



BY _____

DATE _____

RE: 210382
Lot 49 W2

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

Site Information:

Customer: Project Name: 210382
Lot/Block:

Address:

City:

Model:

Subdivision:

State:

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

Design Code: IRC2018/TPI2014

Wind Code: N/A

Roof Load: 45.0 psf

Design Program: MiTek 20/20 8.4

Wind Speed: 115 mph

Floor Load: N/A psf

This package includes 41 individual, dated Truss Design Drawings and 0 Additional Drawings.

| No. | Seal# | Truss Name | Date | No. | Seal# | Truss Name | Date |
|-----|-----------|------------|-----------|-----|-----------|------------|-----------|
| 1 | I43391944 | A1 | 4/12/2021 | 21 | I43391964 | E6 | 4/12/2021 |
| 2 | I43391945 | A2 | 4/12/2021 | 22 | I43391965 | G1 | 4/12/2021 |
| 3 | I43391946 | B1 | 4/12/2021 | 23 | I43391966 | J1 | 4/12/2021 |
| 4 | I43391947 | B2A | 4/12/2021 | 24 | I43391967 | J2 | 4/12/2021 |
| 5 | I43391948 | C1 | 4/12/2021 | 25 | I43391968 | J3 | 4/12/2021 |
| 6 | I43391949 | C2 | 4/12/2021 | 26 | I43391969 | R1 | 4/12/2021 |
| 7 | I43391950 | C3 | 4/12/2021 | 27 | I43391970 | V1 | 4/12/2021 |
| 8 | I43391951 | C4 | 4/12/2021 | 28 | I43391971 | V2 | 4/12/2021 |
| 9 | I43391952 | C5 | 4/12/2021 | 29 | I43391972 | V3 | 4/12/2021 |
| 10 | I43391953 | C6 | 4/12/2021 | 30 | I43391973 | V4 | 4/12/2021 |
| 11 | I43391954 | C7 | 4/12/2021 | 31 | I43391974 | V5 | 4/12/2021 |
| 12 | I43391955 | C8 | 4/12/2021 | 32 | I43391975 | V6 | 4/12/2021 |
| 13 | I43391956 | C9 | 4/12/2021 | 33 | I43391976 | V7 | 4/12/2021 |
| 14 | I43391957 | D1 | 4/12/2021 | 34 | I43391977 | V8 | 4/12/2021 |
| 15 | I43391958 | D2 | 4/12/2021 | 35 | I43391978 | V9 | 4/12/2021 |
| 16 | I43391959 | E1 | 4/12/2021 | 36 | I43391979 | V10 | 4/12/2021 |
| 17 | I43391960 | E2 | 4/12/2021 | 37 | I43391980 | V11 | 4/12/2021 |
| 18 | I43391961 | E3 | 4/12/2021 | 38 | I43391981 | V12 | 4/12/2021 |
| 19 | I43391962 | E4 | 4/12/2021 | 39 | I43391982 | V13 | 4/12/2021 |
| 20 | I43391963 | E5 | 4/12/2021 | 40 | I43391983 | V14 | 4/12/2021 |

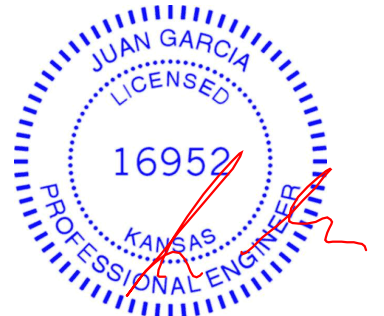
The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision
based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

My license renewal date for the state of Kansas is April 30, 2022.

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.



April 12, 2021



RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

BY _____

DATE _____

RE: 210382 - Lot 49 W2

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

Site Information:

Project Customer: Project Name: 210382

Lot/Block:

Subdivision:

Address:

City, County:

State:

| No. | Seal# | Truss Name | Date |
|-----|-----------|------------|-----------|
| 41 | I43391984 | V15 | 4/12/2021 |



BY _____

DATE _____

RE: 210382
Lot 49 W2

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

Site Information:

Customer: Project Name: 210382
Lot/Block:

Address:

City:

Model:

Subdivision:

State:

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

Design Code: IRC2018/TPI2014

Wind Code: N/A

Roof Load: 45.0 psf

Design Program: MiTek 20/20 8.4

Wind Speed: 115 mph

Floor Load: N/A psf

This package includes 41 individual, dated Truss Design Drawings and 0 Additional Drawings.

| No. | Seal# | Truss Name | Date | No. | Seal# | Truss Name | Date |
|-----|-----------|------------|-----------|-----|-----------|------------|-----------|
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| 6 | I43391949 | C2 | 4/12/2021 | 26 | I43391969 | R1 | 4/12/2021 |
| 7 | I43391950 | C3 | 4/12/2021 | 27 | I43391970 | V1 | 4/12/2021 |
| 8 | I43391951 | C4 | 4/12/2021 | 28 | I43391971 | V2 | 4/12/2021 |
| 9 | I43391952 | C5 | 4/12/2021 | 29 | I43391972 | V3 | 4/12/2021 |
| 10 | I43391953 | C6 | 4/12/2021 | 30 | I43391973 | V4 | 4/12/2021 |
| 11 | I43391954 | C7 | 4/12/2021 | 31 | I43391974 | V5 | 4/12/2021 |
| 12 | I43391955 | C8 | 4/12/2021 | 32 | I43391975 | V6 | 4/12/2021 |
| 13 | I43391956 | C9 | 4/12/2021 | 33 | I43391976 | V7 | 4/12/2021 |
| 14 | I43391957 | D1 | 4/12/2021 | 34 | I43391977 | V8 | 4/12/2021 |
| 15 | I43391958 | D2 | 4/12/2021 | 35 | I43391978 | V9 | 4/12/2021 |
| 16 | I43391959 | E1 | 4/12/2021 | 36 | I43391979 | V10 | 4/12/2021 |
| 17 | I43391960 | E2 | 4/12/2021 | 37 | I43391980 | V11 | 4/12/2021 |
| 18 | I43391961 | E3 | 4/12/2021 | 38 | I43391981 | V12 | 4/12/2021 |
| 19 | I43391962 | E4 | 4/12/2021 | 39 | I43391982 | V13 | 4/12/2021 |
| 20 | I43391963 | E5 | 4/12/2021 | 40 | I43391983 | V14 | 4/12/2021 |

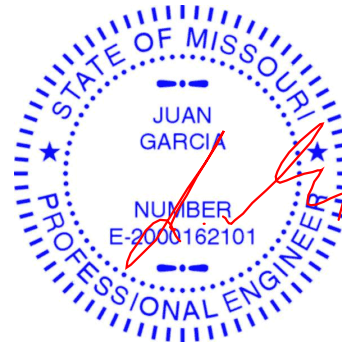
The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision
based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

My license renewal date for the state of Missouri is December 31, 2022.

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.



April 12, 2021



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CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

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DATE _____

RE: 210382 - Lot 49 W2

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

Site Information:

Project Customer: Project Name: 210382

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Subdivision:

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City, County:

State:

| No. | Seal# | Truss Name | Date |
|-----|-----------|------------|-----------|
| 41 | I43391984 | V15 | 4/12/2021 |

Job

210382

Truss

A1

Truss Type

Hip Girder

Qty

1

Ply

1

Lot 49 W2

Wheeler Lumber, Waverly, KS 66871, Mitek

8.420 s Aug 25 2020 Mitek Industries, Inc. Wed Oct 28 14:01:12 2020 Page 1

ID: bDijNJA6?5tiTk6E13KUKZyAkTB-10, TS3vpwLpXj1hdCKPYJj1AryqgUrEYOJPwwyOsa5

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4-0-0

8-0-0

10-0-0

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12-10-8

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4-0-0

2-0-0

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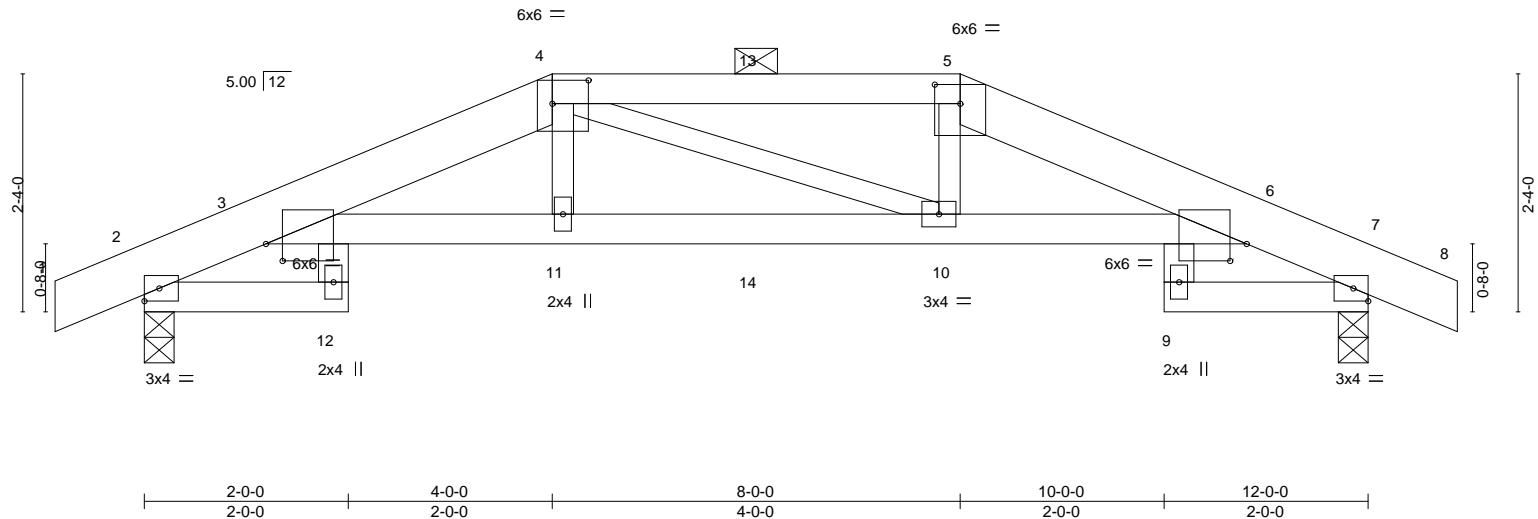
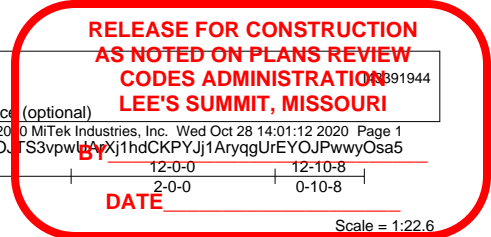
0-10-8

Job Reference (optional)

BY

DATE

Scale = 1:22.6



| Plate Offsets (X,Y)-- | | [3:0-1-15,0-2-0], [4:0-4-4,0-2-12], [5:0-3-0,0-2-4], [6:0-1-15,0-2-0] | |
|-----------------------|----------------------|---|--|
| LOADING (psf) | SPACING- | 2-0-0 | CSI. |
| TCLL 25.0 | Plate Grip DOL 1.15 | TC 0.69 | DEFL. in (loc) l/defl L/d |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.71 | Vert(LL) -0.09 10-11 >999 360 |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.11 | Vert(CT) -0.16 10-11 >881 240 |
| BCDL 10.0 | Code IRC2018/TPI2014 | Matrix-S | Horz(CT) 0.15 7 n/a n/a |
| | | | Wind(LL) 0.08 10-11 >999 240 |
| | | | PLATES MT20 GRIP 197/144 |
| | | | Weight: 45 lb FT = 10% |

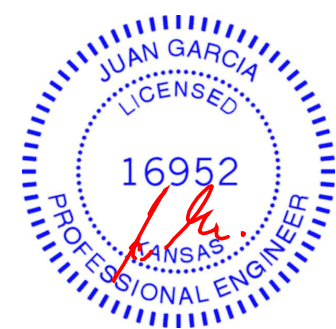
| | |
|--|--|
| LUMBER- | BRACING- |
| TOP CHORD 2x6 SPF No.2 *Except* 4-5: 2x4 SPF No.2 | TOP CHORD Structural wood sheathing directly applied or 3-11-11 oc purlins, except |
| BOT CHORD 2x4 SPF No.2 | 2-0-0 oc purlins (3-9-11 max.): 4-5. |
| WEBS 2x3 SPF No.2 | BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. |

| | |
|-------------------|---|
| REACTIONS. | (lb/size) 2=920/0-3-8, 7=920/0-3-8 Max Horz 2=37(LC 33) Max Uplift 2=-201(LC 8), 7=-201(LC 9) |
|-------------------|---|

| | |
|----------------|--|
| FORCES. | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. |
| TOP CHORD | 2-3=-494/135, 3-4=-2093/498, 4-13=-1999/487, 5-13=-1999/487, 5-6=-2095/497, 6-7=-494/130 |
| BOT CHORD | 3-11=-431/1973, 11-14=-434/1997, 10-14=-434/1997, 6-10=-428/1975 |
| WEBS | 4-11=-45/312, 5-10=-54/333 |

- 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) gable end 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 201 lb uplift at joint 2 and 201 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.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 79 lb down and 55 lb up at 4-0-0, and 84 lb down and 55 lb up at 6-0-0, and 79 lb down and 55 lb up at 8-0-0 on top chord, and 231 lb down and 100 lb up at 4-0-0, and 35 lb down and 24 lb up at 6-0-0, and 231 lb down and 100 lb up at 7-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

| | |
|---|----------|
| LOAD CASE(S) | Standard |
| 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 | |
| Uniform Loads (plf) | |
| Vert: 1-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 6-8=-70, 2-12=-20, 3-6=-20, 7-9=-20 | |



October 28,2020

| | | | | | | |
|--|-------|------------|-----|-----|-----------|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 | |
| 210382 | A1 | Hip Girder | 1 | 1 | | |
| Wheeler Lumber, Waverly, KS 66871, Mitek | | | | | | Job Reference (optional) |

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 4=-39(B) 5=-39(B) 11=-231(B) 10=-231(B) 13=-39(B) 14=-35(B)

8.420 s Aug 25 2020 MiTek Industries, Inc. Wed Oct 28 14:01:12 2020 Page 2
ID:bDijNJA6?5tiTk6E!3KUKZyAkTB-10JTS3vpwUjAXj1hdCKPYJj1AryqgUrEYOJPwwyOsa5

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

DATE

| | | | | | | |
|--------|-------|--------------|-----|-----|-----------|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 | Job Reference (optional) |
| 210382 | A2 | Roof Special | 3 | 1 | | |

Wheeler Lumber, Waverly, KS - 66871,

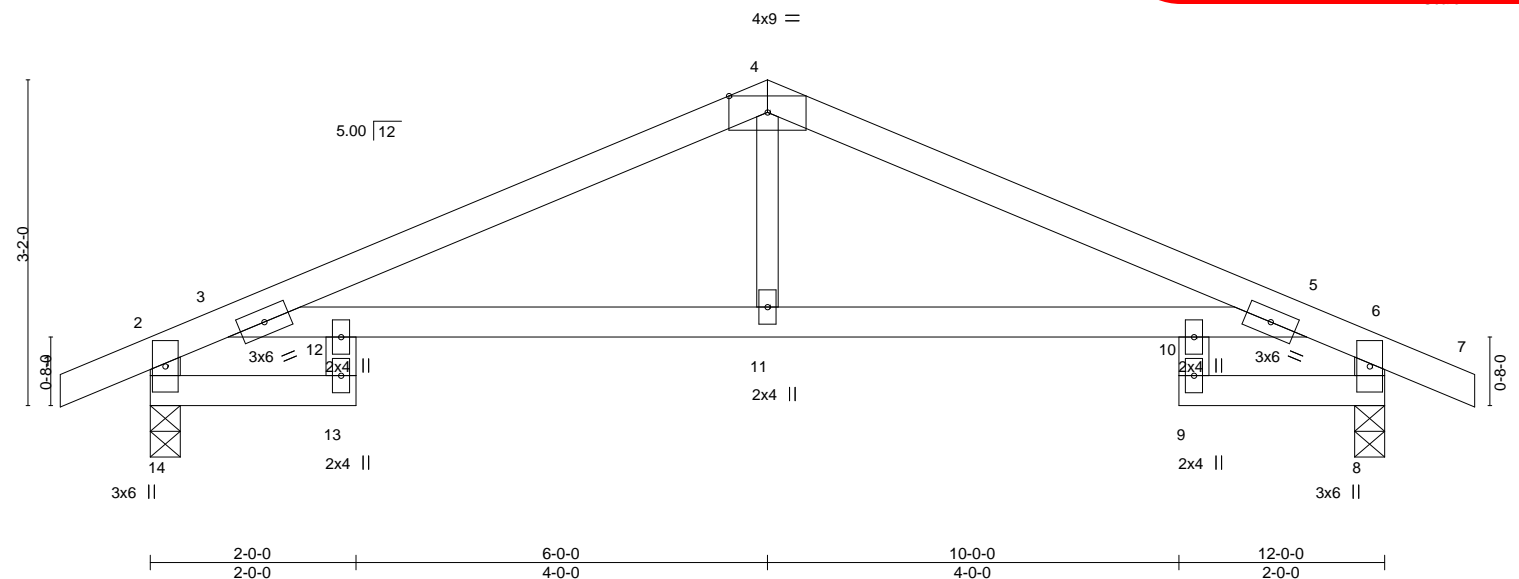
8.420 s Oct 9 2020 MiTek Industries, Inc. Wed Oct 28 10:28:27 2020 Page 1

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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

0-10-8 2-0-0 6-0-0 10-0-0 12-0-0 12-10-8
0-10-8 2-0-0 4-0-0 4-0-0 2-0-0 0-10-8

DATE



| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | I/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|-------------|--------|-----|---------------|----------|
| TCLL 25.0 | Plate Grip DOL | 1.15 | TC 0.49 | Vert(LL) | -0.08 11-12 | >999 | 360 | MT20 | 197/144 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.67 | Vert(CT) | -0.16 11-12 | >888 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.10 | Horz(CT) | 0.15 8 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | Matrix-R | Wind(LL) | 0.07 11-12 | >999 | 240 | | |
| | | | | | | | | Weight: 37 lb | FT = 10% |

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
4-11: 2x3 SPF No.2

BRACING-

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

REACTIONS.

(size) 14=0-3-8, 8=0-3-8
Max Horz 14=-36(LC 9)
Max Uplift 14=-91(LC 8), 8=-91(LC 9)
Max Grav 14=598(LC 1), 8=598(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 3-4=-936/87, 4-5=-936/102, 2-14=-622/117, 6-8=-622/112
BOT CHORD 3-12=-37/824, 11-12=-37/824, 10-11=-37/824, 5-10=-37/824
WEBS 4-11=0/312

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) gable end 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 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.



October 28, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

| | | | | | | |
|--------|-------|------------|-----|-----|--------------------------|--|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 | Release for Construction AS NOTED ON PLANS REVIEW CODES ADMINISTRATION LEE'S SUMMIT, MISSOURI |
| 210382 | B1 | GABLE | 1 | 1 | Job Reference (optional) | 13291946 |

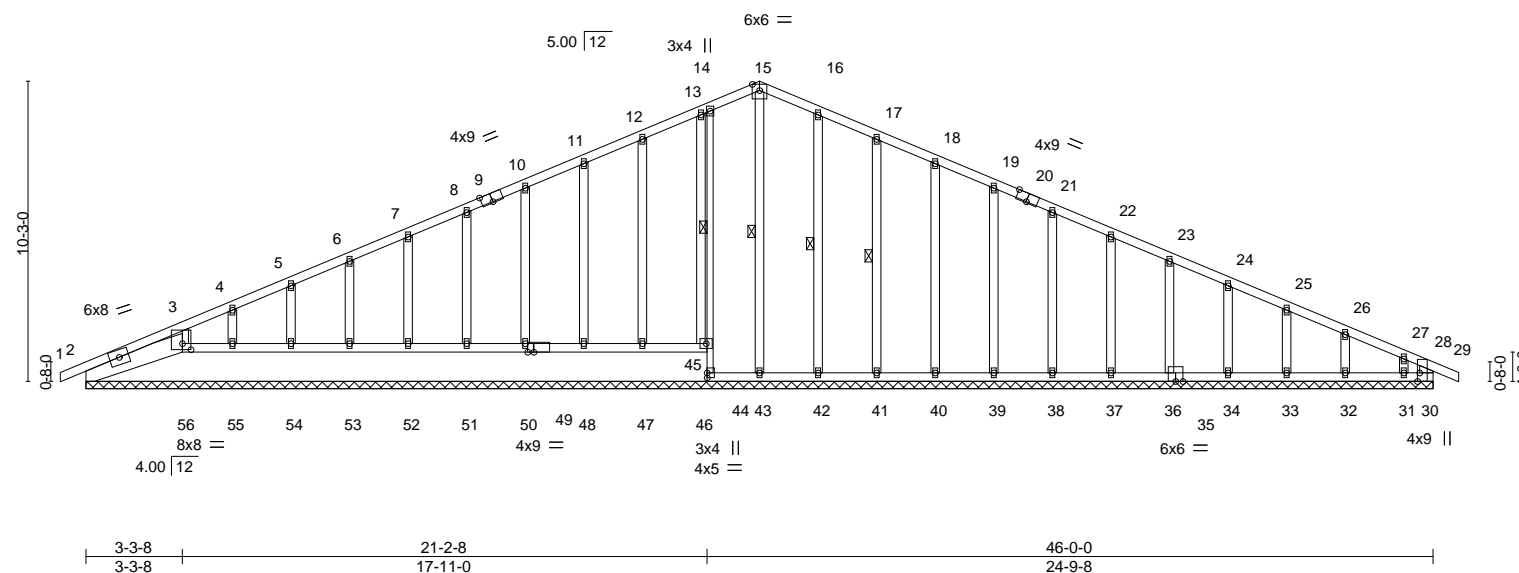
Wheeler Lumber, Waverly, KS - 66871,

8.420 s Oct 9 2020 MiTek Industries, Inc. Wed Oct 28 10:28:29 2020 Page 1

ID: bDijNJA6?5tiTk6EI3KUKZyAkTB-1PED4yKkgaYPKRC3_2SXnMd3y?5en9teiD8YSByOvhW

0-10-8 3-3-8 21-2-8 23-0-0 46-0-0 46-10-8
0-10-8 3-3-8 17-11-0 1-9-8 23-0-0 0-10-8

DATE



| | | | | | | | | | | | | |
|---|-------|-----------------------|------|-------------|------|----------------------------------|-------|----|-----|---------------|----------------|----------|
| Plate Offsets (X,Y)-- [9:0-4-8,Edge], [20:0-4-8,Edge], [30:0-3-8,Edge], [49:0-2-8,Edge], [56:0-3-8,0-2-8] | | | | | | | | | | | | |
| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. in (loc) l/defl L/d | | | | PLATES | GRIP | |
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.13 | Vert(LL) | -0.00 | 29 | n/r | 120 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.15 | Vert(CT) | -0.00 | 29 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.14 | Horz(CT) | 0.02 | 30 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2018/TPI2014 | | Matrix-S | | | | | | | Weight: 244 lb | FT = 10% |

| | |
|---------------------------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SPF No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SPF No.2 *Except* | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: |
| 2-56: 2x8 SP DSS, 14-44: 2x3 SPF No.2 | 6-0-0 oc bracing: 2-56. |
| WEBS 2x6 SPF No.2 *Except* | 1 Row at midpt 14-45 |
| 3-56: 2x3 SPF No.2 | WEBS 1 Row at midpt 15-43, 16-42, 17-41 |
| OTHERS 2x4 SPF No.2 | |

| | |
|---|--|
| REACTIONS. | All bearings 46-0-0. |
| (lb) - Max Horz 2=169(LC 12) | |
| Max Uplift All uplift 100 lb or less at joint(s) 30, 2, 56, 47, 48, 50, 51, 52, 53, 54, 55, 42, 41, 40, 39, 38, 37, 36, 34, 33, 32, 31 except 45=192(LC 9) | |
| Max Grav All reactions 250 lb or less at joint(s) 30, 2, 44, 43, 46, 47, 48, 50, 51, 52, 53, 54, 55, 42, 41, 40, 39, 38, 37, 36, 34, 33, 32, 31, 45 except 56=266(LC 1) | |
| FORCES. | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. |
| TOP CHORD 10-11=-35/268, 11-12=-35/288, 12-13=-35/310, 13-14=-32/321, 14-15=-34/327, 15-16=-34/321, 16-17=-31/288 | |

- 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) gable end 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.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 45 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 30, 2, 56, 47, 48, 50, 51, 52, 53, 54, 55, 42, 41, 40, 39, 38, 37, 36, 34, 33, 32, 31 except (jt=lb) 45=192.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 56, 46, 47, 48, 50, 51, 52, 53, 54, 55.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 28, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

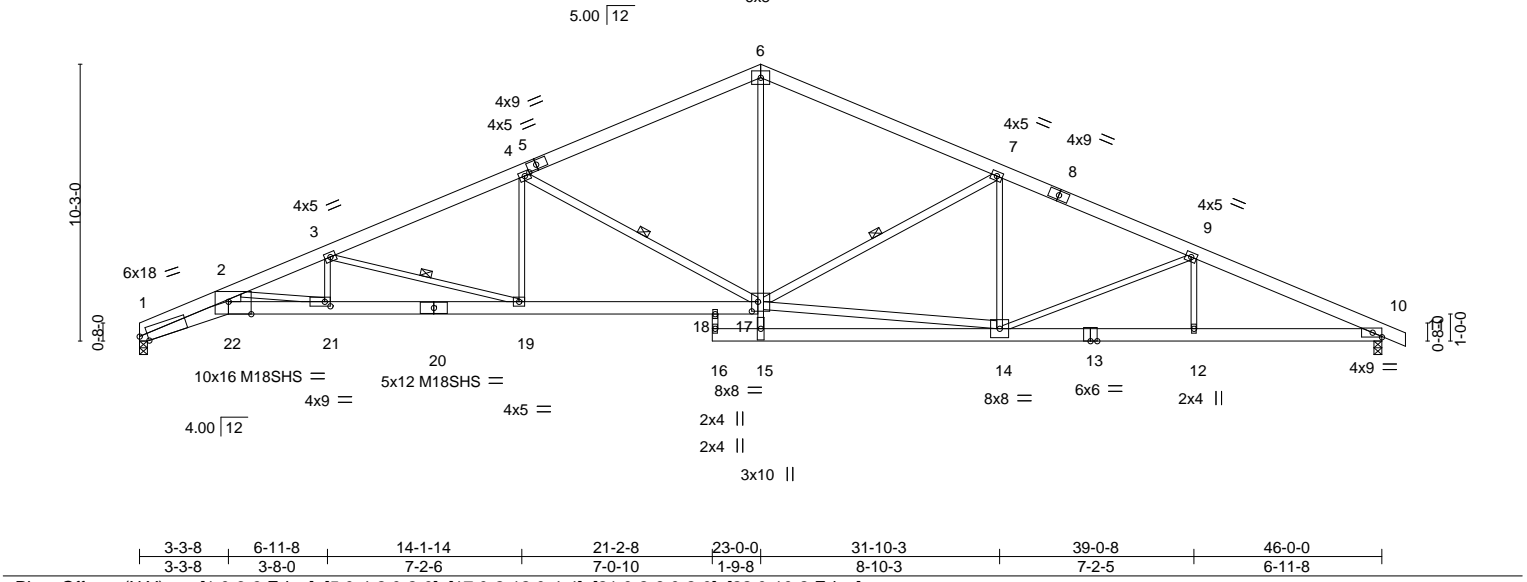
| | | | | | | |
|--------|-------|--------------|-----|-----|-----------|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 | Job Reference (optional) |
| 210382 | B2A | Roof Special | 7 | 1 | | |

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

143891947

DATE 6-11-8 0-10-8

Wheeler Lumber, Waverly, KS - 66871, 8.420 s Oct 9 2020 MiTek Industries, Inc. Wed Oct 28 10:28:30 2020 Page 1
ID:bDijNJA6?5tiTk6EI3KUKZyAkTB-VbobHILMRugGStfEYmzmJZ92EPGiWPAxntt6_dyQvhV



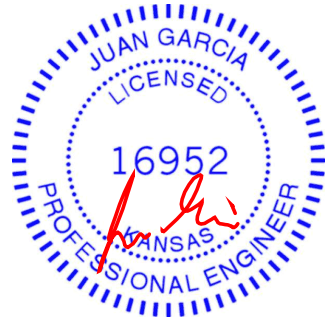
| LOADING (psf) | | SPACING- | | CSI. | | DEFL. | | PLATES | | GRIP | |
|---------------|-------|----------------------|------|----------|------|----------|------------------|--------|---------|----------------|----------|
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.86 | Vert(LL) | -0.48 19-21 >999 | MT20 | 197/144 | | |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.86 | Vert(CT) | -0.88 19-21 >624 | M18SHS | 197/144 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.97 | Horz(CT) | 0.45 10 n/a n/a | | | | |
| BCDL | 10.0 | Code IRC2018/TPI2014 | | Matrix-S | | Wind(LL) | 0.36 19-21 >999 | | | Weight: 251 lb | FT = 10% |

| LUMBER- | | BRACING- | |
|-----------|--|-----------|--|
| TOP CHORD | 2x6 SPF No.2 *Except* 1-5: 2x6 SPF 1650F 1.4E | TOP CHORD | Structural wood sheathing directly applied or 1-11-3 oc purlins. |
| BOT CHORD | 2x6 SPF No.2 *Except* 1-22,20-22: 2x6 SP DSS, 17-20: 2x6 SPF 1650F 1.4E | BOT CHORD | Rigid ceiling directly applied or 7-4-11 oc bracing. |
| WEBS | 2x3 SPF No.2 *Except* 2-22: 2x6 SPF No.2, 4-17,7-17,14-17: 2x4 SPF No.2 | WEBS | 1 Row at midpt 3-19, 4-17, 7-17 |

| REACTIONS. | |
|------------|-----------------------------|
| (size) | 1=0-3-8, 10=0-3-8 |
| Max Horz | 1=-178(LC 13) |
| Max Uplift | 1=-265(LC 8), 10=-288(LC 9) |
| Max Grav | 1=2056(LC 1), 10=2129(LC 1) |

| FORCES. | |
|--|---|
| (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. | |
| TOP CHORD | 1-2=-8955/1296, 2-3=-6165/828, 3-4=-4443/563, 4-6=-3089/371, 6-7=-3064/394, 7-9=-3724/474, 9-10=-4386/539 |
| BOT CHORD | 1-22=-1329/8191, 21-22=-1158/7077, 19-21=-853/5769, 18-19=-494/4023, 17-18=-494/4023, 12-14=-409/3910, 10-12=-409/3910 |
| WEBS | 2-22=-335/2314, 3-21=-19/555, 3-19=-1817/374, 4-19=-7/677, 4-17=-1490/387, 15-17=0/403, 6-17=-113/1681, 7-17=-863/315, 9-14=-629/190, 9-12=0/278, 14-17=-246/3333, 2-21=-1332/310 |

- 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) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=265, 10=288.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 28,2020

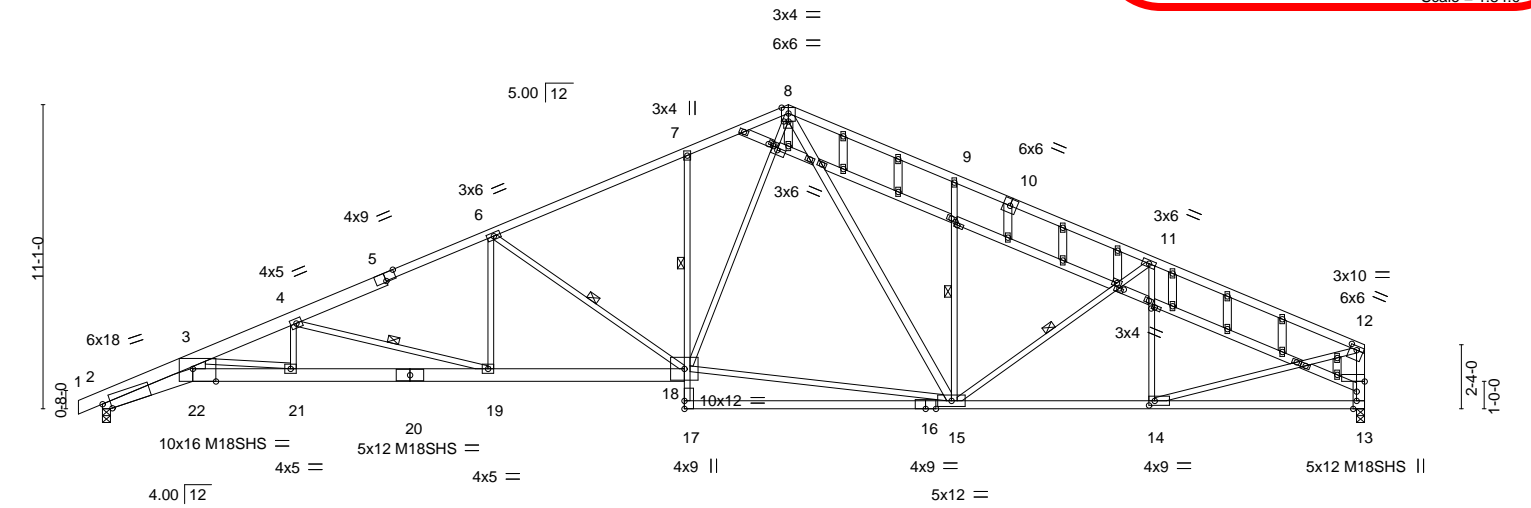
| | | | | | | |
|--------|-------|------------|-----|-----|-----------|--|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 | Release for Construction AS NOTED ON PLANS REVIEW CODES ADMINISTRATION LEE'S SUMMIT, MISSOURI |
| 210382 | C1 | GABLE | 1 | 1 | 1 | 391948 |

Wheeler Lumber, Waverly, KS 66871, Mitek

ID: bDlJNJA675tiTk6EI3KUKZyAkTB-MH96 8.420 s Aug 25 2020 Mitek Industries, Inc. Wed Oct 28 14:04:03 2020 Page 1

0-10-8 3-3-8 6-11-8 14-1-14 21-2-8 25-0-0 31-0-9 38-2-15 46-0-0
0-10-8 3-3-8 3-8-0 7-2-6 7-0-10 3-9-8 6-0-9 7-2-6 7-9-1

DATE Scale = 1:84.0



| | | | | | | | |
|-----------------------|--|--------|---------|--------|--------|---------|--------|
| | 3-3-8 | 6-11-8 | 14-1-14 | 21-2-8 | 31-0-9 | 38-2-15 | 46-0-0 |
| | 3-3-8 | 3-8-0 | 7-2-6 | 7-0-10 | 9-10-1 | 7-2-6 | 7-9-1 |
| Plate Offsets (X,Y)-- | [2:0-3-9,Edge], [5:0-4-8,Edge], [8:0-2-0,0-0-0], [12:0-3-0,0-1-12], [13:0-3-8,Edge], [14:0-2-8,0-2-0], [22:0-10-2,Edge], [24:0-2-5,0-1-0], [24:0-2-0,0-0-12], [26:0-1-4,0-1-0], [27:0-2-0,0-0-4], [28:0-1-4,0-1-0], [30:0-3-8,0-4-7] | | | | | | |

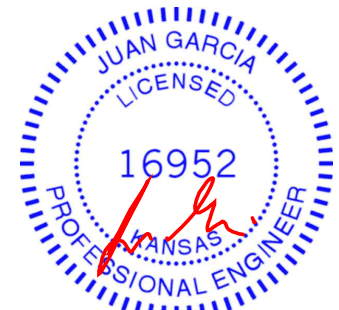
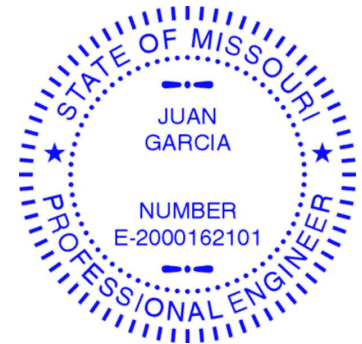
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/def | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|-------|------|----------------|----------|
| TCLL 25.0 | Plate Grip DOL | 1.15 | TC 0.85 | Vert(LL) | -0.49 | 19-21 | >999 | MT20 | 197/144 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.86 | Vert(CT) | -0.91 | 15-17 | >601 | M18SHS | 197/144 |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 1.00 | Horz(CT) | 0.43 | 13 | n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | Matrix-S | Wind(LL) | 0.37 | 19-21 | >999 | Weight: 264 lb | FT = 10% |

| | |
|--|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SPF No.2 *Except* | TOP CHORD Structural wood sheathing directly applied or 1-11-10 oc purlins, except end verticals. |
| 1-5: 2x6 SPF 1650F 1.4E, 10-12: 2x4 SPF 2100F 1.8E | |
| BOT CHORD 2x4 SPF No.2 *Except* | BOT CHORD Rigid ceiling directly applied or 7-1-14 oc bracing. Except: |
| 2-22,20-22: 2x6 SP DSS, 7-17: 2x3 SPF No.2 | 1 Row at midpt 7-18 |
| 18-20: 2x6 SPF 1650F 1.4E | WEBS 1 Row at midpt 4-19, 6-18, 9-15, 11-15 |
| WEBS 2x3 SPF No.2 *Except* | |
| 3-22: 2x6 SPF No.2 | |
| 8-15,12-13,23-24,24-25,25-26,26-27,27-28,28-29,29-30: 2x4 SPF No.2 | |
| OTHERS 2x4 SPF No.2 | |

REACTIONS. (lb/size) 2=2129/0-3-8, 13=2056/0-3-8
Max Horz 2=200(LC 12)
Max Uplift 2=-301(LC 8), 13=-245(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-8916/1366, 3-4=-6135/896, 4-5=-4369/572, 5-6=-4190/590, 6-7=-3217/450, 7-8=-3170/548, 8-9=-2839/480, 9-10=-2678/360, 10-11=-2852/330, 11-12=-2865/345, 12-13=-1978/286
BOT CHORD 2-22=-1415/8150, 21-22=-1230/7042, 20-21=-947/5737, 19-20=-947/5737, 18-19=-531/3927, 7-18=-416/212, 14-15=-272/2559
WEBS 3-22=-365/2305, 3-21=-1328/288, 4-21=-12/545, 4-19=-1885/433, 6-19=-27/719, 6-18=-1295/311, 15-18=-174/2089, 8-18=-348/1633, 8-15=-243/689, 9-15=-478/244, 11-14=-534/154, 12-14=-242/2533

- 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) gable end 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 MT20 plates unless otherwise indicated.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 301 lb uplift at joint 2 and 245 lb uplift at



October 28,2020

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

| | | | | | | |
|--------|-------|------------|-----|-----|-----------|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 | |
| 210382 | C1 | GABLE | 1 | 1 | | |
| | | | | | | Job Reference (optional) |

Wheeler Lumber, Waverly, KS 66871, Mitek

8.420 s Aug 25 2020 Mitek Industries, Inc. Wed Oct 28 14:04:03 2020 Page 2
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NOTES-
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.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI
By _____
DATE _____

| | | | | | |
|--------|-------|--------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 |
| 210382 | C2 | Roof Special | 5 | 1 | |

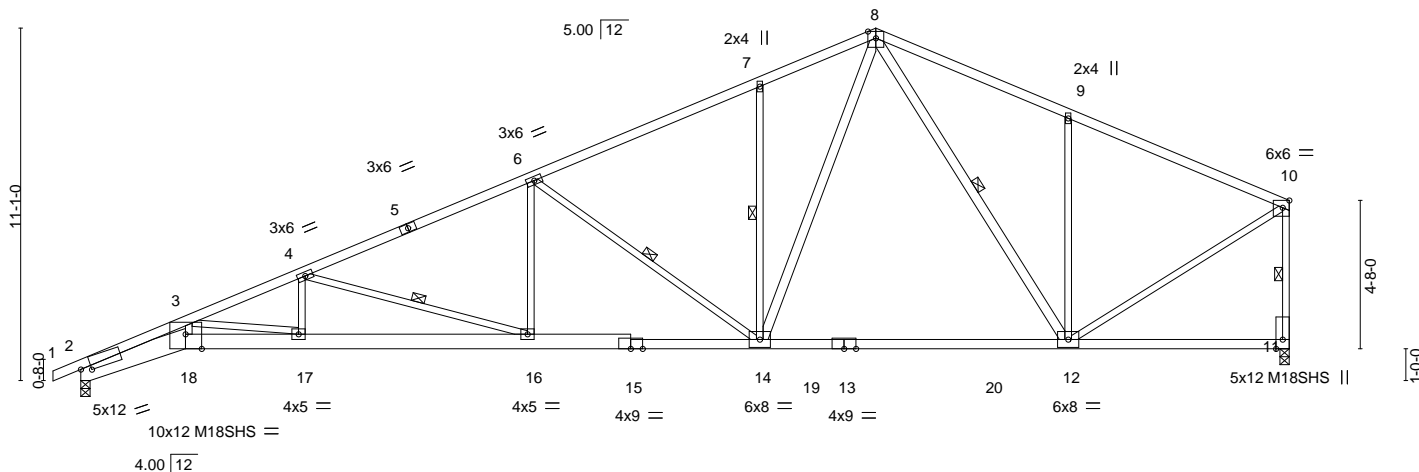
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

Wheeler Lumber, Waverly, KS - 66871, 8.420 s Oct 9 2020 MiTek Industries, Inc. Wed Oct 28 10:28:34 2020 Page 1

ID: bDlJNJA675tiTk6EI3KUKZyAkTB-OM16gatV7Aha40nb2iUPKjV0fWSE2NsVrJZOyOvhR

0-10-8 3-3-8 6-11-6 14-1-13 21-4-4 25-0-0 31-0-10 38-0-0
0-10-8 3-3-8 3-7-15 7-2-7 7-2-7 3-7-13 6-0-10 6-11-7

6x6 =



3-3-8 8-11-10 14-7-12 21-4-4 31-0-10 38-0-0
3-3-8 5-8-2 5-8-2 6-8-8 9-8-6 6-11-7

Plate Offsets (X,Y)-- [2:0-3-15,0-1-6], [10:0-2-8,Edge], [18:0-6-2,Edge]

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|------|--------|-------------------------|
| TCLL 25.0 | Plate Grip DOL | 1.15 | TC 0.91 | Vert(LL) | -0.42 | 12-14 | >999 | 360 | MT20 197/144 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.80 | Vert(CT) | -0.70 | 12-14 | >644 | 240 | M18SHS 197/144 |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.91 | Horz(CT) | 0.26 | 11 | n/a | n/a | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | Matrix-S | Wind(LL) | 0.27 | 17 | >999 | 240 | |
| | | | | | | | | | Weight: 183 lb FT = 10% |

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
1-5: 2x4 SPF 2100F 1.8E
BOT CHORD 2x8 SP DSS *Except*
15-18: 2x6 SP DSS, 11-13: 2x4 SPF 2100F 1.8E
13-15: 2x4 SPF 2400F 2.0E
WEBS 2x3 SPF No.2 *Except*
8-14,8-12: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-7-9 oc bracing.
WEBS 1 Row at midpt 4-16, 6-14, 7-14, 8-12, 10-11

REACTIONS.

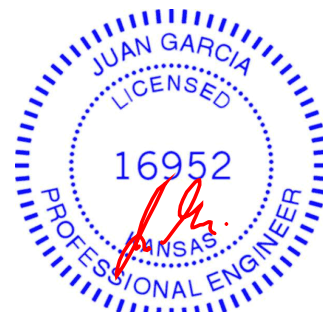
(size) 2=0-3-8, 11=0-3-8
Max Horz 2=227(LC 8)
Max Uplift 2=274(LC 8), 11=166(LC 9)
Max Grav 2=1833(LC 2), 11=1804(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-7254/1229, 3-4=-5085/792, 4-6=-3419/512, 6-7=-2349/363, 7-8=-2315/462,
8-9=-1684/296, 9-10=-1668/224, 10-11=-1725/192
BOT CHORD 2-18=-1319/6623, 17-18=-1220/6118, 16-17=-864/4705, 14-16=-493/3088,
12-14=-117/1564
WEBS 3-18=-290/1638, 3-17=-1442/363, 4-17=-35/732, 4-16=-1690/388, 6-16=-30/704,
6-14=-1235/329, 7-14=-415/212, 8-14=-316/1507, 8-12=-355/109, 9-12=-534/278,
10-12=-138/1740

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=274, 11=166.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 28,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

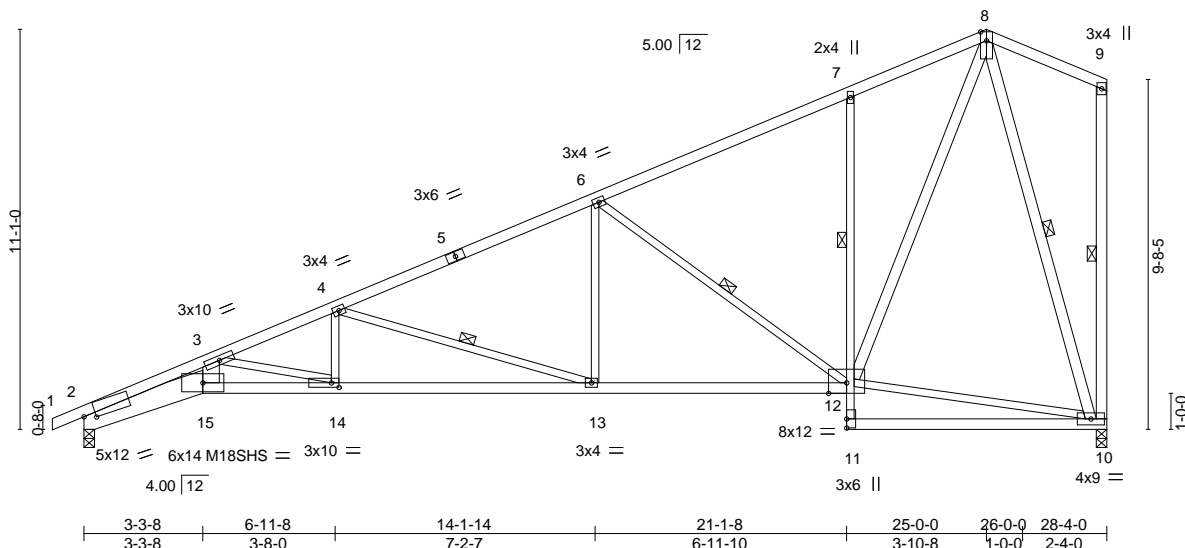
| | | | | | | |
|--------|-------|--------------|-----|-----|-----------|--|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 | RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW CODES ADMINISTRATION LEE'S SUMMIT, MISSOURI |
| 210382 | C3 | Roof Special | 2 | 1 | 13291950 | |

Wheeler Lumber, Waverly, KS - 66871, 8.420 s Oct 9 2020 MiTek Industries, Inc. Wed Oct 28 10:28:35 2020 Page 1

ID: bDlJNJA675tiTk6EI3KUKZyAkTB-sYbUKIbVGQIYBfCLJZx0du3Q_wBjWW49bsgnyOvhQ

0-10-8 3-3-8 6-11-8 14-1-14 21-1-8 25-0-0 28-4-0
0-10-8 3-3-8 3-8-0 7-2-7 6-11-10 3-10-8 2-4-0

DATE



| | | | | | | | | | | | |
|-----------------------|-------|------------------------------------|--|----------|------|---------------------------|----------------------|----------------|----------|------|--|
| Plate Offsets (X,Y)-- | | [2:0-3-15,0-1-6], [14:0-2-8,0-1-8] | | | | | | | | | |
| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. in (loc) l/defl L/d | | PLATES | | GRIP | |
| TCLL | 25.0 | Plate Grip DOL 1.15 | | TC | 0.92 | Vert(LL) | -0.27 14-15 >999 360 | MT20 | 197/144 | | |
| TCDL | 10.0 | Lumber DOL 1.15 | | BC | 0.79 | Vert(CT) | -0.49 14-15 >687 240 | M18SHS | 197/144 | | |
| BCLL | 0.0 * | Rep Stress Incr YES | | WB | 0.83 | Horz(CT) | 0.24 10 n/a n/a | | | | |
| BCDL | 10.0 | Code IRC2018/TPI2014 | | Matrix-S | | Wind(LL) | 0.24 14-15 >999 240 | Weight: 145 lb | FT = 10% | | |

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
2-15: 2x8 SP DSS, 12-15: 2x4 SPF 2100F 1.8E, 7-11: 2x3 SPF No.2
WEBS 2x3 SPF No.2 *Except*
3-15: 2x6 SPF No.2, 8-12,9-10,8-10: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-9-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-9-4 oc bracing. Except:
1 Row at midpt 7-12
WEBS 1 Row at midpt 4-13, 6-12, 9-10, 8-10

REACTIONS.

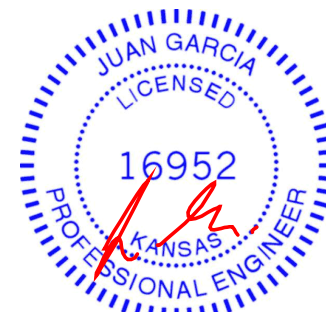
(size) 2=0-3-8, 10=0-3-8
Max Horz 2=410(LC 7)
Max Uplift 2=216(LC 8), 10=223(LC 8)
Max Grav 2=1335(LC 1), 10=1261(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5496/1064, 3-4=-3246/565, 4-6=-1996/333, 6-7=-1003/211, 7-8=-963/308
BOT CHORD 2-15=-1168/5033, 14-15=-1018/4360, 13-14=-647/2996, 12-13=-322/1758, 7-12=-409/213
WEBS 3-15=-325/1561, 3-14=-1404/382, 4-14=-12/443, 4-13=-1298/341, 6-13=-6/575, 6-12=-1155/299, 10-12=-149/297, 8-12=-339/1361, 8-10=-1173/202

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=216, 10=223.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 28,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

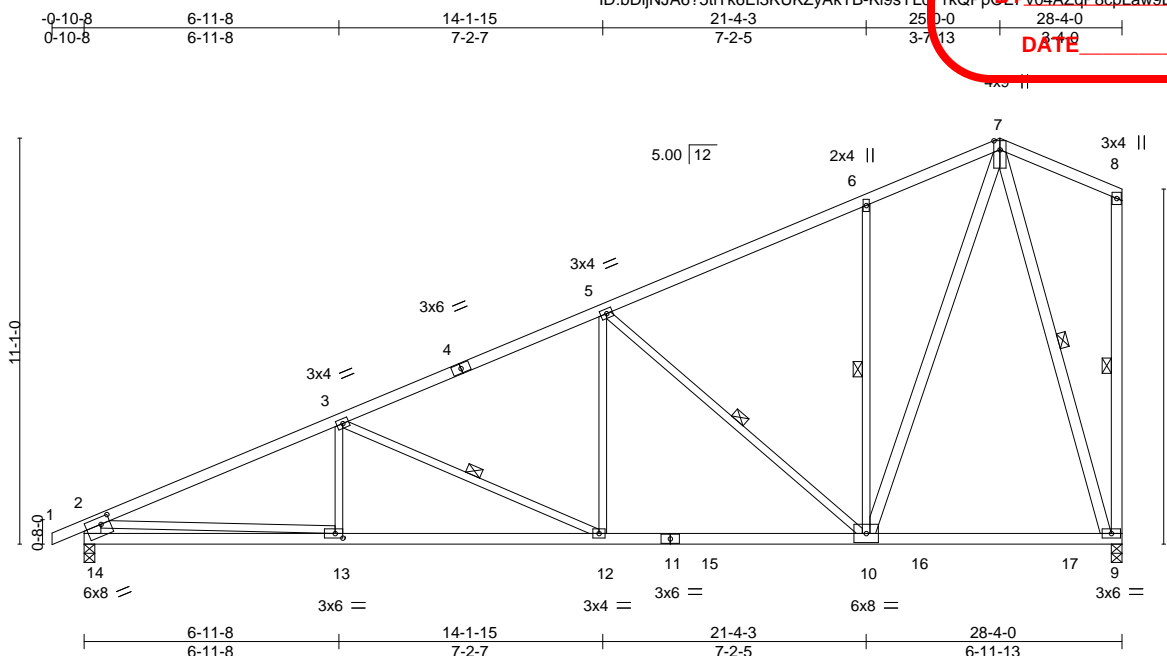
| | | | | | | |
|--------|-------|------------|-----|-----|-----------|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 | Job Reference (optional) |
| 210382 | C4 | Common | 1 | 1 | | |

Wheeler Lumber, Waverly, KS - 66871,

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DATE



| | | | | | | | | | |
|-----------------------|-------|------------------------------------|--|----------|------|---------------------------|----------------------|----------------|----------|
| Plate Offsets (X,Y)-- | | [13:0-2-8,0-1-8], [14:0-3-0,0-2-4] | | | | | | | |
| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. in (loc) l/defl L/d | | PLATES GRIP | |
| TCLL | 25.0 | Plate Grip DOL 1.15 | | TC | 0.61 | Vert(LL) | -0.14 12-13 >999 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL 1.15 | | BC | 0.77 | Vert(CT) | -0.27 12-13 >999 240 | | |
| BCLL | 0.0 * | Rep Stress Incr YES | | WB | 0.86 | Horz(CT) | 0.06 9 n/a n/a | | |
| BCDL | 10.0 | Code IRC2018/TPI2014 | | Matrix-S | | Wind(LL) | 0.09 12-13 >999 240 | Weight: 138 lb | FT = 10% |

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 7-10,8-9,7-9: 2x4 SPF No.2, 2-14: 2x6 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-3-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 8-8-14 oc bracing.
 WEBS 1 Row at midpt 3-12, 5-10, 6-10, 8-9, 7-9

REACTIONS.

(size) 14=0-3-8, 9=0-3-8
 Max Horz 14=417(LC 5)
 Max Uplift 14=-216(LC 8), 9=-223(LC 8)
 Max Grav 14=1385(LC 2), 9=1369(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2427/347, 3-5=-1774/281, 5-6=-947/196, 6-7=-918/296, 2-14=-1268/252
 BOT CHORD 13-14=-408/763, 12-13=-452/2167, 10-12=-272/1569, 9-10=-125/347
 WEBS 3-12=-658/198, 5-12=0/555, 5-10=-1025/271, 6-10=-419/219, 7-10=-336/1404, 2-13=-82/1407, 7-9=-1195/186

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) gable end 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=216, 9=223.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 28,2020

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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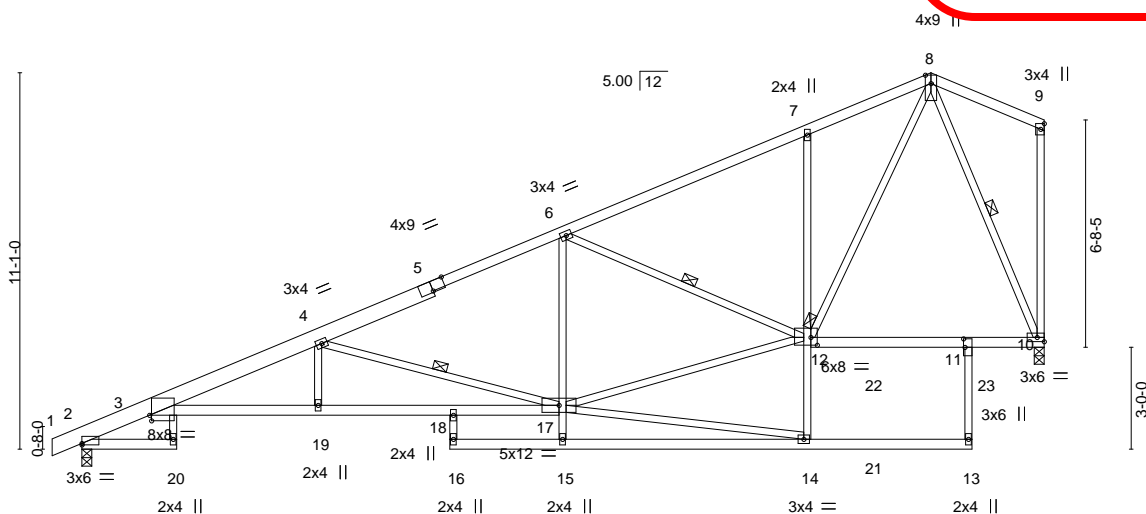
| | | | | | | |
|--------|-------|--------------|-----|-----|--------------------------|--|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 | RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW CODES ADMINISTRATION LEE'S SUMMIT, MISSOURI |
| 210382 | C5 | Roof Special | 1 | 1 | Job Reference (optional) | 13391952 |

Wheeler Lumber, Waverly, KS - 66871,

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| | | | | | | | |
|--------|-------|--------|---------|---------|--------|--------|--------|
| 0-10-8 | 2-9-8 | 6-11-8 | 10-10-0 | 14-1-13 | 21-4-5 | 25-0-0 | 28-4-0 |
| 0-10-8 | 2-9-8 | 4-2-0 | 3-10-9 | 3-3-13 | 7-2-8 | 3-7-11 | 3-4-0 |

DATE



| | | | | | | | |
|-------|--------|---------|---------|--------|--------|--------|--------|
| 2-9-8 | 6-11-8 | 10-10-0 | 14-1-13 | 21-4-5 | 25-0-0 | 26-2-8 | 28-4-0 |
| 2-9-8 | 4-2-0 | 3-10-9 | 3-3-13 | 7-2-8 | 3-7-11 | 1-2-8 | 2-1-8 |

| | | | | | | | |
|-----------------------|---|-------|-------------|--------------|----------|--------|-------------------------|
| Plate Offsets (X,Y)-- | [2:0-0-0,0-0-8], [3:0-0-11,0-1-15], [5:0-4-8,Edge], [11:0-3-0,0-0-8], [12:0-2-4,0-2-12] | | | | | | |
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d |
| TCLL 25.0 | Plate Grip DOL | 1.15 | TC 0.93 | Vert(LL) | -0.36 | 20 | >944 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.71 | Vert(CT) | -0.62 | 20 | >547 |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.87 | Horz(CT) | 0.30 | 10 | n/a |
| BCDL 10.0 | Code IRC2018/TPI2014 | | Matrix-S | Wind(LL) | 0.30 | 20 | >999 |
| | | | | | | | Weight: 153 lb FT = 10% |

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
1-5: 2x6 SP 2400F 2.0E
BOT CHORD 2x4 SPF No.2 *Except*
3-17: 2x4 SPF 2100F 1.8E, 16-18,11-13: 2x3 SPF No.2
WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-17, 8-10, 6-12
JOINTS 1 Brace at Jt(s): 12

REACTIONS.

(size) 2=0-3-8, 10=0-3-8
Max Horz 2=361(LC 5)
Max Uplift 2=203(LC 8), 10=226(LC 8)
Max Grav 2=1432(LC 2), 10=1460(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-802/0, 3-4=-3649/606, 4-6=-2184/339, 6-7=-1381/247, 7-8=-1353/344
BOT CHORD 3-19=-790/3481, 18-19=-790/3481, 17-18=-760/3458, 11-12=-111/472, 10-11=-112/500
WEBS 4-19=0/298, 4-17=-1630/428, 12-14=0/306, 7-12=-435/222, 8-12=-368/1682, 8-10=-1275/219, 15-17=0/266, 6-17=0/302, 6-12=-788/226, 12-17=-396/1943

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=203, 10=226.
- 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.



October 28,2020

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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| | | | | | | |
|--------|-------|--------------|-----|-----|-----------|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 | Job Reference (optional) |
| 210382 | C6 | Roof Special | 3 | 1 | | |

Wheeler Lumber, Waverly, KS - 66871,

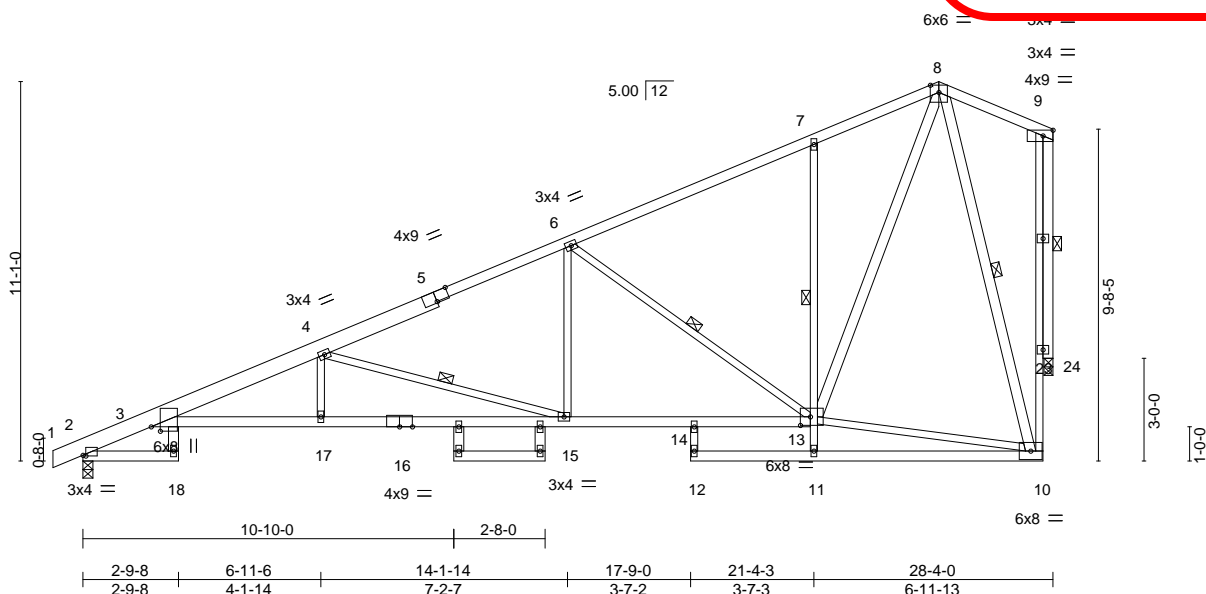
8.420 s Oct 9 2020 MiTek Industries, Inc. Wed Oct 28 10:28:38 2020 Page 1

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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

0-10-8 2-9-8 6-11-6 14-1-14 17-9-0 21-4-3 25-0-0 28-4-0
0-10-8 2-9-8 4-1-14 7-2-7 3-7-2 3-7-3 3-7-13 3-4-0

DATE _____



| | | | | | | |
|-----------------------|--|-------|-------------|--------------|----------|-------------------------|
| Plate Offsets (X,Y)-- | [2:0-1-0,0-0-4], [3:0-1-9,0-3-3], [5:0-4-8,Edge], [13:0-3-8,0-3-0] | | | | | |
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | L/defl L/d |
| TCLL 25.0 | Plate Grip DOL | 1.15 | TC 0.85 | Vert(LL) | -0.31 18 | >999 360 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.88 | Vert(CT) | -0.57 18 | >593 240 |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.84 | Horz(CT) | 0.45 24 | n/a n/a |
| BCDL 10.0 | Code IRC2018/TPI2014 | | Matrix-S | Wind(LL) | 0.31 18 | >999 240 |
| | | | | | | Weight: 164 lb FT = 10% |

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
1-5: 2x6 SP 2400F 2.0E
BOT CHORD 2x4 SPF No.2 *Except*
3-16: 2x4 SPF 2100F 1.8E, 12-14: 2x3 SPF No.2
WEBS 2x3 SPF No.2 *Except*
3-18,8-13,8-10,19-21,20-22: 2x4 SPF No.2
OTHERS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-4-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-15, 6-13, 8-10, 7-11, 9-24

REACTIONS.

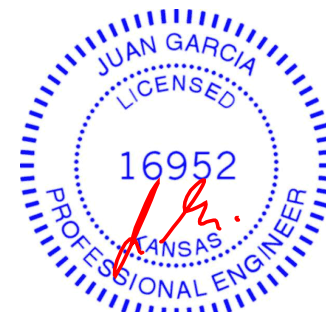
(size) 2=0-3-8, 24=0-3-2
Max Horz 2=358(LC 8)
Max Uplift 2=177(LC 8), 24=253(LC 8)
Max Grav 2=1349(LC 1), 24=1239(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-626/0, 3-4=-3378/548, 4-6=-2014/281, 6-7=-999/139, 7-8=-978/243, 10-23=-220/1123, 9-23=-220/1123
BOT CHORD 3-17=-814/3212, 15-17=-813/3212, 14-15=-401/1751, 13-14=-379/1700
WEBS 4-17=0/274, 4-15=-1526/431, 6-15=-40/597, 6-13=-1145/313, 8-13=-347/1385, 8-10=-1138/267, 10-13=-64/273, 11-13=0/272, 7-13=-444/225, 9-24=-1240/253

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 24 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=177, 24=253.
- 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.



October 28,2020

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16023 Swingley Ridge Rd
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| | | | | | | |
|--------|-------|--------------|-----|-----|--------------------------|--|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 | RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW CODES ADMINISTRATION LEE'S SUMMIT, MISSOURI |
| 210382 | C7 | Roof Special | 1 | 1 | Job Reference (optional) | 13391954 |

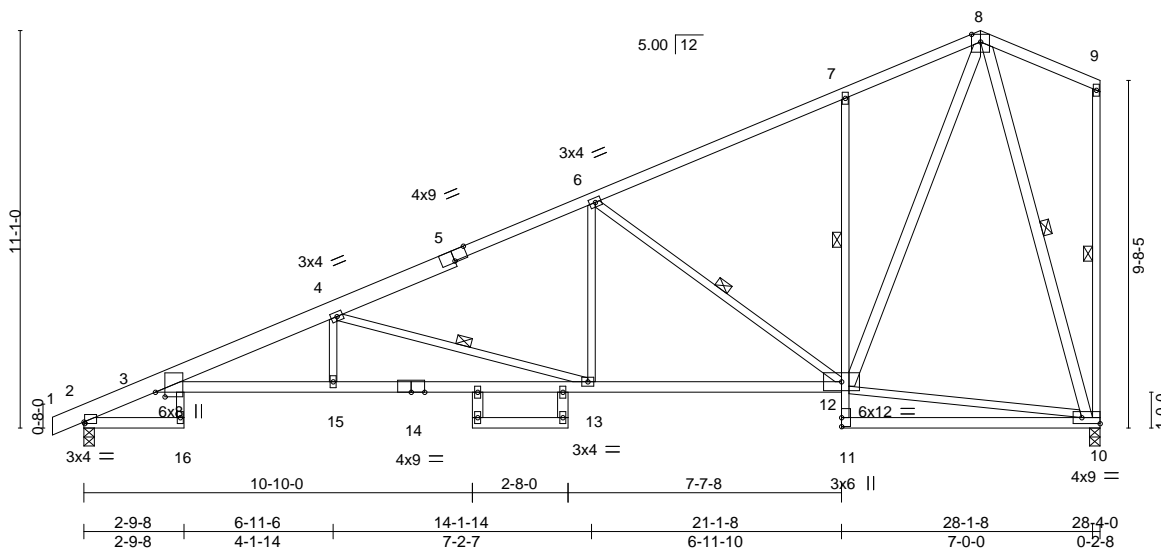
Wheeler Lumber, Waverly, KS - 66871,

8.420 s Oct 9 2020 MiTek Industries, Inc. Wed Oct 28 10:28:39 2020 Page 1

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-0-10-8 2-9-8 6-11-6 14-1-14 21-1-8 25-0-0 28-4-0
0-10-8 2-9-8 4-1-14 7-2-7 6-11-10 3-10-0

DATE



| | | | | | | |
|------------------------|---|-------|-------------|--------------|----------|----------------|
| Plate Offsets (X, Y)-- | [2:0-0-4,0-0-8], [3:0-1-9,0-3-3], [5:0-4-8,Edge], [10:Edge,0-2-0] | | | | | |
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | L/defl |
| TCLL 25.0 | Plate Grip DOL | 1.15 | TC 0.86 | Vert(LL) | -0.31 | 16 >999 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.89 | Vert(CT) | -0.57 | 16 >587 |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.82 | Horz(CT) | 0.35 | 10 n/a |
| BCDL 10.0 | Code IRC2018/TPI2014 | | Matrix-S | Wind(LL) | 0.33 | 16 >999 |
| | | | | | | L/d 360 |
| | | | | | | 240 |
| | | | | | | n/a |
| | | | | | | 240 |
| | | | | | | Weight: 152 lb |
| | | | | | | FT = 10% |

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
1-5: 2x6 SP 2400F 2.0E
BOT CHORD 2x4 SPF No.2 *Except*
3-14: 2x4 SPF 2100F 1.8E, 7-11: 2x3 SPF No.2
WEBS 2x3 SPF No.2 *Except*
8-12,8-10,17-19,18-20: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
1 Row at midpt 7-12
WEBS 1 Row at midpt 4-13, 6-12, 9-10, 8-10

REACTIONS.

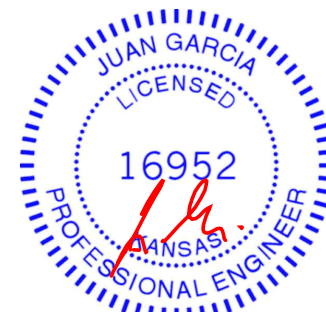
(size) 2=0-3-8, 10=0-3-8
Max Horz 2=412(LC 8)
Max Uplift 2=-175(LC 8), 10=-254(LC 8)
Max Grav 2=1351(LC 1), 10=1264(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-625/0, 3-4=-3385/570, 4-6=-2018/285, 6-7=-1007/148, 7-8=-975/248
BOT CHORD 3-15=-892/3219, 13-15=-891/3219, 12-13=-458/1753, 7-12=-429/218
WEBS 4-15=0/268, 4-13=-1531/453, 6-13=-36/606, 6-12=-1137/305, 8-12=-355/1374,
10-12=-89/299, 8-10=-1182/297

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) gable end zone; cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 MT20 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=175, 10=254.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 28,2020

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| | | | |
|----------------|---|-----------------|--|
| LUMBER- | | BRACING- | |
| TOP CHORD | 2x4 SPF No.2 | TOP CHORD | Structural wood sheathing directly applied or 3-2-12 oc purlins, except end verticals. |
| BOT CHORD | 2x4 SPF No.2 *Except* | | |
| | 5-13,6-10: 2x3 SPF No.2 | BOT CHORD | Rigid ceiling directly applied or 7-11-7 oc bracing. Except: |
| WEBS | 2x3 SPF No.2 *Except* | | 1 Row at midpt 6-11 |
| | 5-11,7-11,7-9: 2x4 SPF No.2, 2-15: 2x6 SPF No.2 | WEBS | 1 Row at midpt 5-11, 8-9, 7-9 |

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2309/270, 3-5=-2131/327, 5-6=-1025/145, 6-7=-983/253, 2-15=-1268/221
 BOT CHORD 14-15=-545/792, 5-12=-47/583, 11-12=-515/1912, 6-11=-463/240
 WEBS 3-14=-314/189, 12-14=-541/2013, 5-11=-1258/353, 7-11=-362/1386, 2-14=-23/1252,
 7-9=-1178/294, 9-11=-74/324

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=184, 9=254.
- 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.



October 28, 2020

| | | | | | | |
|--------|-------|------------|-----|-----|-----------|--|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 | RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW CODES ADMINISTRATION LEE'S SUMMIT, MISSOURI |
| 210382 | C9 | GABLE | 1 | 1 | 13291956 | |

Wheeler Lumber, Waverly, KS - 66871,

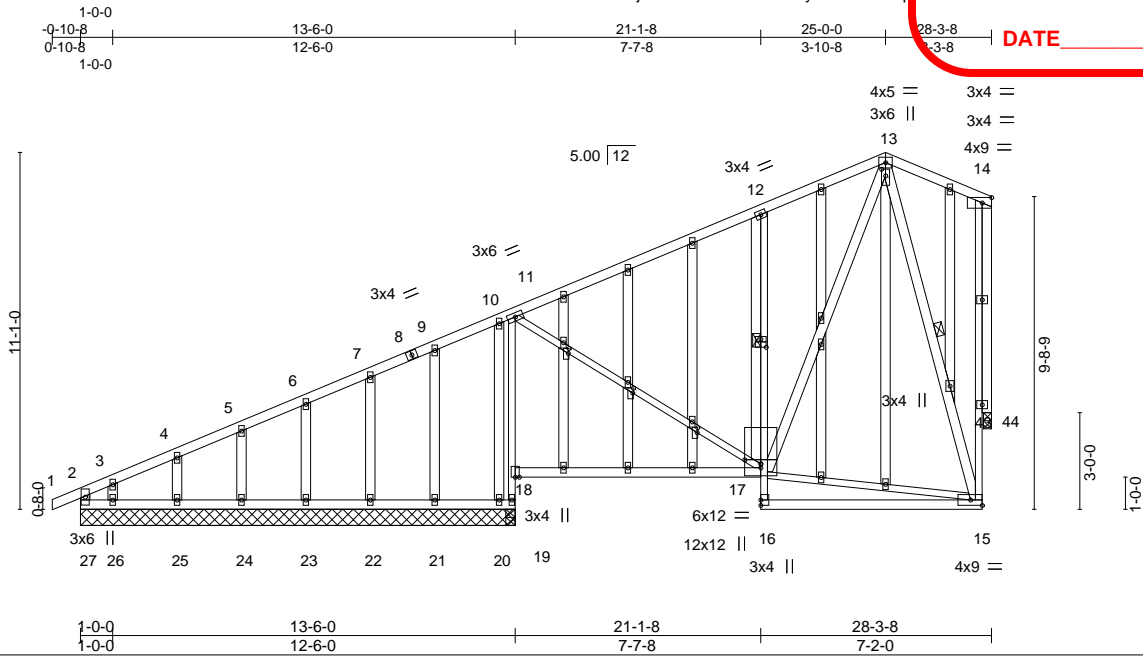
8.420 s Oct 9 2020 MiTek Industries, Inc. Wed Oct 28 10:28:42 2020 Page 1

ID:bDljNJA6?5tiTk6EI3KUKZyAkTB-9vW7pPhucaAZUjZFHBAo5fA2ER3K?mYhlnkQxyOvhJ

Job Reference (optional)

BY

DATE



| | | | | | | | | | |
|---|-------|-----------------------|------|-------------|------|----------------------------------|----------------------|----------------|-------------|
| Plate Offsets (X,Y)-- [12:0-2-0,3-7-7], [13:0-2-7,0-1-8], [17:0-1-8,0-6-0], [34:0-1-13,0-0-4], [37:0-1-13,0-0-4], [40:0-1-13,0-0-4] | | | | | | | | | |
| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. in (loc) l/defl L/d | | PLATES | GRIP |
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.61 | Vert(LL) | -0.13 17-18 >999 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.57 | Vert(CT) | -0.26 17-18 >688 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.35 | Horz(CT) | -0.18 44 n/a n/a | | |
| BCDL | 10.0 | Code IRC2018/TPI2014 | | Matrix-S | | Wind(LL) | 0.02 15-16 >999 240 | Weight: 215 lb | FT = 10% |

| | |
|--|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SPF No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SPF No.2 *Except* 11-19,12-16: 2x3 SPF No.2 | BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 4-9-15 oc bracing: 18-19 10-0-0 oc bracing: 16-17. 1 Row at midpt 12-17 |
| WEBS 2x4 SPF No.2 *Except* 11-17,14-15,15-17: 2x3 SPF No.2 | WEBS 1 Row at midpt 13-15 |
| OTHERS 2x4 SPF No.2 | |
| REACTIONS. All bearings 13-6-0 except (jt=length) 44=0-3-0. (lb) - Max Horz 27=347(LC 8) Max Uplift All uplift 100 lb or less at joint(s) 27, 20, 22, 23, 24, 25 except 19=360(LC 8), 26=190(LC 8), 44=131(LC 8) Max Grav All reactions 250 lb or less at joint(s) 27, 20, 21, 22, 23, 24, 25, 26 except 19=985(LC 1), 19=985(LC 1), 44=604(LC 1) | |
| FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=318/114, 3-4=262/109, 11-12=441/29, 12-13=405/137, 15-43=99/494, 14-43=99/494 BOT CHORD 18-19=1001/289, 11-18=921/337, 12-17=471/242 WEBS 11-17=-12/400, 13-15=-463/143, 13-17=-177/461, 14-44=605/131 | |

- NOTES-**
 - 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Bearing at joint(s) 44 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 20, 22, 23, 24, 25 except (jt=lb) 19=360, 26=190, 44=131.
 - 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.
-

| | | | | | | |
|--------|-------|--------------|-----|-----|-----------|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 | Job Reference (optional) |
| 210382 | D1 | Roof Special | 4 | 1 | | |

Wheeler Lumber, Waverly, KS - 66871,

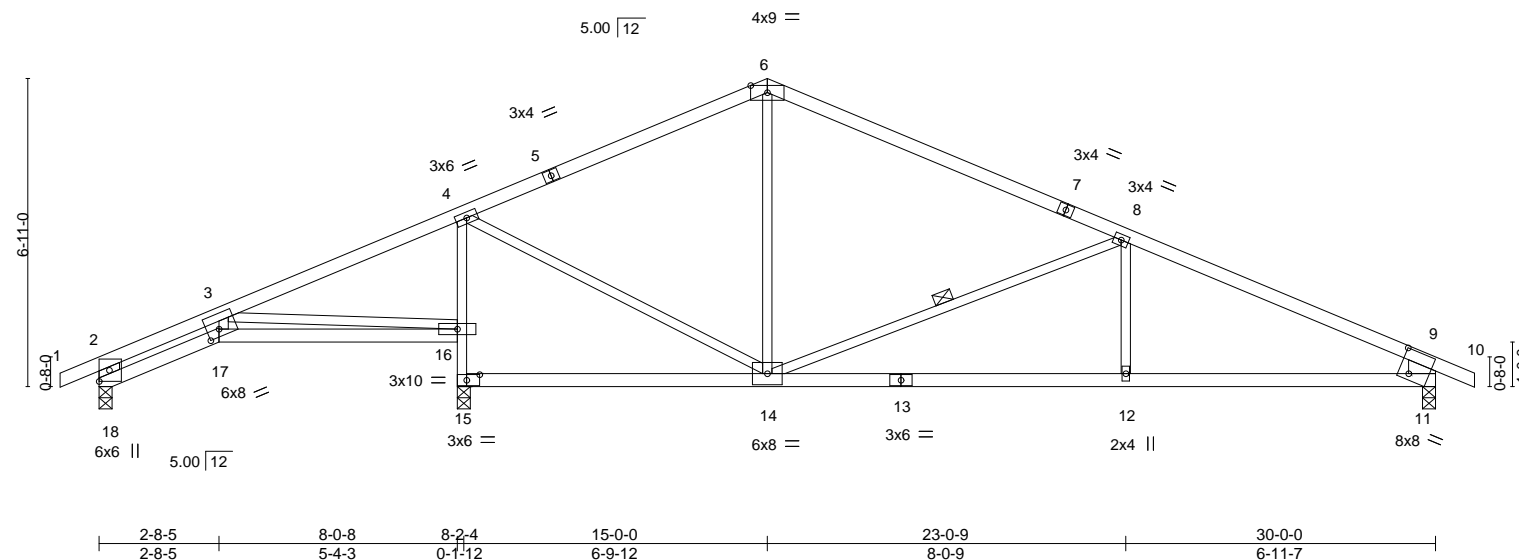
8.420 s Oct 9 2020 MiTek Industries, Inc. Wed Oct 28 10:28:44 2020 Page 1

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0-10-8 2-8-5 8-0-8 15-0-0 23-0-9 30-0-0 30-10-8
0-10-8 2-8-5 5-4-3 6-11-8 8-0-9 11-7 0-10-8

DATE 11-7 0-10-8

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI



| | | | | | | |
|--------|-------|------------------------------|-----|-----|-----------|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 | Job Reference (optional) |
| 210382 | D2 | Roof Special Supported Gable | 1 | 1 | | |

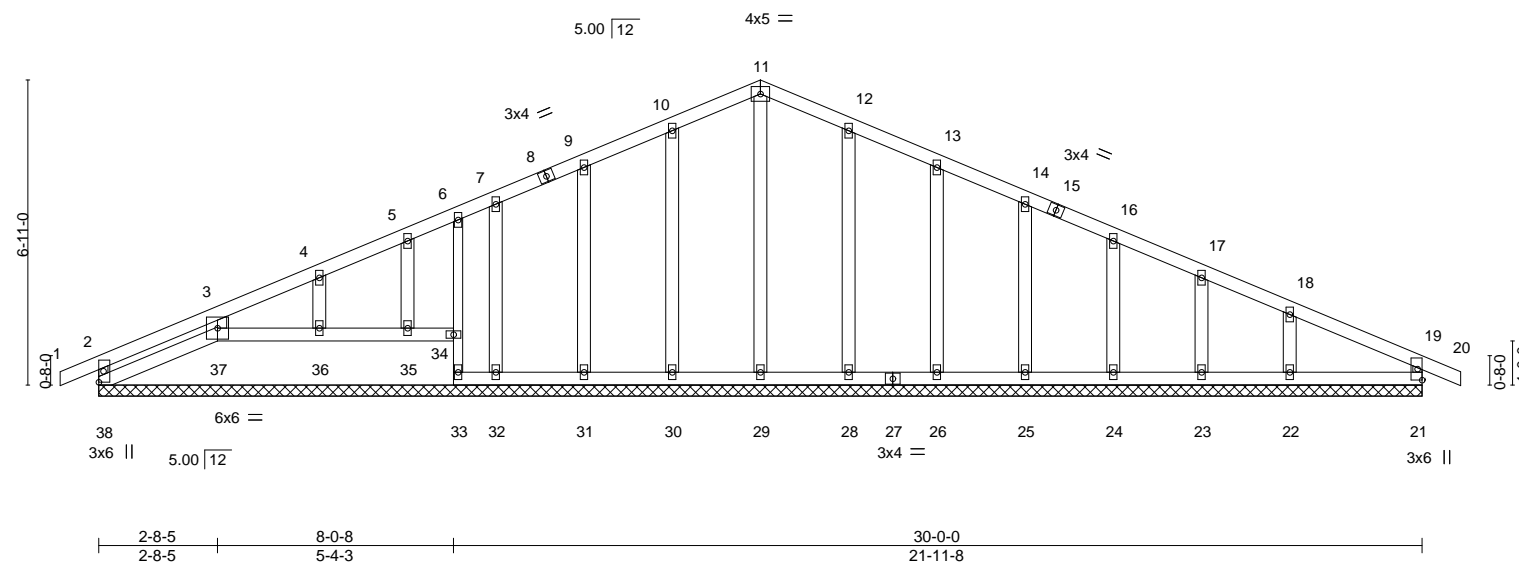
Wheeler Lumber, Waverly, KS - 66871,

8.420 s Oct 9 2020 MiTek Industries, Inc. Wed Oct 28 10:28:45 2020 Page 1

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| | | | | | |
|--------|-------|-------|--------|--------|---------|
| 0-10-8 | 2-8-5 | 8-0-8 | 15-0-0 | 30-0-0 | 30-10-8 |
| 0-10-8 | 2-8-5 | 5-4-3 | 6-11-8 | 15-0-0 | 0-10-8 |

DATE _____



| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|----------------|----------|
| TCLL 25.0 | Plate Grip DOL | 1.15 | TC 0.08 | Vert(LL) | 0.00 | 19 | n/r | MT20 | 197/144 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.07 | Vert(CT) | 0.00 | 20 | n/r | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.11 | Horz(CT) | 0.01 | 21 | n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | Matrix-R | | | | | | |
| | | | | | | | | Weight: 128 lb | FT = 10% |

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except*
 6-33: 2x3 SPF No.2
 WEBS 2x3 SPF No.2
 OTHERS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing. Except: 6'-0" oc bracing: 37-38.

REACTIONS.

All bearings 30'-0".
 (lb) - Max Horz 38=102(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) 38, 21, 37, 34, 33, 30, 31, 32, 35, 36, 28, 26, 25, 24, 23, 22
 Max Grav All reactions 250 lb or less at joint(s) 38, 21, 37, 34, 33, 29, 30, 31, 32, 35, 36, 28, 26, 25, 24, 23, 22

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) gable end 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" 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'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 34 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 38, 21, 37, 34, 33, 30, 31, 32, 35, 36, 28, 26, 25, 24, 23, 22.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 37, 35, 36.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 28, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

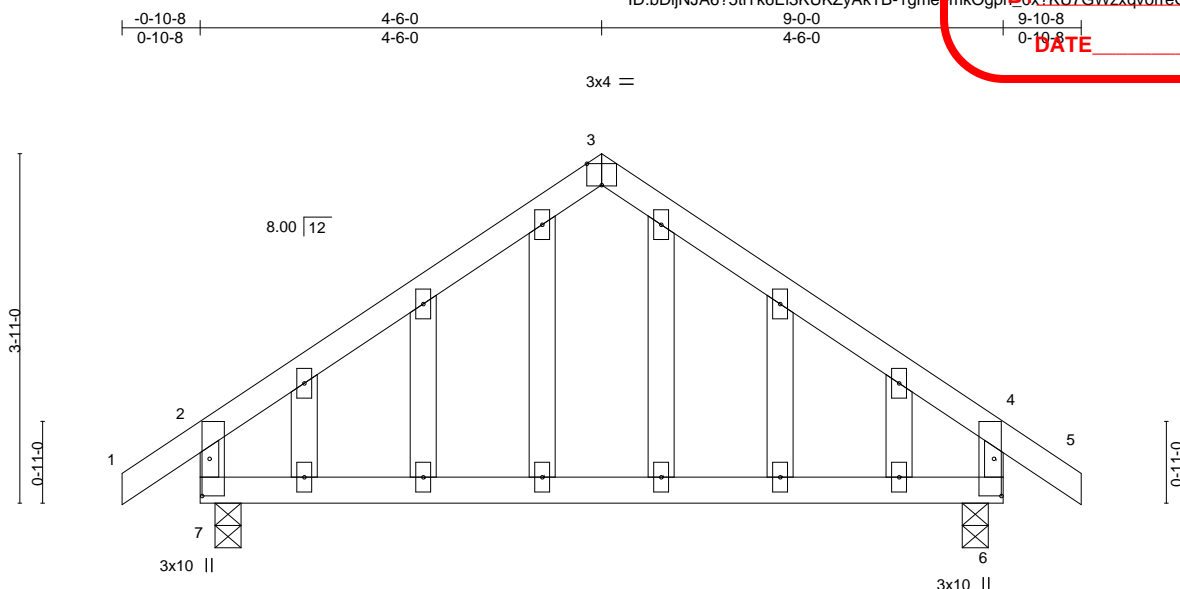
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|--------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 |
| 210382 | E1 | GABLE | 1 | 1 | |

Wheeler Lumber, Waverly, KS - 66871,

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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI



| | |
|-----------------------|--|
| Plate Offsets (X,Y)-- | [3:0-2-0,Edge], [6:0-5-0,0-1-0], [7:0-5-0,0-1-0] |
|-----------------------|--|

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|------|--------|---------|
| TCLL 25.0 | Plate Grip DOL | 1.15 | TC 0.37 | Vert(LL) | -0.19 | 6-7 | >569 | 360 | 197/144 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.40 | Vert(CT) | -0.36 | 6-7 | >292 | 240 | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.00 | Horz(CT) | 0.00 | 6 | n/a | n/a | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | Matrix-R | Wind(LL) | 0.01 | 6-7 | >999 | 240 | |

| | |
|------------------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SPF No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SPF 2100F 1.8E | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x3 SPF No.2 | |
| OTHERS 2x4 SPF No.2 | |

REACTIONS. (size) 7=0-3-8, 6=0-3-8
Max Horz 7=119(LC 7)
Max Uplift 7=-66(LC 8), 6=-66(LC 9)
Max Grav 7=464(LC 1), 6=464(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-352/105, 3-4=-352/105, 2-7=-376/122, 4-6=-376/122

- 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) gable end 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 studs spaced at 1-4-0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 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.



October 28, 2020

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

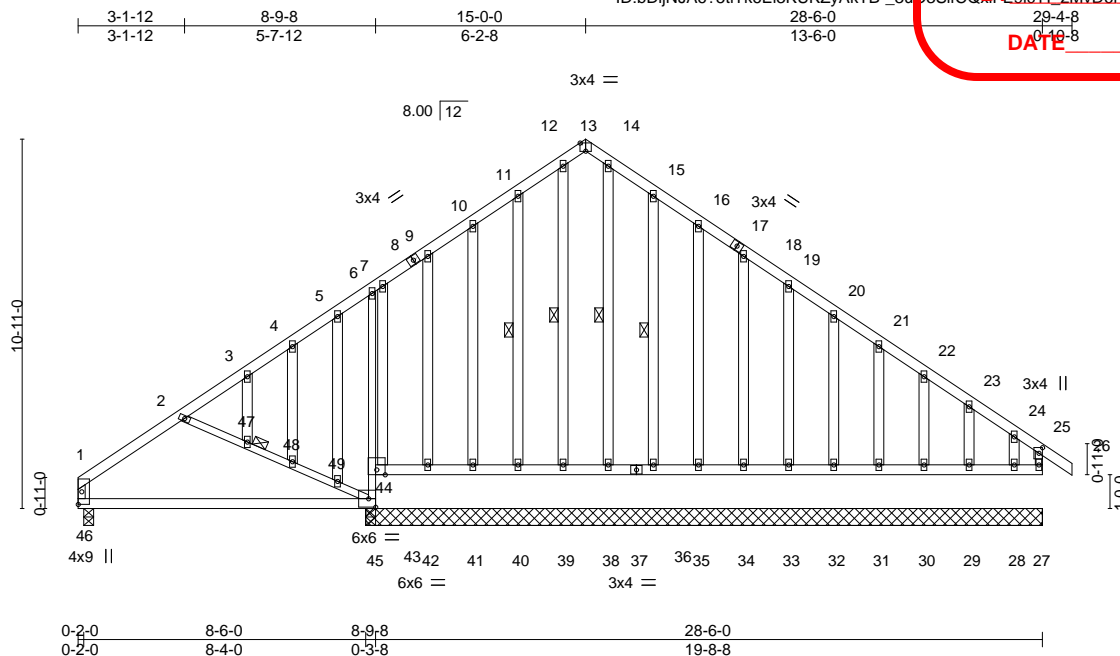
| | | | | | |
|--------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 |
| 210382 | E2 | GABLE | 1 | 1 | |

Wheeler Lumber, Waverly, KS - 66871,

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DATE



| Plate Offsets (X,Y)-- [13:0-2-0,Edge], [25:0-2-0,0-1-4] | | | | | | | | | |
|---|-------|----------------------|------|----------|------|---------------------------|----------------------|----------------|----------|
| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. in (loc) l/defl L/d | | PLATES | GRIP |
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.45 | Vert(LL) | -0.19 45-46 >534 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.59 | Vert(CT) | -0.38 45-46 >270 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.22 | Horz(CT) | 0.03 27 n/a n/a | | |
| BCDL | 10.0 | Code IRC2018/TPI2014 | | Matrix-S | | Wind(LL) | -0.01 45-46 >999 240 | Weight: 193 lb | FT = 10% |

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
6-45: 2x3 SPF No.2
WEBS 2x3 SPF No.2
OTHERS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 45-46,44-45.
WEBS 1 Row at midpt 11-40, 12-39, 14-38, 15-36
JOINTS 1 Brace at Jt(s): 47

REACTIONS.

All bearings 20-0-0 except (jt=length) 46=0-3-8.
(lb) - Max Horz 46=285(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 46, 45, 27, 35, 41, 40, 39, 34, 33, 32, 31, 30, 29, 38, 36 except 44=437(LC 9), 43=314(LC 16), 28=195(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 45, 27, 35, 42, 41, 40, 39, 34, 33, 32, 31, 30, 29, 38, 28, 36 except 46=365(LC 16), 44=551(LC 16), 45=250(LC 15), 43=346(LC 9)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-392/113, 11-12=-160/256, 1-46=-270/81
BOT CHORD 45-46=-130/361, 6-44=-346/212
WEBS 2-47=-335/219, 47-48=-338/220, 48-49=-354/231, 45-49=-355/231

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) gable end 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.
- N/A
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 1-4-0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 44 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 46, 45, 27, 35, 41, 40, 39, 34, 33, 32, 31, 30, 29, 38, 36 except (jt=lb) 44=437, 43=314, 28=195.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 28,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

| | | | | | | |
|--------|-------|--------------|-----|-----|--------------------------|--|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 | Release for Construction AS NOTED ON PLANS REVIEW CODES ADMINISTRATION LEE'S SUMMIT, MISSOURI |
| 210382 | E3 | Roof Special | 1 | 1 | Job Reference (optional) | 13391961 |

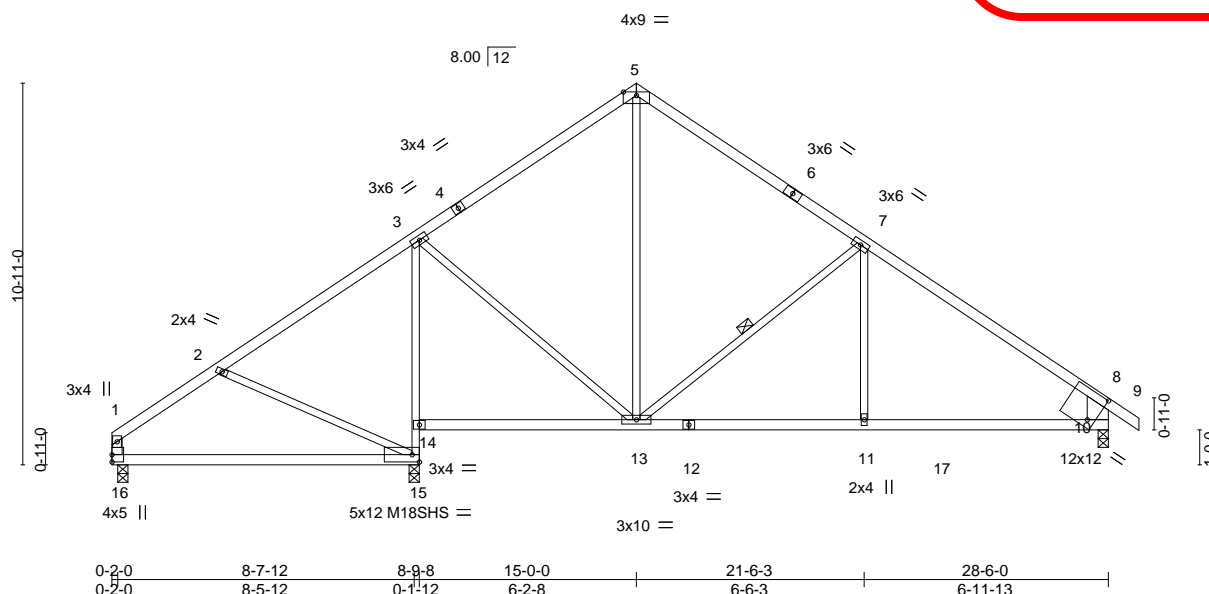
Wheeler Lumber, Waverly, KS - 66871,

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3-1-12 8-9-8 15-0-0 21-6-3 28-6-0 29-4-8
3-1-12 5-7-12 6-2-8 6-6-3 6-11-13 2-10-8

DATE



| | | | | | | | | | | | |
|--|-------|----------------------|------|----------|------|---------------------------|-------------|-------------|-----|----------------|----------|
| Plate Offsets (X,Y)-- [10:0-2-7,0-9-7] | | | | | | | | | | | |
| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. in (loc) l/defl L/d | | PLATES GRIP | | | |
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.80 | Vert(LL) | -0.19 15-16 | >551 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.90 | Vert(CT) | -0.37 15-16 | >277 | 240 | M18SHS | 197/144 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.39 | Horz(CT) | -0.03 10 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2018/TPI2014 | | Matrix-S | | Wind(LL) | 0.03 11-13 | >999 | 240 | Weight: 110 lb | FT = 10% |

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
3-15: 2x3 SPF No.2
WEBS 2x3 SPF No.2 *Except*
1-16: 2x4 SPF No.2, 8-10: 2x8 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-1-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-1-6 oc bracing.
WEBS 1 Row at midpt 7-13

REACTIONS.

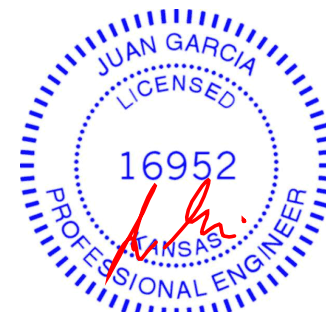
(size) 16=0-3-8, 15=0-3-8, 10=0-3-8
Max Horz 16=-287(LC 6)
Max Uplift 16=-78(LC 9), 15=-234(LC 8), 10=-161(LC 9)
Max Grav 16=425(LC 16), 15=1532(LC 15), 10=1063(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-402/173, 2-3=-239/259, 3-5=-688/235, 5-7=-646/200, 7-8=-1168/188,
1-16=-263/124, 8-10=-919/204
BOT CHORD 15-16=-147/345, 14-15=-1242/205, 3-14=-1143/237, 11-13=-38/819, 10-11=-38/819
WEBS 2-15=-348/195, 3-13=0/566, 5-13=-107/266, 7-13=-604/241, 7-11=0/283

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16 except (jt=lb) 15=234, 10=161.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 28, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

| | | | | | | |
|--------|-------|--------------|-----|-----|-----------|--|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 | Release for Construction AS NOTED ON PLANS REVIEW CODES ADMINISTRATION LEE'S SUMMIT, MISSOURI |
| 210382 | E4 | Roof Special | 2 | 1 | 1 | 13391962 |

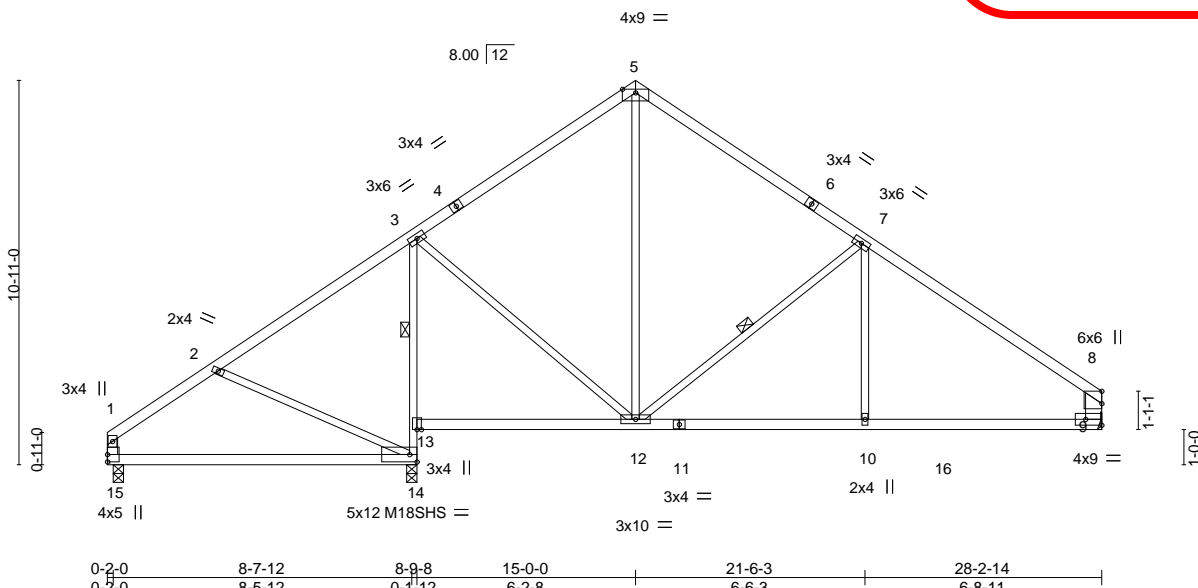
Wheeler Lumber, Waverly, KS - 66871,

8.420 s Oct 9 2020 MiTek Industries, Inc. Wed Oct 28 10:28:50 2020 Page 1

ID: bDlJNJA6?5tiTk6EI3KUKZyAkTB-wr79l8nvk1BQVYJ5jyKS7n_XKT6ECcUkX_j9iTyOvhB

3-1-12 8-9-8 15-0-0 21-6-3 28-2-14
3-1-12 5-7-12 6-2-8 6-6-3 6-8-11

DATE



| | | | | | | | | | |
|-----------------------|-------|---------------------------------|--|----------|------|---------------------------|----------------------|----------------|----------|
| Plate Offsets (X,Y)-- | | [8:0-4-3,0-0-0], [9:Edge,0-2-0] | | | | | | | |
| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. in (loc) l/defl L/d | | PLATES GRIP | |
| TCLL | 25.0 | Plate Grip DOL 1.15 | | TC | 0.59 | Vert(LL) | -0.19 14-15 >536 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL 1.15 | | BC | 0.81 | Vert(CT) | -0.39 14-15 >266 240 | M18SHS | 197/144 |
| BCLL | 0.0 * | Rep Stress Incr YES | | WB | 0.37 | Horz(CT) | -0.04 9 n/a n/a | | |
| BCDL | 10.0 | Code IRC2018/TPI2014 | | Matrix-S | | Wind(LL) | 0.07 10-12 >999 240 | Weight: 108 lb | FT = 10% |

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
3-14: 2x3 SPF No.2
WEBS 2x3 SPF No.2 *Except*
1-15: 2x4 SPF No.2, 8-9: 2x6 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-10-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-9-2 oc bracing. Except:
1 Row at midpt 3-13
WEBS 1 Row at midpt 7-12

REACTIONS.

(size) 15=0-3-8, 14=0-3-8, 9=Mechanical
Max Horz 15=285(LC 5)
Max Uplift 15=53(LC 9), 14=247(LC 8), 9=123(LC 9)
Max Grav 15=377(LC 16), 14=1578(LC 15), 9=954(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=330/137, 2-3=198/319, 3-5=649/219, 5-7=607/183, 7-8=1090/167, 8-9=784/159
BOT CHORD 14-15=151/295, 13-14=1286/216, 3-13=1184/248, 10-12=56/768, 9-10=56/768
WEBS 2-14=358/197, 3-12=0/604, 7-12=575/237, 7-10=0/254

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) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15 except (jt=lb) 14=247, 9=123.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 28,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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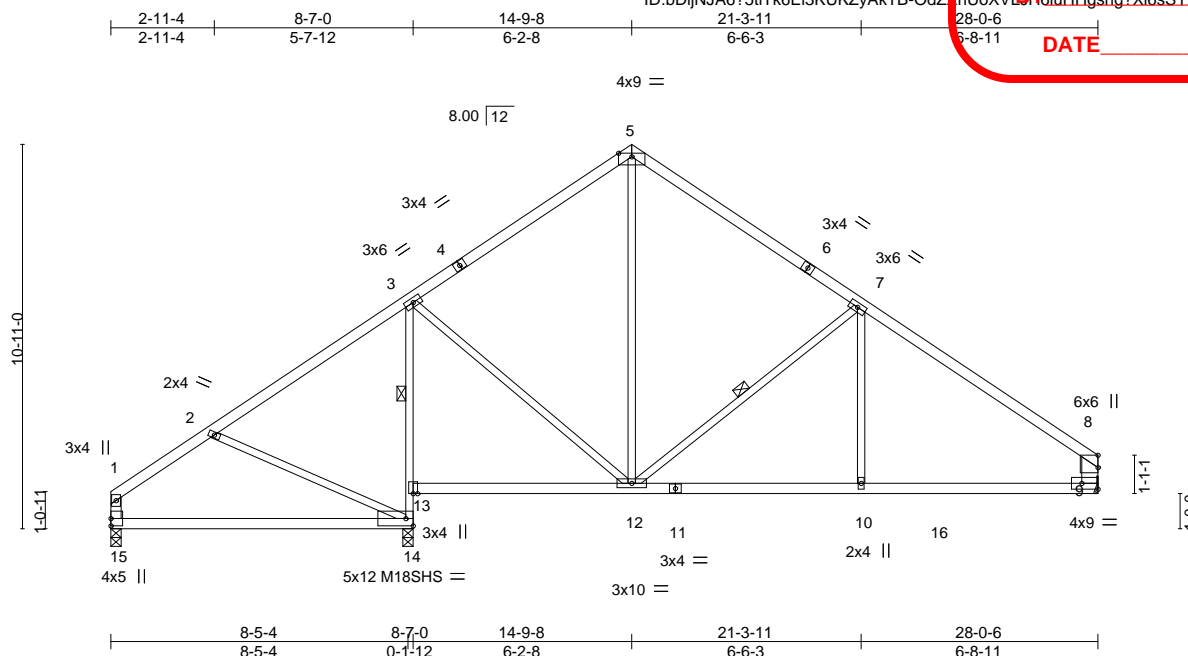


16023 Swingley Ridge Rd
Chesterfield, MO 63017

| | | | | | | |
|--------|-------|--------------|-----|-----|--------------------------|--|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 | Release for Construction AS NOTED ON PLANS REVIEW CODES ADMINISTRATION LEE'S SUMMIT, MISSOURI |
| 210382 | E5 | Roof Special | 4 | 1 | Job Reference (optional) | 13391963 |

Wheeler Lumber, Waverly, KS - 66871,

8.420 s Oct 9 2020 MiTek Industries, Inc. Wed Oct 28 10:28:51 2020 Page 1
ID: bDljNJA675tiTk6EI3KUKZyAkTB-OdZihUoXVLr6iuhHhgshg?Xi6sSYx3ttmeTjEvyOvha



| | | | | | | | | | |
|-----------------------|-------|---------------------------------|------|----------|------|---------------------------|----------------------|----------------|----------|
| Plate Offsets (X,Y)-- | | [8:0-4-3,0-0-0], [9:Edge,0-2-0] | | | | | | | |
| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. in (loc) l/defl L/d | | PLATES GRIP | |
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.59 | Vert(LL) | -0.17 14-15 >583 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.80 | Vert(CT) | -0.35 14-15 >289 240 | M18SHS | 197/144 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.36 | Horz(CT) | -0.04 9 n/a n/a | | |
| BCDL | 10.0 | Code IRC2018/TPI2014 | | Matrix-S | | Wind(LL) | 0.05 10-12 >999 240 | Weight: 107 lb | FT = 10% |

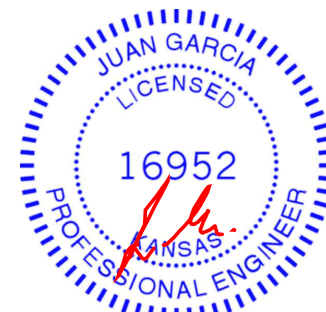
LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
3-14: 2x3 SPF No.2
WEBS 2x3 SPF No.2 *Except*
1-15: 2x4 SPF 2400F 2.0E, 8-9: 2x6 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-9-2 oc bracing. Except:
1 Row at midpt 3-13
WEBS 1 Row at midpt 7-12

REACTIONS. (size) 15=0-3-8, 14=0-3-8, 9=Mechanical
Max Horz 15=229(LC 5)
Max Uplift 15=-12(LC 4), 14=-63(LC 8), 9=-20(LC 9)
Max Grav 15=346(LC 14), 14=1560(LC 13), 9=941(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-282/91, 2-3=-149/303, 3-5=-631/123, 5-7=-597/102, 7-8=-1076/57, 8-9=-772/61
BOT CHORD 14-15=-121/258, 13-14=-1282/66, 3-13=-1179/98, 10-12=0/762, 9-10=0/762
WEBS 2-14=-339/114, 3-12=0/612, 7-12=-561/129, 7-10=0/255

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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
 - 3) All plates are MT20 plates unless otherwise indicated.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 14, 9.
 - 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.



October 28, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

**RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI**

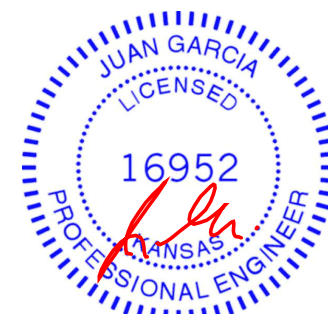
8.420 s Oct 9 2020 MiTek Industries, Inc. Wed Oct 28 10:28:52 2020 Page 1

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NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 6.
- 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.



WARNING - verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MM1/473 (rev. 3/19/2020) BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



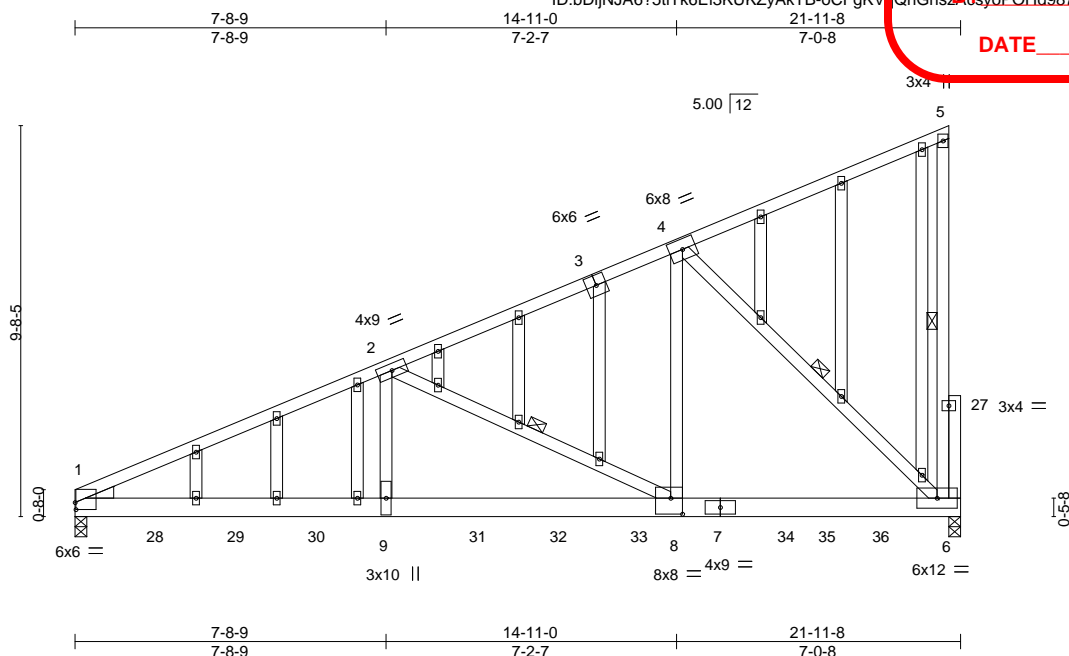
| | | | | | | |
|--------|-------|------------|-----|-----|--------------------------|--|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 | RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW CODES ADMINISTRATION LEE'S SUMMIT, MISSOURI |
| 210382 | G1 | GABLE | 1 | 2 | Job Reference (optional) | 13391965 |

Wheeler Lumber, Waverly, KS - 66871,

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ID: bDljNJA675tiTk6EI3KUKZyAkTB-oCFgKVQnGhszAsyoPOHd9874SO8H2JSchNrEyOvh7

DATE _____



| Plate Offsets (X,Y)-- [1:0-0-4,0-2-2], [8:0-3-8,0-4-12] | | | | | | | | | | | |
|---|-------|----------------------|------|----------|------|----------------|-----------|------------|-----|----------------|----------|
| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. in (loc) | | L/defl L/d | | PLATES | GRIP |
| TCLL | 25.0 | Plate Grip DOL | 1.15 | TC | 0.93 | Vert(LL) | -0.20 1-9 | >999 | 360 | MT20 | 197/144 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.86 | Vert(CT) | -0.35 1-9 | >731 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.91 | Horz(CT) | 0.06 6 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2018/TPI2014 | | Matrix-S | | Wind(LL) | 0.13 1-9 | >999 | 240 | Weight: 313 lb | FT = 10% |

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
1-3: 2x4 SPF 2400F 2.0E
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SPF No.2
OTHERS 2x4 SPF No.2
WEDGE
Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-6, 2-8, 4-6

REACTIONS.

(size) 6=0-3-8 (req. 0-4-3), 1=0-3-8 (req. 0-4-2)
Max Horz 1=404(LC 24)
Max Uplift 6=363(LC 8), 1=465(LC 8)
Max Grav 6=5342(LC 2), 1=5238(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-9437/646, 2-4=-4798/290
BOT CHORD 1-9=-698/8522, 8-9=-698/8522, 6-8=-268/4353
WEBS 2-9=-155/3659, 2-8=-4633/511, 4-8=-215/5524, 4-6=-5972/468

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-4-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end 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 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- WARNING: Required bearing size at joint(s) 6, 1 greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=363, 1=465.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2



October 28, 2020

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

| | | | | | | |
|--------|-------|------------|-----|-----|--------------------------|--|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 | RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW CODES ADMINISTRATION LEE'S SUMMIT, MISSOURI |
| 210382 | G1 | GABLE | 1 | 2 | Job Reference (optional) | 13391965 |

Wheeler Lumber, Waverly, KS - 66871,

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NOTES-

- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 844 lb down and 143 lb up at 1-11-4, 844 lb down and 143 lb up at 3-11-4, 840 lb down and 40 lb up at 5-11-4, 840 lb down and 40 lb up at 7-11-4, 840 lb down and 40 lb up at 9-11-4, 840 lb down and 40 lb up at 11-11-4, 882 lb down and 26 lb up at 13-11-4, 868 lb down and 26 lb up at 15-11-4, and 878 lb down and 26 lb up at 17-11-4, and 882 lb down and 26 lb up at 19-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-5=-70, 1-6=-20
- Concentrated Loads (lb)
- Vert: 7=-850(B) 9=-795(B) 28=-798(B) 29=-798(B) 30=-795(B) 31=-795(B) 32=-795(B) 33=-850(B) 35=-850(B) 36=-850(B)

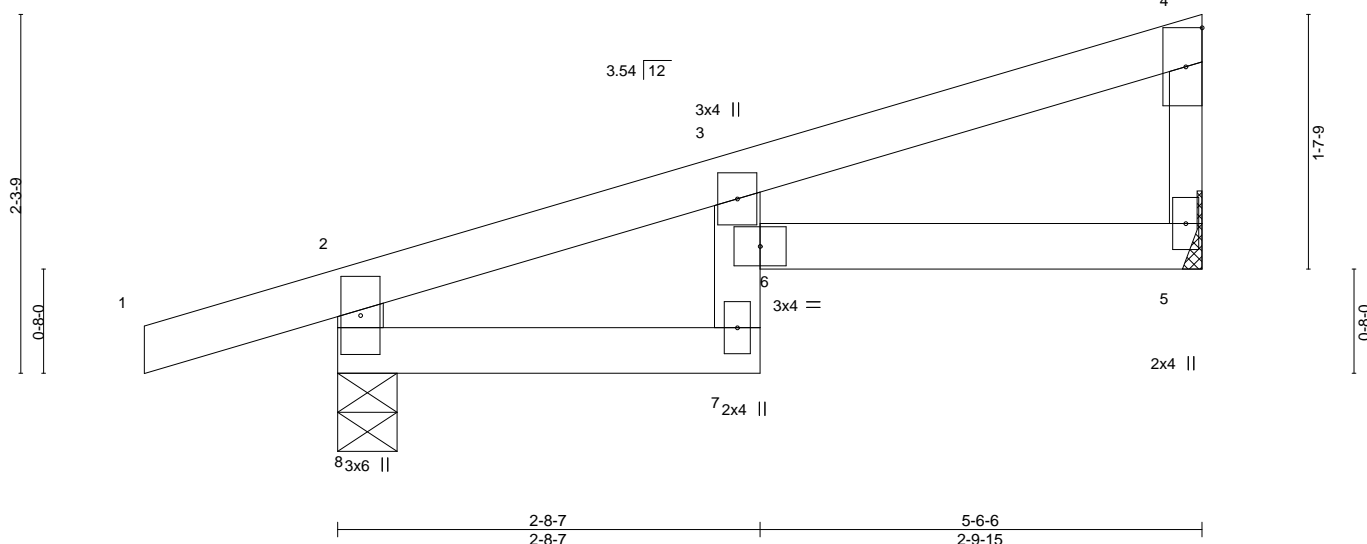
| | | | | | |
|--------------------------------------|-------|---------------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 |
| 210382 | J1 | Diagonal Hip Girder | 2 | 1 | |
| Wheeler Lumber, Waverly, KS - 66871, | | | | | |

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

8.420 s Oct 9 2020 MiTek Industries, Inc. Wed Oct 28 10:28:55 2020 Page 1
ID: bDljNJA6?5tiTk6EI3KUKZyAkTB-GPp2Krr2YapjB2WWwdqriTXUxftySThGRwNhyOvh6

-1-2-14 2-8-7 5-6-6
1-2-14 2-8-7 2-9-15

DATE _____



| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|------|---------------|----------|
| TCLL 25.0 | Plate Grip DOL | 1.15 | TC 0.31 | Vert(LL) | -0.04 | 6 | >999 | MT20 | 197/144 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.28 | Vert(CT) | -0.07 | 6 | >952 | | |
| BCLL 0.0 * | Rep Stress Incr | NO | WB 0.00 | Horz(CT) | 0.02 | 5 | n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | Matrix-R | Wind(LL) | 0.03 | 6 | >999 | | |
| | | | | | | | | Weight: 16 lb | FT = 10% |

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 8=0-4-9, 5=Mechanical
Max Horz 8=81(LC 22)
Max Uplift 8=-103(LC 4), 5=-48(LC 8)
Max Grav 8=347(LC 1), 5=225(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-8=-312/116, 2-3=-250/35

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 8=103.
- 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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 68 lb down and 34 lb up at 2-9-8, and 68 lb down and 34 lb up at 2-9-8 on top chord, and 2 lb down and 0 lb up at 2-6-11, and 2 lb down and 0 lb up at 2-6-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) 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

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-70, 2-4=-70, 7-8=-20, 5-6=-20
Concentrated Loads (lb)
Vert: 7=1(F=0, B=0)



October 28, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

| | | | | | |
|--------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 |
| 210382 | J2 | Jack-Open | 3 | 1 | |

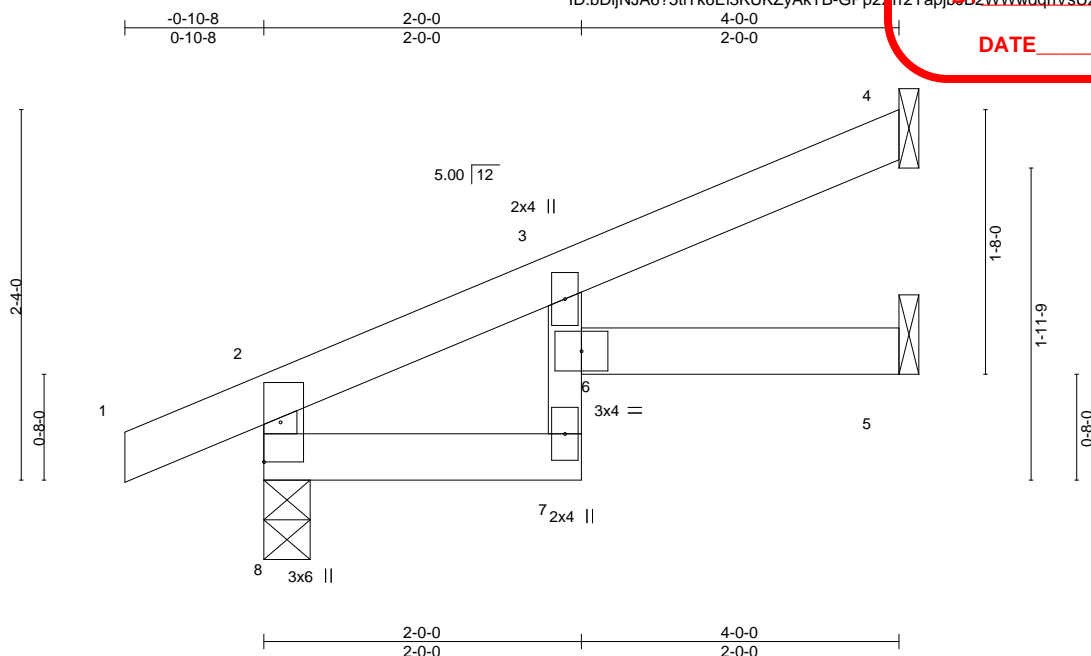
Wheeler Lumber, Waverly, KS - 66871,

8.420 s Oct 9 2020 MiTek Industries, Inc. Wed Oct 28 10:28:55 2020 Page 1

ID: bDljNJA675tiTk6EI3KUKZyAkTB-GPp2rr2Yapj002WWwdqriVsUz6tySthGRwNhyOvh6

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

DATE _____



| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | I/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|------|---------------|----------|
| TCLL 25.0 | Plate Grip DOL | 1.15 | TC 0.16 | Vert(LL) | -0.01 | 6 | >999 | 360 | MT20 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.18 | Vert(CT) | -0.03 | 7 | >999 | 240 | 197/144 |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.00 | Horz(CT) | 0.01 | 5 | n/a | n/a | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | Matrix-R | Wind(LL) | 0.02 | 6 | >999 | 240 | |
| | | | | | | | | Weight: 12 lb | FT = 10% |

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
3-7: 2x3 SPF No.2
WEBS 2x3 SPF No.2

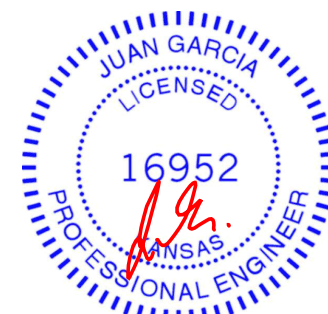
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 4=Mechanical, 5=Mechanical
Max Horz 8=74(LC 8)
Max Uplift 8=-37(LC 8), 4=-46(LC 8), 5=-4(LC 8)
Max Grav 8=250(LC 1), 4=109(LC 1), 5=62(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 4, 5.
- 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.



October 28, 2020

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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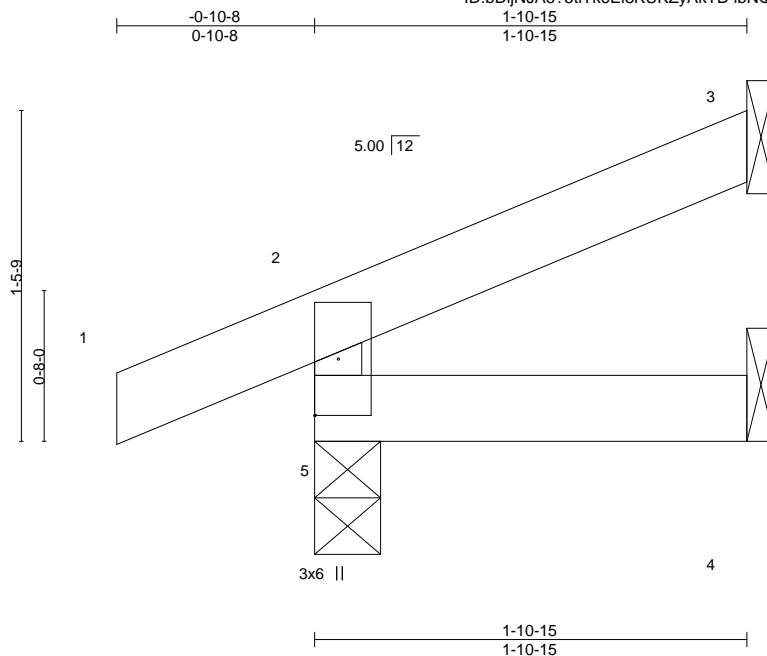
| | | | | | |
|--------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 |
| 210382 | J3 | Jack-Open | 4 | 1 | |

Wheeler Lumber, Waverly, KS - 66871,

8.420 s Oct 9 2020 MiTek Industries, Inc. Wed Oct 28 10:28:56 2020 Page 1
ID: bDijNJA675tiTk6EI3KUKZyAkTB-lbNQBrgJtxat9mfF4DRsN2Eh5tlrcPhcwwAUvZyOvh5

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

DATE _____



| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|------|--------|-----------------------|
| TCLL 25.0 | Plate Grip DOL | 1.15 | TC 0.06 | Vert(LL) | -0.00 | 5 | >999 | 360 | MT20 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.02 | Vert(CT) | -0.00 | 4-5 | >999 | 240 | 197/144 |
| 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 | 5 | >999 | 240 | |
| | | | | | | | | | Weight: 6 lb FT = 10% |

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=39(LC 8)
Max Uplift 5=33(LC 4), 3=28(LC 8)
Max Grav 5=168(LC 1), 3=46(LC 1), 4=33(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 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.



October 28, 2020

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

| | | | | | |
|--------|-------|-------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 |
| 210382 | R1 | Flat Girder | 1 | 2 | |

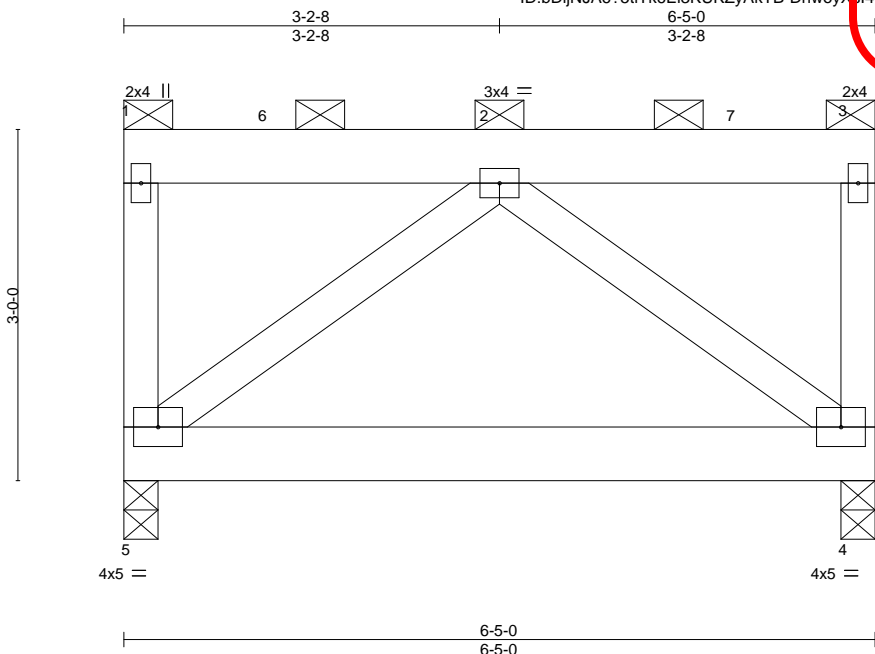
Wheeler Lumber, Waverly, KS - 66871,

8.420 s Oct 9 2020 MiTek Industries, Inc. Wed Oct 28 10:28:57 2020 Page 1

ID:bDijNJA6?5tiT6Ei3KUKZyAkTB-DnwoyXs4B3RqgKdwy5vGno7HfVLqQm8aw1RZyQvh4

RELEASE FOR CONSTRUCTION
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| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|-----------|--------|-----|---------------|----------|
| TCLL 25.0 | Plate Grip DOL | 1.15 | TC 0.37 | Vert(LL) | -0.01 4-5 | >999 | 360 | MT20 | 197/144 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.19 | Vert(CT) | -0.02 4-5 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | NO | WB 0.16 | Horz(CT) | 0.00 4 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | Matrix-P | Wind(LL) | 0.00 5 | **** | 240 | Weight: 72 lb | FT = 10% |

LUMBER-
TOP CHORD 2x6 SPF No.2
BOT CHORD 2x6 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins: 1-3, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

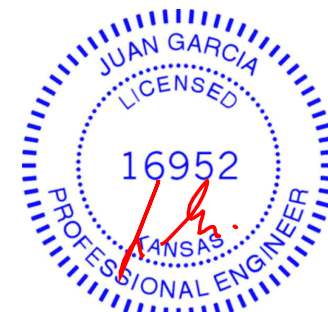
REACTIONS. (size) 5=0-3-8, 4=0-3-8
Max Horz 5=97(LC 22)
Max Uplift 5=400(LC 4), 4=-416(LC 5)
Max Grav 5=1989(LC 1), 4=2070(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-5=-666/147, 3-4=-747/162
BOT CHORD 4-5=-371/1520
WEBS 2-5=-1975/456, 2-4=-1975/455

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=400, 4=416.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1169 lb down and 244 lb up at 1-3-12, and 1169 lb down and 244 lb up at 3-3-12, and 1170 lb down and 244 lb up at 5-3-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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



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Continued on page 2

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MiTek®
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| | | | | | | |
|--------|-------|-------------|-----|-----|--------------------------|----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 | 13291969 |
| 210382 | R1 | Flat Girder | 1 | 2 | Job Reference (optional) | |

Wheeler Lumber, Waverly, KS - 66871,

8.420 s Oct 9 2020 MiTek Industries, Inc. Wed Oct 28 10:28:57 2020 Page 2
ID:bDljNJA6?5tiTk6EI3KUKZyAkTB-DnwoyXsl4B3RqzKdwy5vGno7HfVLqQm8aw1RZyQvh4

RELEASE FOR CONSTRUCTION
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LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-3=-70, 4-5=-20
Concentrated Loads (lb)
Vert: 2=-1169 6=-1169 7=-1170

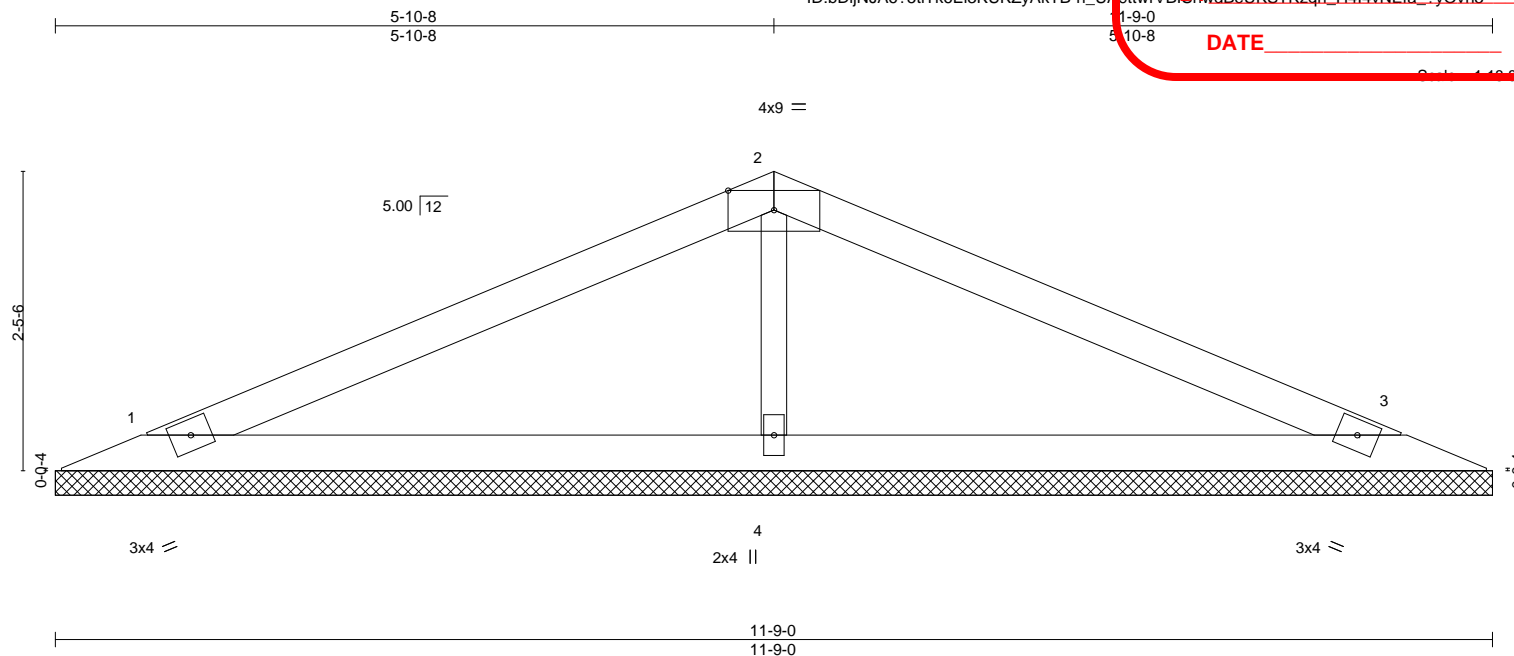
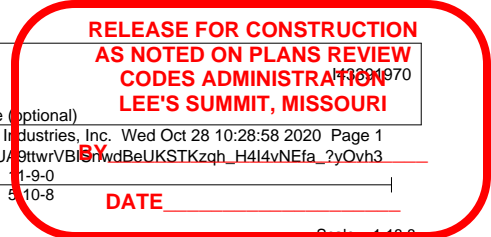
DATE _____

| | | | | | | |
|--------|-------|------------|-----|-----|-----------|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 | Job Reference (optional) |
| 210382 | V1 | Valley | 1 | 1 | | |

Wheeler Lumber, Waverly, KS - 66871,

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ID: bDljNJA675tiTk6EI3KUKZyAkTB-h_UA9ttwrVBISrwdBeUKSTKzqh_H4I4vNEfa_2yQvh3



| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|------|-------|--------|-----|---------------|----------|
| TCLL 25.0 | Plate Grip DOL | 1.15 | TC 0.37 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 197/144 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.22 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.07 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | Matrix-S | | | | | | Weight: 27 lb | FT = 10% |

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

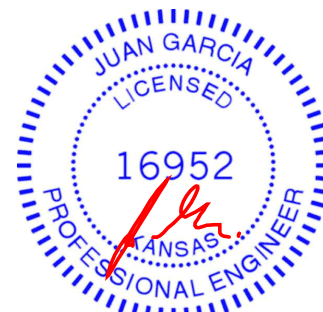
(size) 1=11-9-0, 3=11-9-0, 4=11-9-0
Max Horz 1=38(LC 12)
Max Uplift 1=44(LC 8), 3=50(LC 9), 4=32(LC 8)
Max Grav 1=211(LC 21), 3=211(LC 22), 4=507(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 2-4=-353/93

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 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.



October 28, 2020

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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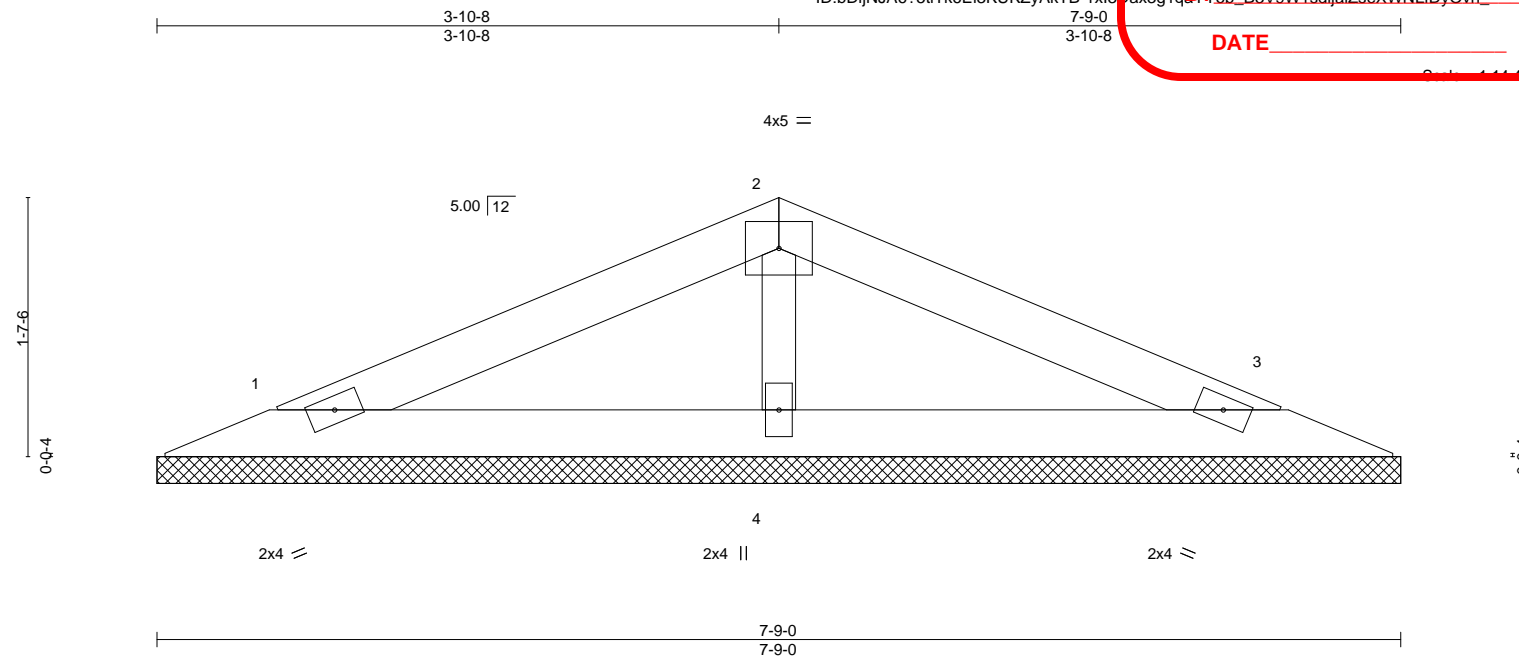
| | | | | | | |
|--------|-------|------------|-----|-----|-----------|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 | Job Reference (optional) |
| 210382 | V2 | Valley | 1 | 1 | | |

Wheeler Lumber, Waverly, KS - 66871,

8.420 s Oct 9 2020 MiTek Industries, Inc. Wed Oct 28 10:29:03 2020 Page 1

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DATE



| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 25.0 | Plate Grip DOL | 1.15 | TC 0.17 | Vert(LL) | n/a | - | n/a | MT20 | 197/144 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.08 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.04 | Horz(CT) | 0.00 | 3 | n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | Matrix-P | | | | | Weight: 17 lb | FT = 10% |

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=7-9-0, 3=7-9-0, 4=7-9-0
Max Horz 1=23(LC 9)
Max Uplift 1=33(LC 8), 3=37(LC 9), 4=7(LC 8)
Max Grav 1=142(LC 1), 3=142(LC 1), 4=278(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 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.



October 28, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

| | | | | | |
|--------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 |
| 210382 | V3 | Valley | 1 | 1 | |

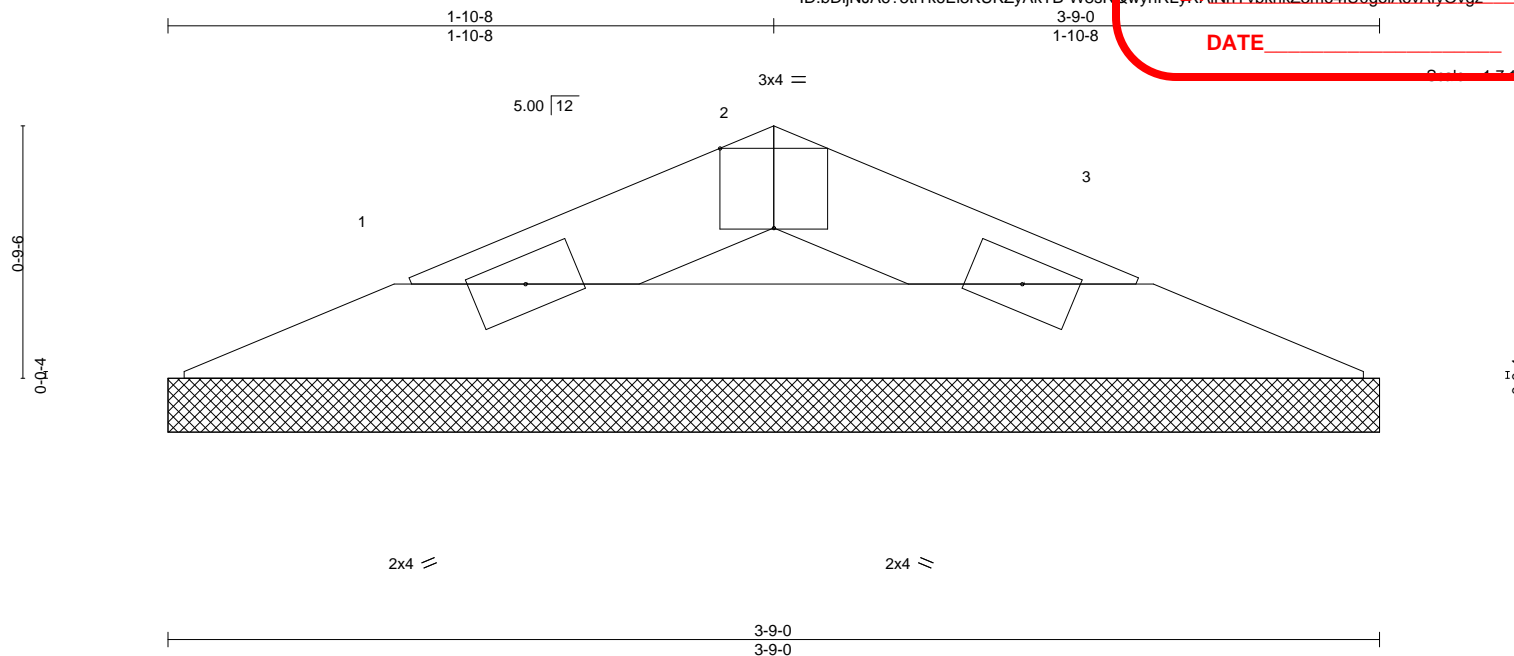
Wheeler Lumber, Waverly, KS - 66871,

8.420 s Oct 9 2020 MiTek Industries, Inc. Wed Oct 28 10:29:04 2020 Page 1

ID: bDijNJA675tiTk6EI3KUKZyAkTB-W8sRQwyhRLyRAiNnYvbkhkZ3m64IU0golA6vAfyOvgz

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

DATE



| Plate Offsets (X,Y)-- | | [2:0-2-0,Edge] | |
|-----------------------|-----------------|-----------------|-------------------------|
| LOADING (psf) | SPACING- | 2-0-0 | CSI. |
| TCLL 25.0 | Plate Grip DOL | 1.15 | TC 0.02 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.05 |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.00 |
| BCDL 10.0 | Code | IRC2018/TPI2014 | Matrix-P |
| | | | DEFL. |
| | | | in (loc) l/defl L/d |
| | | | Vert(LL) n/a - n/a 999 |
| | | | Vert(CT) n/a - n/a 999 |
| | | | Horz(CT) 0.00 3 n/a n/a |
| | | | PLATES |
| | | | MT20 |
| | | | GRIP |
| | | | 197/144 |
| | | | Weight: 7 lb |
| | | | FT = 10% |

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-9-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

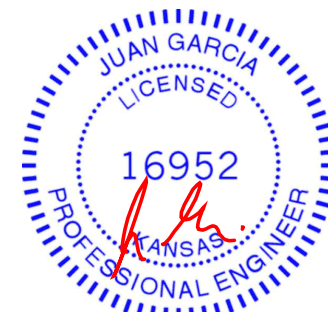
REACTIONS.

(size) 1=3-9-0, 3=3-9-0
Max Horz 1=8(LC 8)
Max Uplift 1=-13(LC 8), 3=-13(LC 9)
Max Grav 1=101(LC 1), 3=101(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 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.



October 28, 2020

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

| | | | | | | |
|--------|-------|------------|-----|-----|-----------|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 | Job Reference (optional) |
| 210382 | V4 | GABLE | 1 | 1 | | |

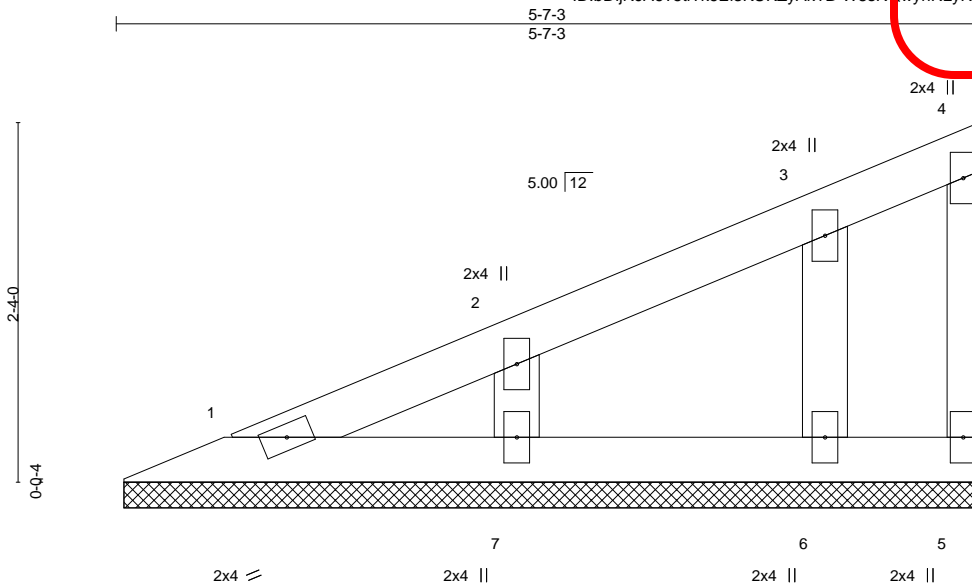
Wheeler Lumber, Waverly, KS - 66871,

8.420 s Oct 9 2020 MiTek Industries, Inc. Wed Oct 28 10:29:04 2020 Page 1

ID:bDlJNJA675tiTk6EI3KUKZyAkTB-W8sRwYhRLyRiNnYvbkhkZ3B64hU0NoIA6vAfyOvgz

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

DATE _____



| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 25.0 | Plate Grip DOL | 1.15 | TC 0.06 | Vert(LL) | n/a | - | n/a | MT20 | 197/144 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.03 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.02 | Horz(CT) | -0.00 | 5 | n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | Matrix-P | | | | | | |
| | | | | | | | | Weight: 16 lb | FT = 10% |

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-7-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 5-6-10.

(lb) - Max Horz 1=87(LC 5)

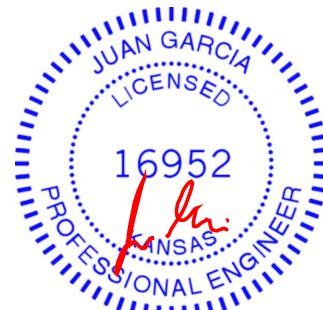
Max Uplift All uplift 100 lb or less at joint(s) 5, 7, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 6

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 7, 6.
- 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.



October 28, 2020

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

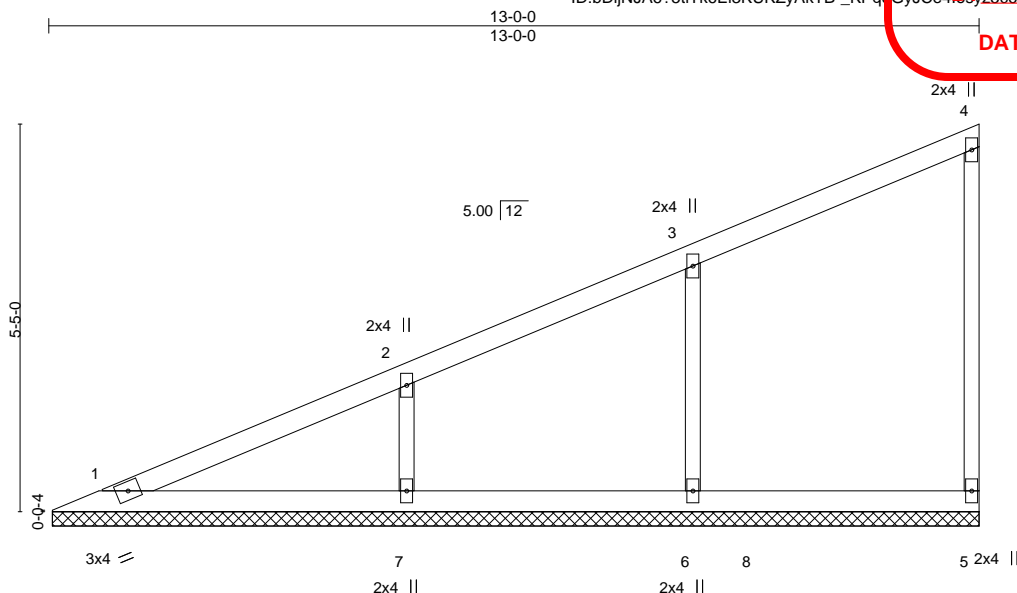
| | | | | | | |
|--------|-------|------------|-----|-----|--------------------------|--|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 | RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW CODES ADMINISTRATION LEE'S SUMMIT, MISSOURI |
| 210382 | V5 | Valley | 1 | 1 | Job Reference (optional) | 143891974 |

Wheeler Lumber, Waverly, KS - 66871,

8.420 s Oct 9 2020 MiTek Industries, Inc. Wed Oct 28 10:29:05 2020 Page 1

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DATE _____



| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | L/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 25.0 | Plate Grip DOL | 1.15 | TC 0.22 | Vert(LL) | n/a | - | n/a | 999 | MT20 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.14 | Vert(CT) | n/a | - | n/a | 999 | 197/144 |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.09 | Horz(CT) | -0.00 | 5 | n/a | n/a | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | Matrix-S | | | | | | |
| | | | | | | | | Weight: 38 lb | FT = 10% |

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 12-11-6.

(lb) - Max Horz 1=221(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) 5, 6 except 7=111(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=411(LC 2), 7=424(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 3-6=-296/143, 2-7=-315/161

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6 except (jt=lb) 7=111.
- 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.



October 28, 2020

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16023 Swingley Ridge Rd
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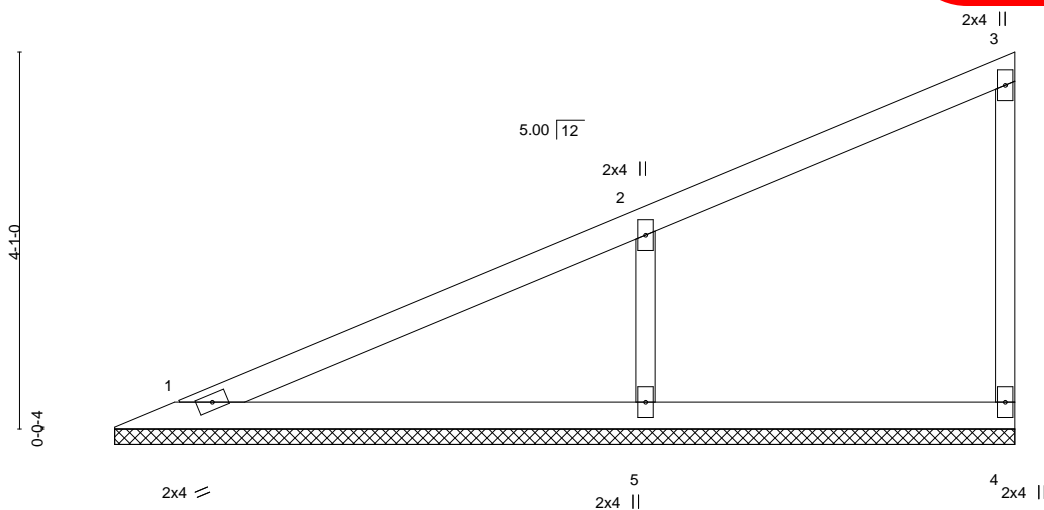
| | | | | | | |
|--------|-------|------------|-----|-----|-----------|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 | Job Reference (optional) |
| 210382 | V6 | Valley | 1 | 1 | | |

Wheeler Lumber, Waverly, KS - 66871,

8.420 s Oct 9 2020 MiTek Industries, Inc. Wed Oct 28 10:29:06 2020 Page 1

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DATE _____



| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 25.0 | Plate Grip DOL | 1.15 | TC 0.32 | Vert(LL) | n/a | - | n/a | 999 | MT20 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.17 | Vert(CT) | n/a | - | n/a | 999 | 197/144 |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.08 | Horz(CT) | -0.00 | 4 | n/a | n/a | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | Matrix-S | | | | | | |
| | | | | | | | | Weight: 27 lb | FT = 10% |

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=9-9-0, 4=9-9-0, 5=9-9-0
Max Horz 1=163(LC 5)
Max Uplift 4=-23(LC 5), 5=-134(LC 8)
Max Grav 1=182(LC 1), 4=117(LC 1), 5=505(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 2-5=-383/188

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=134.
- 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.



October 28, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

| | | | | | | |
|--------|-------|------------|-----|-----|-----------|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 | Job Reference (optional) |
| 210382 | V7 | Valley | 1 | 1 | | |

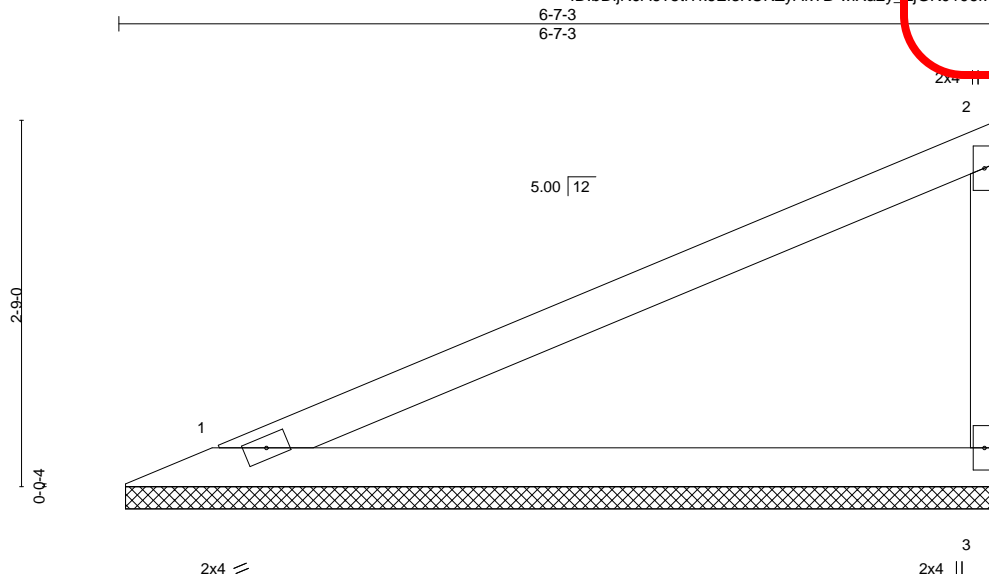
Wheeler Lumber, Waverly, KS - 66871,

8.420 s Oct 9 2020 MiTek Industries, Inc. Wed Oct 28 10:29:07 2020 Page 1

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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

DATE _____



| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 25.0 | Plate Grip DOL | 1.15 | TC 0.65 | Vert(LL) | n/a | - | n/a | 999 | MT20 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.35 | Vert(CT) | n/a | - | n/a | 999 | 197/144 |
| 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-P | | | | | | |
| | | | | | | | | Weight: 16 lb | FT = 10% |

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-7-3 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=6-6-10, 3=6-6-10
 Max Horz 1=105(LC 5)
 Max Uplift 1=38(LC 8), 3=59(LC 8)
 Max Grav 1=258(LC 1), 3=258(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.



October 28, 2020

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16023 Swingley Ridge Rd
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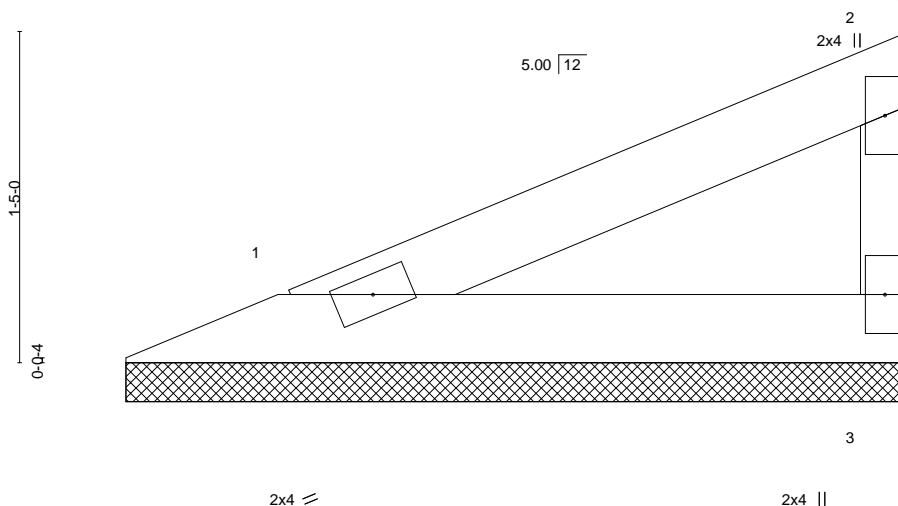
| | | | | | | |
|--------|-------|------------|-----|-----|-----------|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 | Job Reference (optional) |
| 210382 | V8 | Valley | 1 | 1 | | |

Wheeler Lumber, Waverly, KS - 66871,

8.420 s Oct 9 2020 MiTek Industries, Inc. Wed Oct 28 10:29:07 2020 Page 1

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DATE _____



| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|--------------|----------|
| TCLL 25.0 | Plate Grip DOL | 1.15 | TC 0.11 | Vert(LL) | n/a | - | n/a | MT20 | 197/144 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.06 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.00 | Horz(CT) | -0.00 | 3 | 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
WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-4-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=3-4-3, 3=3-4-3
Max Horz 1=47(LC 5)
Max Uplift 1=-17(LC 8), 3=-26(LC 8)
Max Grav 1=114(LC 1), 3=114(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.



October 28, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

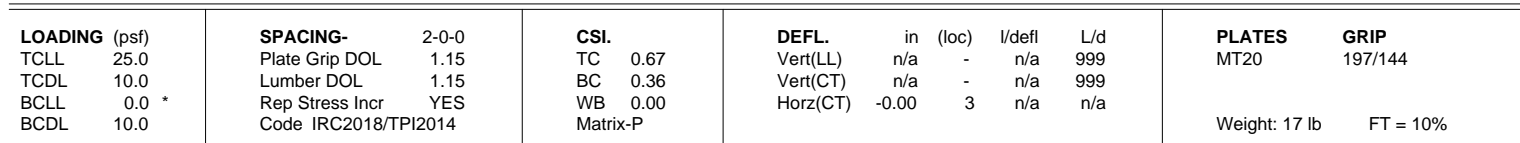


16023 Swingley Ridge Rd
Chesterfield, MO 63017

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
CODES ADMINISTRATION 11/13/2019 78
LEE'S SUMMIT, MISSOURI

optional)
dustries, Inc. Wed Oct 28 10:29:08 2020 Page 1
GI?CUZ2U?hYnkgfsakbfjMOQqgNgn46JQyOvgv

DATE



| | |
|------------------|---|
| BRACING- | |
| TOP CHORD | Structural wood sheathing directly applied or 6-8-0 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.



October 28, 2020



WARNING - verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MM1/473 (rev. 3/19/2020) BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

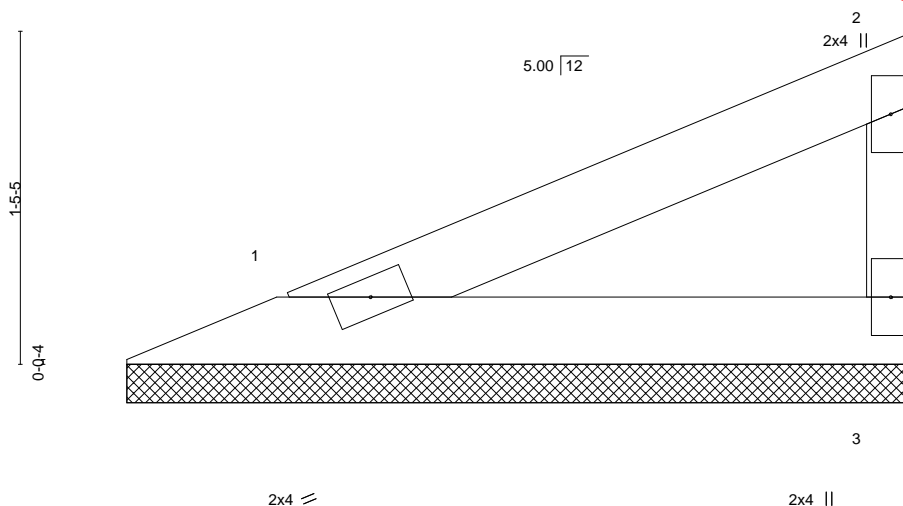
| | | | | | | |
|--------|-------|------------|-----|-----|-----------|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 | Job Reference (optional) |
| 210382 | V10 | Valley | 1 | 1 | | |

Wheeler Lumber, Waverly, KS - 66871,

8.420 s Oct 9 2020 MiTek Industries, Inc. Wed Oct 28 10:28:59 2020 Page 1

ID:bDijNJA6?5tTk6E13KUKZyAkTB-9A2YNDuYcoJ84RvqLL?Z_gsCV5NxpMR2cuP8WSyOvh2

DATE _____



| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|--------------|----------|
| TCLL 25.0 | Plate Grip DOL | 1.15 | TC 0.12 | Vert(LL) | n/a | - | n/a | MT20 | 197/144 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.06 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.00 | Horz(CT) | -0.00 | 3 | 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
WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-5-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

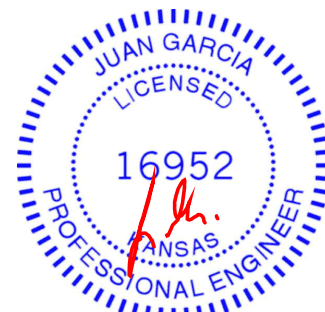
REACTIONS.

(size) 1=3-5-0, 3=3-5-0
Max Horz 1=48(LC 5)
Max Uplift 1=-17(LC 8), 3=-27(LC 8)
Max Grav 1=117(LC 1), 3=117(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.



October 28, 2020

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

| | | | | | | |
|--------|-------|------------|-----|-----|-----------|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 | Job Reference (optional) |
| 210382 | V11 | Valley | 1 | 1 | | |

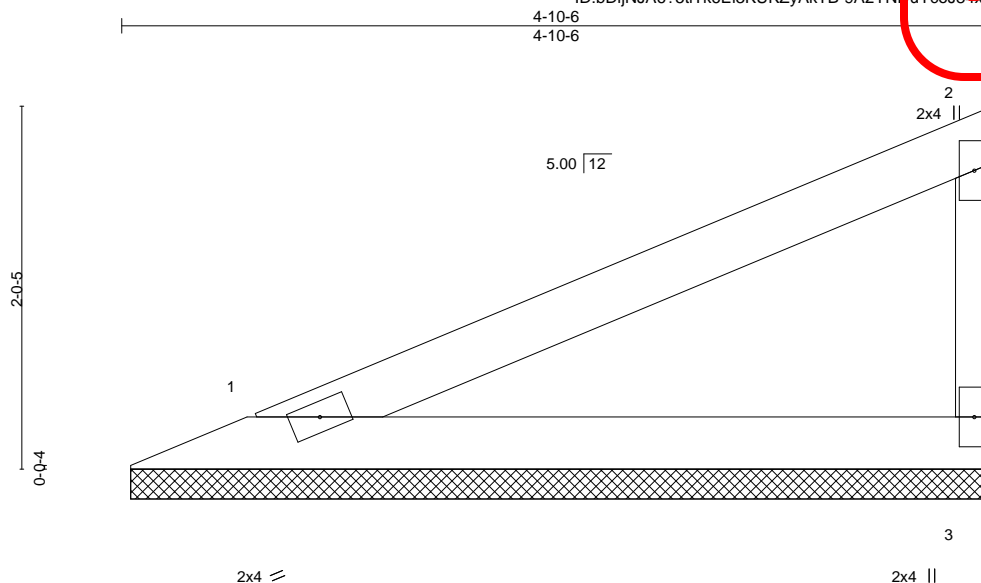
Wheeler Lumber, Waverly, KS - 66871,

8.420 s Oct 9 2020 MiTek Industries, Inc. Wed Oct 28 10:28:59 2020 Page 1

ID:bDijNJA6?5tiTk6Ei3KUKZyAkTB-9A2YNNuYcoJ8AXVqLL?Z_gs9g5LPpmR2cuP8WSyOvh2

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

DATE _____



| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | L/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 25.0 | Plate Grip DOL | 1.15 | TC 0.30 | Vert(LL) | n/a | - | n/a | 999 | MT20 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.16 | Vert(CT) | n/a | - | n/a | 999 | 197/144 |
| 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-P | | | | | | |
| | | | | | | | | Weight: 12 lb | FT = 10% |

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-10-6 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=4-9-13, 3=4-9-13
 Max Horz 1=73(LC 5)
 Max Uplift 1=26(LC 8), 3=41(LC 8)
 Max Grav 1=180(LC 1), 3=180(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.



October 28, 2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

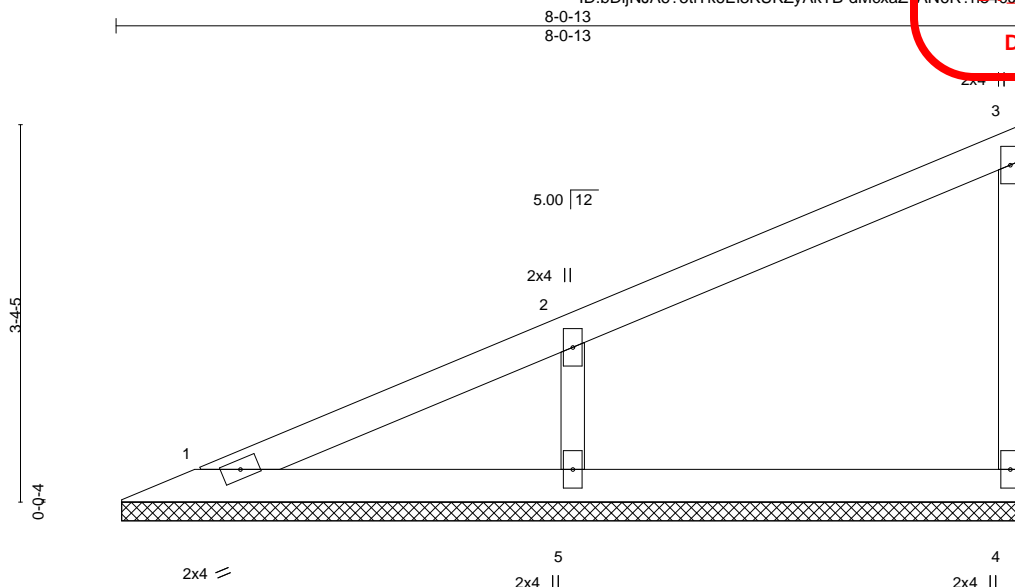
| | | | | | | |
|--------|-------|------------|-----|-----|--------------------------|--|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 | RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW CODES ADMINISTRATION LEE'S SUMMIT, MISSOURI |
| 210382 | V12 | Valley | 1 | 1 | Job Reference (optional) | 143891981 |

Wheeler Lumber, Waverly, KS - 66871,

8.420 s Oct 9 2020 MiTek Industries, Inc. Wed Oct 28 10:29:00 2020 Page 1

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DATE _____



| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | L/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|--------|------------------------|
| TCLL 25.0 | Plate Grip DOL | 1.15 | TC 0.21 | Vert(LL) | n/a | - | n/a | 999 | MT20 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.11 | Vert(CT) | n/a | - | n/a | 999 | 197/144 |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.06 | Horz(CT) | -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
WEBS 2x3 SPF No.2
OTHERS 2x3 SPF No.2

BRACING-

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

REACTIONS.

(size) 1=8-0-3, 4=8-0-3, 5=8-0-3
Max Horz 1=132(LC 5)
Max Uplift 4=24(LC 8), 5=108(LC 8)
Max Grav 1=104(LC 1), 4=137(LC 1), 5=407(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 2-5=-317/163

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=108.
- 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.



October 28, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

| | | | | | | |
|--------|-------|------------|-----|-----|-----------|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 | Job Reference (optional) |
| 210382 | V13 | Valley | 1 | 1 | | |

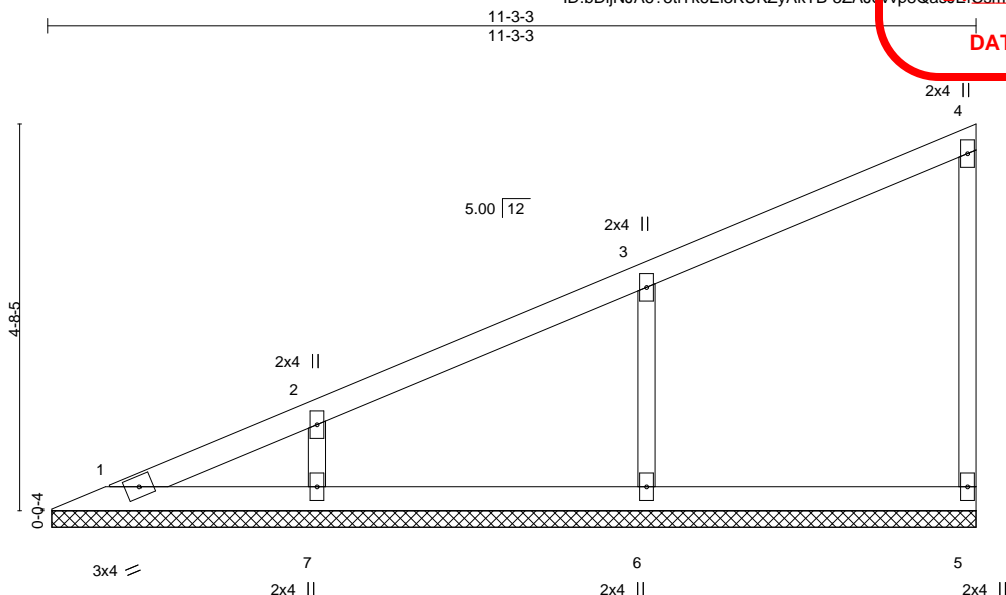
Wheeler Lumber, Waverly, KS - 66871,

8.420 s Oct 9 2020 MiTek Industries, Inc. Wed Oct 28 10:29:01 2020 Page 1

ID: bDijNJA675tiTk6EI3KUKZyAkTB-5ZAJwv8Qa39EiCsm1145xVku1gHfnL3CuFaKyOvh0

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

DATE _____



| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 25.0 | Plate Grip DOL | 1.15 | TC 0.20 | Vert(LL) | n/a | - | n/a | 999 | MT20 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.11 | Vert(CT) | n/a | - | n/a | 999 | 197/144 |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.07 | Horz(CT) | -0.00 | 5 | n/a | n/a | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | Matrix-S | | | | | | |
| | | | | | | | | Weight: 32 lb | FT = 10% |

LUMBER-

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

BRACING-

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

REACTIONS.

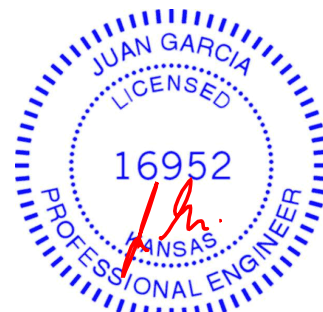
All bearings 11-2-10.
 (lb) - Max Horz 1=190(LC 5)
 Max Uplift All uplift 100 lb or less at joint(s) 5, 7 except 6=106(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=401(LC 1), 7=317(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 3-6=313/154

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 7 except (jt=lb) 6=106.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 28, 2020

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
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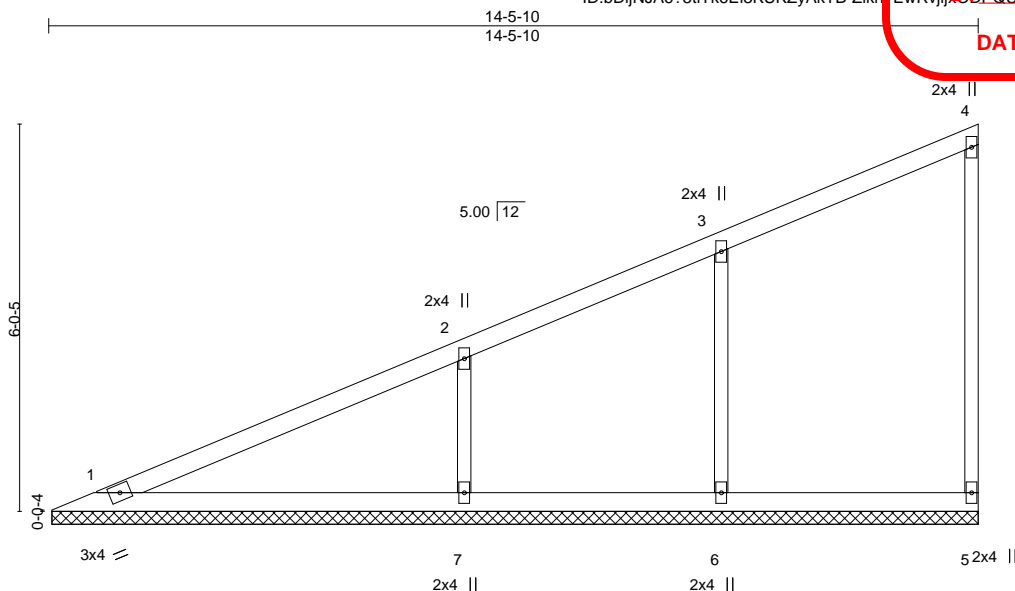
| | | | | | | |
|--------|-------|------------|-----|-----|--------------------------|--|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 | RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW CODES ADMINISTRATION LEE'S SUMMIT, MISSOURI |
| 210382 | V14 | Valley | 1 | 1 | Job Reference (optional) | 143891983 |

Wheeler Lumber, Waverly, KS - 66871,

8.420 s Oct 9 2020 MiTek Industries, Inc. Wed Oct 28 10:29:02 2020 Page 1

ID:bDljNJA6?5tiTk6EI3KUKZyAkTB-ZlkhtEwRvjijRDPQUYGcJUdFILn05RVIsdo7nyOvh?

DATE



| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 25.0 | Plate Grip DOL | 1.15 | TC 0.41 | Vert(LL) | n/a | - | n/a | MT20 | 197/144 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.25 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.11 | Horz(CT) | -0.00 | 5 | n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | Matrix-S | | | | | Weight: 43 lb | FT = 10% |

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 14-5-0.

(lb) - Max Horz 1=248(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) 5, 6 except 7=140(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=381(LC 2), 7=536(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 3-6=-267/127, 2-7=-394/200

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6 except (jt=lb) 7=140.
- 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.



October 28, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

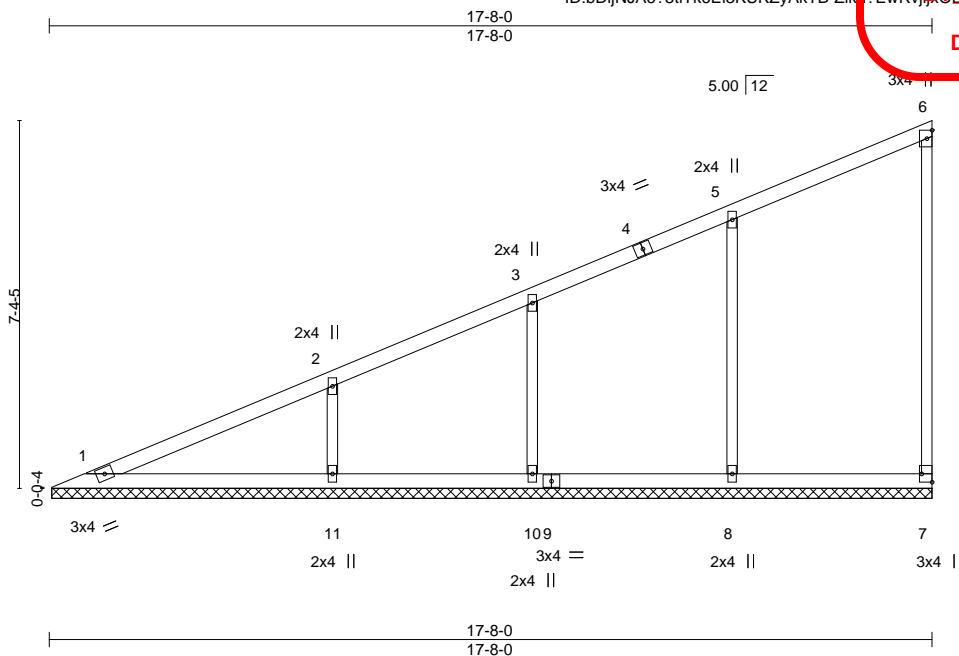
| | | | | | | |
|--------|-------|------------|-----|-----|--------------------------|--|
| Job | Truss | Truss Type | Qty | Ply | Lot 49 W2 | RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW CODES ADMINISTRATION LEE'S SUMMIT, MISSOURI |
| 210382 | V15 | Valley | 1 | 1 | Job Reference (optional) | 143891984 |

Wheeler Lumber, Waverly, KS - 66871,

8.420 s Oct 9 2020 MiTek Industries, Inc. Wed Oct 28 10:29:02 2020 Page 1

ID: bDljNJA6?5tiTk6EI3KUKZyAkTB-ZIK?EwRvjx?ODPQUYGcJUdiIMw03fVIsdo7nyOvh?

DATE _____



| | | | | | | | | | |
|--------------------------------------|----------------------|-------|-------------|--------------|----------|--------|-----|---------------|-------------|
| Plate Offsets (X,Y)-- [7:Edge,0-2-8] | | | | | | | | | |
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 25.0 | Plate Grip DOL | 1.15 | TC 0.44 | Vert(LL) | n/a | - | n/a | MT20 | 197/144 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.17 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.23 | Horz(CT) | -0.00 | 7 | n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | Matrix-S | | | | | Weight: 55 lb | FT = 10% |

LUMBER-

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

BRACING-

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

REACTIONS.

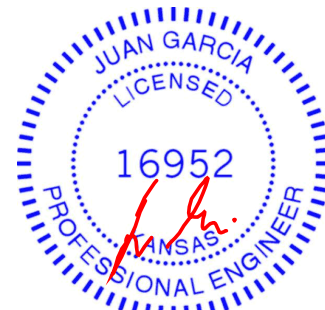
All bearings 17-7-6.
(lb) - Max Horz 1=306(LC 5)
Max Uplift All uplift 100 lb or less at joint(s) 7, 10 except 8=107(LC 8), 11=126(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 7, 1 except 8=485(LC 2), 10=347(LC 2), 11=484(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-252/74
WEBS 5-8=-313/141, 2-11=-357/178

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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 10 except (jt=lb) 8=107, 11=126.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 28, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

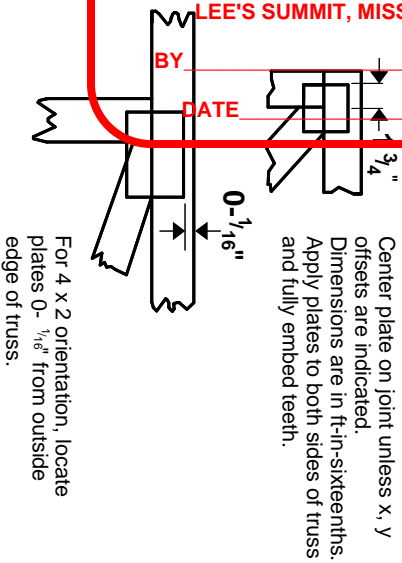


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Symbols

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

PLATE LOCATION AND ORIENTATION



—
—
This symbol indicates the required direction of slots in connector plates.

* Plate location details available in **MiTek 20/20** software or upon request.

PLATE SIZE

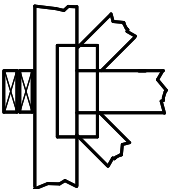
4 X 4
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

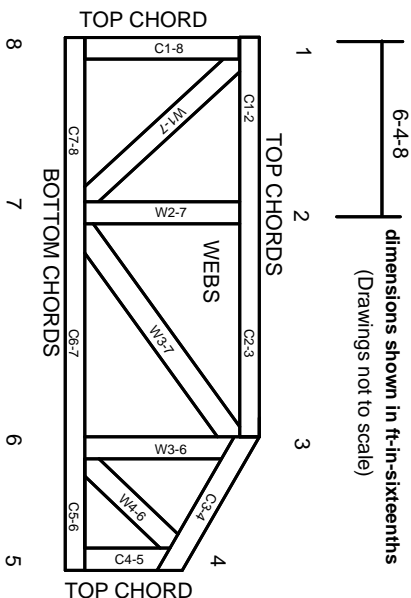


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor1 bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. 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.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.