

RE: 240614

Lot 123 MN

MiTek, Inc.

16023 Swingley Ridge Rd. Chesterfield, MO 63017

314.434.1200

Site Information:

Customer: Avital Homes Project Name: 240614

Lot/Block: Model: Crestwood - Craftsman FH 3rd Car

Address: Subdivision: City: State:

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

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.7

Wind Code: ASCE 7 - 16[Low Rise] Wind Speed: 115 mph Roof Load: 45.0 psf Floor Load: N/A psf

This package includes 48 individual, dated Truss Design Drawings and 0 Additional Drawings.

| No. | Seal# | Truss Name | Date | No. | Seal# | Truss Name | Date |
|-----|-----------|------------|-----------|-----|-----------|------------|-----------|
| 1 | 164131335 | A1 | 3/11/2024 | 21 | I64131355 | D11 | 3/11/2024 |
| 2 | 164131336 | A2A | 3/11/2024 | 22 | I64131356 | G1 | 3/11/2024 |
| 3 | 164131337 | A3A | 3/11/2024 | 23 | 164131357 | G2 | 3/11/2024 |
| 4 | 164131338 | A4A | 3/11/2024 | 24 | 164131358 | G3 | 3/11/2024 |
| 5 | 164131339 | A5A | 3/11/2024 | 25 | 164131359 | G4 | 3/11/2024 |
| 6 | 164131340 | B1 | 3/11/2024 | 26 | 164131360 | J1 | 3/11/2024 |
| 7 | 164131341 | B2 | 3/11/2024 | 27 | 164131361 | J2 | 3/11/2024 |
| 8 | 164131342 | C1 | 3/11/2024 | 28 | 164131362 | J3 | 3/11/2024 |
| 9 | 164131343 | C2 | 3/11/2024 | 29 | I64131363 | J4 | 3/11/2024 |
| 10 | 164131344 | C3 | 3/11/2024 | 30 | l64131364 | J5 | 3/11/2024 |
| 11 | 164131345 | D1 | 3/11/2024 | 31 | I64131365 | J6 | 3/11/2024 |
| 12 | 164131346 | D2 | 3/11/2024 | 32 | 164131366 | J7 | 3/11/2024 |
| 13 | 164131347 | D3 | 3/11/2024 | 33 | 164131367 | J8 | 3/11/2024 |
| 14 | 164131348 | D4 | 3/11/2024 | 34 | 164131368 | J9 | 3/11/2024 |
| 15 | 164131349 | D5 | 3/11/2024 | 35 | I64131369 | J10 | 3/11/2024 |
| 16 | 164131350 | D6 | 3/11/2024 | 36 | I64131370 | J11 | 3/11/2024 |
| 17 | l64131351 | D7 | 3/11/2024 | 37 | l64131371 | LAY1 | 3/11/2024 |
| 18 | 164131352 | D8 | 3/11/2024 | 38 | 164131372 | LAY2 | 3/11/2024 |
| 19 | 164131353 | D9 | 3/11/2024 | 39 | 164131373 | LAY4 | 3/11/2024 |
| 20 | 164131354 | D10 | 3/11/2024 | 40 | 164131374 | V1 | 3/11/2024 |

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

MiTek USA, Inc under my direct supervision

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

My license renewal date for the state of Kansas is April 30, 2024.

Kansas COA: E-943

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.





RE: 240614 - Lot 123 MN

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

Site Information:

Project Customer: Avital Homes Project Name: 240614

Lot/Block: Subdivision:

Address:

City, County: State:

| No. | Seal# | Truss Name | Date |
|-----|-----------|------------|-----------|
| 41 | 164131375 | V2 | 3/11/2024 |
| 42 | 164131376 | V3 | 3/11/2024 |
| 43 | 164131377 | V4 | 3/11/2024 |
| 44 | 164131378 | V5 | 3/11/2024 |
| 45 | 164131379 | V6 | 3/11/2024 |
| 46 | 164131380 | V10 | 3/11/2024 |
| 47 | 164131381 | V11 | 3/11/2024 |
| 48 | 164131382 | V12 | 3/11/2024 |



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Site Information:

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Lot/Block: Model: Crestwood - Craftsman FH 3rd Car

Address: Subdivision: City: State:

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

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.7

Wind Code: ASCE 7 - 16[Low Rise] Wind Speed: 115 mph Roof Load: 45.0 psf Floor Load: N/A psf

This package includes 48 individual, dated Truss Design Drawings and 0 Additional Drawings.

| No. | Seal# | Truss Name | Date | No. | Seal# | Truss Name | Date |
|-----|-----------|------------|-----------|-----|-----------|------------|-----------|
| 1 | 164131335 | A1 | 3/11/2024 | 21 | 164131355 | D11 | 3/11/2024 |
| 2 | 164131336 | A2A | 3/11/2024 | 22 | 164131356 | G1 | 3/11/2024 |
| 3 | 164131337 | A3A | 3/11/2024 | 23 | 164131357 | G2 | 3/11/2024 |
| 4 | 164131338 | A4A | 3/11/2024 | 24 | 164131358 | G3 | 3/11/2024 |
| 5 | 164131339 | A5A | 3/11/2024 | 25 | 164131359 | G4 | 3/11/2024 |
| 6 | 164131340 | B1 | 3/11/2024 | 26 | 164131360 | J1 | 3/11/2024 |
| 7 | 164131341 | B2 | 3/11/2024 | 27 | 164131361 | J2 | 3/11/2024 |
| 8 | 164131342 | C1 | 3/11/2024 | 28 | 164131362 | J3 | 3/11/2024 |
| 9 | 164131343 | C2 | 3/11/2024 | 29 | 164131363 | J4 | 3/11/2024 |
| 10 | 164131344 | C3 | 3/11/2024 | 30 | 164131364 | J5 | 3/11/2024 |
| 11 | 164131345 | D1 | 3/11/2024 | 31 | 164131365 | J6 | 3/11/2024 |
| 12 | 164131346 | D2 | 3/11/2024 | 32 | 164131366 | J7 | 3/11/2024 |
| 13 | 164131347 | D3 | 3/11/2024 | 33 | 164131367 | J8 | 3/11/2024 |
| 14 | 164131348 | D4 | 3/11/2024 | 34 | 164131368 | J9 | 3/11/2024 |
| 15 | 164131349 | D5 | 3/11/2024 | 35 | 164131369 | J10 | 3/11/2024 |
| 16 | 164131350 | D6 | 3/11/2024 | 36 | 164131370 | J11 | 3/11/2024 |
| 17 | 164131351 | D7 | 3/11/2024 | 37 | 164131371 | LAY1 | 3/11/2024 |
| 18 | 164131352 | D8 | 3/11/2024 | 38 | 164131372 | LAY2 | 3/11/2024 |
| 19 | 164131353 | D9 | 3/11/2024 | 39 | 164131373 | LAY4 | 3/11/2024 |
| 20 | 164131354 | D10 | 3/11/2024 | 40 | 164131374 | V1 | 3/11/2024 |

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

MiTek USA, Inc under my direct supervision

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

My license renewal date for the state of Missouri is December 31, 2024.

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.





RE: 240614 - Lot 123 MN

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

Site Information:

Project Customer: Avital Homes Project Name: 240614

Lot/Block: Subdivision:

Address:

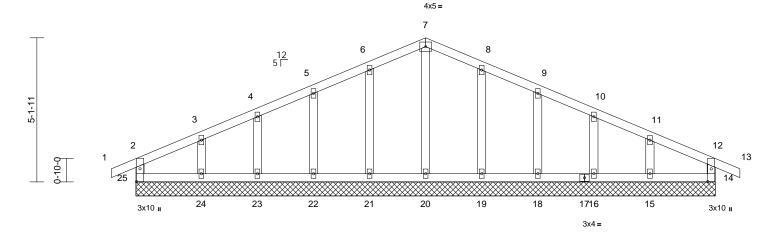
City, County: State:

| No. | Seal# | Truss Name | Date |
|-----|-----------|------------|-----------|
| 41 | 164131375 | V2 | 3/11/2024 |
| 42 | 164131376 | V3 | 3/11/2024 |
| 43 | 164131377 | V4 | 3/11/2024 |
| 44 | 164131378 | V5 | 3/11/2024 |
| 45 | 164131379 | V6 | 3/11/2024 |
| 46 | 164131380 | V10 | 3/11/2024 |
| 47 | 164131381 | V11 | 3/11/2024 |
| 48 | 164131382 | V12 | 3/11/2024 |

| Job | Truss | Truss Type | Qty | Ply | Lot 123 MN | |
|--------|-------|------------------------|-----|-----|--------------------------|-----------|
| 240614 | A1 | Common Supported Gable | 1 | 1 | Job Reference (optional) | 164131335 |

Run: 8 73 S. Feb 22 2024 Print: 8 730 S. Feb 22 2024 MiTek Industries. Inc. Fri Mar 08 12:19:02 ID:ZcSazAzajpxqtrOj2YFrKozitPF-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:41.1

Plate Offsets (X, Y): [14:0-5-8,0-1-8], [25:0-5-8,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.07 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.03 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.05 | Horz(CT) | 0.00 | 14 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | | | | | | Weight: 80 lb | FT = 10% |

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 WEBS 2x4 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) 14=20-8-0, 15=20-8-0, 16=20-8-0, 18=20-8-0, 19=20-8-0, 20=20-8-0, 21=20-8-0, 22=20-8-0, 23=20-8-0,

24=20-8-0, 25=20-8-0

Max Horiz 25=62 (LC 12)

Max Uplift 14=-35 (LC 5), 15=-70 (LC 9), 16=-42 (LC 9), 18=-50 (LC 9), 19=-50 (LC 9), 21=-50 (LC 8),

22=-50 (LC 8), 23=-40 (LC 8), 24=-75 (LC 8), 25=-36 (LC 4)

Max Grav 14=174 (LC 22), 15=187 (LC 1), 16=178 (LC 22), 18=179 (LC 1), 19=191 (LC 22), 20=164 (LC 1), 21=191 (LC 21), 22=179 (LC 1),

23=178 (LC 21), 24=187 (LC 1), 25=174 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-25=-154/49, 1-2=0/27, 2-3=-64/53, 3-4=-37/72, 4-5=-30/93, 5-6=-30/115, 6-7=-34/134, 7-8=-34/128, 8-9=-30/102

9-10=-30/80, 10-11=-31/59, 11-12=-53/43, 12-13=0/27, 12-14=-154/49

BOT CHORD 24-25=-10/50, 23-24=-10/50, 22-23=-10/50,

21-22=-10/50, 20-21=-10/50, 19-20=-10/50, 18-19=-10/50, 16-18=-10/50, 15-16=-10/50,

14-15=-10/50

WEBS

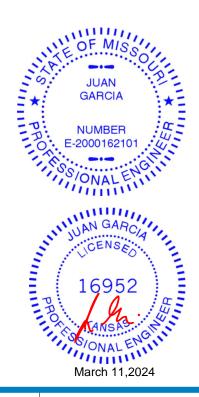
7-20=-124/0, 6-21=-151/74, 5-22=-138/73, 4-23=-140/66, 3-24=-143/91, 8-19=-151/74 9-18=-138/73, 10-16=-140/67, 11-15=-143/88

20-8-0

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 2x4 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SPF No.2.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 25, 35 lb uplift at joint 14, 50 lb uplift at joint 21, 50 lb uplift at joint 22, 40 lb uplift at joint 23, 75 lb uplift at joint $24,\,50$ lb uplift at joint 19, 50 lb uplift at joint 18, 42 lb uplift at joint 16 and 70 lb uplift at joint 15.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Page: 1

TOP CHORD

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 | Lot 123 MN | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 240614 | A2A | Common | 1 | 1 | Job Reference (optional) | l64131336 |

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 08 12:19:03

Page: 1

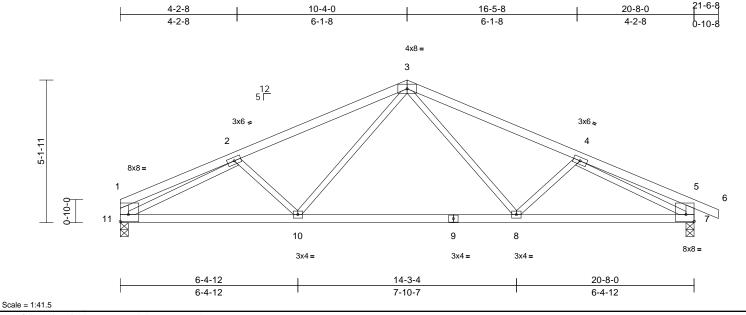


Plate Offsets (X, Y): [1:Edge,0-3-0], [7:Edge,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | csı | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.56 | Vert(LL) | -0.09 | 8-10 | >999 | | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.48 | Vert(CT) | -0.20 | 8-10 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.72 | Horz(CT) | 0.04 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | Wind(LL) | 0.05 | 8-10 | >999 | 240 | Weight: 73 lb | FT = 10% |

LUMBER

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

2x3 SPF No.2 *Except* 11-1,7-5:2x4 SPF WEBS

BRACING TOP CHORD

Structural wood sheathing directly applied or 3-9-14 oc purlins, except end verticals.

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

bracing

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

Max Horiz 11=-70 (LC 9)

Max Uplift 7=-140 (LC 9), 11=-117 (LC 8) Max Grav 7=990 (LC 1), 11=915 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-251/33, 2-3=-1406/191, 3-4=-1400/189,

4-5=-271/40, 5-6=0/27, 1-11=-188/44,

5-7=-279/73

BOT CHORD 10-11=-233/1375, 8-10=-62/976,

7-8=-168/1361 WFBS

3-8=-51/417, 4-8=-256/190, 3-10=-52/426,

2-10=-266/192. 2-11=-1358/207.

4-7=-1326/197

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- All bearings are assumed to be SPF No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 117 lb uplift at joint 11 and 140 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





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| Job | Truss | Truss Type | Qty | Ply | Lot 123 MN | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 240614 | A3A | Common | 3 | 1 | Job Reference (optional) | I64131337 |

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 08 12:19:03 ID:K8xcev3brGxir40GWEPjfUzitP7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

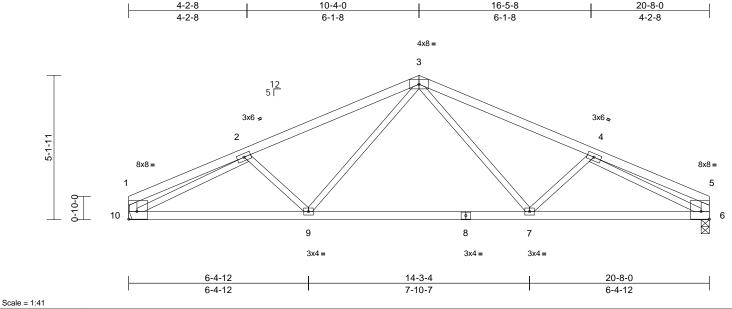


Plate Offsets (X, Y): [1:Edge,0-3-4], [5:Edge,0-3-4]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.54 | Vert(LL) | -0.09 | 7-9 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.49 | Vert(CT) | -0.20 | 7-9 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.73 | Horz(CT) | 0.04 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | Wind(LL) | 0.05 | 7-9 | >999 | 240 | Weight: 72 lb | FT = 10% |

LUMBER

BRACING

WEBS

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

2x3 SPF No.2 *Except* 10-1,6-5:2x4 SPF

TOP CHORD

Structural wood sheathing directly applied or 3-10-11 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD

bracing

REACTIONS (size) 6=0-3-8, 10= Mechanical

Max Horiz 10=55 (LC 12)

Max Uplift 6=-117 (LC 9), 10=-117 (LC 8) Max Grav 6=917 (LC 1), 10=917 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-251/33, 2-3=-1410/191, 3-4=-1410/191, 4-5=-251/33, 1-10=-188/44, 5-6=-188/44

9-10=-240/1378, 7-9=-69/980, 6-7=-186/1378 BOT CHORD **WEBS** 3-7=-53/426, 4-7=-266/193, 3-9=-53/426,

2-9=-266/192, 2-10=-1361/207,

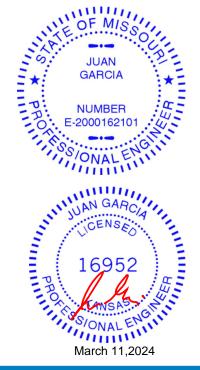
4-6=-1361/207

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 117 lb uplift at joint 10 and 117 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





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 | Lot 123 MN | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 240614 | A4A | Common | 1 | 1 | Job Reference (optional) | I64131338 |

10-4-0

Wheeler Lumber, Waverly, KS - 66871,

4-2-8

Run: 8.73 S. Feb 22 2024 Print: 8.730 S. Feb 22 2024 MiTek Industries. Inc. Fri Mar 08 12:19:03 ID:ljdkHw5U7BJHiXkrBMyQG6zitP4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

16-5-8

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20-4-0

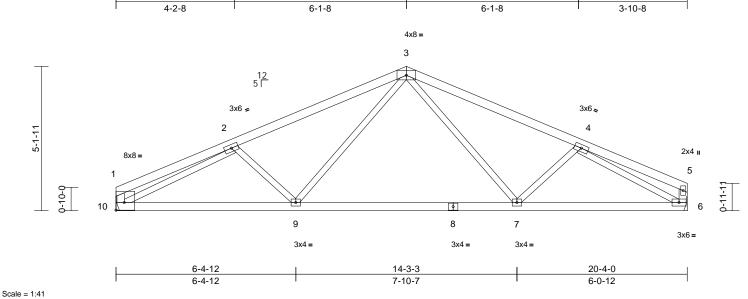


Plate Offsets (X, Y): [1:Edge,0-3-4]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.53 | Vert(LL) | -0.09 | 7-9 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.48 | Vert(CT) | -0.20 | 7-9 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.71 | Horz(CT) | 0.04 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | Wind(LL) | 0.04 | 7-9 | >999 | 240 | Weight: 71 lb | FT = 10% |

LUMBER

WEBS

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

2x3 SPF No.2 *Except* 10-1,6-5:2x4 SPF

BRACING TOP CHORD

Structural wood sheathing directly applied or 3-11-8 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 6= Mechanical, 10= Mechanical

Max Horiz 10=55 (LC 8)

Max Uplift 6=-113 (LC 9), 10=-116 (LC 8) Max Grav 6=902 (LC 1), 10=902 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-248/33, 2-3=-1379/189, 3-4=-1338/181, 4-5=-163/22, 1-10=-187/44, 5-6=-138/31

BOT CHORD 9-10=-239/1352, 7-9=-68/948, 6-7=-177/1269 **WEBS** 3-7=-45/378, 4-7=-215/182, 3-9=-52/429,

2-9=-268/193. 2-10=-1334/205.

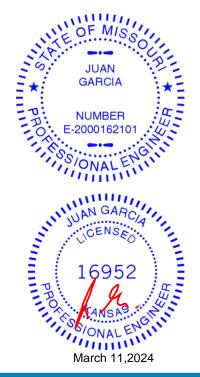
4-6=-1352/207

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 10 and 113 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





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

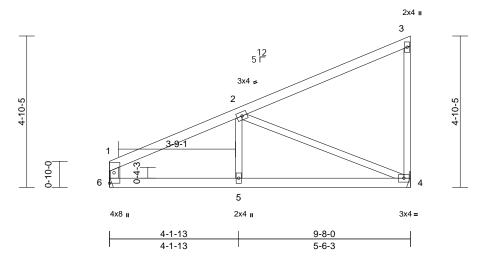
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Lot 123 MN | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 240614 | A5A | Monopitch | 1 | 1 | Job Reference (optional) | 164131339 |

Run: 8.73 S. Feb 22 2024 Print: 8.730 S. Feb 22 2024 MiTek Industries. Inc. Fri Mar 08 12:19:03 ID:dUsF6I9_BQqiA92cQC1MRyzitP0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:37

| 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 | 0.39 | Vert(LL) | -0.04 | 4-5 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.36 | Vert(CT) | -0.09 | 4-5 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.43 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | Wind(LL) | 0.03 | 4-5 | >999 | 240 | Weight: 33 lb | FT = 10% |

LOAD CASE(S) Standard

LUMBER TOP CHORD

2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 WEBS

BRACING

2x3 SPF No.2 *Except* 6-1:2x4 SPF No.2

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) 4= Mechanical, 6= Mechanical

Max Horiz 6=194 (LC 7)

Max Uplift 4=-101 (LC 8), 6=-58 (LC 8) Max Grav 4=424 (LC 1), 6=424 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-6=-345/71, 1-2=-579/82, 2-3=-138/37,

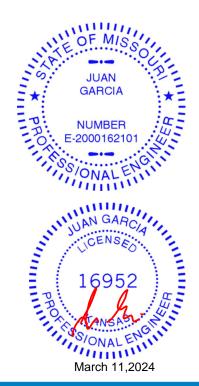
3-4=-167/67

BOT CHORD 5-6=-114/484, 4-5=-114/484 WFBS 2-4=-509/164, 2-5=0/187

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

 * This truss has been designed for a live load of 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 6 and 101 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.



Page: 1

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

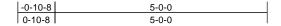
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

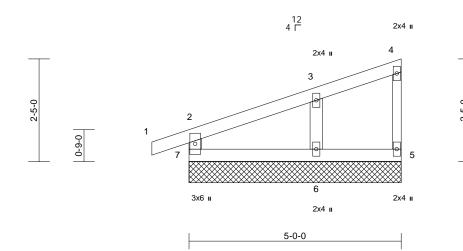


| Job | Truss | Truss Type | Qty | Ply | Lot 123 MN | |
|--------|-------|---------------------------|-----|-----|--------------------------|-----------|
| 240614 | B1 | Monopitch Supported Gable | 1 | 1 | Job Reference (optional) | 164131340 |

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 08 12:19:03 ID:5yy3uSNHyx59LwQ3T_La9lzitOk-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:27.1

| 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 | 0.07 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.02 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | | | | | | Weight: 16 lb | FT = 10% |

LUMBER

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

2x4 SPF No.2 *Except* 4-5:2x3 SPF No.2 WEBS

2x4 SPF No.2 OTHERS

BRACING

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

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

bracing.

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

Max Horiz 7=97 (LC 7)

Max Uplift 5=-6 (LC 5), 6=-70 (LC 8), 7=-53 (LC 4)

5=56 (LC 1), 6=250 (LC 1), 7=193 Max Grav (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-7=-170/73, 1-2=0/23, 2-3=-65/30,

3-4=-48/18, 4-5=-44/15

BOT CHORD 6-7=-30/21, 5-6=-30/21

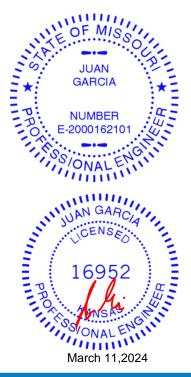
WEBS 3-6=-189/95

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 7, 6 lb uplift at joint 5 and 70 lb uplift at joint 6.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





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

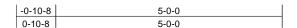
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

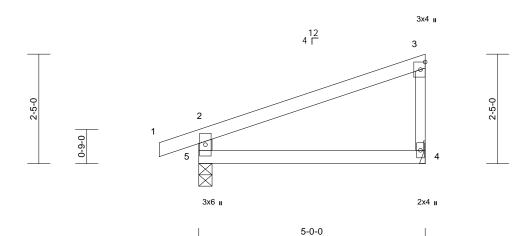


| Job | Truss | Truss Type | Qty | Ply | Lot 123 MN | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 240614 | B2 | Monopitch | 8 | 1 | Job Reference (optional) | 164131341 |

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 08 12:19:03 ID:w6JK9VR2Xnrl3rtDqFS_P0zitOe-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





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 | 0.29 | Vert(LL) | -0.02 | 4-5 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.18 | Vert(CT) | -0.04 | 4-5 | >999 | 240 | | |
| 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-R | | Wind(LL) | 0.01 | 4-5 | >999 | 240 | Weight: 15 lb | FT = 10% |

LUMBER

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

WEBS 2x3 SPF No.2 *Except* 5-2:2x4 SPF No.2

BRACING

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

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

bracing.

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

Max Horiz 5=97 (LC 5)

Max Uplift 4=-46 (LC 8), 5=-79 (LC 4) Max Grav 4=206 (LC 1), 5=293 (LC 1) (lb) - Maximum Compression/Maximum

FORCES (lb) - Ma Tension

1-2=0/23, 2-3=-105/12, 3-4=-147/67,

2-5=-257/115

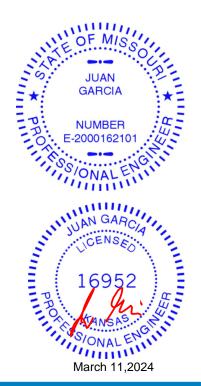
BOT CHORD 4-5=-25/40

NOTES

TOP CHORD

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be SPF No.2
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 4 and 79 lb uplift at joint 5.
- 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





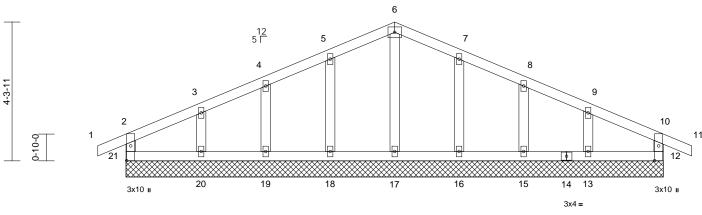


| Job | Truss | Truss Type | Qty | Ply | Lot 123 MN | |
|--------|-------|------------------------|-----|-----|--------------------------|-----------|
| 240614 | C1 | Common Supported Gable | 1 | 1 | Job Reference (optional) | 164131342 |

Run: 8.73 S. Feb 22 2024 Print: 8.730 S. Feb 22 2024 MiTek Industries. Inc. Fri Mar 08 12:19:03 ID:BqClltu83zs4Jtq9mktaY2zitg7-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:35.7

Plate Offsets (X, Y): [12:0-5-8,0-1-8], [21:0-5-8,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.07 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.03 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.04 | Horz(CT) | 0.00 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | | | | | | Weight: 61 lb | FT = 10% |

16-8-0

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 WEBS 2x4 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)

12=16-8-0, 13=16-8-0, 15=16-8-0, 16=16-8-0, 17=16-8-0, 18=16-8-0, 19=16-8-0, 20=16-8-0, 21=16-8-0

Max Horiz 21=-48 (LC 9)

Max Uplift 12=-40 (LC 5), 13=-65 (LC 9), 15=-43 (LC 9), 16=-52 (LC 9),

18=-53 (LC 8), 19=-42 (LC 8),

20=-68 (LC 8), 21=-40 (LC 4)

Max Grav 12=174 (LC 22), 13=188 (LC 1),

15=176 (LC 1), 16=192 (LC 22),

17=164 (LC 1), 18=192 (LC 21), 19=176 (LC 1), 20=188 (LC 1),

21=174 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

2-21=-154/53, 1-2=0/27, 2-3=-52/49, 3-4=-30/68, 4-5=-29/90, 5-6=-34/110,

6-7=-34/104, 7-8=-29/81, 8-9=-30/60, 9-10=-45/42, 10-11=0/27, 10-12=-154/53

BOT CHORD 20-21=-9/38, 19-20=-9/38, 18-19=-9/38, 17-18=-9/38, 16-17=-9/38, 15-16=-9/38,

13-15=-9/38, 12-13=-9/38

WEBS 6-17=-125/0, 5-18=-151/76, 4-19=-137/67, 3-20=-143/87, 7-16=-151/76, 8-15=-137/68,

9-13=-143/85

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 2x4 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SPF No.2.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 21, 40 lb uplift at joint 12, 53 lb uplift at joint 18, 42 lb uplift at joint 19, 68 lb uplift at joint 20, 52 lb uplift at joint 16, 43 lb uplift at joint 15 and 65 lb uplift at joint 13.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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 Lot 123 MN 164131343 240614 C2 Common Structural Gable Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

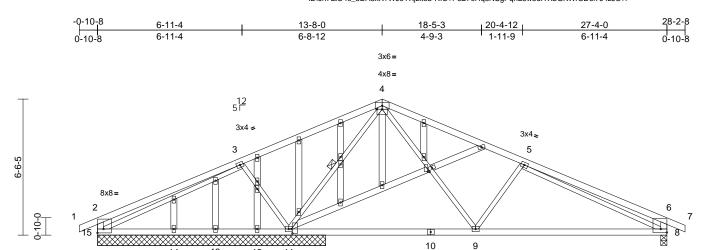
Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 08 12:19:03 ID:Jh7LtO4c_5DA3xK?WJeYXjziteb-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

3x4=

3x4=

Page: 1

8x8=



9-2-8 18-1-13 27-4-0 9-2-8 8-11-5 9-2-3 Scale = 1:55.3

12

11

3x4 =3x6 ı

Plate Offsets (X, Y): [2:Edge,0-2-4], [4:0-3-0,Edge], [8:Edge,0-2-0], [11:0-2-8,0-0-8], [17:0-0-3,0-1-1]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.59 | Vert(LL) | -0.14 | 8-9 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.67 | Vert(CT) | -0.30 | 8-9 | >729 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.80 | Horz(CT) | 0.02 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | Wind(LL) | 0.03 | 8-9 | >999 | 240 | Weight: 133 lb | FT = 10% |

LUMBER

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

15-2,8-6,16-17,17-11:2x4 SPF No.2

OTHERS 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-3-4 oc purlins, except end verticals.

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

bracing.

WEBS 1 Row at midpt 4-11

REACTIONS (size) 8=0-3-8, 11=10-11-8, 12=10-11-8, 13=10-11-8, 14=10-11-8,

15=10-11-8

Max Horiz 15=-87 (LC 9)

Max Uplift 8=-154 (LC 9), 11=-143 (LC 8),

12=-129 (LC 3), 15=-109 (LC 8)

8=831 (LC 1), 11=1374 (LC 1), Max Grav 12=-34 (LC 9), 13=98 (LC 3),

14=129 (LC 3), 15=371 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/27, 2-3=-356/193, 3-4=0/315, 4-5=-889/218, 5-6=-592/173, 6-7=0/27,

2-15=-390/179 6-8=-492/173

14-15=-102/160, 13-14=-102/160, BOT CHORD

12-13=-102/160, 11-12=-102/160,

9-11=0/334. 8-9=-143/974 WFBS 4-9=-106/689, 5-9=-448/248, 4-11=-940/122,

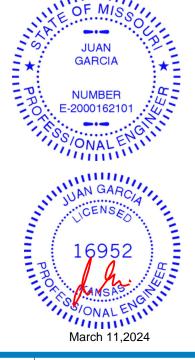
3-11=-507/263, 3-15=-100/195, 5-8=-568/64

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 2x4 MT20 unless otherwise indicated.
- 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.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 143 lb uplift at joint 11, 109 lb uplift at joint 15, 154 lb uplift at joint 8 and 129 lb uplift at joint 12.
- 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





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



 Job
 Truss
 Truss Type
 Qty
 Ply
 Lot 123 MN

 240614
 C3
 Common Girder
 1
 3
 Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 08 12:19:03 ID:UPX4fXz0rD6rX0DeA9ulvvzitYH-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

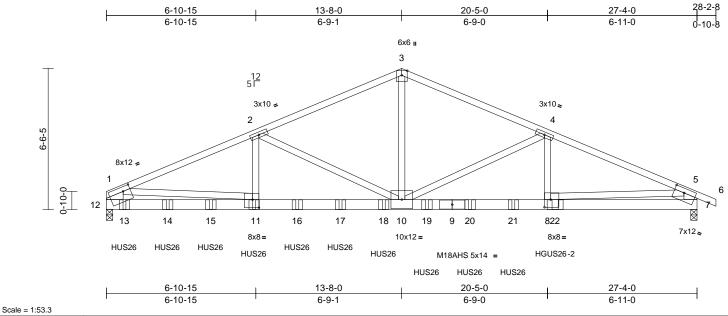


Plate Offsets (X, Y): [1:0-4-0,0-2-8], [7:0-5-8,0-2-8], [8:0-3-8,0-4-4], [11:0-3-8,0-4-8]

| 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 | 0.87 | Vert(LL) | -0.26 | 8-10 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.83 | Vert(CT) | -0.46 | 8-10 | >691 | 240 | M18AHS | 186/179 |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.94 | Horz(CT) | 0.07 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | Wind(LL) | 0.15 | 8-10 | >999 | 240 | Weight: 435 lb | FT = 10% |

LUMBER

TOP CHORD 2x4 SPF 2100F 1.8E BOT CHORD 2x6 SP 2400F 2.0E

WEBS 2x4 SPF No.2 *Except* 12-1:2x10 SP 2400F 2.0E, 7-5:2x8 SP 2400F 2.0E, 8-5:2x4 SPF

2100F 1.8E

BRACING TOP CHORD BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

5-9-13 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing

REACTIONS (size) 7=0-3-8, (req. 0-4-9), 12=0-3-8,

(req. 0-5-14) Max Horiz 12=-96 (LC 28)

Max Uplift 7=-804 (LC 9), 12=-118 (LC 8) Max Grav 7=8680 (LC 1), 12=11203 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-18078/889, 2-3=-13428/868, 3-4=-13423/867, 4-5=-17897/1564, 5-6=0/32,

1-12=-8256/480, 5-7=-8399/806

BOT CHORD 11-12=-0250/460, 5-7=-0399/000 BOT CHORD 11-12=-186/5147, 10-11=-832/16652,

8-10=-1363/16397, 7-8=-378/3241 WFBS 3-10=-522/9748, 4-10=-4587/869

3-10=-522/9748, 4-10=-4587/869, 4-8=-468/3434, 2-10=-4986/180,

2-11=0/3846. 1-11=-649/11589.

5-8=-991/13205

NOTES

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

Top chords connected as follows: 2x4 - 1 row at 0-4-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-4-0 oc.

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

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- 4) Wind: AŠCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- WARNING: Required bearing size at joint(s) 12, 7 greater than input bearing size.
- 9) All bearings are assumed to be SPF No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint 12 and 804 lb uplift at joint 7.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-10-0 from the left end to 18-10-0 to connect truss(es) to back face of bottom chord.
- 13) Use Simpson Strong-Tie HGUS26-2 (20-10d Girder, 8-10d Truss) or equivalent at 20-9-3 from the left end to connect truss(es) to back face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

Vert: 1-3=-70, 3-5=-70, 5-6=-70, 7-12=-20 Concentrated Loads (lb)

Vert: 11=-1443 (B), 13=-1445 (B), 14=-1436 (B), 15=-1443 (B), 16=-1443 (B), 17=-1443 (B), 18=-1443 (B), 19=-1441 (B), 20=-1445 (B), 21=-1445 (B), 22=-2974 (B)



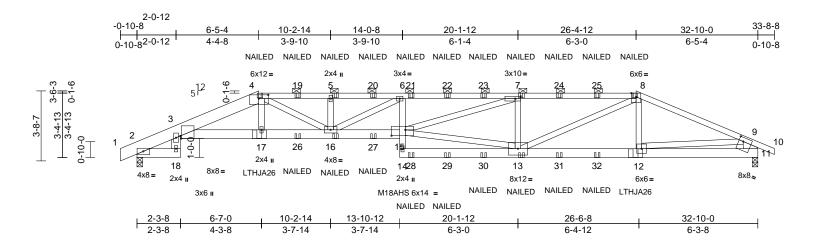
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Lot 123 MN | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 240614 | D1 | Hip Girder | 1 | 2 | Job Reference (optional) | l64131345 |

Run: 8 73 S. Feb 22 2024 Print: 8 730 S. Feb 22 2024 MiTek Industries. Inc. Fri Mar 08 12:19:04 ID:rnApu3Pg6Ah8v11x_yRabbzitRG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:60.9

Plate Offsets (X, Y): [3:0-0-11,Edge], [4:0-6-0,0-2-6], [7:0-3-8,0-1-8], [11:0-2-12,0-2-8], [15:0-8-12,0-3-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.70 | Vert(LL) | -0.47 | 15 | >830 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.61 | Vert(CT) | -0.84 | 15 | >460 | 240 | M18AHS | 142/136 |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.93 | Horz(CT) | 0.30 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | Wind(LL) | 0.39 | 15 | >990 | 240 | Weight: 348 lb | FT = 10% |

LUMBER

TOP CHORD 2x8 SP 2400F 2.0E *Except* 4-8:2x4 SPF

2100F 1.8E, 8-10:2x4 SPF No.2

BOT CHORD 2x6 SPF No.2 *Except* 3-15:2x6 SP 2400F 2.0E

2x4 SPF No.2 *Except* 18-3:2x6 SPF No.2,

WEBS 11-9:2x10 SP 2400F 2.0E

BRACING

Structural wood sheathing directly applied or TOP CHORD 4-7-1 oc purlins, except end verticals, and

2-0-0 oc purlins (4-0-10 max.): 4-8.

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

bracing.

REACTIONS (size) 2=0-3-8, 11=0-3-8

Max Horiz 2=49 (LC 12)

Max Uplift 2=-550 (LC 4), 11=-599 (LC 5)

Max Grav 2=2980 (LC 1), 11=3011 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-1591/303, 3-4=-8878/1684, 4-5=-10671/2082, 5-6=-10668/2082,

6-7=-12061/2459. 7-8=-8105/1687. 8-9=-5700/1153, 9-10=0/34, 9-11=-2882/611

2-18=0/0, 3-17=-1545/8477, BOT CHORD

16-17=-1550/8545, 15-16=-2431/12389,

13-14=-117/648, 12-13=-1009/5182,

11-12=-254/1065

WFBS 3-18=-31/249, 14-15=0/290, 6-15=0/388,

4-17=-60/877, 13-15=-1504/7548, 7-15=-814/4162, 7-13=-2298/714, 8-13=-666/3323, 8-12=0/327, 9-12=-816/4181, 6-16=-1993/495,

5-16=-319/176, 4-16=-506/2486

NOTES

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

Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-6-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

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

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD $\mbox{CASE}(\mbox{S})$ 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 550 lb uplift at joint 2 and 599 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.
- 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 LTHJA26 (LTHJA26 on 2 ply Left Hand Hip) or equivalent at 6-5-10 from the left end
- to connect truss(es) to from lace of bottom chord.

 14) Use Simpson Strong Tie LTHJA20/UTHJA20 on 2 ply,
 Right Hand Hip) or equivalent at 26-4-6 from the left end
 to connect truss(es) to from face of bottom chord.
- 15) Fill all nail holes where hanger is in contact with lumber.
 16) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe dails per NDS guidines.

LOAD CASE(S) -Standard

Dead + Roof Live (balanced): Lumber Increase=1,-15. :4 Plate Increase=1:15 Uniform Loads (lb/ft) E-2000162101 Vert: 1-4=-70, 4-8=-70, 8-9=-70, 9-10=-70, 2-18=-20, 3-15=-20, 11-14=-20,
Concentrated Loads (lb) / ONAL
Vert: 4=-118 (F), 8=-126 (F), 17=-513 (F), 7=-126 (F), 13=-58 (F), 12=-493 (F), 5=-118 (F), 16=-72 (F),

19=-118 (F), 20=-118 (F), 21=-126 (F), 22=-126 (F), 23=-126 (F), 24=-126 (F), 25=-126 (F), 26=-72 (F), 27=-72 (F), 28=-58 (F), 29=-58 (F), 30=-58 (F), 31=-58 (F), 32=-58 (F)



March 11,2024

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



| Job | Truss | Truss Type | Qty | Ply | Lot 123 MN | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 240614 | D2 | Hip | 1 | 1 | Job Reference (optional) | l64131346 |

Run: 8 73 S. Feb 22 2024 Print: 8 730 S. Feb 22 2024 MiTek Industries. Inc. Fri Mar 08 12:19:04 ID:untV3V8QbDauQ24xu7aCNfzitSu-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

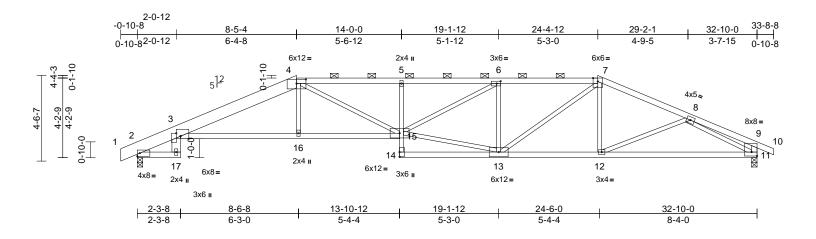


Plate Offsets (X, Y): [3:0-5-4,Edge], [3:0-1-14,0-2-11], [4:0-6-0,0-2-10], [6:0-2-8,0-1-8], [9:Edge,0-2-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.73 | Vert(LL) | -0.38 | 5 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.69 | Vert(CT) | -0.68 | 15-16 | >576 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.97 | Horz(CT) | 0.37 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | Wind(LL) | 0.28 | 5 | >999 | 240 | Weight: 138 lb | FT = 10% |

LUMBER

2x4 SPF No.2 *Except* 1-4:2x8 SP 2400F TOP CHORD

2.0E

BOT CHORD 2x4 SPF No 2 *Except* 3-15:2x4 SPF 2100F

1.8E. 5-14:2x3 SPF No.2

2x3 SPF No.2 *Except* 17-3:2x6 SPF No.2, **WEBS**

11-9:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-13 oc purlins, except end verticals, and

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

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

bracing.

REACTIONS 2=0-3-8, 11=0-3-8 (size)

Max Horiz 2=63 (LC 8)

Max Uplift 2=-208 (LC 4), 11=-208 (LC 5)

Max Grav 2=1536 (LC 1), 11=1536 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/0, 2-3=-785/112, 3-4=-3408/473,

TOP CHORD

4-5=-3996/647, 5-6=-3968/644,

6-7=-2991/507, 7-8=-2553/374, 8-9=-425/21,

9-10=0/27, 9-11=-355/61

2-17=0/0, 3-16=-370/3212, 15-16=-366/3213, BOT CHORD 14-15=0/104, 5-15=-353/154, 13-14=-25/203,

12-13=-260/2305, 11-12=-294/2190

3-17=0/56, 4-16=0/240, 4-15=-204/1018,

13-15=-382/2838, 6-15=-162/1134, 6-13=-988/244, 7-13=-186/949, 7-12=0/229,

8-12=0/319, 8-11=-2150/376

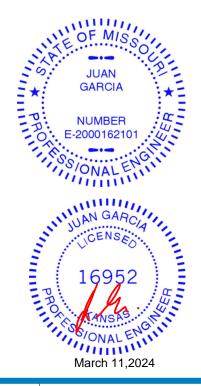
NOTES

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 208 lb uplift at joint 2 and 208 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard





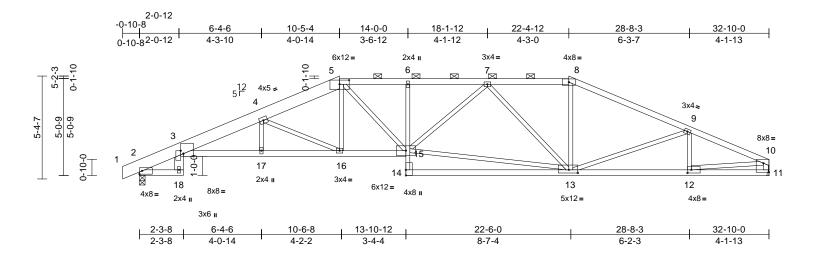
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 | Lot 123 MN | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 240614 | D3 | Hip | 1 | 1 | Job Reference (optional) | 164131347 |

Run: 8 73 S. Feb 22 2024 Print: 8 730 S. Feb 22 2024 MiTek Industries. Inc. Fri Mar 08 12:19:04 ID: AuO0edFKWH58t2n9IdqmclzitaW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff



Scale = 1:60.1

Plate Offsets (X, Y): [3:0-6-4, Edge], [3:0-1-14,0-1-11], [5:0-6-0,0-2-10], [10:Edge,0-5-11], [12:0-2-8,0-2-0], [13:0-5-8,0-2-0]

| 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 | 0.84 | Vert(LL) | -0.29 | 15-16 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.72 | Vert(CT) | -0.55 | 13-14 | >709 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.94 | Horz(CT) | 0.31 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | Wind(LL) | 0.14 | 15-16 | >999 | 240 | Weight: 149 lb | FT = 10% |

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 1-5:2x8 SP 2400F

2.0E

2x4 SPF No.2 *Except* 3-15:2x4 SPF 2100F **BOT CHORD**

1.8E, 6-14:2x3 SPF No.2

2x3 SPF No.2 *Except* 18-3:2x6 SPF No.2, WEBS

11-10:2x4 SPF No.2

BRACING

TOP CHORD

TOP CHORD Structural wood sheathing directly applied,

except end verticals, and 2-0-0 oc purlins (3-1-10 max.): 5-8.

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

bracing.

REACTIONS (size) 2=0-3-8, 11= Mechanical

Max Horiz 2=51 (LC 10)

Max Uplift 2=-16 (LC 4)

Max Grav 2=1537 (LC 1), 11=1463 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/0, 2-3=-786/15, 3-4=-3872/34,

4-5=-3072/67, 5-6=-3089/92, 6-7=-3071/93, 7-8=-2178/62, 8-9=-2446/53, 9-10=-2590/24,

10-11=-1402/16

2-18=0/0, 3-17=-2/3746, 16-17=-1/3740, BOT CHORD

15-16=0/2784, 14-15=0/157, 6-15=-260/65,

13-14=0/260, 12-13=-2/2350, 11-12=0/251 WEBS 3-18=0/56, 4-16=-1079/71, 5-16=0/605,

5-15=-37/562, 13-15=-60/2499, 7-15=0/502,

7-13=-917/77, 8-13=0/556, 9-13=-208/110,

9-12=-248/57, 10-12=-5/2122, 4-17=-88/62

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



Page: 1

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

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



| Job | Truss | Truss Type | Qty | Ply | Lot 123 MN | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 240614 | D4 | Hip | 1 | 1 | Job Reference (optional) | 164131348 |

Run: 8 73 S. Feb 22 2024 Print: 8 730 S. Feb 22 2024 MiTek Industries. Inc. Fri Mar 08 12:19:05 $ID: Pps8qGk_PNo5rbZ4rp3vvuzitbA-RfC? PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? find the property of the propert$

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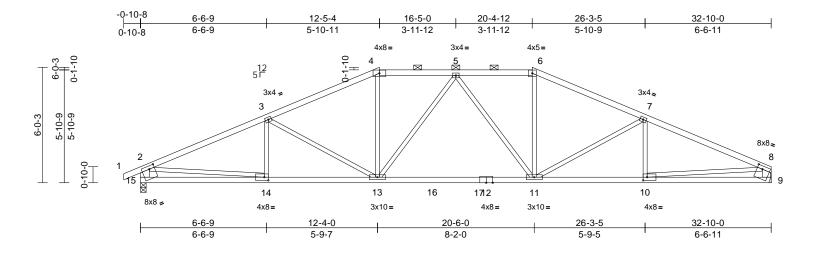


Plate Offsets (X, Y): [8:0-3-4,0-2-0], [10:0-2-8,0-2-0], [14:0-2-8,0-2-0], [15:0-3-4,0-2-0]

| 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) | -0.27 | 11-13 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.90 | Vert(CT) | -0.48 | 11-13 | >808 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.69 | Horz(CT) | 0.09 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | Wind(LL) | 0.07 | 11 | >999 | 240 | Weight: 125 lb | FT = 10% |

LUMBER

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

2x3 SPF No.2 *Except* 15-2,9-8:2x6 SPF WEBS

BRACING

TOP CHORD

Structural wood sheathing directly applied or 2-11-1 oc purlins, except end verticals, and 2-0-0 oc purlins (3-11-7 max.): 4-6.

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

bracing

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

Max Horiz 15=49 (LC 8)

Max Uplift 9=-1 (LC 9), 15=-12 (LC 8)

Max Grav 9=1515 (LC 2), 15=1580 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/30, 2-3=-2707/7, 3-4=-2339/41,

4-5=-2095/49, 5-6=-2095/49, 6-7=-2342/41,

7-8=-2714/8, 2-15=-1461/49, 8-9=-1392/37

BOT CHORD 14-15=-86/565, 13-14=0/2428, 11-13=0/2197, 10-11=0/2443. 9-10=-16/448

WEBS 3-14=-79/103, 3-13=-419/96, 4-13=0/611,

6-11=0/619, 7-11=-438/98, 7-10=-95/97, 2-14=0/1873, 8-10=0/2005, 5-13=-360/49,

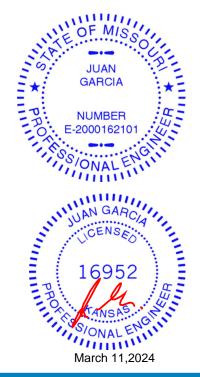
5-11=-358/49

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- 7) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 8) bearing plate capable of withstanding 12 lb uplift at joint 15 and 1 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard





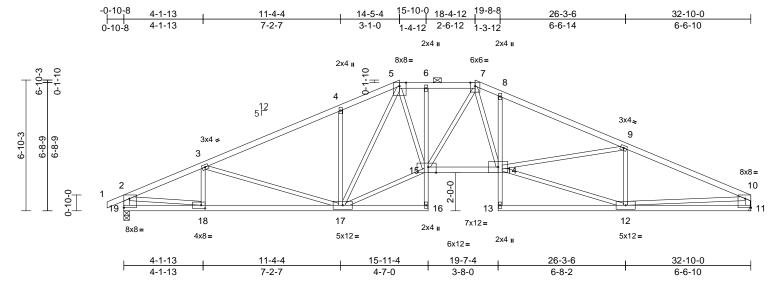
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 | Lot 123 MN | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 240614 | D5 | Hip | 1 | 1 | Job Reference (optional) | 164131349 |

Run: 8 73 S. Feb 22 2024 Print: 8 730 S. Feb 22 2024 MiTek Industries. Inc. Fri Mar 08 12:19:05 ID:A4pkxBdKXcgNGCNMpQPo1?zitbJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:60.3

Plate Offsets (X, Y): [5:0-4-2,Edge], [10:Edge,0-5-11], [15:0-5-0,Edge], [18:0-2-8,0-2-0], [19:Edge,0-5-11]

| 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) | -0.24 | 14-15 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.72 | Vert(CT) | -0.44 | 14-15 | >887 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.85 | Horz(CT) | 0.19 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | Wind(LL) | 0.11 | 14-15 | >999 | 240 | Weight: 143 lb | FT = 10% |

LUMBER

TOP CHORD 2x4 SPF No.2

2x4 SPF No.2 *Except* 16-6,8-13:2x3 SPF BOT CHORD

No.2

WFBS 2x3 SPF No.2 *Except* 19-2,11-10:2x4 SPF

2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-6-0 oc purlins, except end verticals, and

2-0-0 oc purlins (3-5-5 max.): 5-7. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS 11= Mechanical, 19=0-3-8 (size)

Max Horiz 19=58 (LC 8)

Max Uplift 11=-12 (LC 9), 19=-22 (LC 8)

Max Grav 11=1463 (LC 1), 19=1537 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/27 2-3=-2604/29 3-4=-2376/26

4-5=-2339/89, 5-6=-2675/7, 6-7=-2682/6 7-8=-3125/32. 8-9=-3219/0. 9-10=-2682/24.

2-19=-1485/36, 10-11=-1392/44

BOT CHORD 18-19=-49/256, 17-18=-54/2362, 16-17=0/25

15-16=0/58, 6-15=-278/43, 14-15=0/2609,

13-14=0/117, 8-14=-251/117, 12-13=0/47,

11-12=-26/439

5-15=0/1297, 12-14=0/2460, 9-14=0/543,

9-12=-775/81, 2-18=-4/2128, 10-12=0/1970, 7-15=-46/310, 7-14=-82/984, 3-18=-219/78, 3-17=-331/87, 4-17=-420/133, 5-17=-574/0,

15-17=0/2476

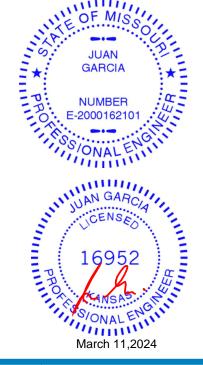
NOTES

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 19 and 12 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



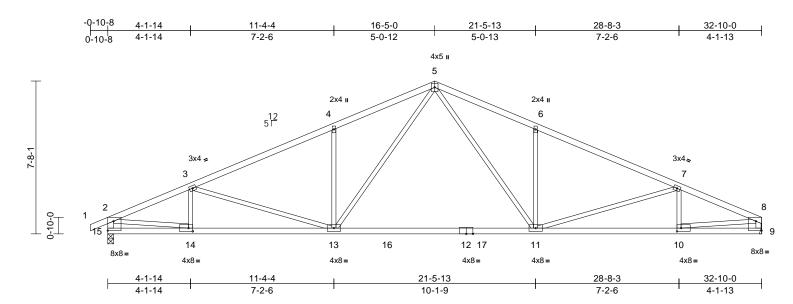
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



| Job | Truss | Truss Type | Qty | Ply | Lot 123 MN | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 240614 | D6 | Common | 3 | 1 | Job Reference (optional) | l64131350 |

Run: 8 73 S. Feb 22 2024 Print: 8 730 S. Feb 22 2024 MiTek Industries. Inc. Fri Mar 08 12:19:05 ID:pay_ls9tjdlv4Dvs1kCfymzitbw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:57.8

Plate Offsets (X, Y): [9:Edge,0-5-11], [10:0-2-8,0-2-0], [14:0-2-8,0-2-0], [15:Edge,0-5-11]

| 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 | 0.70 | Vert(LL) | -0.38 | 11-13 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.60 | Vert(CT) | -0.65 | 11-13 | >604 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.76 | Horz(CT) | 0.07 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | Wind(LL) | 0.07 | 13-14 | >999 | 240 | Weight: 124 lb | FT = 10% |

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF 2100F 1.8E

2x3 SPF No.2 *Except* 15-2,9-8:2x4 SPF WEBS

No.2 **BRACING**

TOP CHORD Structural wood sheathing directly applied or 2-7-0 oc purlins, except end verticals.

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

bracing

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

Max Horiz 15=67 (LC 10)

Max Uplift 9=-21 (LC 9), 15=-31 (LC 8)

Max Grav 9=1540 (LC 2), 15=1600 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/27, 2-3=-2710/52, 3-4=-2543/39,

4-5=-2536/118, 2-15=-1506/49,

8-9=-1445/38, 5-6=-2537/119, 6-7=-2546/39,

7-8=-2719/53

BOT CHORD 14-15=-58/334, 13-14=-83/2464,

11-13=0/1703, 10-11=-27/2478, 9-10=-2/285

2-14=-25/2175. 8-10=-26/2216.

3-14=-239/69, 3-13=-321/95, 4-13=-484/146,

5-13=-76/1039, 5-11=-76/1042, 6-11=-483/146, 7-11=-334/96, 7-10=-245/70

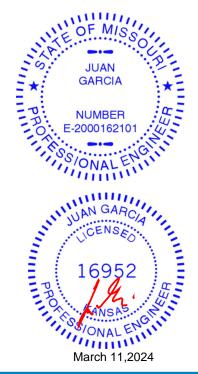
NOTES

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections. 6)
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 15 and 21 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





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

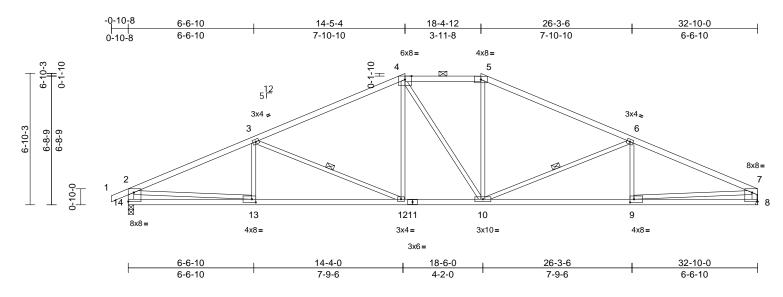
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Lot 123 MN | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 240614 | D7 | Hip | 1 | 1 | Job Reference (optional) | I64131351 |

Run: 8.73 S. Feb 22 2024 Print: 8.730 S. Feb 22 2024 MiTek Industries. Inc. Fri Mar 08 12:19:05 ID:WzVwjfspMFkJCX3Fdhn1_jzitcl-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:60.1

Plate Offsets (X, Y): [4:0-4-2,Edge], [7:Edge,0-5-11], [9:0-2-8,0-2-0], [13:0-2-8,0-2-0], [14:Edge,0-5-11]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.66 | Vert(LL) | -0.15 | 12-13 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.74 | Vert(CT) | -0.34 | 12-13 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.70 | Horz(CT) | 0.08 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | Wind(LL) | 0.07 | 12-13 | >999 | 240 | Weight: 124 lb | FT = 10% |

LUMBER

TOP CHORD 2x4 SPF 2100F 1.8E *Except* 4-5:2x4 SPF

No.2

BOT CHORD 2x4 SPF No.2

2x3 SPF No.2 *Except* 14-2,8-7:2x4 SPF **WEBS**

2400F 2.0E

BRACING TOP CHORD

Structural wood sheathing directly applied or

3-9-12 oc purlins, except end verticals, and 2-0-0 oc purlins (4-0-15 max.): 4-5.

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

bracing.

WFBS 3-12. 6-10 1 Row at midpt

8= Mechanical, 14=0-3-8 REACTIONS (size)

Max Horiz 14=58 (LC 10)

Max Uplift 8=-12 (LC 9), 14=-22 (LC 8) Max Grav 8=1463 (LC 1), 14=1537 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/27, 2-3=-2707/30, 3-4=-2108/23, 4-5=-1842/48, 5-6=-2110/23, 6-7=-2713/31,

2-14=-1469/54, 7-8=-1394/43

BOT CHORD 13-14=-81/518, 12-13=-33/2423

10-12=0/1841, 9-10=0/2436, 8-9=-14/411 WEBS 3-13=-39/185, 3-12=-667/110, 4-12=0/390,

4-10=-214/216, 5-10=0/393, 6-10=-680/111,

6-9=-52/178, 2-13=0/1913, 7-9=0/2034

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections. 7)
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 14 and 12 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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

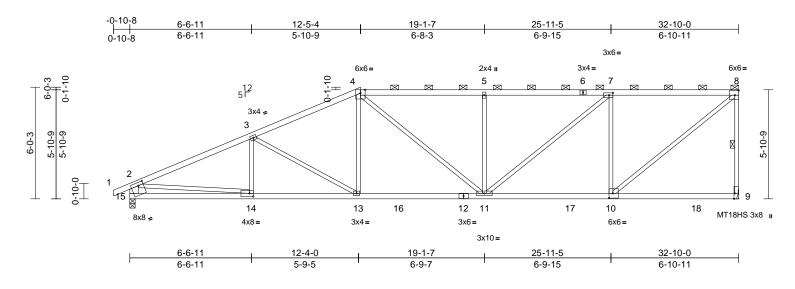
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Lot 123 MN | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 240614 | D8 | Half Hip | 1 | 1 | Job Reference (optional) | l64131352 |

Run: 8 73 S. Feb 22 2024 Print: 8 730 S. Feb 22 2024 MiTek Industries. Inc. Fri Mar 08 12:19:05 ID:dBGPtHpJJ0EtjvmUOri5qtzitcM-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:62.1

Plate Offsets (X, Y): [7:0-2-8,0-1-8], [9:0-3-8,Edge], [10:0-2-8,0-3-0], [14:0-2-8,0-2-0], [15:0-3-4,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.74 | Vert(LL) | -0.20 | 11-13 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.78 | Vert(CT) | -0.35 | 11-13 | >999 | 240 | MT18HS | 197/144 |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.82 | Horz(CT) | 0.07 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | Wind(LL) | 0.08 | 11-13 | >999 | 240 | Weight: 129 lb | FT = 10% |

LUMBER

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

2x3 SPF No.2 *Except* 15-2:2x6 SPF No.2 WEBS

BRACING

Structural wood sheathing directly applied or TOP CHORD

3-0-1 oc purlins, except end verticals, and

2-0-0 oc purlins (3-0-7 max.): 4-8. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

WFBS 1 Row at midpt 8-9

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

Max Horiz 15=192 (LC 7)

Max Uplift 9=-71 (LC 5), 15=-19 (LC 4)

Max Grav 9=1572 (LC 2), 15=1596 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/30, 2-3=-2743/28, 3-4=-2368/79,

4-5=-2253/115, 5-7=-2251/114,

7-8=-1569/102, 8-9=-1445/101,

2-15=-1477/55 **BOT CHORD**

14-15=-188/569, 13-14=-140/2460, 11-13=-127/2125, 10-11=-106/1569

9-10=-64/49

WEBS 2-14=0/1901, 4-13=0/443, 8-10=-91/2013,

4-11=-39/347, 5-11=-515/118, 7-11=-42/881,

7-10=-1055/153, 3-13=-381/91, 3-14=-73/117

NOTES

- Unbalanced roof live loads have been considered for 1)
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 9 and 19 lb uplift at joint 15.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard





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

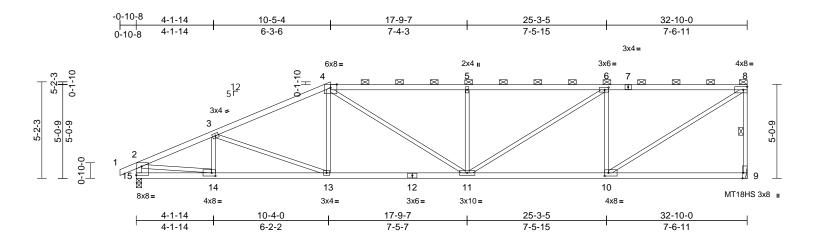
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Jo | b | Truss | Truss Type | Qty | Ply | Lot 123 MN | |
|----|------|-------|------------|-----|-----|--------------------------|-----------|
| 24 | 0614 | D9 | Half Hip | 1 | 1 | Job Reference (optional) | 164131353 |

Run: 8 73 S. Feb 22 2024 Print: 8 730 S. Feb 22 2024 MiTek Industries. Inc. Fri Mar 08 12:19:05 ID:dwk_JTceJo5lBlyCunv5dHzitcd-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61.9

Plate Offsets (X, Y): [4:0-4-2,Edge], [6:0-2-8,0-1-8], [9:0-3-8,Edge], [10:0-2-8,0-2-0], [14:0-2-8,0-2-0], [15:Edge,0-5-11]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.81 | Vert(LL) | -0.17 | 11 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.68 | Vert(CT) | -0.34 | 11-13 | >999 | 240 | MT18HS | 197/144 |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.75 | Horz(CT) | 0.08 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | Wind(LL) | 0.09 | 11 | >999 | 240 | Weight: 123 lb | FT = 10% |

LUMBER TOP CHORD

2x4 SPF 2100F 1.8E *Except* 1-4:2x4 SPF

No.2

BOT CHORD 2x4 SPF No 2

2x3 SPF No.2 *Except* 15-2:2x4 SPF No.2 WFBS

BRACING

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

2-0-0 oc purlins (4-2-3 max.): 4-8.

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

bracing.

WEBS 1 Row at midpt 8-9

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

Max Horiz 15=164 (LC 5)

Max Uplift 9=-71 (LC 5), 15=-27 (LC 4) Max Grav 9=1465 (LC 1), 15=1539 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/27, 2-3=-2579/32, 3-4=-2450/82,

4-5=-2579/134, 5-6=-2576/132,

6-8=-1869/115, 8-9=-1399/106,

2-15=-1479/46

BOT CHORD 14-15=-144/282, 13-14=-144/2334,

11-13=-131/2188, 10-11=-120/1869,

9-10=-51/42

WEBS 2-14=-12/2074, 4-13=0/319, 8-10=-107/2193,

3-13=-150/122, 3-14=-235/65, 4-11=-52/624,

5-11=-568/129, 6-11=-42/837,

6-10=-1019/160

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.

- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 9 and 27 lb uplift at joint 15.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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

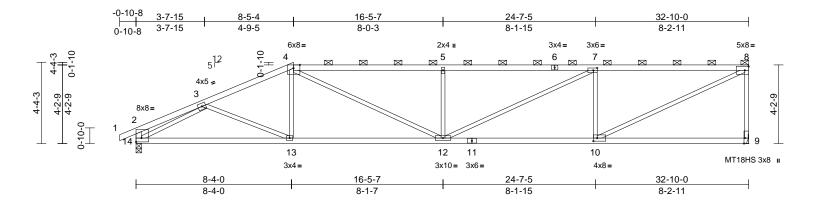
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Lot 123 MN | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 240614 | D10 | Half Hip | 1 | 1 | Job Reference (optional) | 164131354 |

Run: 8 73 S. Feb 22 2024 Print: 8 730 S. Feb 22 2024 MiTek Industries. Inc. Fri Mar 08 12:19:05 ID:wkcmeEHigVh7R9O0pcwm1bzitd2-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61.7

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

| Loading | (psf) | Spacing | 2-0-0 | csı | | DEFL | in | (loc) | I/defl | I /d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|------|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.91 | Vert(LL) | -0.23 | ` ' | | | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.76 | - (/ | -0.44 | 10-12 | | | MT18HS | 197/144 |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.91 | Horz(CT) | 0.09 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | Wind(LL) | 0.13 | 10-12 | >999 | 240 | Weight: 118 lb | FT = 10% |

TOP CHORD 2x4 SPF 2100F 1.8E *Except* 1-4:2x4 SPF

No.2

BOT CHORD 2x4 SPF No.2

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

3-3-4 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 4-8.

Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD

bracing

REACTIONS 9= Mechanical, 14=0-3-8 (size)

Max Horiz 14=136 (LC 5)

Max Uplift 9=-72 (LC 5), 14=-39 (LC 4)

Max Grav 9=1465 (LC 1), 14=1539 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/27, 2-3=-429/0, 3-4=-2577/82,

4-5=-3167/162, 5-7=-3164/161,

7-8=-2415/136, 8-9=-1392/111, 2-14=-364/26

BOT CHORD 13-14=-168/2188, 12-13=-127/2334,

10-12=-142/2415. 9-10=-37/36 3-13=0/353, 4-13=0/267, 3-14=-2147/111,

5-12=-620/141, 4-12=-80/1049,

7-12=-45/831, 7-10=-976/167,

8-10=-130/2642

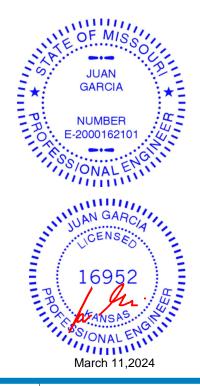
NOTES

WEBS

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 9 and 39 lb uplift at joint 14.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard





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

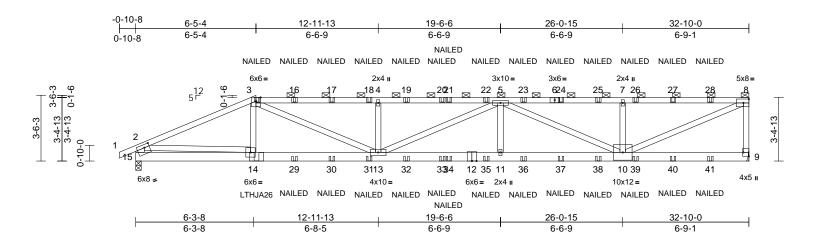
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Lot 123 MN | |
|--------|-------|-----------------|-----|-----|--------------------------|-----------|
| 240614 | D11 | Half Hip Girder | 1 | 2 | Job Reference (optional) | l64131355 |

Run: 8 73 S. Feb 22 2024 Print: 8 730 S. Feb 22 2024 MiTek Industries. Inc. Fri Mar 08 12:19:06 ID:jnxLiY2LksXdQLP1kCXTptzitZT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61.7

| Plate Offsets (X, Y): | [9:Edge,0-3-8], | [15:0-3-4,0-2-0] |
|-----------------------|-----------------|------------------|
|-----------------------|-----------------|------------------|

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| - | | - | | | | | 0.00 | ٠, | | | _ | |
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.73 | Vert(LL) | -0.28 | 11-13 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.91 | Vert(CT) | -0.52 | 11-13 | >749 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.74 | Horz(CT) | 0.08 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | Wind(LL) | 0.23 | 11-13 | >999 | 240 | Weight: 303 lb | FT = 10% |

LUMBER TOP CHORD

2x4 SPF 2100F 1.8E *Except* 1-3:2x4 SPF

No.2

BOT CHORD 2x6 SPF No.2 2x4 SPF No.2 *Except* 15-2:2x6 SPF No.2 WFBS

BRACING

TOP CHORD

Structural wood sheathing directly applied or 4-4-12 oc purlins, except end verticals, and 2-0-0 oc purlins (4-11-11 max.): 3-8.

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

bracing

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

Max Horiz 15=106 (LC 24)

Max Uplift 9=-548 (LC 5), 15=-506 (LC 4) Max Grav 9=2994 (LC 1), 15=3022 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/30, 2-3=-5899/1065, 3-4=-8368/1593,

4-5=-8364/1591 5-7=-5578/1058

7-8=-5578/1058, 8-9=-2844/595,

2-15=-2895/519 BOT CHORD

14-15=-278/1242. 13-14=-1036/5360.

11-13=-1602/8344. 10-11=-1602/8344.

9-10=-47/111

WEBS 3-14=0/391, 3-13=-651/3394,

4-13=-1070/461, 5-13=-30/22, 5-11=0/547,

5-10=-3047/597, 7-10=-924/402, 8-10=-1114/6012, 2-14=-771/4212

NOTES

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

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

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

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

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 548 lb uplift at joint 9 and 506 lb uplift at joint 15.
- 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 LTHJA26 (LTHJA26 on 2 ply, Right Hand Hip) or equivalent at 6-5-10 from the left end to connect truss(es) to back face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 3-8=-70, 9-15=-20

Concentrated Loads (lb), Vert: 3=-126 (B), 14=-493 (B), 64-126 (B), 17=-126 (B), 18=-126 (B), 19=-126 (B), 20=-126 (B), 21=-126 (B), 22=-126 (B), 25=-126 (B)

(B), 26=-126 (B), 27=-126 (B), 28=-126 (B), 29=-58 (B), 30=-58 (B), 31=-58 (B), 32=-58 (B), 33=-58 (B), 34=-58 (B), 35=-58 (B), 36=-58 (B), 37=-58 (B), 38=-58 (B), 39=-58 (B), 40=-58 (B), 41=-58 (B)





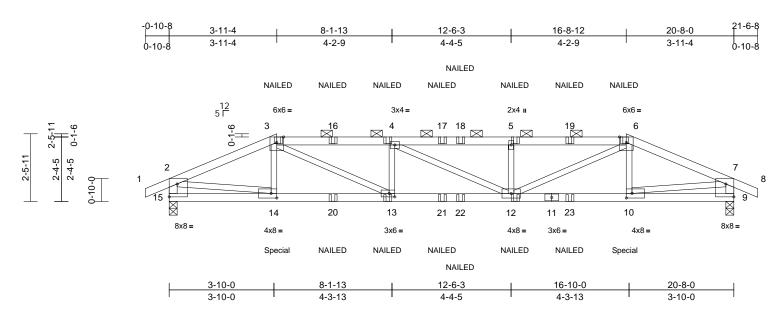
March 11,2024

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



| Job | Truss | Truss Type | Qty | Ply | Lot 123 MN | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 240614 | G1 | Hip Girder | 1 | 1 | Job Reference (optional) | 164131356 |

Run: 8 73 S. Feb 22 2024 Print: 8 730 S. Feb 22 2024 MiTek Industries. Inc. Fri Mar 08 12:19:06 ID:YE8tn3PIE7tgK9GeOedl8qzd_Yo-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:42.2

Plate Offsets (X, Y): [9:Edge,0-5-11], [10:0-2-8,0-2-0], [13:0-2-8,0-1-8], [14:0-2-8,0-2-0], [15:Edge,0-5-11]

| 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 | 0.69 | Vert(LL) | -0.18 | 12-13 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 1.00 | Vert(CT) | -0.33 | 12-13 | >732 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.64 | Horz(CT) | 0.06 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | Wind(LL) | 0.16 | 12-13 | >999 | 240 | Weight: 74 lb | FT = 10% |

LUMBER

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

2x3 SPF No.2 *Except* 15-2,9-7:2x4 SPF WEBS

BRACING

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 3-6-11 oc purlins, except end verticals, and

2-0-0 oc purlins (2-8-8 max.): 3-6. Rigid ceiling directly applied or 6-9-14 oc

bracing

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

Max Horiz 15=-18 (LC 6)

Max Uplift 9=-319 (LC 5), 15=-319 (LC 4)

Max Grav 9=1451 (LC 1), 15=1451 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/27, 2-3=-2384/537, 3-4=-3397/806,

4-5=-3392/803, 5-6=-3395/804.

6-7=-2384/537, 7-8=0/27, 2-15=-1399/332,

7-9=-1399/332

BOT CHORD 14-15=-93/303. 13-14=-459/2155.

12-13=-753/3394, 10-12=-461/2155

9-10=-79/303

WEBS 3-14=-10/97, 6-10=-10/97, 2-14=-408/1875,

7-10=-409/1875, 3-13=-328/1421, 6-12=-327/1418, 4-13=-489/226,

4-12=-28/23, 5-12=-478/225

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 319 lb uplift at joint 15 and 319 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 214 lb down and 55 lb up at 3-11-4, and 214 lb down and 55 lb up at 16-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

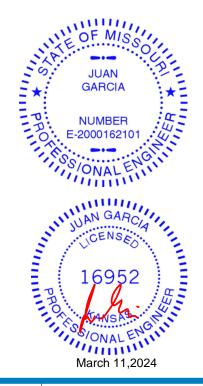
Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 3-6=-70, 6-7=-70, 7-8=-70, 9-15=-20

Concentrated Loads (lb)

Vert: 3=-45 (F), 6=-45 (F), 14=-214 (F), 10=-214 (F), 13=-23 (F), 12=-23 (F), 4=-45 (F), 5=-45 (F), 16=-45 (F), 17=-45 (F), 18=-45 (F), 19=-45 (F), 20=-23 (F), 21=-23 (F), 22=-23 (F), 23=-23 (F)



Page: 1



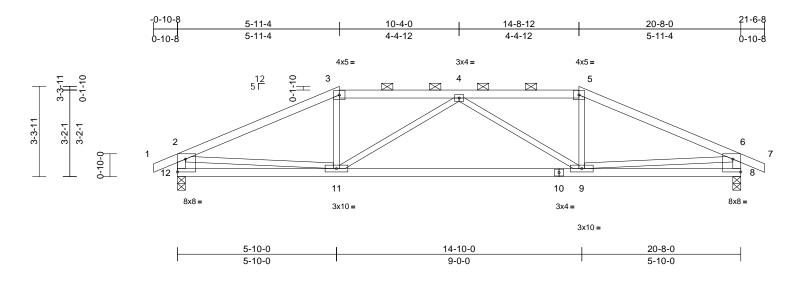
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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



| Job | Truss | Truss Type | Qty | Ply | Lot 123 MN | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 240614 | G2 | Hip | 1 | 1 | Job Reference (optional) | l64131357 |

Run: 8.73 S. Feb 22 2024 Print: 8.730 S. Feb 22 2024 MiTek Industries. Inc. Fri Mar 08 12:19:06 ID:F9lftUW1tB8FXi1ZzloeYxzd_Ye-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:42.3

| Plate Offsets (X, | Y): | [8:Edge,0-5-11], | [12:Edge,0-5-11] |
|-------------------|-----|------------------|------------------|
|-------------------|-----|------------------|------------------|

| | (0 | | 2.2.2 | T | | DEE: | | (1) | 1/1 0 | | D. 4750 | anın |
|-------------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | ın | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | -0.15 | 9-11 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.64 | Vert(CT) | -0.34 | 9-11 | >723 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.32 | Horz(CT) | 0.03 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | Wind(LL) | 0.05 | 9-11 | >999 | 240 | Weight: 73 lb | FT = 10% |

LUMBER

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

2x3 SPF No.2 *Except* 12-2,8-6:2x4 SPF WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-3-7 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-15 max.): 3-5.

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

bracing

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

Max Horiz 12=-29 (LC 13)

Max Uplift 8=-135 (LC 5), 12=-135 (LC 4)

Max Grav 8=988 (LC 1), 12=988 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/27, 2-3=-1533/188, 3-4=-1333/194,

4-5=-1333/194, 5-6=-1533/188, 6-7=0/27,

2-12=-943/157, 6-8=-943/157 **BOT CHORD** 11-12=-163/422, 9-11=-226/1613,

8-9=-136/422

WFBS 3-11=0/310, 4-11=-427/136, 4-9=-427/136,

5-9=0/310, 2-11=-38/932, 6-9=-38/932

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 135 lb uplift at joint 12 and 135 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



Page: 1

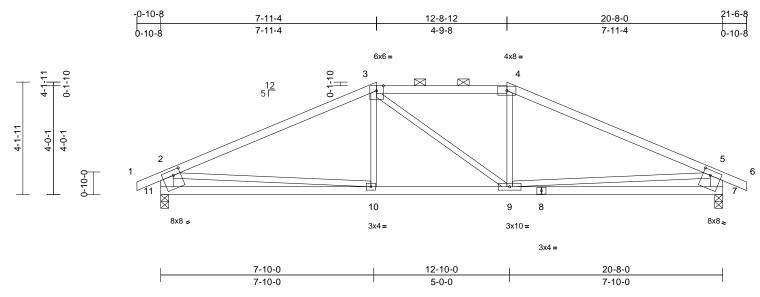
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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



| Job | Truss | Truss Type | Qty | Ply | Lot 123 MN | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 240614 | G3 | Hip | 1 | 1 | Job Reference (optional) | l64131358 |

Run: 8.73 S. Feb 22 2024 Print: 8.730 S. Feb 22 2024 MiTek Industries. Inc. Fri Mar 08 12:19:06 ID:YWgJLtcQDL0Gtn4vujQHKPzd_YX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:42.4

| Plate Offsets (X, Y): | [7:0-3-4,0-2-4], | [11:0-3-4,0-2-4] |
|-----------------------|------------------|------------------|
|-----------------------|------------------|------------------|

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | тс | 0.80 | Vert(LL) | -0.10 | 10-11 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.42 | Vert(CT) | -0.20 | 10-11 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.21 | Horz(CT) | 0.03 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | Wind(LL) | 0.03 | 9-10 | >999 | 240 | Weight: 75 lb | FT = 10% |

LUMBER

BOT CHORD

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

2x3 SPF No.2 *Except* 11-2,7-5:2x6 SPF WEBS

BRACING

Structural wood sheathing directly applied or TOP CHORD

3-4-15 oc purlins, except end verticals, and

2-0-0 oc purlins (5-2-10 max.): 3-4.

Rigid ceiling directly applied or 10-0-0 oc

bracing

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

Max Horiz 11=-42 (LC 13)

Max Uplift 7=-122 (LC 9), 11=-122 (LC 8)

Max Grav 7=987 (LC 1), 11=987 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/30, 2-3=-1404/152, 3-4=-1189/169, TOP CHORD

4-5=-1405/152, 5-6=0/30, 2-11=-911/168,

5-7=-912/167

BOT CHORD 10-11=-276/731, 9-10=-62/1189,

7-9=-237/730

WEBS 3-10=0/221, 3-9=-150/150, 4-9=0/221,

2-10=0/619, 5-9=0/620

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 11 and 122 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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

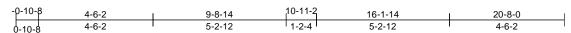
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



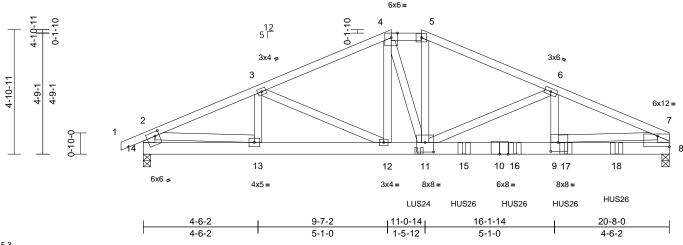
| Job | Truss | Truss Type | Qty | Ply | Lot 123 MN | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 240614 | G4 | Hip Girder | 1 | 2 | Job Reference (optional) | l64131359 |

Run: 8 73 S. Feb 22 2024 Print: 8 730 S. Feb 22 2024 MiTek Industries. Inc. Fri Mar 08 12:19:07 ID:kuMuDSx_dyYHE4DIXbxrTJzd_Y5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1







Scale = 1:45.3

Plate Offsets (X, Y): 7:Edge,0-5-0], [9:0-3-8,0-4-4], [11:0-4-0,0-4-8], [14:0-2-0,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.37 | Vert(LL) | -0.11 | 9-11 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.95 | Vert(CT) | -0.19 | 9-11 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.55 | Horz(CT) | 0.03 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | Wind(LL) | 0.07 | 9-11 | >999 | 240 | Weight: 208 lb | FT = 10% |

LUMBER

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

2x4 SPF No.2 *Except* 14-2,8-7:2x6 SPF WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-9-4 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.

Rigid ceiling directly applied or 10-0-0 oc

bracing

BOT CHORD

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

Max Horiz 14=66 (LC 8)

Max Uplift 8=-540 (LC 9), 14=-292 (LC 8)

Max Grav 8=3844 (LC 1), 14=2028 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/30, 2-3=-3531/484, 3-4=-3607/499,

4-5=-3762/566, 5-6=-4173/582, 6-7=-6450/906, 2-14=-1896/302,

7-8=-3186/473

BOT CHORD 13-14=-159/675. 12-13=-461/3200.

11-12=-393/3292. 9-11=-802/5895.

8-9=-211/1431

WEBS 3-13=-352/117, 3-12=-137/353,

4-12=-550/133, 4-11=-304/1791, 5-11=-197/1354, 6-11=-2343/422,

6-9=-166/1628, 2-13=-304/2545,

7-9=-596/4500

NOTES

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

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

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

- 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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 292 lb uplift at joint 14 and 540 lb uplift at joint 8.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss) or equivalent at 10-10-0 from the left end to connect truss(es) to back face of bottom chord.
- 13) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 12-7-4 from the left end to 18-7-4 to connect truss(es) to back face of bottom chord.
- 14) 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: 1-2=-70, 2-4=-70, 4-5=-70, 5-7=-70, 8-14=-20 Concentrated Loads (lb)

Vert: 11=-404 (B), 15=-882 (B), 16=-897 (B), 17=-897 (B), 18=-897 (B)



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

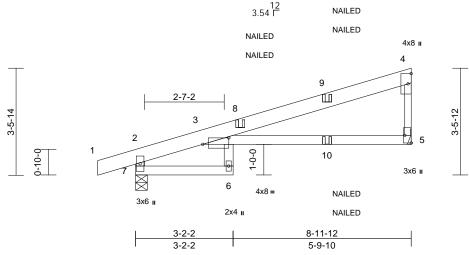


| Job | Truss | Truss Type | Qty | Ply | Lot 123 MN | |
|--------|-------|---------------------|-----|-----|--------------------------|-----------|
| 240614 | J1 | Diagonal Hip Girder | 1 | 1 | Job Reference (optional) | 164131360 |

Run: 8.73 S. Feb 22 2024 Print: 8.730 S. Feb 22 2024 MiTek Industries. Inc. Fri Mar 08 12:19:07 ID:nNIAdfv4K4qgGPmn4VzjJyzitma-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:37.5

Plate Offsets (X, Y): [3:0-10-3,0-2-8], [5:Edge,0-2-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.86 | Vert(LL) | -0.20 | 6 | >532 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.60 | Vert(CT) | -0.37 | 6 | >284 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.02 | Horz(CT) | 0.14 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.19 | 6 | >551 | 240 | Weight: 33 lb | FT = 10% |

LUMBER

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

2x4 SPF No.2 *Except* 4-5:2x3 SPF No.2 WEBS

BRACING

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

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

bracing.

REACTIONS (size) 5= Mechanical, 7=0-4-9

> Max Horiz 7=123 (LC 22) Max Uplift 5=-86 (LC 8), 7=-120 (LC 4)

Max Grav 5=471 (LC 1), 7=546 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension TOP CHORD

2-7=-521/141, 1-2=0/27, 2-3=-154/18,

3-4=-177/20, 4-5=-338/129

BOT CHORD 6-7=-50/0, 3-5=-22/104

WFBS 3-6=0/78

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 120 lb uplift at joint 7 and 86 lb uplift at joint 5.

- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- "NAILED" indicates 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

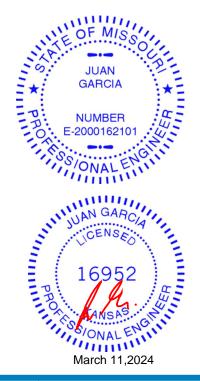
Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-4=-70, 6-7=-20, 3-5=-20

Concentrated Loads (lb)

Vert: 8=0 (F=0, B=0), 9=-44 (F=-22, B=-22), 10=-72

(F=-36, B=-36)





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

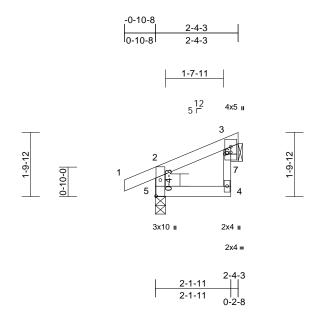
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Lot 123 MN | |
|--------|-------|-------------|-----|-----|--------------------------|-----------|
| 240614 | J2 | Jack-Closed | 2 | 1 | Job Reference (optional) | 164131361 |

Run: 8.73 S. Feb 22 2024 Print: 8.730 S. Feb 22 2024 MiTek Industries. Inc. Fri Mar 08 12:19:07 ID:QPxHayrxVYCO9etqHyNYcvzitmf-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:32.7

Plate Offsets (X, Y): [5:0-5-8,0-1-8], [6:0-2-0,0-0-9]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|----------|------|-------|--------|-----|--------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.07 | Vert(LL) | 0.00 | 4-5 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.02 | Vert(CT) | 0.00 | 4-5 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.00 | 4 | >999 | 240 | Weight: 8 lb | FT = 10% |

LUMBER

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

2x4 SPF No.2 *Except* 3-4:2x3 SPF No.2 WEBS

2x3 SPF No.2 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-4-3 oc purlins, except end verticals. BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 5=57 (LC 5)

Max Uplift 5=-36 (LC 4), 7=-21 (LC 8) Max Grav 5=184 (LC 1), 7=58 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-162/51, 1-2=0/27, 2-3=-50/5, 4-6=0/36,

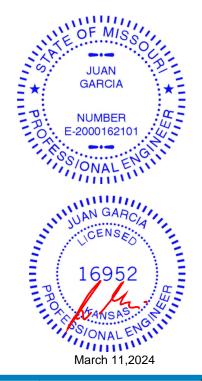
3-6=-21/28 BOT CHORD 4-5=-20/16 WEBS 3-7=-26/3

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 5 and 21 lb uplift at joint 7.

This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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

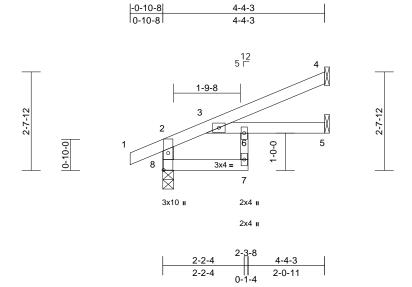
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Lot 123 MN | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 240614 | J3 | Jack-Open | 2 | 1 | Job Reference (optional) | 164131362 |

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 08 12:19:07 ID:QPxHayrxVYCO9etqHyNYcvzitmf-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:30.9

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.21 | Vert(LL) | -0.02 | 3-6 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.18 | Vert(CT) | -0.04 | 6 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.01 | Horz(CT) | 0.03 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | Wind(LL) | 0.02 | 3-6 | >999 | 240 | Weight: 14 lb | FT = 10% |

LUMBER

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

2x4 SPF No.2 *Except* 7-6:2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-4-3 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 8=77 (LC 8)

Max Uplift 4=-56 (LC 8), 8=-28 (LC 8) Max Grav 4=121 (LC 1), 5=84 (LC 3), 8=280

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-269/55, 1-2=0/27, 2-3=-82/0, 3-4=-40/38

7-8=0/0, 3-6=0/0, 5-6=0/0 **BOT CHORD**

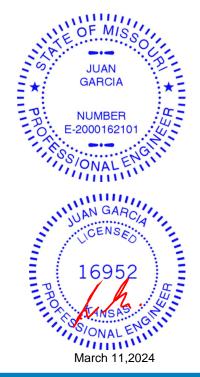
WFBS 6-7=-2/46

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 8 and 56 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





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 | Lot 123 MN | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 240614 | J4 | Jack-Open | 4 | 1 | Job Reference (optional) | 164131363 |

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 08 12:19:07 ID:FZJYq?vi5OyXtZLzeCUys9zitmZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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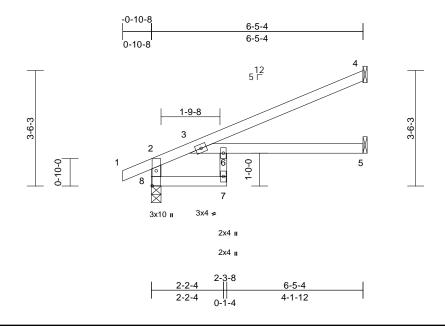


Plate Offsets (X, Y): [8:0-5-8,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.56 | Vert(LL) | -0.09 | 5-6 | >814 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.46 | Vert(CT) | -0.19 | 5-6 | >392 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.02 | Horz(CT) | 0.11 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | Wind(LL) | 0.11 | 5-6 | >682 | 240 | Weight: 19 lb | FT = 10% |

LUMBER

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

2x4 SPF No.2 *Except* 7-6:2x3 SPF No.2 WEBS

BRACING

Structural wood sheathing directly applied or TOP CHORD 6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 8=112 (LC 8)

Max Uplift 4=-87 (LC 8), 8=-36 (LC 8) 4=188 (LC 1), 5=120 (LC 3), 8=373 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-375/73, 1-2=0/27, 2-3=-125/0,

3-4=-70/58

BOT CHORD 7-8=0/0, 3-6=0/0, 5-6=0/0

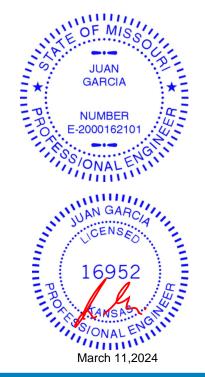
WEBS 6-7=-13/52

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 8 and 87 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





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 | Lot 123 MN | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 240614 | J5 | Jack-Open | 21 | 1 | Job Reference (optional) | 164131364 |

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 08 12:19:07 ID:QPxHayrxVYCO9etqHyNYcvzitmf-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

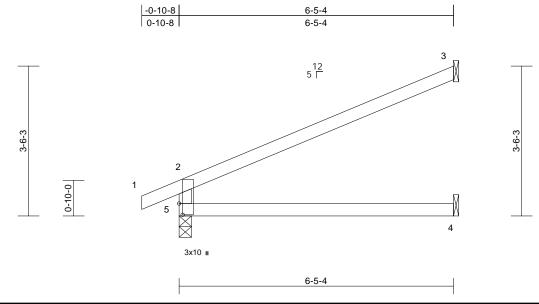


Plate Offsets (X, Y): [5:0-3-3,0-1-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.63 | Vert(LL) | -0.07 | 4-5 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.38 | Vert(CT) | -0.16 | 4-5 | >476 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.06 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.08 | 4-5 | >987 | 240 | Weight: 17 lb | FT = 10% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

Max Horiz 5=112 (LC 8)

Max Uplift 3=-99 (LC 8), 5=-45 (LC 8) 3=196 (LC 1), 4=118 (LC 3), 5=358 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-311/104, 1-2=0/27, 2-3=-103/59

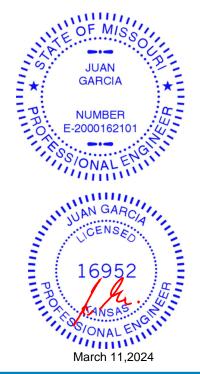
BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 5 and 99 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





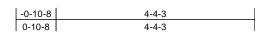
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

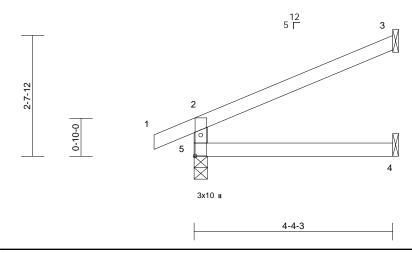
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Lot 123 MN | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 240614 | J6 | Jack-Open | 4 | 1 | Job Reference (optional) | 164131365 |

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 08 12:19:07 ID:ucVfnHrZGsKEnoS0rfvn96zitme-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:25.2

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.25 | Vert(LL) | -0.01 | 4-5 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.15 | Vert(CT) | -0.03 | 4-5 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.02 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.02 | 4-5 | >999 | 240 | Weight: 12 lb | FT = 10% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-4-3 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-3-8 Max Horiz 5=77 (LC 8)

Max Uplift 3=-67 (LC 8), 5=-36 (LC 8) 3=128 (LC 1), 4=78 (LC 3), 5=267 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-233/75, 1-2=0/27, 2-3=-69/38

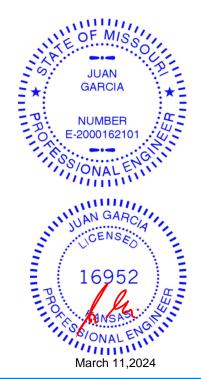
BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 5 and 67 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



Page: 1

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

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



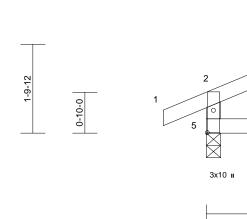
| Job | Truss | Truss Type | Qty | Ply | Lot 123 MN | |
|--------|-------|------------|-----|-----|--------------------------|----------|
| 240614 | J7 | Jack-Open | 4 | 1 | Job Reference (optional) | 64131366 |

Run: 8.73 S. Feb 22 2024 Print: 8.730 S. Feb 22 2024 MiTek Industries. Inc. Fri Mar 08 12:19:07 ID:ucVfnHrZGsKEnoS0rfvn96zitme-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

3

1-9-12

| -0-10-8 | 2-4-3 |
|---------|-------|
| 0-10-8 | 2-4-3 |



Scale = 1:23.5

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

| | | | | | - | | - | | | | | |
|-------------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|--------------|----------|
| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.17 | Vert(LL) | -0.05 | 4 | >544 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.18 | Vert(CT) | -0.09 | 4 | >271 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.01 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.02 | 4 | >999 | 240 | Weight: 7 lb | FT = 10% |

2-4-3

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-4-3 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 5=46 (LC 5)

Max Uplift 3=-31 (LC 8), 5=-30 (LC 4) Max Grav 3=81 (LC 1), 5=185 (LC 1)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-141/57, 1-2=0/27, 2-3=-26/25

BOT CHORD 4-5=0/0

NOTES

FORCES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 5 and 31 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



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March 11,2024

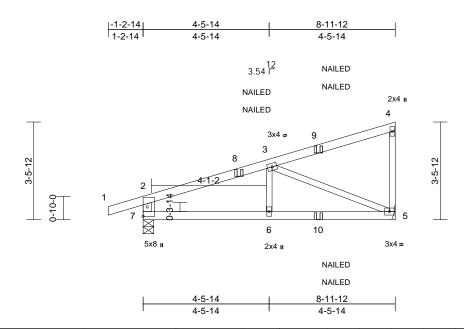
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 | Lot 123 MN | |
|--------|-------|---------------------|-----|-----|--------------------------|-----------|
| 240614 | J8 | Diagonal Hip Girder | 2 | 1 | Job Reference (optional) | 164131367 |

Run: 8 73 S. Feb 22 2024 Print: 8 730 S. Feb 22 2024 MiTek Industries. Inc. Fri Mar 08 12:19:07 ID:FZJYq?vi5OyXtZLzeCUys9zitmZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:41

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.55 | Vert(LL) | -0.04 | 5-6 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.39 | Vert(CT) | -0.07 | 5-6 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.34 | Horz(CT) | 0.01 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | Wind(LL) | 0.03 | 5-6 | >999 | 240 | Weight: 30 lb | FT = 10% |

LUMBER

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

2x3 SPF No.2 *Except* 7-2:2x4 SPF 2100F WEBS

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) 5= Mechanical, 7=0-4-9

Max Horiz 7=143 (LC 5)

Max Uplift 5=-105 (LC 8), 7=-130 (LC 4)

Max Grav 5=463 (LC 1), 7=541 (LC 1) (lb) - Maximum Compression/Maximum

FORCES

TOP CHORD 2-7=-466/144, 1-2=0/27, 2-3=-654/109,

3-4=-120/30, 4-5=-161/71 **BOT CHORD** 6-7=-158/569, 5-6=-158/569 3-6=0/193, 3-5=-596/151

WEBS

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 7 and 105 lb uplift at joint 5.

- 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.
- "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

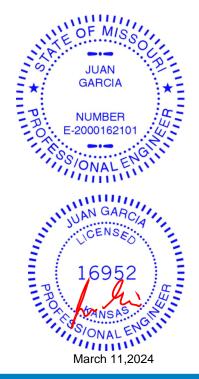
Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-4=-70, 5-7=-20

Concentrated Loads (lb)

Vert: 8=-22 (F=-11, B=-11), 9=-59 (F=-29, B=-29),

10=-42 (F=-21, B=-21)



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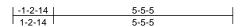
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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



| Job | Truss | Truss Type | Qty | Ply | Lot 123 MN | |
|--------|-------|---------------------|-----|-----|--------------------------|-----------|
| 240614 | J9 | Diagonal Hip Girder | 2 | 1 | Job Reference (optional) | 164131368 |

Run: 8 73 S. Feb 22 2024 Print: 8 730 S. Feb 22 2024 MiTek Industries. Inc. Fri Mar 08 12:19:07 ID:3zToITZTTwBTZZVOrfu7rHzd_Zt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



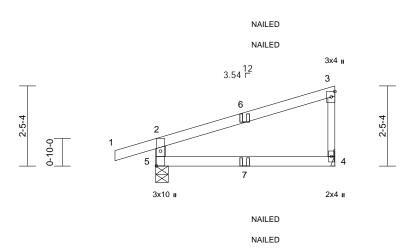


Plate Offsets (X, Y): [5:0-5-6,0-1-8]

| 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 | 0.38 | Vert(LL) | -0.03 | 4-5 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.24 | Vert(CT) | -0.06 | 4-5 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.00 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.01 | 4-5 | >999 | 240 | Weight: 16 lb | FT = 10% |

5-5-5

LUMBER

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

2x4 SPF No.2 *Except* 3-4:2x3 SPF No.2 WEBS

BRACING

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

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

bracing.

REACTIONS (size) 4= Mechanical, 5=0-4-9

Max Horiz 5=98 (LC 7)

Max Uplift 4=-48 (LC 8), 5=-102 (LC 4)

Max Grav 4=219 (LC 1), 5=342 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 2-5=-302/140, 1-2=0/27, 2-3=-126/14,

3-4=-158/71 BOT CHORD 4-5=-26/49

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 5 and 48 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- "NAILED" indicates 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

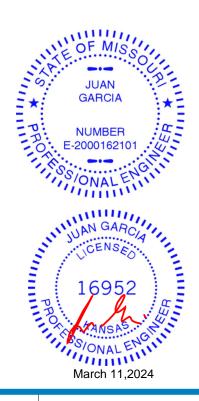
Dead + Roof Live (balanced): Lumber Increase=1.15,

Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 4-5=-20

Concentrated Loads (lb)

Vert: 7=4 (F=2, B=2)



Page: 1

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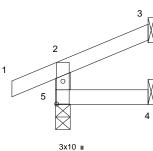
| Job | Truss | Truss Type | Qty | Ply | Lot 123 MN | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 240614 | J10 | Jack-Open | 4 | 1 | Job Reference (optional) | 164131369 |

Run: 8 73 S. Feb 22 2024 Print: 8 730 S. Feb 22 2024 MiTek Industries. Inc. Fri Mar 08 12:19:08 ID:QflGnNQyIEgA6ja487gIMlzd_a3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

12 5 Г







1-10-3

Scale = 1:23

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|----------|------|-------|--------|-----|--------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.07 | Vert(LL) | 0.00 | 4-5 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.02 | Vert(CT) | 0.00 | 4-5 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.00 | 4-5 | >999 | 240 | Weight: 6 lb | FT = 10% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-10-3 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

Max Horiz 5=41 (LC 5)

Max Uplift 3=-28 (LC 8), 5=-32 (LC 4) 3=41 (LC 1), 4=30 (LC 3), 5=169 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-148/46, 1-2=0/27, 2-3=-31/11

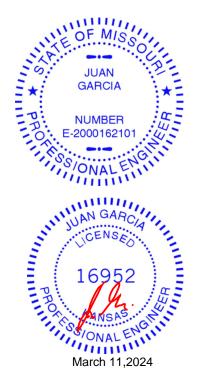
BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 5 and 28 lb uplift at joint 3.

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



Page: 1



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

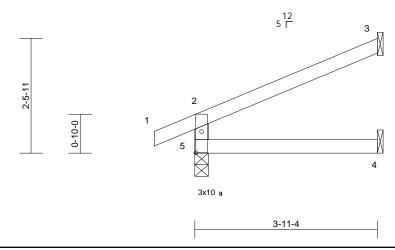
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Lot 123 MN | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 240614 | J11 | Jack-Open | 8 | 1 | Job Reference (optional) | 164131370 |

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 08 12:19:08 ID:urJe_jRa3Yo1kt9GirBXvyzd_a2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:24.9

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.20 | Vert(LL) | -0.01 | 4-5 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.12 | Vert(CT) | -0.02 | 4-5 | >999 | 240 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.01 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-R | | Wind(LL) | 0.01 | 4-5 | >999 | 240 | Weight: 11 lb | FT = 10% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-4 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 5=70 (LC 8)

Max Uplift 3=-61 (LC 8), 5=-34 (LC 8) 3=115 (LC 1), 4=70 (LC 3), 5=249 Max Grav

(LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-218/70, 1-2=0/27, 2-3=-63/34

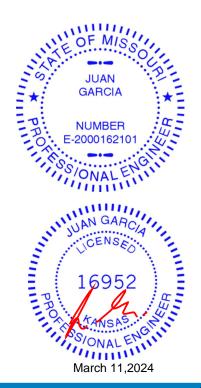
BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 5 and 61 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



Page: 1

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

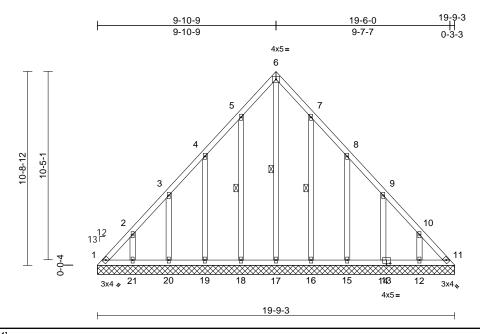
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Lot 123 MN | |
|--------|-------|--------------|-----|-----|--------------------------|-----------|
| 240614 | LAY1 | Lay-In Gable | 1 | 1 | Job Reference (optional) | 164131371 |

Run: 8.73 F. Jan. 4.2024 Print: 8.730 F. Jan. 4.2024 MiTek Industries. Inc. Mon.Mar.11.09:44:14 ID:ucVfnHrZGsKEnoS0rfvn96zitme-G_Y6NBzANewp3Wn4mBPuudp78ynEhKft_JwwEvzc2H0

Page: 1



Scale = 1:63.8

| Plate Offsets | (X, | Y): | [13:0-2-8, | 0-1-4 |
|---------------|-----|-----|------------|-------|
|---------------|-----|-----|------------|-------|

| 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) | n/a | - | n/a | 999 | MT20 | 197/144 |
| 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 | 0.11 | Horiz(TL) | 0.01 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 110 lb | FT = 10% |

LUMBER TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x4 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.

WEBS 1 Row at midpt 5-18, 7-16, 6-17

REACTIONS (lb/size) 1=79/19-9-3, 11=79/19-9-3,

12=182/19-9-3, 14=180/19-9-3, 15=180/19-9-3, 16=183/19-9-3, 17=116/19-9-3, 18=183/19-9-3,

19=180/19-9-3, 20=180/19-9-3, 21=182/19-9-3

Max Horiz 1=-277 (LC 4)

Max Uplift 1=-133 (LC 6), 11=-88 (LC 7), 12=-131 (LC 9), 14=-128 (LC 9),

15=-135 (LC 9), 16=-121 (LC 9), 18=-124 (LC 8), 19=-134 (LC 8), 20=-128 (LC 8), 21=-131 (LC 8)

Max Grav 1=272 (LC 8), 11=242 (LC 9),

12=207 (LC 16), 14=205 (LC 16), 15=206 (LC 16), 16=209 (LC 16), 17=255 (LC 9), 18=212 (LC 15),

19=205 (LC 15), 20=205 (LC 15), 21=207 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-386/241, 2-3=-262/193, 3-4=-170/143, 4-5=-143/144, 5-6=-114/207, 6-7=-89/185, 7-8=-96/102, 8-9=-123/82, 9-10=-221/131,

10-11=-345/179

BOT CHORD 1-21=-123/260, 20-21=-123/260, 19-20=-123/260, 18-19=-123/260,

17-18=-123/260, 16-17=-123/260, 15-16=-123/260, 14-15=-123/260, 13-14=-123/260, 12-13=-123/260,

11-12=-123/260

WFBS 2-21=-162/148, 3-20=-166/154, 4-19=-164/158, 5-18=-173/148,

10-12=-162/149, 9-14=-166/153 8-15=-166/159, 7-16=-169/145, 6-17=-232/33

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 133 lb uplift at joint 1, 88 lb uplift at joint 11, 131 lb uplift at joint 21, 128 lb uplift at joint 20, 134 lb uplift at joint 19, 124 lb uplift at joint 18, 131 lb uplift at joint 12, 128 lb uplift at joint 14, 135 lb uplift at joint 15 and 121 lb uplift at joint 16.

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

LOAD CASE(S) Standard



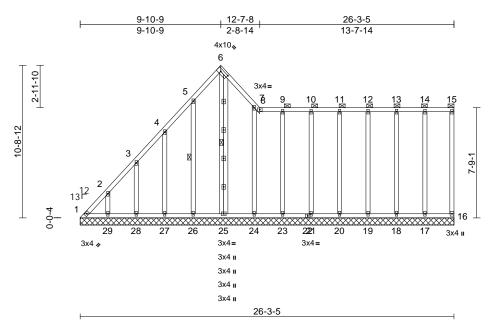
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 | Lot 123 MN | |
|--------|-------|--------------|-----|-----|--------------------------|-----------|
| 240614 | LAY2 | Lay-In Gable | 1 | 1 | Job Reference (optional) | 164131372 |

Run: 8.73 F. Jan. 4.2024 Print: 8.730 F. Jan. 4.2024 MiTek Industries. Inc. Mon.Mar.11.09:44:24 ID:ucVfnHrZGsKEnoS0rfvn96zitme-R5jGhy64n0JFtC7Bw_5TrxmxFOWxmHGVWW4?6mzc2Gr



| Plate Offsets (X, Y): | Plate Offsets (X, Y): [6:0-6-10,0-2-0], [22:0-1-14,0-1-8] | | | | | | | | | | | | |
|-----------------------|---|-----------------|-----------------|----------|------|-----------|------|-------|--------|-----|----------------|----------|--|
| 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 | 0.26 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 | |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.11 | Vert(TL) | n/a | - | n/a | 999 | | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.25 | Horiz(TL) | 0.00 | 16 | n/a | n/a | | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 177 lb | FT = 10% | |

| BCLL BCDL | |).0*).0 | Rep Stress Incr Code | YES | 2018/TPI2014 | | WB Matrix-S | 0.25 | Horiz(TL) | 0.0 |
|--|--|--|--|------|---|---|---|---|---|-------------------|
| BCDL | |).0 | Code | IKCZ | | | | | | |
| LUMBER TOP CHORD BOT CHORD WEBS OTHERS | | | | | TOP CHORD | 4 7 1 | -2=-432/326, 2 -5=-281/233, 5 -8=-90/65, 8-9 0-11=-105/80, 2-13=-105/80, 4-15=-105/80, | 5-6=-235/21 =-105/80, 9 11-12=-109 13-14=-109 | 0, 6-7=-209/ 1-10=-105/80, 5/80, 5/80, | 183, |
| BRACING TOP CHORD | 6-0-0 oc purlin | s, ex | athing directly applied cept end verticals, and -0 max.): 8-15. | | BOT CHORD | 2 | -29=-113/88, 2 26-27=-113/88, 24-25=-107/81, | 28-29=-113/ 25-26=-113 23-24=-10 | /88, 27-28=-1 3/88, 7/81, | 13/88 |
| BOT CHORD | Rigid ceiling di bracing. | rectly | applied or 10-0-0 oc | | | 2 | 22-23=-107/81, 20-21=-107/81, | 19-20=-10 | 7/81, | |
| WEBS REACTIONS | 17=' 19=' 21=' 24=' 26=' 28=' Max Horiz 1=:1 17=- 19=- 21=- 21=- 24=- 21=- 24=- 19=- 24=- 19=- 21=- 24=- 19=- 24=- 19=- 24=- 19=- 24=- 19=- 24=- 19=- 24=- 19=- 19=- 19=- 19=- 19=- 19=- 19=- 19 | 9/26-3 191/2 180/2 181/2 206/2 179/2 180/2 73 (LC 36 (L 31 (L 32 (L 38 (L | 5-26, 6-25 k-5, 16=71/26-3-5, 6-3-5, 18=179/26-3-5, 6-3-5, 20=180/26-3-5, 6-3-5, 25=181/26-3-5, 6-3-5, 27=181/26-3-5, 6-3-5, 29=182/26-3-5 C 6), 16=-18 (LC 5), C 9), 18=-38 (LC 5), C 9), 20=-34 (LC 5), C 9), 23=-25 (LC 5), LC 4), 25=-204 (LC 7, LC 8), 27=-133 (LC 8) |), | this design 2) Wind: ASC Vasd=91m II; Exp C; I cantilever | 1 2 4 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 8-19=-107/81, 6-17=-107/81, 2-29=-162/148, 1-27=-165/157, 3-25=-273/248, 4-17=-148/92, 0-21=-141/62, roof live loads I 7-16; Vult=115; TCDL=6.0psiclosed; MWFR and right expe | 3-28=-166/ 5-26=-169/ 7-24=-235/ 13-18=-13: 11-20=-14/ 9-23=-135/ nave been of the comph (3-sec f; BCDL=6.6 S (enveloped sed; end v | 1154, 149, 1362, 13757, 149 considered fo cond gust) 1395; h=25ft; (2) 149 exterior zor rertical left an | Cat. ne; nd |

FORCES

Max Grav

28=205 (LC 15), 29=207 (LC 15) (lb) - Maximum Compression/Maximum Tension

28=-129 (LC 8), 29=-131 (LC 8)

17=191 (LC 22), 18=179 (LC 1),

19=180 (LC 22), 20=180 (LC 1),

21=181 (LC 22), 23=174 (LC 1),

24=276 (LC 16), 25=299 (LC 4),

26=211 (LC 15), 27=205 (LC 15),

1=316 (LC 5), 16=71 (LC 1),

- right exposed; 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.
- Provide adequate drainage to prevent water ponding. All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing. 6)
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

Page: 1

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. F. W./S.
 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 196 lb uplift at joint 1, 18 lb uplift at joint 16, 131 lb oplift at joint 29, 129 lb uplift at joint 28, 133 lb uplift at joint 27, 124 lb uplift at joint 26, 204 lb uplift at joint 25, 116 lb uplift at joint 24, 31 lb uplift at joint 27, 38 lb uplift at joint 19, 34 lb uplift at joint 20, 38 lb uplift at joint 21 and 25 lb uplift at joint 23.
 This truss is designed in accordance with the 2018 International Residential Code sections R502 M.1 and R802.10.2 and referenced standard AN SI/TPI 1.
 Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or

 - or the orientation of the purlin along the top and/or bottom chord.

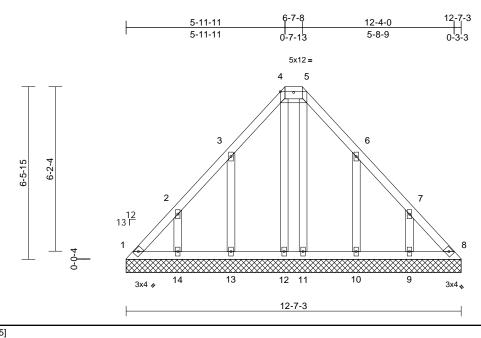
LOAD CASE(S) Standard





| Job | Truss | Truss Type | Qty | Ply | Lot 123 MN | |
|--------|-------|--------------|-----|-----|--------------------------|-----------|
| 240614 | LAY4 | Lay-In Gable | 1 | 1 | Job Reference (optional) | l64131373 |

Run: 8 73 S. Feb 22 2024 Print: 8 730 S. Feb 22 2024 MiTek Industries. Inc. Fri Mar 08 12:19:08 ID:FL9NA2v1tXiUwsemUXOh_Azd_ZR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:43.3

| Plate Offsets | (X, | Y): | [4:0-6-0,0-0-5 |
|---------------|-----|-----|----------------|
|---------------|-----|-----|----------------|

| 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 | 0.05 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.03 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.06 | Horiz(TL) | 0.00 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 60 lb | FT = 10% |

2x4 SPF No.2 *Except* 4-5:2x6 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SPF No.2

2x4 SPF No.2 OTHERS

BRACING

BOT CHORD

Structural wood sheathing directly applied or TOP CHORD

6-0-0 oc purlins, except

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

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=12-7-3, 8=12-7-3, 9=12-7-3,

10=12-7-3, 11=12-7-3, 12=12-7-3, 13=12-7-3, 14=12-7-3

Max Horiz 1=-164 (LC 4)

Max Uplift 1=-63 (LC 6), 8=-29 (LC 7), 9=-130

(LC 9), 10=-135 (LC 9), 12=-18 (LC 5), 13=-136 (LC 8), 14=-130 (LC 8)

Max Grav 1=132 (LC 17), 8=115 (LC 18),

9=204 (LC 16), 10=218 (LC 16), 11=111 (LC 17), 12=127 (LC 18),

13=219 (LC 15), 14=204 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-188/145, 2-3=-129/99, 3-4=-104/144,

4-5=-31/117, 5-6=-85/119, 6-7=-94/54,

7-8=-158/99

1-14=-68/133, 13-14=-68/133, BOT CHORD

12-13=-68/133, 11-12=-68/133,

10-11=-68/133, 9-10=-68/133, 8-9=-68/133 WEBS 2-14=-159/148, 3-13=-178/162,

4-12=-102/41, 7-9=-160/148, 6-10=-177/162

5-11=-85/8

NOTES

TOP CHORD

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=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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. Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated. 5)
- 6) Gable requires continuous bottom chord bearing.
- 7) 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SPF No.2.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 1, 29 lb uplift at joint 8, 130 lb uplift at joint 14, 136 lb uplift at joint 13, 18 lb uplift at joint 12, 130 lb uplift at joint 9 and 135 lb uplift at joint 10.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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



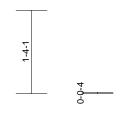
Ply Qty Job Truss Truss Type Lot 123 MN 164131374 240614 V1 Valley Job Reference (optional)

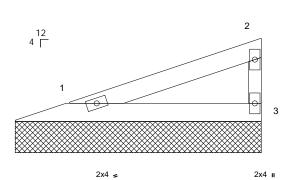
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 08 12:19:08 ID:ucVfnHrZGsKEnoS0rfvn96zitme-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1









| | 3-11-6 |
|---|--------|
| ı | |

Scale = 1:18.5

| 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 | 0.15 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.08 | 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: 9 lb | FT = 10% |

LUMBER

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

BRACING

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

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

bracing.

REACTIONS (size) 1=3-11-6, 3=3-11-6

Max Horiz 1=45 (LC 5)

Max Uplift 1=-22 (LC 4), 3=-28 (LC 8) Max Grav 1=133 (LC 1), 3=133 (LC 1) (lb) - Maximum Compression/Maximum

FORCES

Tension 1-2=-40/27, 2-3=-104/46

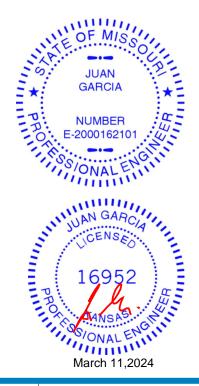
TOP CHORD BOT CHORD 1-3=-14/11

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 1 and 28 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





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

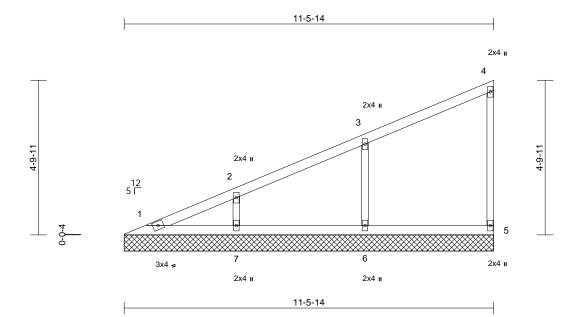
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Lot 123 MN | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 240614 | V2 | Valley | 1 | 1 | Job Reference (optional) | 164131375 |

Run: 8 73 S. Feb 22 2024 Print: 8 730 S. Feb 22 2024 MiTek Industries. Inc. Fri Mar 08 12:19:08 ID:ucVfnHrZGsKEnoS0rfvn96zitme-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



| Saala | _ | 1:35.8 | |
|-------|---|--------|--|
| | | | |

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|-----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.20 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.11 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.08 | Horiz(TL) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 33 lb | FT = 10% |

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 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) 1=11-5-14, 5=11-5-14, 6=11-5-14,

7=11-5-14 Max Horiz 1=195 (LC 5)

Max Uplift 5=-28 (LC 5), 6=-106 (LC 8), 7=-88

(LC 8)

Max Grav 1=107 (LC 16), 5=141 (LC 1),

6=399 (LC 1), 7=330 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-162/43, 2-3=-128/53, 3-4=-112/37,

4-5=-109/43

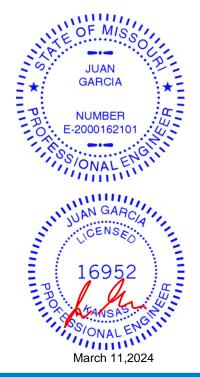
BOT CHORD 1-7=-63/48, 6-7=-63/48, 5-6=-63/48 WEBS 3-6=-312/153, 2-7=-253/131

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 5, 106 lb uplift at joint 6 and 88 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





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

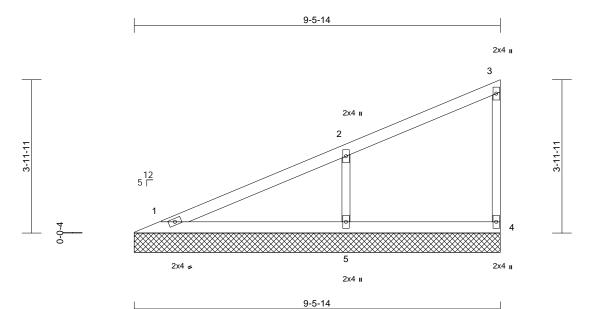
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Lot 123 MN | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 240614 | V3 | Valley | 1 | 1 | Job Reference (optional) | 164131376 |

Run: 8 73 S. Feb 22 2024 Print: 8 730 S. Feb 22 2024 MiTek Industries. Inc. Fri Mar 08 12:19:08 ID:ucVfnHrZGsKEnoS0rfvn96zitme-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



| Scal | le | = | 1 | :29 | 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 | 0.29 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.16 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.07 | Horiz(TL) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 26 lb | FT = 10% |

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 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) 1=9-5-14, 4=9-5-14, 5=9-5-14

Max Horiz 1=159 (LC 7)

Max Uplift 4=-23 (LC 5), 5=-129 (LC 8) 1=172 (LC 1), 4=122 (LC 1), 5=487 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-123/71, 2-3=-106/29, 3-4=-96/39

BOT CHORD 1-5=-51/39. 4-5=-51/39

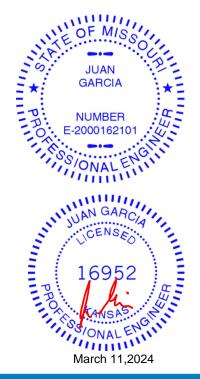
2-5=-370/182 WFBS

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 4 and 129 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



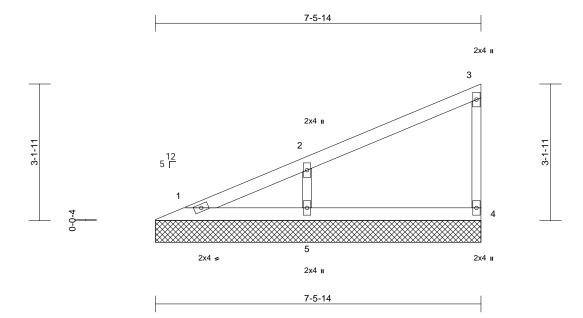
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 | Lot 123 MN | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 240614 | V4 | Valley | 1 | 1 | Job Reference (optional) | 164131377 |

Run: 8 73 S. Feb 22 2024 Print: 8 730 S. Feb 22 2024 MiTek Industries. Inc. Fri Mar 08 12:19:08 ID:ucVfnHrZGsKEnoS0rfvn96zitme-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:26.5

| Loading | (psf) | Spacing | 2-0-0 | csı | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|-----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.19 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.10 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.05 | Horiz(TL) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 20 lb | FT = 10% |

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 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) 1=7-5-14, 4=7-5-14, 5=7-5-14

Max Horiz 1=122 (LC 5)

Max Uplift 4=-26 (LC 8), 5=-102 (LC 8)

1=81 (LC 16), 4=141 (LC 1), 5=384 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-99/52, 2-3=-92/32, 3-4=-109/44

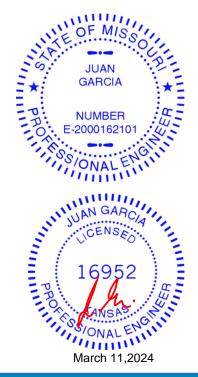
BOT CHORD 1-5=-40/30 4-5=-40/30 2-5=-299/153 WFBS

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 4 and 102 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Page: 1



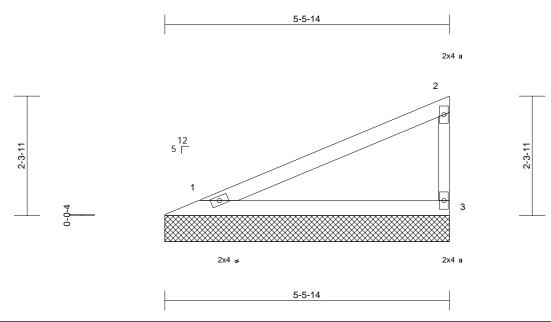
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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



| Job | Truss | Truss Type | Qty | Ply | Lot 123 MN | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 240614 | V5 | Valley | 1 | 1 | Job Reference (optional) | 164131378 |

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 08 12:19:08 ID:ucVfnHrZGsKEnoS0rfvn96zitme-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:22.2

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|-----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.42 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.23 | 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: 14 lb | FT = 10% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-6-8 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=5-5-14, 3=5-5-14

Max Horiz 1=86 (LC 5)

Max Uplift 1=-31 (LC 8), 3=-48 (LC 8) Max Grav 1=211 (LC 1), 3=211 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-76/51, 2-3=-164/76

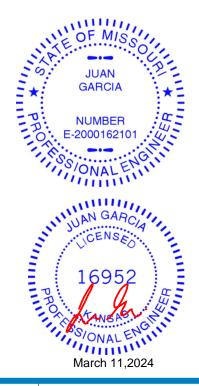
BOT CHORD 1-3=-28/21

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 1 and 48 lb uplift at joint 3.

9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





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

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

besign value for see only with recks confined in the segment of 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)

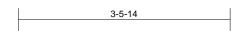


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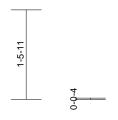
Ply Qty Job Truss Truss Type Lot 123 MN 164131379 240614 V6 Valley Job Reference (optional)

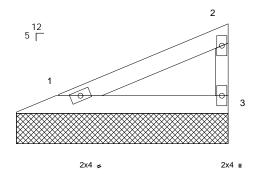
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 08 12:19:08 ID:ucVfnHrZGsKEnoS0rfvn96zitme-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



2x4 II







Page: 1

3-5-14

Scale = 1:19

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|-----------|------|-------|--------|-----|--------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.13 | 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 | 0.00 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 8 lb | FT = 10% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-6-8 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=3-5-14, 3=3-5-14

Max Horiz 1=49 (LC 7)

Max Uplift 1=-18 (LC 8), 3=-28 (LC 8) Max Grav 1=121 (LC 1), 3=121 (LC 1) (lb) - Maximum Compression/Maximum

Tension 1-2=-44/29, 2-3=-94/44

TOP CHORD BOT CHORD 1-3=-16/12

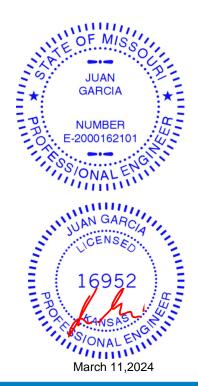
NOTES

FORCES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 1 and 28 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





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

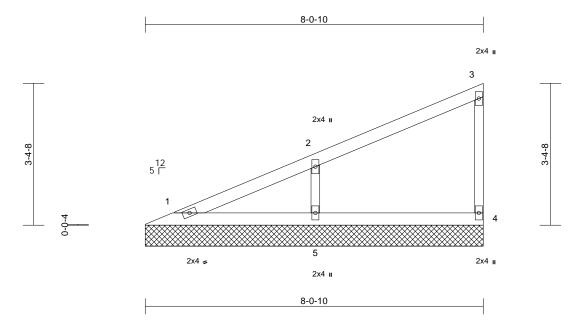
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | SS Truss Type Qty Ply Lot 123 MN | | Lot 123 MN | | |
|--------|-------|----------------------------------|---|------------|--------------------------|-----------|
| 240614 | V10 | Valley | 1 | 1 | Job Reference (optional) | 164131380 |

Run: 8.73 S. Feb 22 2024 Print: 8.730 S. Feb 22 2024 MiTek Industries. Inc. Fri Mar 08 12:19:09 ID:mL0jGGHQ7Y9tgtfmRcSUtDzd_aF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:27.4

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|-----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.21 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.11 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.06 | Horiz(TL) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 21 lb | FT = 10% |

LUMBER

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

(size) REACTIONS 1=8-0-10, 4=8-0-10, 5=8-0-10

Max Horiz 1=132 (LC 5)

Max Uplift 4=-24 (LC 8), 5=-109 (LC 8)

1=106 (LC 1), 4=137 (LC 1), 5=409 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-106/59, 2-3=-95/30, 3-4=-107/42

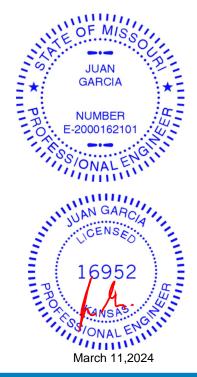
BOT CHORD 1-5=-43/33 4-5=-43/33 2-5=-318/163

WFBS NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 4 and 109 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





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

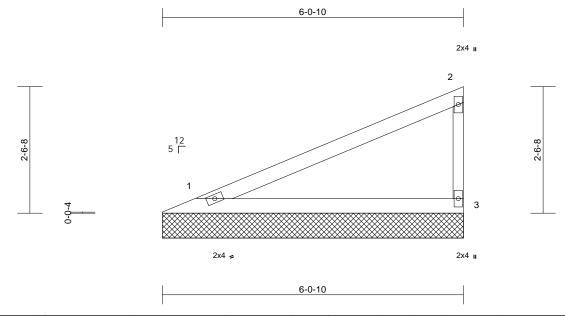
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



| Job | Truss | Truss Type | Qty | Ply | Lot 123 MN | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 240614 | V11 | Valley | 1 | 1 | Job Reference (optional) | 164131381 |

Run: 8.73 S. Feb 22 2024 Print: 8.730 S. Feb 22 2024 MiTek Industries. Inc. Fri Mar 08 12:19:09 ID:BwisulJIQTXRXKOL6k0BVrzd_aC-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:23.2

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|-----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.53 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.29 | 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: 15 lb | FT = 10% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-1-4 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=6-0-10, 3=6-0-10

Max Horiz 1=96 (LC 7)

Max Uplift 1=-34 (LC 8), 3=-54 (LC 8) Max Grav 1=236 (LC 1), 3=236 (LC 1) (lb) - Maximum Compression/Maximum

FORCES

Tension 1-2=-86/57, 2-3=-184/85

TOP CHORD BOT CHORD 1-3=-31/24

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 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





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

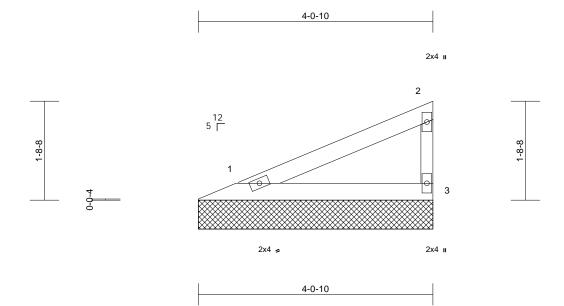


Ply Qty Job Truss Truss Type Lot 123 MN 164131382 240614 V12 Valley Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Fri Mar 08 12:19:09 ID:7JqcJzKZy4n9neYkE92faGzd_aA-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:19.9

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|----------|------|-----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 25.0 | Plate Grip DOL | 1.15 | TC | 0.19 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.10 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | Weight: 10 lb | FT = 10% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-1-4 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size)

Max Horiz 1=60 (LC 5) Max Uplift 1=-21 (LC 8), 3=-33 (LC 8) Max Grav 1=146 (LC 1), 3=146 (LC 1)

1=4-0-10, 3=4-0-10

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-53/35, 2-3=-114/53

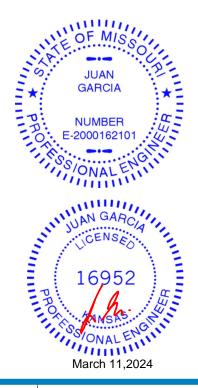
BOT CHORD 1-3=-19/15

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 1 and 33 lb uplift at joint 3.

9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





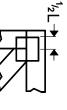
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

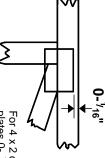


Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- ¹/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

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

PLATE SIZE

4 × 4

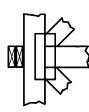
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

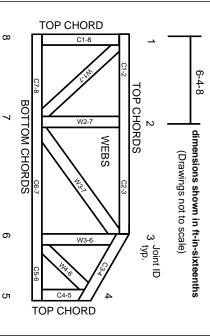
Industry Standards:

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.

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- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 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.