

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

RE: 3294502 - FREEMAN RES.

MiTek USA, Inc.

16023 Swingley Ridge Rd Chesterfield, MO 63017

Site Information:

Customer Info: KEN REDICK Project Name: Freeman Res. Model: Custom

Subdivision: N/A

Lot/Block: N/A Address: 262 SW Freeman Glen, N/A

City: Columbia Cty

State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name:

License #:

Address:

City:

State:

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

Design Code: FBC2020/TPI2014

Design Program: MiTek 20/20 8.5

Wind Code: ASCE 7-16

Wind Speed: 130 mph

Roof Load: 37.0 psf

Floor Load: N/A psf

This package includes 5 individual, Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

| No. | Seal# | Truss Name | Date |
|-----|-----------|------------|---------|
| 1 | T28776019 | T01 | 9/14/22 |
| 2 | T28776020 | T01G | 9/14/22 |
| 2 | T28776021 | T02 | 9/14/22 |
| 4 | T28776022 | T04 | 9/14/22 |
| 5 | T28776023 | T04G | 9/14/22 |



This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: ORegan, Philip

My license renewal date for the state of Florida is February 28, 2023.

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



MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

September 14,2022

Job Truss Type Qty Ply FREEMAN RES. Truss T28776019 21 3294502 T01 Common 1 Job Reference (optional) Builders FirstSource (Lake City,FL), 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Sep 13 13:53:15 2022 Page 1 Lake City, FL - 32055, ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-uvQsnUSd38l6ZekQr0FkeMrshm6Cnpy7_PxxaKye1?Y 27-4-9 37-11-14 44-0-0 22-0-0 11-1-12

5-4-9

5-5-1

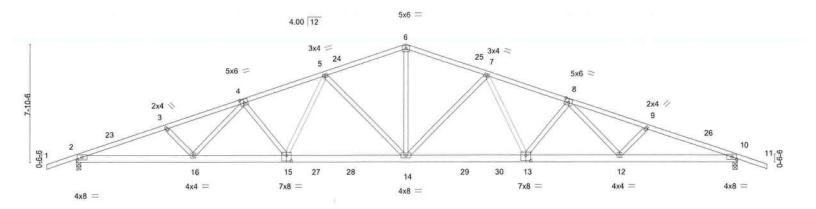
2-0-0 Scale = 1:77.0

6-0-2

5-1-10

Structural wood sheathing directly applied or 2-5-4 oc purlins.

Rigid ceiling directly applied or 7-6-12 oc bracing.



| | 9 | 7-9-8 | 14-0-0 | 22-0-0 | 30-0-0 | | 36-2-8 | 44-0-0 | |
|-------------|-----------|----------------------------|-------------------|---------------------------------|-------------------------------|----------|--------|----------------|----------|
| | | 7-9-8 | 6-2-8 | 8-0-0 | 8-0-0 | | 6-2-8 | 7-9-8 | |
| Plate Offse | ets (X,Y) | [2:0-3-12,0-2-0], [4:0-3-0 | ,0-3-0], [8:0-3-0 | ,0-3-0], [10:0-3-12,0-2-0], [13 | 0-4-0,0-4-8], [15:0-4-0,0-4-8 | 1 | | | |
| LOADING | (psf) | SPACING- | 2-0-0 | CSI. | DEFL. in (loc) | I/defl L | ./d | PLATES | GRIP |
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC 0.53 | Vert(LL) -0.41 13-14 | >999 2 | 40 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC 0.87 | Vert(CT) -0.71 13-14 | >740 1 | 80 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB 1.00 | Horz(CT) 0.16 10 | n/a r | n/a | | |
| BCDL | 10.0 | Code FBC2020/T | PI2014 | Matrix-MS | 12 17 | | | Weight: 264 lb | FT = 20% |

BRACING-TOP CHORD

BOT CHORD

LUMBER-

2-0-0

6-0-2

TOP CHORD 2x4 SP No.2

BOT CHORD 2x6 SP No.2

2x4 SP No.3 WEBS

REACTIONS. (size) 2=0-3-8, 10=0-3-8

Max Horz 2=-119(LC 13)

Max Uplift 2=-450(LC 8), 10=-450(LC 9) Max Grav 2=1861(LC 2), 10=1861(LC 2)

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

2-3=-4459/1070, 3-4=-4310/1029, 4-5=-3779/950, 5-6=-2845/770, 6-7=-2845/770,

7-8=-3779/950, 8-9=-4310/1029, 9-10=-4459/1070

BOT CHORD 2-16=-941/4187, 15-16=-820/3817, 14-15=-667/3243, 13-14=-677/3243, 12-13=-830/3817,

10-12=-951/4187

6-14=-340/1552, 7-14=-857/294, 7-13=-139/735, 8-13=-477/199, 8-12=-71/397,

9-12=-256/151, 5-14=-857/294, 5-15=-138/735, 4-15=-477/199, 4-16=-70/397,

3-16=-256/151

NOTES-

WEBS

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 2-4-13, Interior(1) 2-4-13 to 22-0-0, Exterior(2R) 22-0-0 to 26-4-13, Interior(1) 26-4-13 to 46-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=450, 10=450.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regau PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

September 14,2022

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



FREEMAN RES. Job Qty Ply Truss Truss Type T28776020 T01G Common Supported Gable 3294502 Job Reference (optional)

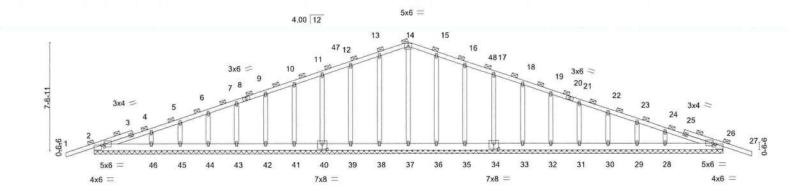
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

22-0-0

8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Sep 13 13:53:18 2022 Page 1

ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-IU6?QWUWM3hhQ5S?W9oRF_TRV_Ko_OiZhN9cBfye1?V 44-0-0

Scale = 1:80.8



| | 1 | | | | | 44-0-0 | | | | | | | | | | |
|------------|-------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------|--------------|---------------|----------------------|----------|---------|--------|-----|----------------------------|----------|--|--|--|--|
| Diata Offe | ets (X,Y) | 12-0 0 4 0 2 51 12-0 2 7 5 | 44-0-0 ::0-0-4,0-2-5], [2:0-2-7,Edge], [26:0-2-7,Edge], [26:0-0-4,0-2-5], [34:0-4-0,0-4-8], [40:0-4-0,0-4-8] | | | | | | | | | | | | | |
| riate Ons | ets (A, 1)- | [2.0-0-4,0-2-5], [2.0-2-7,0 | .ugej, [20.0-2-7 | Lugel, [20.0 | 7-0-4,0-2-5], | [54.0-4-0,0-4-0], [- | 10.0-1-0 | [0-4-0] | | | T | | | | | |
| LOADING | (psf) | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | I/defl | L/d | PLATES | GRIP | | | | |
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.24 | Vert(LL) | -0.01 | 27 | n/r | 120 | MT20 | 244/190 | | | | |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.05 | Vert(CT) | -0.02 | 27 | n/r | 120 | | | | | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.10 | Horz(CT) | 0.01 | 26 | n/a | n/a | 241.0001 (20.000) (40.000) | | | | | |
| BCDL | 10.0 | Code FBC2020/T | PI2014 | Matri | x-S | | | | | | Weight: 288 lb | FT = 20% | | | | |

LUMBER-TOP CHORD

2x4 SP No.2

2x6 SP No.2

BOT CHORD OTHERS 2x4 SP No.3

BRACING-TOP CHORD

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

BOT CHORD

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

REACTIONS. All bearings 44-0-0.

Max Horz 2=-114(LC 13) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 38, 39, 40, 41, 42, 43, 44, 45, 46, 36, 35, 34, 33, 32, 31, 30,

29, 28 except 2=-105(LC 8), 26=-114(LC 9)

All reactions 250 lb or less at joint(s) 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 36, 35, 34, 33, 32,

31, 30, 29, 28 except 2=268(LC 1), 26=268(LC 1)

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -2-0-0 to 2-4-13, Exterior(2N) 2-4-13 to 22-0-0, Corner(3R) 22-0-0 to 26-4-13, Exterior(2N) 26-4-13 to 46-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 8) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 38, 39, 40, 41, 42, 43, 44, 45, 46, 36, 35, 34, 33, 32, 31, 30, 29, 28 except (jt=lb) 2=105, 26=114.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

September 14,2022



Ply FREEMAN RES. Job Truss Truss Type Qty T28776021 T02 11 3294502 Common Job Reference (optional)

22-0-0

5-4-9

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

6-0-1

11-1-12

5-1-11

5-5-11

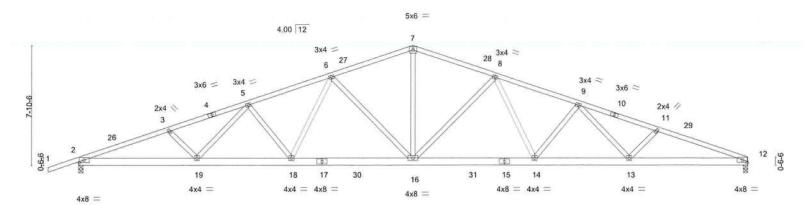
2-0-0

8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Sep 13 13:53:20 2022 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-FtElrCWmugxPfPcOdZqvLPZiPnpNS46s8heiGXye1?T 44-0-0 32-10-4 27-4-9 37-11-15 5-4-9 5-5-11 5-1-11

Structural wood sheathing directly applied or 2-5-4 oc purlins.

Rigid ceiling directly applied or 7-4-11 oc bracing.

Scale = 1:75.8



| | | 7-9-8 | 14-0-0 | | 22-0-0 | | 30-0-0 | | | 36-2-8 | 44-0 | |
|-----------|------------|----------------------------|-----------|--------|--------|-----------------------------------------|--------|-------|--------|--------|----------------|----------|
| | 1 | 7-9-8 | 6-2-8 | | 8-0-0 | | 8-0-0 | | | 6-2-8 | 7-9 | -8 |
| Plate Off | sets (X,Y) | [2:0-3-12,0-2-0], [12:0-3- | 12,0-2-0] | | | | | | | | | |
| LOADING | G (psf) | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | I/defl | L/d | PLATES | GRIP |
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.53 | Vert(LL) | -0.41 | 14-16 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.87 | Vert(CT) | -0.71 | 14-16 | >739 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 1.00 | Horz(CT) | 0.16 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/T | PI2014 | Matrix | c-MS | 100000000000000000000000000000000000000 | | | | | Weight: 261 lb | FT = 20% |

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

2x6 SP No.2 **BOT CHORD** 2x4 SP No.3 WEBS

(size) 2=0-3-8, 12=0-3-8 REACTIONS. Max Horz 2=129(LC 16)

Max Uplift 2=-450(LC 8), 12=-373(LC 9) Max Grav 2=1861(LC 2), 12=1769(LC 2)

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

TOP CHORD 2-3=-4460/1078, 3-5=-4311/1037, 5-6=-3780/959, 6-7=-2847/773, 7-8=-2847/779,

8-9=-3786/964, 9-11=-4342/1061, 11-12=-4493/1105

BOT CHORD 2-19=-986/4189, 18-19=-864/3817, 16-18=-712/3244, 14-16=-700/3248, 13-14=-863/3830,

12-13=-1001/4221

7-16=-346/1553, 8-16=-860/296, 8-14=-142/739, 9-14=-491/205, 9-13=-83/422, WEBS

11-13=-264/154, 6-16=-855/294, 6-18=-139/734, 5-18=-477/199, 5-19=-70/398,

3-19=-257/151

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 2-4-13, Interior(1) 2-4-13 to 22-0-0, Exterior(2R) 22-0-0 to 26-4-13, Interior(1) 26-4-13 to 44-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=450, 12=373.

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Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

September 14,2022

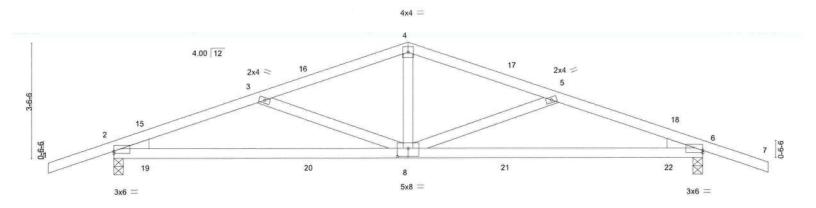
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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

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



FREEMAN RES. Qty Plv Truss Type Job Truss T28776022 T04 Common 3294502 Job Reference (optional) Lake City, FL - 32055 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Sep 13 13:53:21 2022 Page 1 Builders FirstSource (Lake City,FL), ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-j3o72XXOf_3GHZBaBHL8td5w5BBtBkL?NLOGo_ye1?S 9-0-0 13-4-8 18-0-0 4-4-8 2-0-0

Scale = 1:35.3



| 9-0-0 9-0-0 | | | | | | | 18-0-0 9-0-0 | | | | | | | |
|----------------|-----------|------------------------------------|---------------|-------------|--------------|----------|-----------------|-------|--------|-----|---------------|----------|--|--|
| Plate Offse | ets (X,Y) | [2:0-0-0,0-0-13], [6:Edge, | 4 | | | | | | | | | | | |
| LOADING | (psf) | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | I/defl | L/d | PLATES | GRIP | | |
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.34 | Vert(LL) | 0.23 | 8-14 | >944 | 240 | MT20 | 244/190 | | |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.73 | Vert(CT) | -0.21 | 8-11 | >999 | 180 | | | | |
| BCLL BCDL | 0.0 * | Rep Stress Incr Code FBC2020/TI | YES PI2014 | WB Matri | 0.17 k-MS | Horz(CT) | 0.04 | 6 | n/a | n/a | Weight: 82 lb | FT = 20% | | |

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

WEDGE

Left: 2x4 SP No.3 , Right: 2x4 SP No.3

REACTIONS.

(size) 2=0-3-8, 6=0-3-8

Max Horz 2=-55(LC 13)

Max Uplift 2=-378(LC 8), 6=-378(LC 9) Max Grav 2=774(LC 1), 6=774(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1341/1367, 3-4=-1032/1201, 4-5=-1032/1201, 5-6=-1341/1367

TOP CHORD 2-3=-1341/1367, 3-4=-1032/1201, BOT CHORD 2-8=-1245/1228, 6-8=-1253/1228

WEBS 4-8=-614/444, 5-8=-336/239, 3-8=-336/239

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 9-0-0, Exterior(2R) 9-0-0 to 12-0-0, Interior(1) 12-0-0 to 20-0-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=378, 6=378.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Structural wood sheathing directly applied or 4-9-0 oc purlins.

Rigid ceiling directly applied or 4-7-9 oc bracing.

Philip J. O'Regau PE No. 88126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

September 14,2022

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

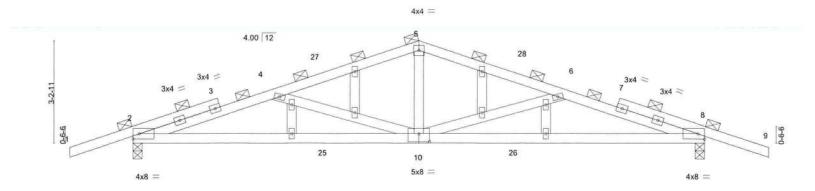
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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

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Job Truss Truss Type Qty Ply FREEMAN RES. T28776023 T04G GABLE 3294502 Job Reference (optional) Builders FirstSource (Lake City,FL), 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Sep 13 13:53:22 2022 Page 1 Lake City, FL - 32055 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-BFLWFtX0QlB7ujmml_tNQqe0cbY4wA_9b?7pKQye1?R 2-0-0 4-4-8 2-0-0

Scale = 1:36.4



| | | | 9-0 | erip. | | | | | 9-0-0 | | |
|--------------|------------|-----------------------------------|---------------|-------------|--------------|----------|-----------|-----------|-------|---------------|----------|
| Plate Offs | sets (X,Y) | [10:0-4-0,0-3-0] | 3-0 | -0 | | | | | 5-0-0 | | |
| LOADING | G (psf) | SPACING- | 2-0-0 | CSI. | | DEFL. | in (lo | c) I/defl | L/d | PLATES | GRIP |
| CLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.68 | Vert(LL) | 0.23 10-2 | 21 >926 | 240 | MT20 | 244/190 |
| CDL | 7.0 | Lumber DOL | 1.25 | BC | 0.66 | Vert(CT) | 0.19 10-2 | 21 >999 | 180 | | |
| BCLL BCDL | 0.0 * | Rep Stress Incr Code FBC2020/T | YES PI2014 | WB Matri | 0.21 x-MS | Horz(CT) | 0.03 | 8 n/a | n/a | Weight: 94 lb | FT = 20% |

BRACING-

TOP CHORD

BOT CHORD

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

Rigid ceiling directly applied or 3-9-3 oc bracing.

LUMBER-

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

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

OTHERS 2x4 SP No.3

REACTIONS.

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

Max Horz 2=50(LC 16)

Max Uplift 2=-379(LC 8), 8=-379(LC 9) Max Grav 2=771(LC 1), 8=771(LC 1)

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

TOP CHORD 2-4=-1516/1989, 4-5=-1097/1551, 5-6=-1097/1551, 6-8=-1516/1989

BOT CHORD 2-10=-1865/1438, 8-10=-1870/1438

WEBS 4-10=-469/555, 5-10=-797/476, 6-10=-469/555

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -2-0-0 to 1-1-8, Exterior(2N) 1-1-8 to 9-0-0, Corner(3R) 9-0-0 to 12-0-0, Exterior(2N) 12-0-0 to 20-0-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * 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=379, 8=379.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd, Chesterfield, MO 63017

September 14,2022

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 property 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

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

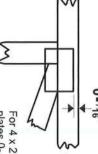


Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

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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

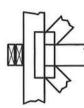
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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:

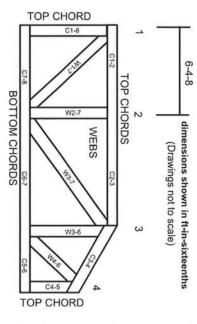
ANSI/TPI1: Natio

National Design Specification for Metal Plate Connected Wood Truss Construction Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate

Connected Wood Trusses

DSB-89: BCSI:

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
 Truss bracing must be designed by an engineer. For
- Iruss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.

4

- Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.

7.

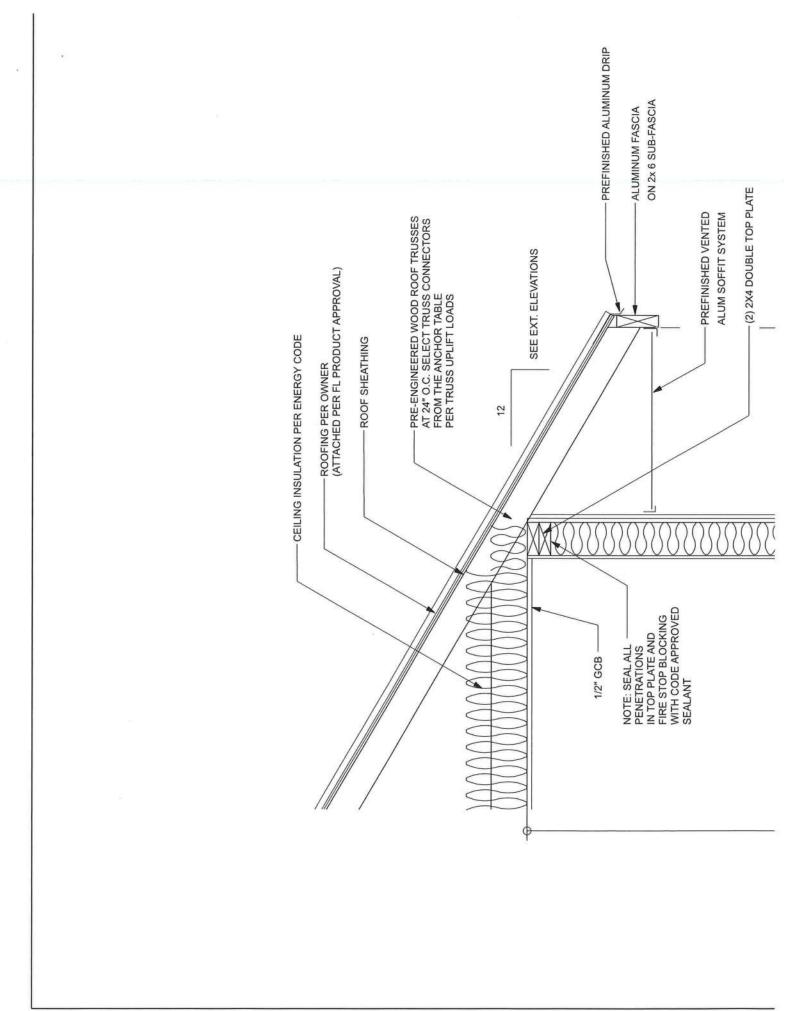
Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

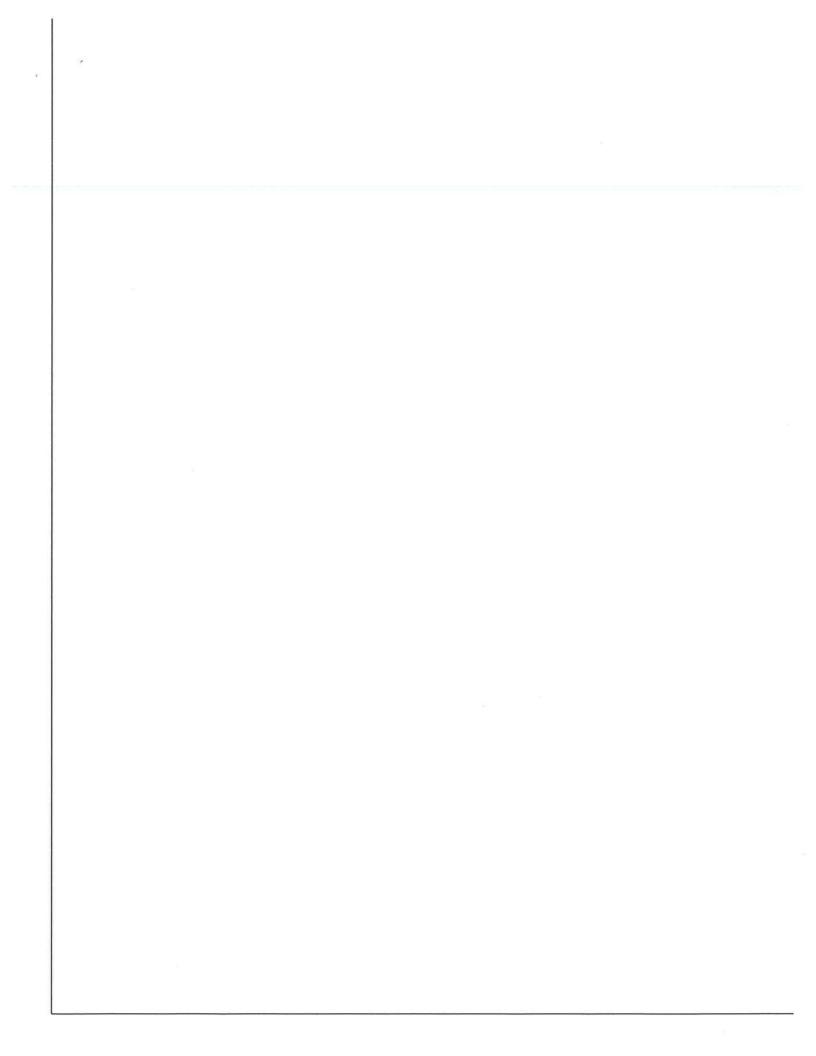
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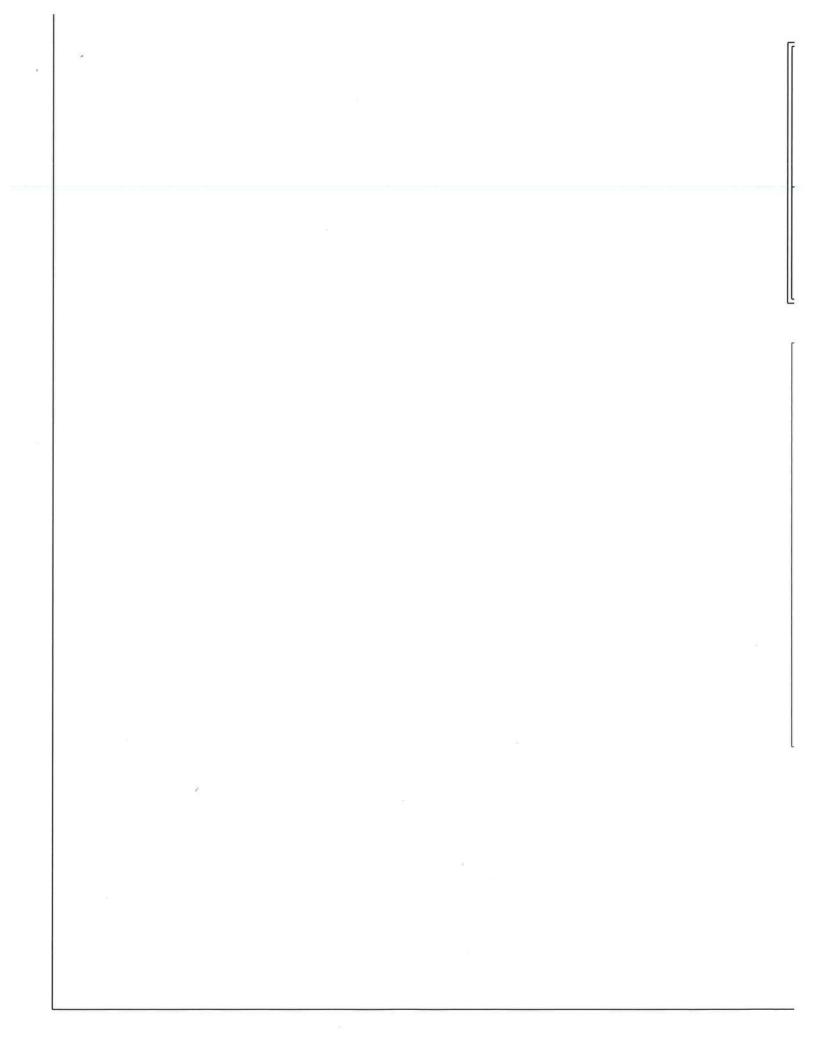
Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

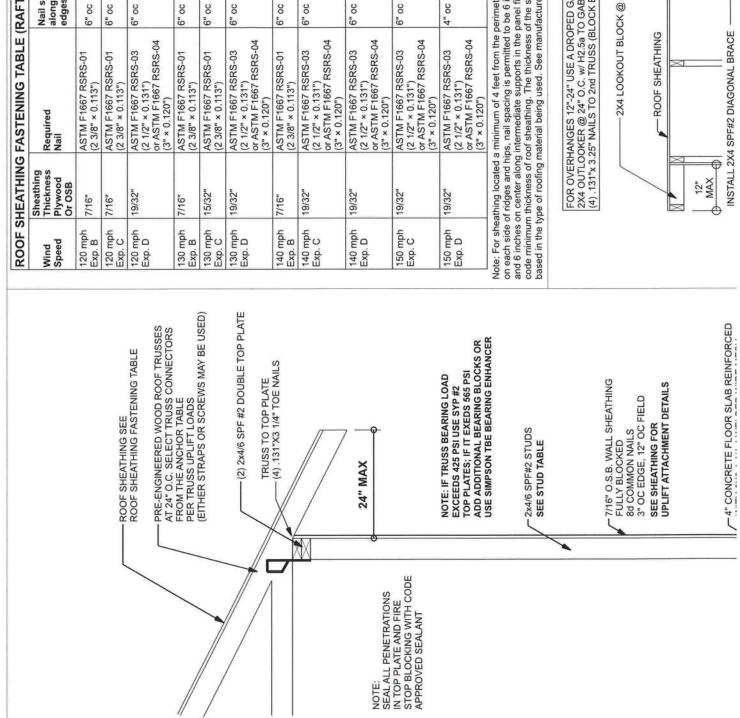
9

- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 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.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.









ROOF SHEATHING FASTENING TABLE (RAFTER / TRUSS SG = 0.49) Nail spacing along intermediate supports in the panel field 12" oc 9" 00 9, 00 4" oc 00 9" 00 00 00 00 8 00 .99 .9 .9 .9 Nail spacing along panel edges 9,00 9" 00 9,00 9" 00

2X4 SPF #2 BLOCKING & SHEATHING

UP TO 505 # UPLIFT SDWC15600

H2.5A

7/16" OSB

GAP @ HORIZ. SPLICE

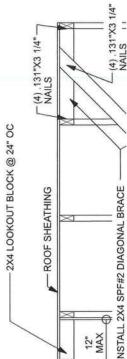
I" MAX

UPPER TOP PL

(IF POSSIBLE) VAIL OSB TO

> code minimum thickness of roof sheathing. The thickness of the sheathing may need to be increased based in the type of roofing material being used. See manufacturer Florida product approval. Note: For sheathing located a minimum of 4 feet from the perimeter edge of the roof, including 4 feet on each side of ridges and hips, nail spacing is permitted to be 6 inches on center along panel edges and 6 inches on center along intermediate supports in the panel field. Note: This table specifies the

FOR OVERHANGES 12"-24" USE A DROPED GABLE TRUSS WITH 2X4 OUTLOOKER @ 24" O.C. w/ H2.5a TO GABLE TRUSS AND (4) .131"x 3.25" NAILS TO 2nd TRUSS (BLOCK BETWEEN OUTLOOKER)



2X4 O ATTAC (4) .13

ONE STORY W

ATTACHI SHEATH



Builders First Source - Lake City

2525 East Duval St, Lake City FL 32055

Phone: 386-755-6894 Fax: 386-755-7973

| Date: | 9/13/2022 | | | | | | | |
|-----------------------------|---------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------|
| Customer: | KEN REDICK | | | | | Phor | ne #: | |
| Job Name: | Freeman Res | | | | | | | |
| Jobsite Address: | Columbia Cty | | | | | | | |
| Pitch: | TC 4:12 / Flat | Clg. | Loading: | Shingle | | Quoted By: | Kim Holloway | |
| Top Chord: | 2x4 | | Bearing: | 4" | | Sales Rep: | Kim Holloway | |
| Overhangs: | 24" | | Spacing: | 24" | | | | |
| | | | etails | | | | Price | |
| | | | etalis | | | | Price | |
| | | ROOF TR | USSES ONLY | | | | Roof Trusses | \$8,450.00 |
| | | | | | | | Pre-Tax Sub-Total | \$8,450.00 |
| | | | | | | | Tax | \$582.00 |
| | | | | | | | Total Including Tax | \$9,032.00 |
| | | | | | | | No Additional Options | 0.400.40000000000000000000000000000000 |
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| Note: Hip 8 | & Valley blocking | g, Overhang Blocking, 1 | russ Bracing (Te | mporary or Permanent) Not | Included. | | | |
| | PRICE IS | S SUBJECT TO | CHANGE | AT ANY TIME. | | | | |
| To place th | | sign and fully complete o: kim.holloway@ble | | pelow and then return this po 214-231-9645 | proposal to: | | | |
| | | It is the custon | ner's responsibi | lity to have access to the | jobsite/delivery addre | ess by tracto | r-trailer. | 00 |
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