 (LC 1), 4=125 (LC 1), 5=76

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-6/0, 2-4=-83/40

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 DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 2 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 4.

- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



September 13,2024



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Truss Type Job Truss Qty Ply Roof - BF Lot 440 P250254-01 J5 Jack-Open 2 Job Reference (optional

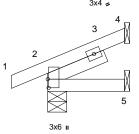
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168187658 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 1214 2250 ID:Lad?h4DiLWAXSGynzHPcKezbjFp-RfC?PsB70Hq3NSgPqnL8w3ulTXbG (WrCDoi V42) 21

| I | -0-10-8 | 1-10-3 |
|---|---------|--------|
| | 0-10-8 | 1-10-3 |





1-10-3

Scale = 1:27.7

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

| 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 | 0.06 | Vert(LL) | 0.00 | 2-5 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.04 | Vert(CT) | 0.00 | 2-5 | >999 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 10 lb | FT = 20% |

LUMBER

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

Left 2x4 SP No.2 -- 1-6-0 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied or

1-10-3 oc purlins.

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

bracing.

REACTIONS (size) 2=0-5-8, 4= Mechanical, 5= Mechanical

Max Horiz 2=50 (LC 12)

Max Uplift 2=-31 (LC 8), 4=-41 (LC 12) Max Grav 2=158 (LC 1), 4=50 (LC 1), 5=37

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-6/0, 2-4=-51/21

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 DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 2 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 4.

- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



September 13,2024



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

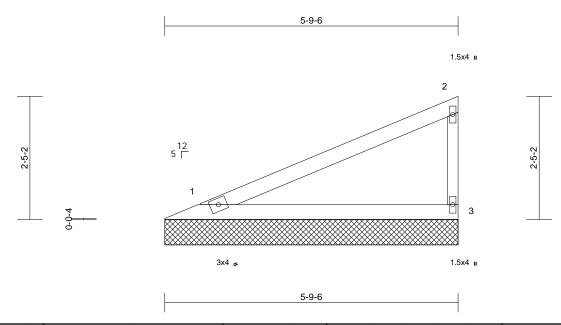


Ply Job Truss Truss Type Qty Roof - BF Lot 440 P250254-01 V1 Valley Job Reference (optional S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168187659 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 1214 250 ID:Ak_Gx7HSxMwhABPwKYW0avzbjFj-RfC?PsB70Hq3NSgPqnL8w3uITXb(KWrCDoi7J4zJC?f



Scale = 1:22.7

| 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 | 0.57 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.31 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.00 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 18 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-9-15 oc purlins, except end verticals. BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=5-9-6, 3=5-9-6

Max Horiz 1=97 (LC 9)

Max Uplift 1=-39 (LC 12), 3=-59 (LC 12) Max Grav 1=224 (LC 1), 3=224 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=-125/85, 2-3=-174/200

TOP CHORD BOT CHORD 1-3=-43/47

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) 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.
- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 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



September 13,2024







Ply Job Truss Truss Type Qty Roof - BF Lot 440 P250254-01 V2 Valley

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168187660 LEE'S SUMMIT. MISSOURI Job Reference (optional

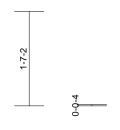
RELEASE FOR CONSTRUCTION

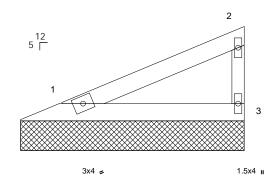
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

ID:Ak_Gx7HSxMwhABPwKYW0avzbjFj-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDorJ4zdC?f



1.5x4 II







3-9-6

Scale = 1:19.5

| 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 | 0.19 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.10 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.00 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 11 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-9-15 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=3-9-6, 3=3-9-6

Max Horiz 1=58 (LC 9)

Max Uplift 1=-23 (LC 12), 3=-35 (LC 12) Max Grav 1=134 (LC 1), 3=134 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-76/52, 2-3=-104/123

BOT CHORD 1-3=-26/28

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) 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.
- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 1 and 35 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



September 13,2024



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Truss Type Job Truss Qty Ply Roof - BF Lot 440 Valley P250254-01 V3

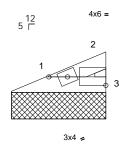
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

LEE'S SUMMIT. MISSOURI Job Reference (optional Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 14 2250 1 ID:Ak_Gx7HSxMwhABPwKYW0avzbjFj-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDorJ4zdC?f

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 168187661

| 0-8-6 | 1-9-6 |
|-------|-------|
| 0-8-6 | 1-1-0 |



| 1-9-6 | |
|-------|--|
| | |

Scale = 1:21.7

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

| 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 | 0.02 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.01 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.00 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 5 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-9-15 oc purlins, except end verticals.

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

bracing.

REACTIONS 1=1-9-6, 3=1-9-6 (size)

Max Horiz 1=19 (LC 9)

Max Uplift 1=-8 (LC 12), 3=-12 (LC 12) Max Grav 1=44 (LC 1), 3=44 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-25/17, 2-3=-34/40 BOT CHORD 1-3=-9/9

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.
- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

- 7) 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

OF MISS SCOTT M. SEVIER NUMBER PE-2001018807 SSIONAL



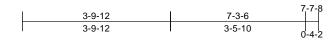


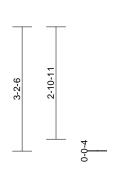
Ply Job Truss Truss Type Qty Roof - BF Lot 440 P250254-01 V4 Valley Job Reference (optional

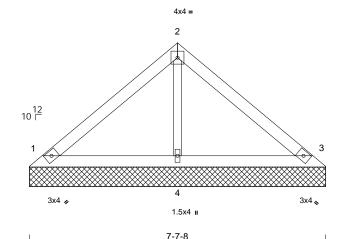
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168187662 LEE'S SUMMIT. MISSOURI

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 1214 2250 ID:Ak_Gx7HSxMwhABPwKYW0avzbjFj-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDorJ4zdC?f







Scale = 1:29.6

| 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 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.12 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.04 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 27 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x3 SPF No.2 **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=7-7-8, 3=7-7-8, 4=7-7-8

Max Horiz 1=-80 (LC 8)

Max Uplift 1=-44 (LC 12), 3=-54 (LC 13) Max Grav 1=186 (LC 1), 3=186 (LC 1), 4=246

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-132/76, 2-3=-125/83

BOT CHORD 1-4=-19/63, 3-4=-19/63 WFBS 2-4=-160/87

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
- 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.
- 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 6) chord live load nonconcurrent with any other live loads.

- 7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 1 and 54 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



September 13,2024



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Ply Truss Type Job Truss Qty Roof - BF Lot 440 P250254-01 V5 Valley Job Reference (optional

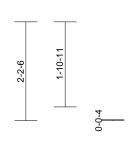
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

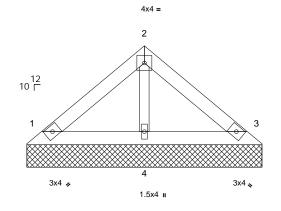
LEE'S SUMMIT. MISSOURI Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 1214 2250 1 ID:Ak_Gx7HSxMwhABPwKYW0avzbjFj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoirJ4zd?f

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 168187663







5-2-11

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 | 0.13 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.02 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 18 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x3 SPF No.2 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-3-4 oc purlins.

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

bracing.

REACTIONS (size) 1=5-2-11, 3=5-2-11, 4=5-2-11

Max Horiz 1=-52 (LC 8)

Max Uplift 1=-29 (LC 12), 3=-35 (LC 13) Max Grav 1=121 (LC 1), 3=121 (LC 1), 4=160

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-86/57, 2-3=-81/62 **BOT CHORD** 1-4=-12/41, 3-4=-12/41

WFBS 2-4=-104/67

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.
- 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 6) chord live load nonconcurrent with any other live loads.

- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 1 and 35 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







Truss Type Job Truss Qty Ply Roof - BF Lot 440 P250254-01 V6 Valley Job Reference (optional

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

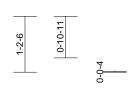
Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. The Sep 12 13 12-50 1 ID:Ak_Gx7HSxMwhABPwKYW0avzbjFj-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDorJ4zdC?f

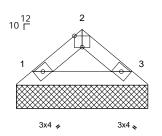
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 168187664

LEE'S SUMMIT. MISSOURI







2-9-14

Scale = 1:24.7

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 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.00 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 8 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-10-8 oc purlins.

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

bracing.

REACTIONS (size) 1=2-9-14, 3=2-9-14

Max Horiz 1=24 (LC 11)

Max Uplift 1=-12 (LC 12), 3=-12 (LC 13) Max Grav 1=93 (LC 1), 3=93 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-75/56, 2-3=-75/60

BOT CHORD 1-3=-11/45

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
- 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.
- 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.
- 7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

- 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.
- 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



September 13,2024



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

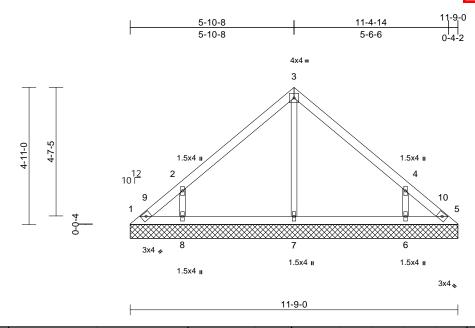


Job Truss Truss Type Qty Ply Roof - BF Lot 440 P250254-01 V7 Valley Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168187665 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 1214 250 ID:Ak_Gx7HSxMwhABPwKYW0avzbjFj-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDorJ4zdC?f



Scale = 1:41.3

| 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 | 0.21 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.12 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.09 | Horiz(TL) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 44 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x3 SPF No.2 **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=11-9-0, 5=11-9-0, 6=11-9-0,

7=11-9-0, 8=11-9-0 Max Horiz 1=128 (LC 9)

Max Uplift 1=-59 (LC 10), 5=-37 (LC 11),

6=-195 (LC 13), 8=-195 (LC 12)

1=95 (LC 12), 5=80 (LC 13), 6=359 (LC 20), 7=257 (LC 1), 8=359 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-143/109, 2-3=-172/125, 3-4=-167/118,

4-5=-120/74 **BOT CHORD**

1-8=-37/91, 7-8=-37/91, 6-7=-37/91,

5-6=-37/91

WEBS 3-7=-171/17, 2-8=-299/292, 4-6=-299/292

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) 0-4-13 to 5-4-13. Interior (1) 5-4-13 to 5-10-13, Exterior(2R) 5-10-13 to 10-10-13, Interior (1) 10-10-13 to 11-4-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) 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.
- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 1, 37 lb uplift at joint 5, 195 lb uplift at joint 8 and 195 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







Ply Job Truss Truss Type Qty Roof - BF Lot 440 P250254-01 V8 Valley Job Reference (optional

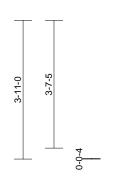
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168187666 LEE'S SUMMIT. MISSOURI

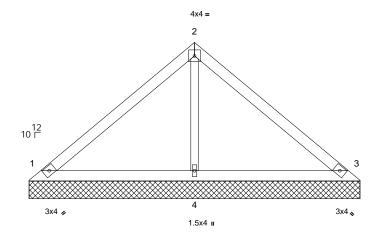
RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12/14/250/1 ID:Ak_Gx7HSxMwhABPwKYW0avzbjFj-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDorJ4zdC?f







9-4-3

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 | 0.30 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.19 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.07 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 33 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x3 SPF No.2 **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=9-4-3, 3=9-4-3, 4=9-4-3

1=-100 (LC 8) Max Horiz

Max Uplift 1=-42 (LC 12), 3=-54 (LC 13),

4=-16 (LC 12)

1=216 (LC 1), 3=216 (LC 1), 4=342 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-180/90, 2-3=-177/99

BOT CHORD 1-4=-23/85, 3-4=-23/85

2-4=-210/104 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
- 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.
- Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 1, 54 lb uplift at joint 3 and 16 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



September 13,2024



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Truss Type Job Truss Qty Ply Roof - BF Lot 440 P250254-01 V9 Valley

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

LEE'S SUMMIT. MISSOURI Job Reference (optional Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12/14/250/1 ID:Ak_Gx7HSxMwhABPwKYW0avzbjFj-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDorJ4zdC?f

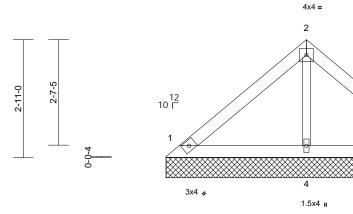
3x4 💊

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 168187667



6-11-6



Scale = 1:28.5

| 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 | 0.23 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.10 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.03 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 24 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x3 SPF No.2 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=6-11-6, 3=6-11-6, 4=6-11-6

Max Horiz 1=72 (LC 9)

Max Uplift 1=-40 (LC 12), 3=-48 (LC 13) Max Grav 1=168 (LC 1), 3=168 (LC 1), 4=221

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-119/72, 2-3=-112/78 **BOT CHORD** 1-4=-17/57, 3-4=-17/57

WFBS 2-4=-144/83

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

- 7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 1 and 48 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





Truss Type Job Truss Qty Ply Roof - BF Lot 440 P250254-01 V10 Valley Job Reference (optional

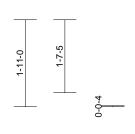
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

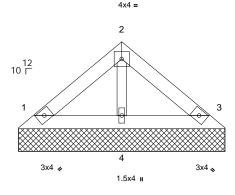
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168187668 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 14 2250 1 ID:Ak_Gx7HSxMwhABPwKYW0avzbjFj-RfC?PsB70Hq3NSgPqnL8w3uITXb0 KWrCDoi7J4zJC?f

| | | 4-6-10 |
|-------|--------|--------|
| 2-3-5 | 4-2-8 | |
| 2-3-5 | 1-11-3 | 0-4-2 |





4-6-10

Scale = 1:25.4

| 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 | 0.09 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.04 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.02 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 15 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x3 SPF No.2 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-7-3 oc purlins.

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

bracing.

REACTIONS (size) 1=4-6-10, 3=4-6-10, 4=4-6-10

Max Horiz 1=-44 (LC 8)

Max Uplift 1=-24 (LC 12), 3=-30 (LC 13) Max Grav 1=103 (LC 1), 3=103 (LC 1), 4=136

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-73/49, 2-3=-69/54

BOT CHORD 1-4=-10/35, 3-4=-10/35

WFBS 2-4=-88/59

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
- 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.
- 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 6) chord live load nonconcurrent with any other live loads.

- 7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 1 and 30 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



September 13,2024



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



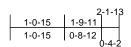
Truss Type Job Truss Qty Ply Roof - BF Lot 440 P250254-01 V11 Valley

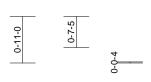
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

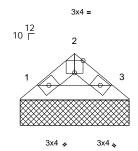
LEE'S SUMMIT. MISSOURI Job Reference (optional Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. The Sep 12 13 12-51 ID: Ak. Gx7HSxMwhARPwkYVW0avzhiFi-Rfc?PSR70Hg3NSqPgnl 8w3uITXh6kWyCDox 13-467f ID:Ak_Gx7HSxMwhABPwKYW0avzbjFj-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDorJ4zdC?f

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 168187669







Scale = 1:22.7

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 | 0.02 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.02 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.00 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 6 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-7 oc purlins.

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

bracing.

REACTIONS (size) 1=2-1-13, 3=2-1-13

Max Horiz 1=16 (LC 11)

Max Uplift 1=-8 (LC 12), 3=-8 (LC 13) Max Grav 1=63 (LC 1), 3=63 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-51/40, 2-3=-51/42

BOT CHORD 1-3=-7/30

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
- 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.
- 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.
- 7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 1 and 8 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





RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMICH, MISSOURI Offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.

*Plate location details available in MiTek software or upon request.

connector plates.

This symbol indicates the required direction of slots in ₹

edge of truss.

For 4 x 2 orientation, locate plates 0- "46" from outside

PLATE SIZE

4 × 4

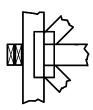
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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/letter where bearings occur Min size shown is for crushing only.

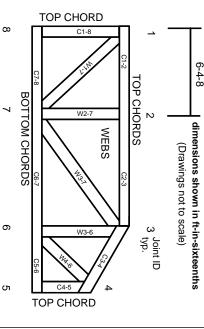
Industry Standards:

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, Restraining & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-22:

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-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

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. 1/2/2023

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.
- 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.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 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.
- The design does not take into account any dynamic or other loads other than those expressly stated.