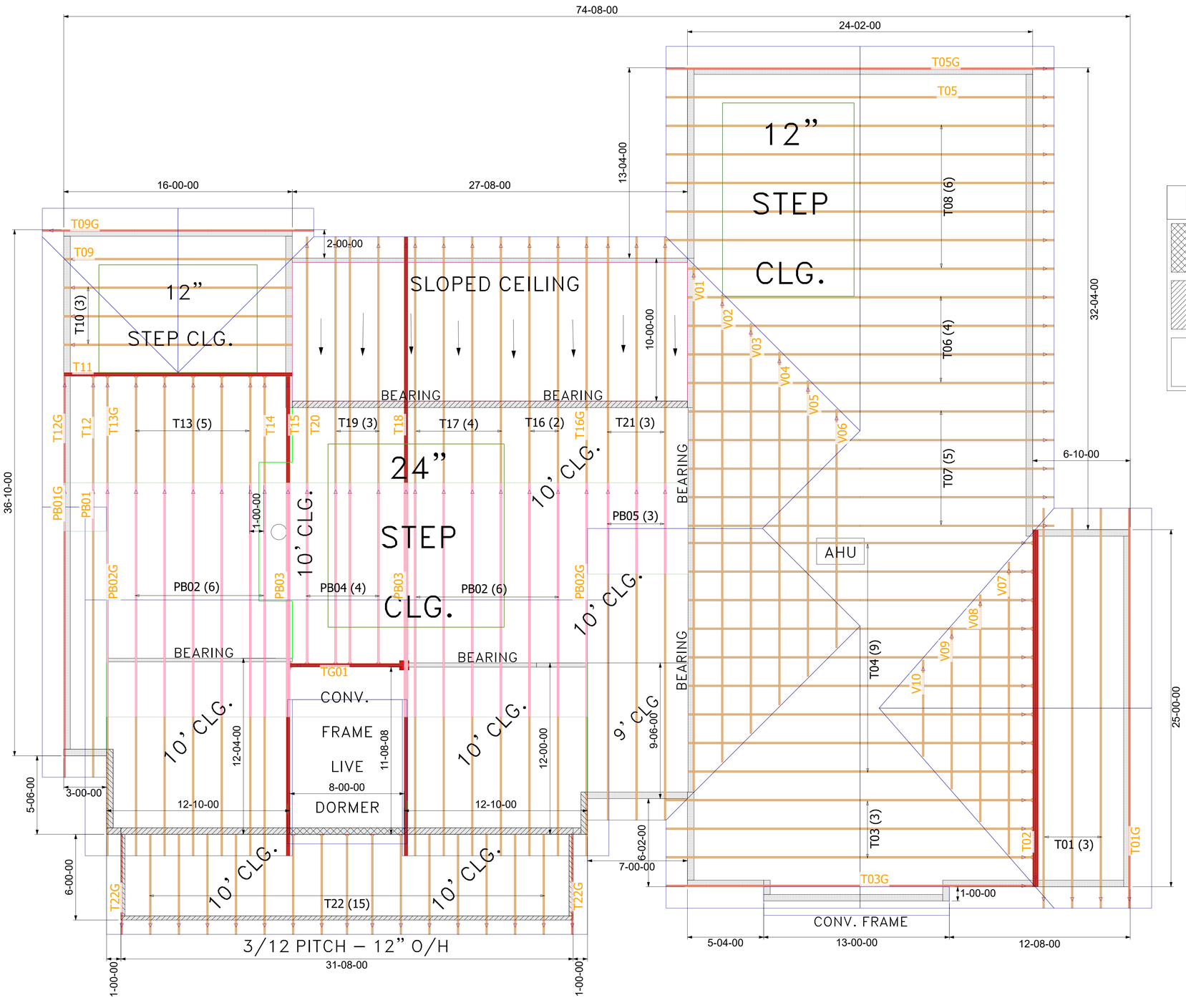
# 7/12 – 8/12 PITCH – 18” O/H

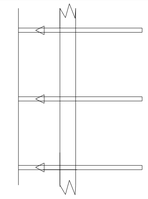



## Hatch Legend

- 18' 2-1/4"
- 10' 1-1/8"
- 9' 1-1/8"

MITEK PLATE APPROVAL #’S 2197.2–2197.4, BOISE EWP PRODUCT #’S LVL FL1644–R2, BCI JOISTS FL1392–R2

THE ARROW HEAD AT THE END OF THE TRUSS ON THE TRUSS PLACEMENT PLAN (LAYOUT) CORRESPONDS WITH THE LEFT SIDE OF THE INDIVIDUAL TRUSS DRAWING. USE THIS AS AN ORIENTATION GUIDE WHEN SETTING THE TRUSSES ON THE STRUCTURE.



General Notes:

- Per ANSI/TPI 1-2002 all " Truss to Wall" connections are the responsibility of the Building Designer, not the Truss Manufacturer.
- Use Manufacturer's specifications for all hanger connections unless noted otherwise.
- Trusses are to be 24" o.c. U.N.O.
- All hangers are to be Simpson or equivalent U.N.O.- Use 10d x 1 1/2" Nails in hanger connections to single ply girder trusses.
- Trusses are not designed to support brick U.N.O.
- Dimensions are Feet-Inches- Sixteenths

Notes:

No back charges will be accepted by Builders FirstSource unless approved in writing first. 850-835-4541

ACQ lumber is corrisive to truss plates. Any ACQ lumber that comes in contact with truss plates (i.e. scabbed on tails) must have an approved barrier applied first.

Refer to BCSI-B1 Summary Sheet-Guide for handling, Installing and Bracing of Metal Plate Connected Wood Truss prior to and during truss installation.

It is the responsibility of the Contractor to ensure of the proper orientation of the truss placement plans as to the construction documents and field conditions of the structure orientation. If a reversed or flipped layout is required, it will be supplied at no extra cost by Builders FirstSource.

It is the responsibility of the Contractor to make sure the placement of trusses are adjusted for plumbing drops, can lights, ect..., so the trusses do not interfere with these type of items.

All common framed roof or floor systems must be designed as to NOT impose any loads on the floor trusses below. The floor trusses have not been designed to carry any additional loads from above.

This truss placement plan was not created by an engineer, but rather by the Builders FirstSource staff and is solely to be used as an installation guide and does not require a seal. Complete truss engineering and analysis can be found on the truss design drawings which may be sealed by the truss design engineer.

Gable end trusses require continuous bottom chord bearing. Refer to local codes for wall framing requirements.

Although all attempts have been made to do so, trusses may not be designed symmetrically. Please refer to the individual truss drawings and truss placement plans for proper orientation and placement.

Columbia County Building Department — Plans Reviewed for Code Compliance — State of Florida

Builders FIRSTSOURCE


**Lake City**
PHONE: 386-755-6894
FAX: 386-755-7973

**Jacksonville**
PHONE: 904-772-6100
FAX: 904-772-1973

**Tallahassee**
PHONE: 850-576-5177


Builder: AMIRA BLDRS.

Legal Address: Floyd Res.

Model: Custom

| Date: | Drawn By: | Original Ref #: |
|---|---|---|
| 2-14-21 | KLH | 2646866 |
| **Floor 1 Job#** | **Floor 2 Job#:** | **Roof Job #:** |
| N/A | N/A | 2646866 |

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

RE: 2646866 - AMIRA BLDRS. - FLOYD RES.

MiTek USA, Inc.
6904 Parke East Blvd.
Tampa, FL 33610-4115

**Site Information:**

Customer Info: Amira Bldrs. Project Name: Floyd Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 395 SW Marynik Drive, N/A
City: Alachua 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 8.4
Wind Code: N/A Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

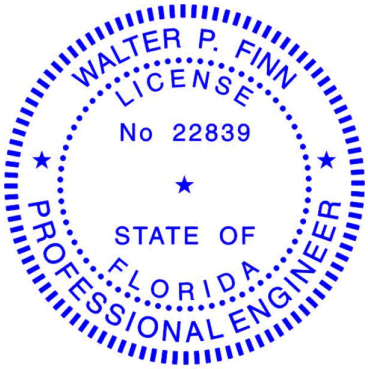
This package includes 48 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

| No. | Seal# | Truss Name | Date | No. | Seal# | Truss Name | Date |
|---|---|---|---|---|---|---|---|
| 1 | T22870144 | PB01 | 2/16/21 | 15 | T22870158 | T05G | 2/16/21 |
| 2 | T22870145 | PB01G | 2/16/21 | 16 | T22870159 | T06 | 2/16/21 |
| 3 | T22870146 | PB02 | 2/16/21 | 17 | T22870160 | T07 | 2/16/21 |
| 4 | T22870147 | PB02G | 2/16/21 | 18 | T22870161 | T08 | 2/16/21 |
| 5 | T22870148 | PB03 | 2/16/21 | 19 | T22870162 | T09 | 2/16/21 |
| 6 | T22870149 | PB04 | 2/16/21 | 20 | T22870163 | T09G | 2/16/21 |
| 7 | T22870150 | PB05 | 2/16/21 | 21 | T22870164 | T10 | 2/16/21 |
| 8 | T22870151 | T01 | 2/16/21 | 22 | T22870165 | T11 | 2/16/21 |
| 9 | T22870152 | T01G | 2/16/21 | 23 | T22870166 | T12 | 2/16/21 |
| 10 | T22870153 | T02 | 2/16/21 | 24 | T22870167 | T12G | 2/16/21 |
| 11 | T22870154 | T03 | 2/16/21 | 25 | T22870168 | T13 | 2/16/21 |
| 12 | T22870155 | T03G | 2/16/21 | 26 | T22870169 | T13G | 2/16/21 |
| 13 | T22870156 | T04 | 2/16/21 | 27 | T22870170 | T14 | 2/16/21 |
| 14 | T22870157 | T05 | 2/16/21 | 28 | T22870171 | T15 | 2/16/21 |


This item has been electronically signed and sealed by Finn, Walter, 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-Jacksonville.

Truss Design Engineer's Name: Finn, Walter
My license renewal date for the state of Florida is February 28, 2021.




Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

**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.

February 16,2021

MiTek USA, Inc.
6904 Parke East Blvd.
Tampa, FL 33610-4115

RE: 2646866 - AMIRA BLDRS. - FLOYD RES.

**Site Information:**

Customer Info: Amira Bldrs. Project Name: Floyd Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 395 SW Marynik Drive, N/A
City: Alachua Cty State: FL

| No. | Seal# | Truss Name | Date |
|---|---|---|---|
| 29 | T22870172 | T16 | 2/16/21 |
| 30 | T22870173 | T16G | 2/16/21 |
| 31 | T22870174 | T17 | 2/16/21 |
| 32 | T22870175 | T18 | 2/16/21 |
| 33 | T22870176 | T19 | 2/16/21 |
| 34 | T22870177 | T20 | 2/16/21 |
| 35 | T22870178 | T21 | 2/16/21 |
| 36 | T22870179 | T22 | 2/16/21 |
| 37 | T22870180 | T22G | 2/16/21 |
| 38 | T22870181 | TG01 | 2/16/21 |
| 39 | T22870182 | V01 | 2/16/21 |
| 40 | T22870183 | V02 | 2/16/21 |
| 41 | T22870184 | V03 | 2/16/21 |
| 42 | T22870185 | V04 | 2/16/21 |
| 43 | T22870186 | V05 | 2/16/21 |
| 44 | T22870187 | V06 | 2/16/21 |
| 45 | T22870188 | V07 | 2/16/21 |
| 46 | T22870189 | V08 | 2/16/21 |
| 47 | T22870190 | V09 | 2/16/21 |
| 48 | T22870191 | V10 | 2/16/21 |

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. T22870144 |
|---|---|---|---|---|---|
| 2646866 | PB01 | Piggyback | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Feb 16 14:01:53 2021 Page 1
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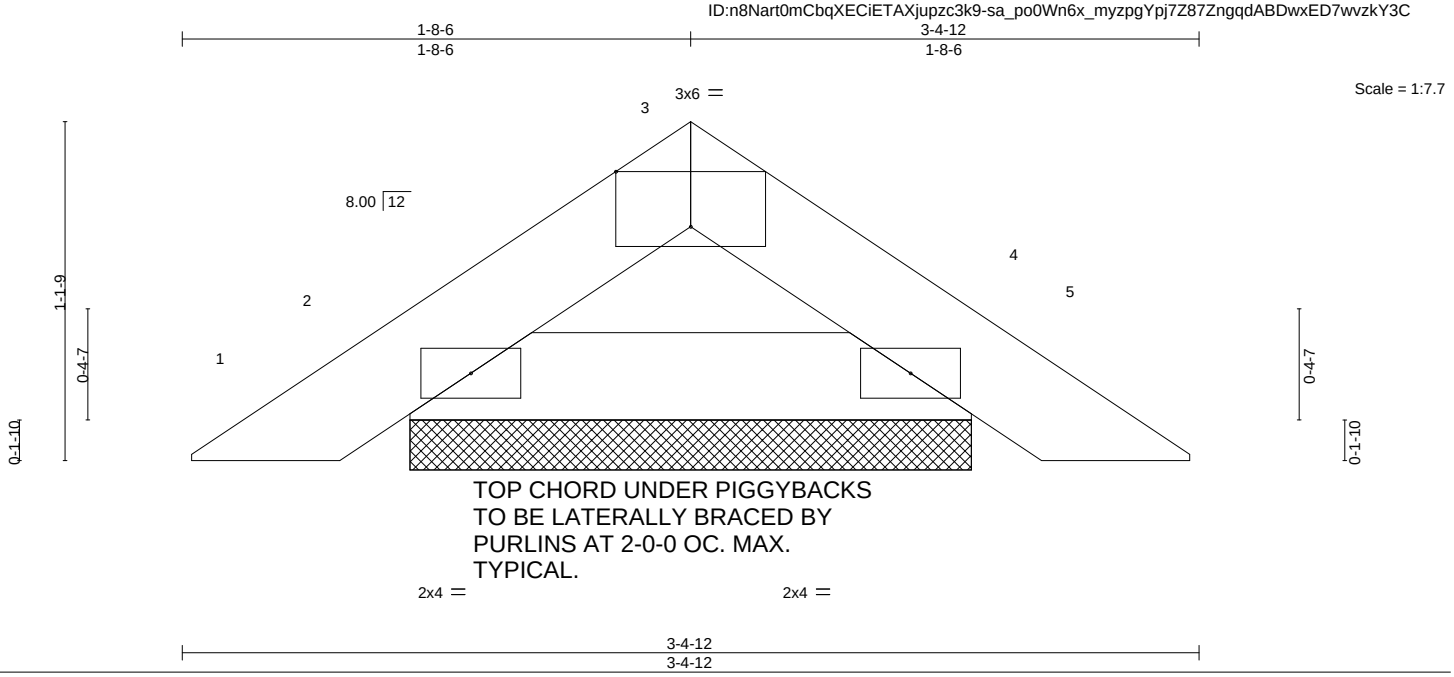


Plate Offsets (X,Y)-- [3:0-3-0,Edge]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.02 | Vert(LL) | -0.00 | 4 | n/r | 120 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.04 | Vert(CT) | -0.00 | 4 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-P | | | | | | | Weight: 9 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-4-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 2=1-10-8, 4=1-10-8
Max Horz 2=-21(LC 10)
Max Uplift 2=-25(LC 12), 4=-25(LC 13)
Max Grav 2=95(LC 1), 4=95(LC 1)

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

**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) 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) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 2 and 25 lb uplift at joint 4.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

This item has been electronically signed and sealed by Finn, Walter, 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.

Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021



MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. T22870145 |
|---|---|---|---|---|---|
| 2646866 | PB01G | PIGGYBACK | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Feb 16 14:01:54 2021 Page 1
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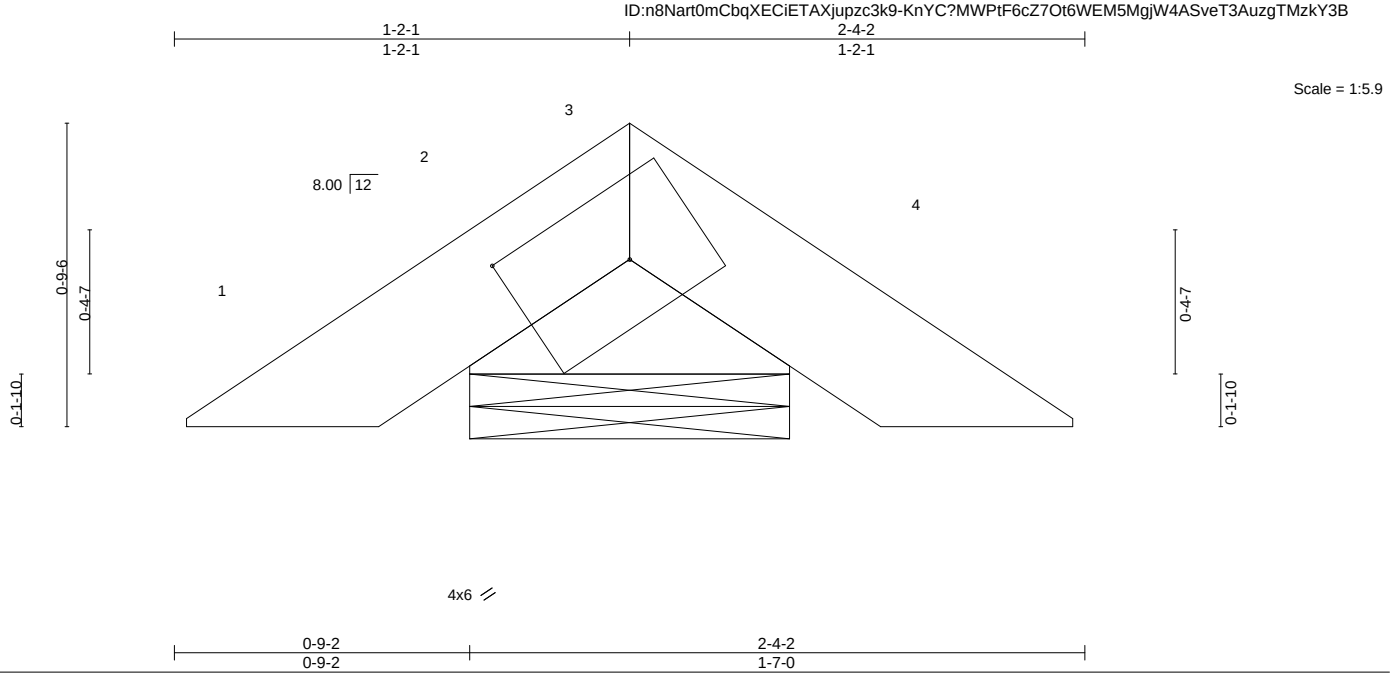


Plate Offsets (X,Y)-- [3:0-3-10,0-2-3]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.08 | Vert(LL) | -0.00 | 4 | n/r | 120 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.00 | Vert(CT) | -0.00 | 4 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-P | | | | | | | Weight: 5 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-4-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 3=0-9-14, 2=0-9-14
Max Horz 2=-10(LC 9)
Max Uplift 3=-106(LC 9), 2=-204(LC 24)
Max Grav 3=264(LC 24), 2=80(LC 9)

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

**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) 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) Gable requires continuous bottom chord bearing.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 106 lb uplift at joint 3 and 204 lb uplift at joint 2.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

This item has been electronically signed and sealed by Finn, Walter, 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.

Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021



MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. |
|---|---|---|---|---|---|
| 2646866 | PB02 | GABLE | 12 | 1 | T22870146 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Feb 16 14:01:55 2021 Page 1
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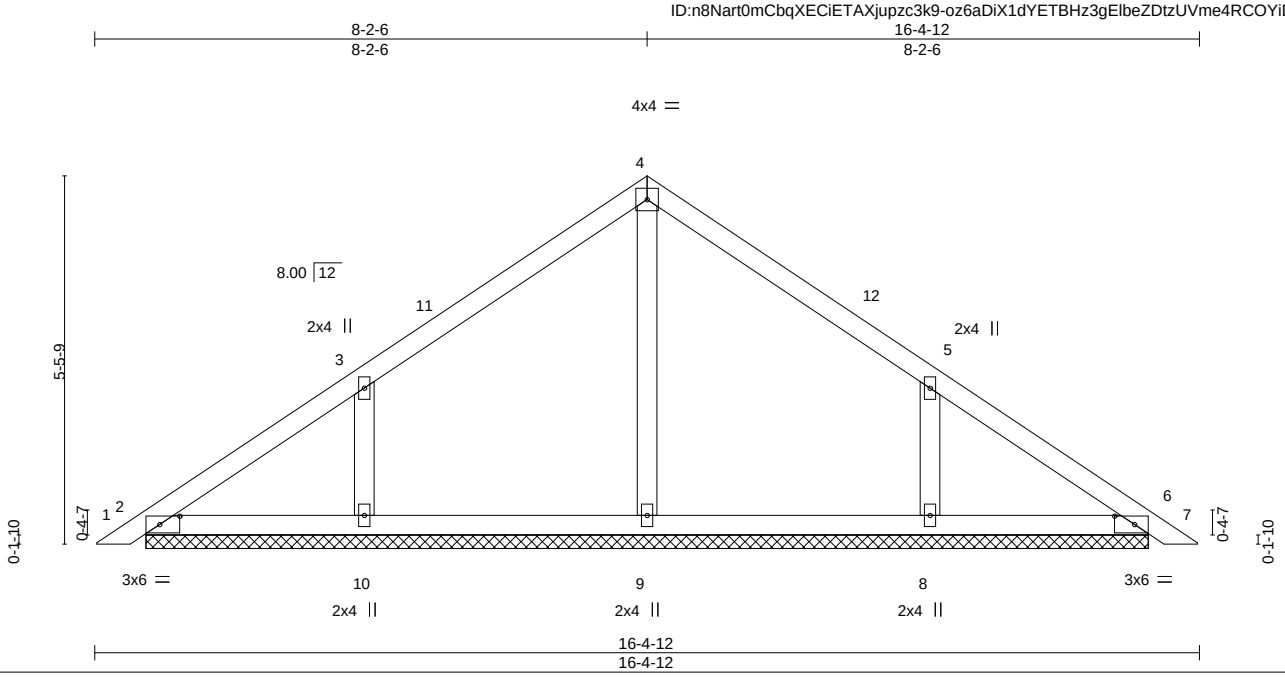


Plate Offsets (X,Y)-- [2:0-3-9,0-1-8], [3:0-0-0,0-0-0], [6:0-3-9,0-1-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.17 | Vert(LL) | 0.00 | 6 | n/r | 120 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.12 | Vert(CT) | 0.00 | 7 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.08 | Horz(CT) | 0.00 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | | | | Weight: 64 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

**REACTIONS.** All bearings 14-10-8.
(lb) - Max Horz 2=-116(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 8=-159(LC 13), 10=-160(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 9=251(LC 1), 8=336(LC 20), 10=336(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 5-8=-250/179, 3-10=-251/180

**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) 0-3-5 to 3-3-5, Interior(1) 3-3-5 to 8-2-6, Exterior(2R) 8-2-6 to 11-2-6, Interior(1) 11-2-6 to 16-1-6 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) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 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.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 8=159, 10=160.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

This item has been electronically signed and sealed by Finn, Walter, 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.

Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021



MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. |
|---|---|---|---|---|---|
| 2646866 | PB02G | GABLE | 2 | 1 | T22870147 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Feb 16 14:01:56 2021 Page 1
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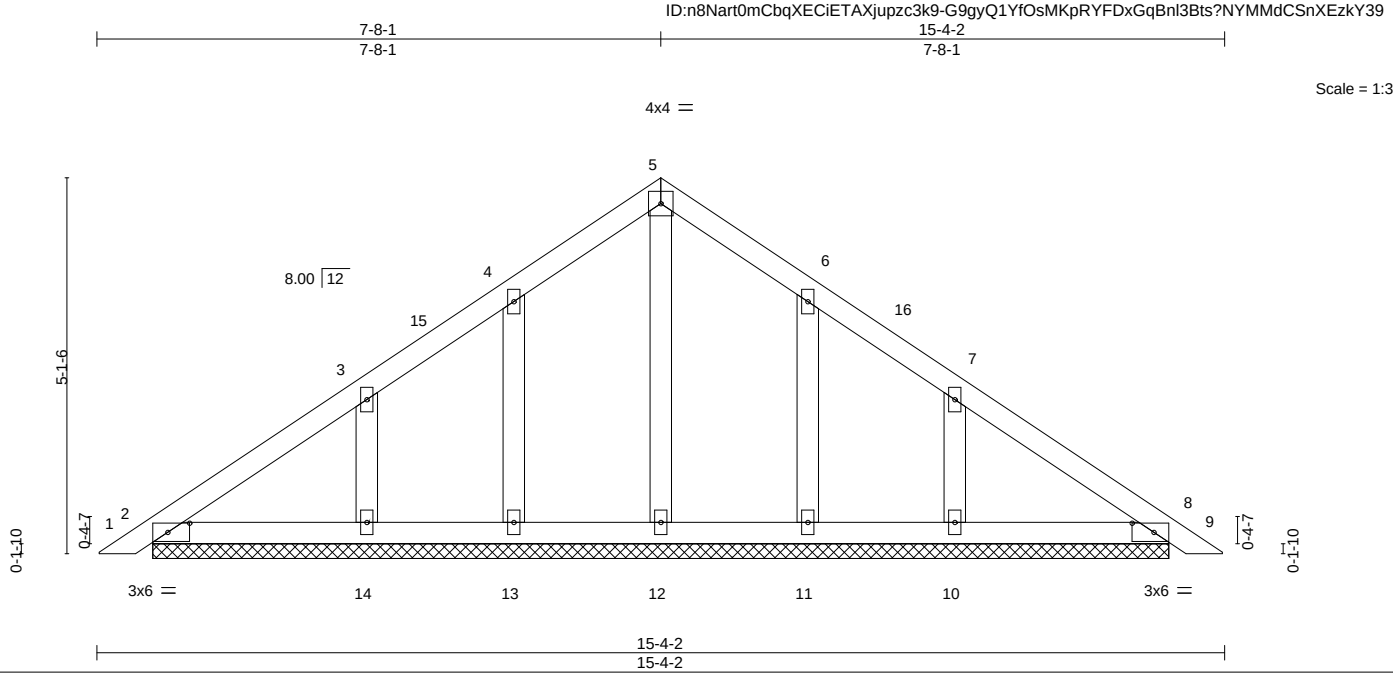


Plate Offsets (X,Y)-- [2:0-3-9,0-1-8], [8:0-3-9,0-1-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.07 | Vert(LL) | 0.00 | 9 | n/r | 120 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.06 | Vert(CT) | 0.00 | 9 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.04 | Horz(CT) | 0.00 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | | | | Weight: 69 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

**REACTIONS.** All bearings 13-9-14.
(lb) - Max Horz 2=109(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 11 except 14=-105(LC 12), 10=-105(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

**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) 0-3-5 to 3-3-5, Interior(1) 3-3-5 to 7-8-1, Exterior(2R) 7-8-1 to 10-8-1, Interior(1) 10-8-1 to 15-0-13 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.
7) 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.
9) * 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) 2, 8, 13, 11 except (jt=lb) 14=105, 10=105.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021




MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. |
|---|---|---|---|---|---|
| 2646866 | PB03 | GABLE | 2 | 2 | T22870148 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Feb 16 14:01:57 2021 Page 1
ID:n8Nart0mCbqXECiETAXjupzc3k9-lLEKeNZH9AVBQb7Snfn3j_IDmHBC6?pVssBK3gzkY38

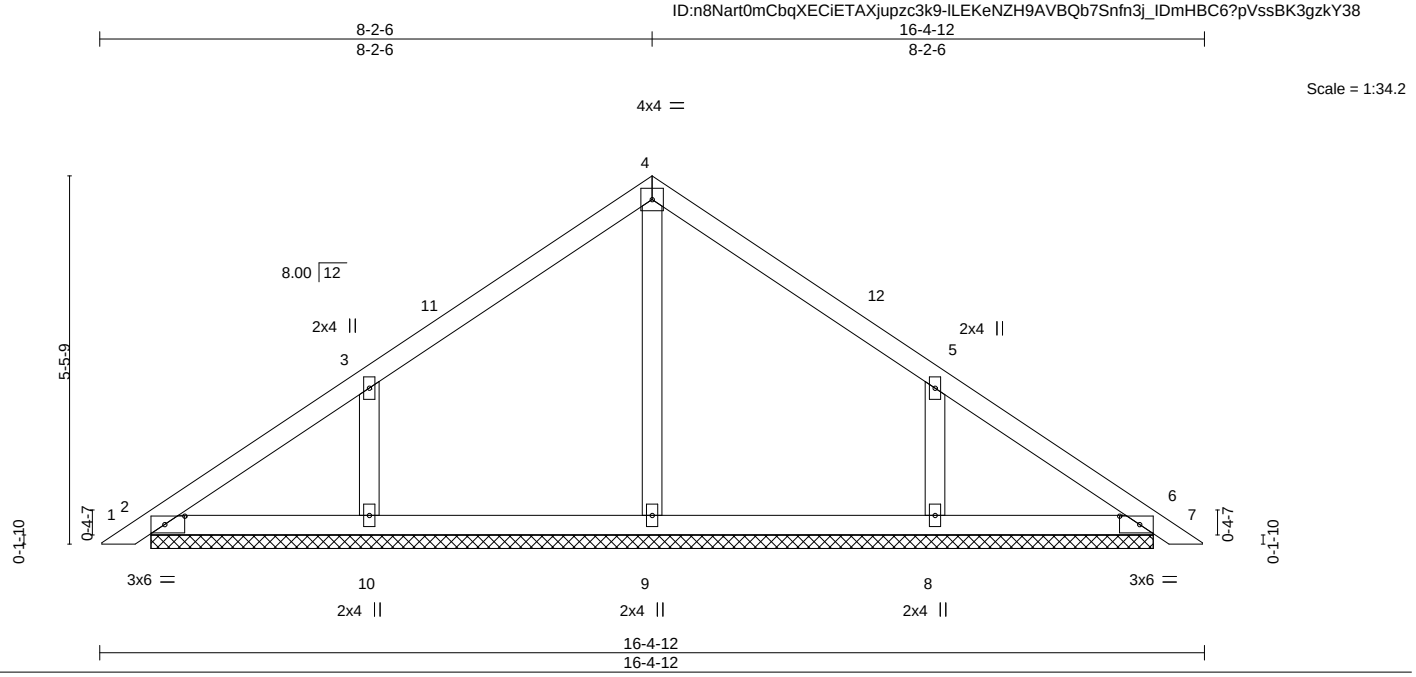


Plate Offsets (X,Y)-- [2:0-3-9,0-1-8], [3:0-0-0,0-0-0], [6:0-3-9,0-1-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.08 | Vert(LL) | 0.00 | 6 | n/r | 120 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.06 | Vert(CT) | 0.00 | 7 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | | | | Weight: 128 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

**REACTIONS.** All bearings 14-10-8.
(lb) - Max Horz 2=-116(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 8=-159(LC 13), 10=-160(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 9=251(LC 1), 8=336(LC 20), 10=336(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 5-8=-250/179, 3-10=-251/180

**NOTES-**
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) 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) 0-3-5 to 3-3-5, Interior(1) 3-3-5 to 8-2-6, Exterior(2R) 8-2-6 to 11-2-6, Interior(1) 11-2-6 to 16-1-6 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
5) 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.
6) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 4-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * 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.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 8=159, 10=160.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021




MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. T22870149 |
|---|---|---|---|---|---|
| 2646866 | PB04 | Piggyback | 4 | 1 | Job Reference (optional) |

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Feb 16 14:01:57 2021 Page 1
ID:n8Nart0mCbqXECiETAXjupzc3k9-lLEKeNZH9AVBQb7Snfn3j_IBtH9s6_qVssBK3gzkY38

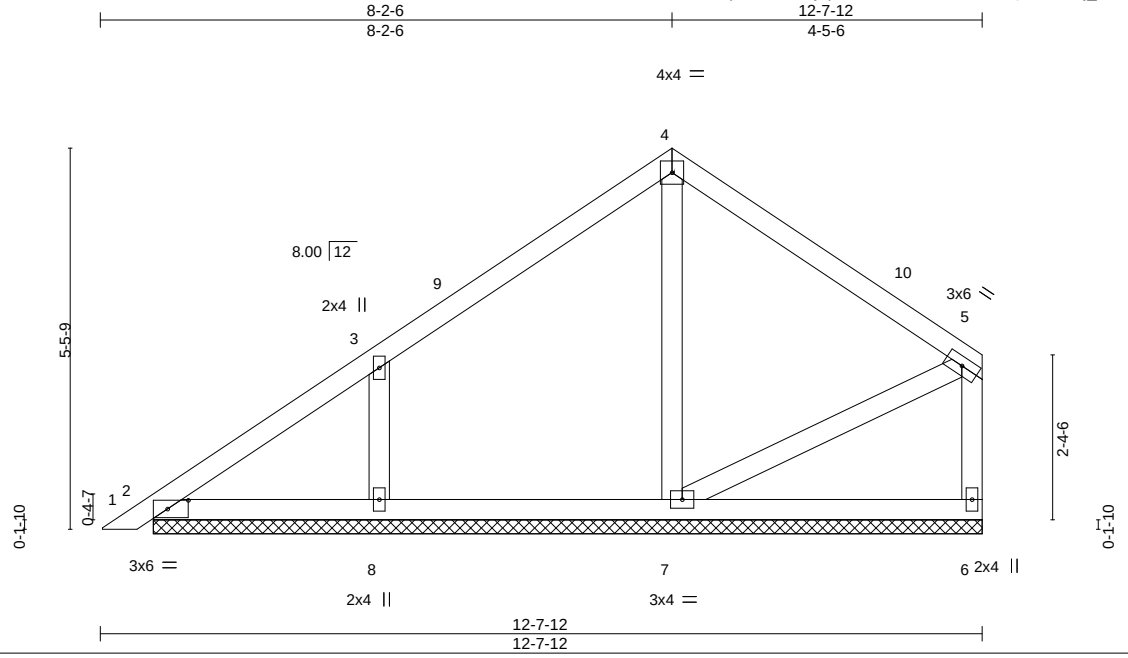


Plate Offsets (X,Y)-- [2:0-3-9,0-1-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.20 | Vert(LL) | 0.00 | 1 | n/r | 120 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.15 | Vert(CT) | 0.00 | 1 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.09 | Horz(CT) | 0.00 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | | | | Weight: 60 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.3 |
| OTHERS | 2x4 SP No.3 |

**BRACING-**

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

**REACTIONS.** All bearings 11-10-10.
(lb) - Max Horz 2=124(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7 except 8=-160(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 6, 2 except 7=268(LC 1), 8=332(LC 19)

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

**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) 0-3-5 to 3-3-5, Interior(1) 3-3-5 to 8-2-6, Exterior(2R) 8-2-6 to 11-2-6, Interior(1) 11-2-6 to 12-6-0 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) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 7 except (jt=lb) 8=160.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021




MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. T22870150 |
|---|---|---|---|---|---|
| 2646866 | PB05 | Piggyback | 3 | 1 | Job Reference (optional) |

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Feb 16 14:01:58 2021 Page 1
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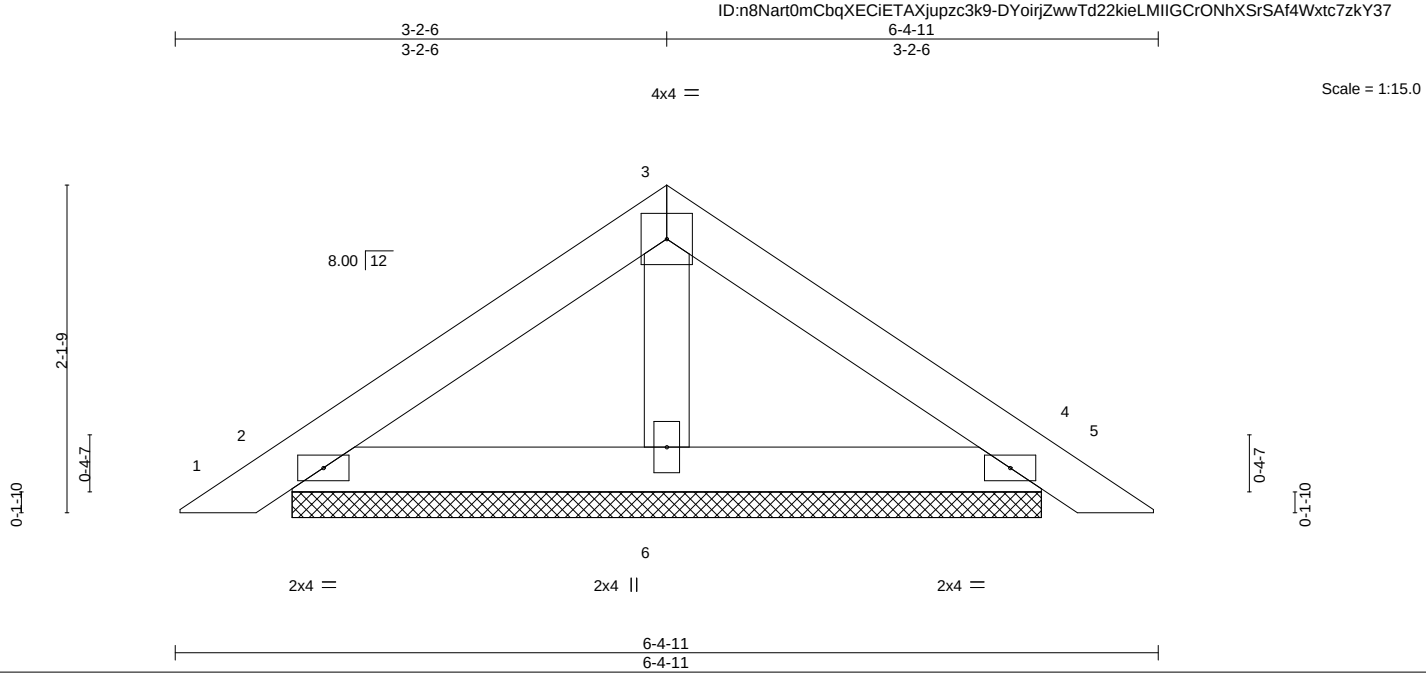


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.09 | Vert(LL) | 0.00 | 5 | n/r | 120 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.06 | Vert(CT) | 0.00 | 5 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.02 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-P | | | | | | | Weight: 21 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

**REACTIONS.** (size) 2=4-10-8, 4=4-10-8, 6=4-10-8
Max Horz 2=-43(LC 10)
Max Uplift 2=-40(LC 12), 4=-46(LC 13), 6=-11(LC 12)
Max Grav 2=125(LC 1), 4=125(LC 1), 6=163(LC 1)

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

**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) 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) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021



MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. T22870151 |
|---|---|---|---|---|---|
| 2646866 | T01 | Common | 3 | 1 | Job Reference (optional) |

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ID:n8Nart0mCbqXECiETAXjupzc3k9-hkM533aYhnlvguHqv4qXoPNUe5ilasyoJAgR8ZzkY36

-1-6-0 | 6-7-0 | 12-6-0 | 18-5-0 | 25-0-0 | 26-6-0
1-6-0 | 6-7-0 | 5-11-0 | 5-11-0 | 6-7-0 | 1-6-0

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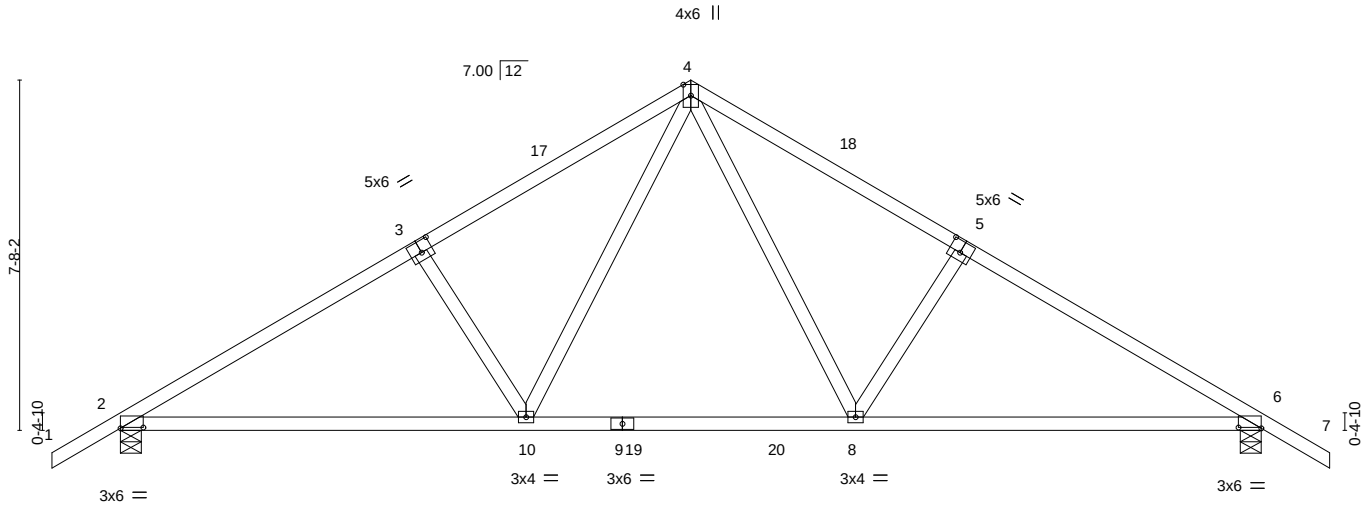


8-10-11 | 16-1-5 | 25-0-0
8-10-11 | 7-2-10 | 8-10-11

Plate Offsets (X,Y)-- [2:0-6-0,0-0-4], [3:0-3-0,0-3-0], [5:0-3-0,0-3-0], [6:0-6-0,0-0-4]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.44 | Vert(LL) | -0.14 | 8-16 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.76 | Vert(CT) | -0.31 | 8-16 | >974 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.24 | Horz(CT) | 0.04 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-MS | | | | | | | Weight: 122 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-2-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 2=0-5-8, 6=0-5-8
Max Horz 2=180(LC 11)
Max Uplift 2=-220(LC 12), 6=-220(LC 13)
Max Grav 2=1134(LC 19), 6=1135(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1572/288, 3-4=-1443/309, 4-5=-1445/309, 5-6=-1573/288
BOT CHORD 2-10=-268/1441, 8-10=-82/948, 6-8=-159/1309
WEBS 4-8=-164/700, 5-8=-358/220, 4-10=-163/697, 3-10=-358/220

**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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 12-6-0, Exterior(2R) 12-6-0 to 15-6-0, Interior(1) 15-6-0 to 26-6-0 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=220, 6=220.

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Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021




MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. |
|---|---|---|---|---|---|
| 2646866 | T01G | Common Supported Gable | 1 | 1 | T22870152 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Feb 16 14:02:00 2021 Page 1
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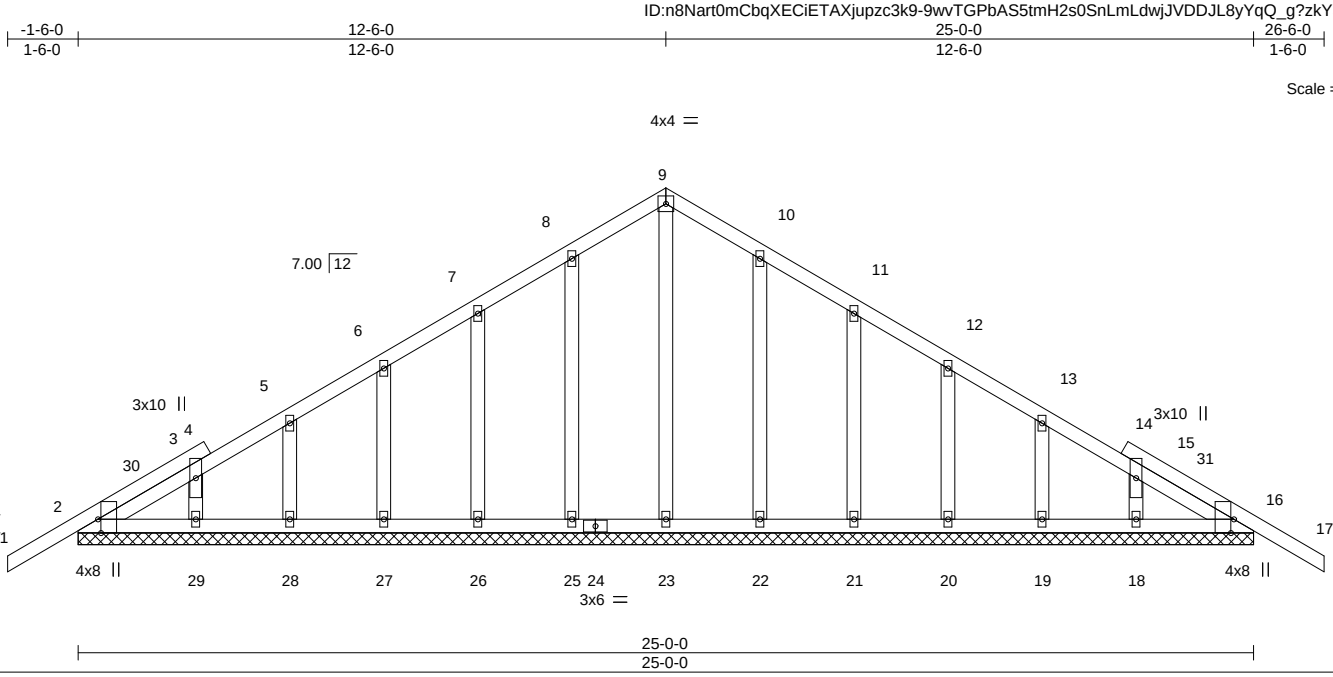


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [16:0-3-8,Edge]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.13 | Vert(LL) | -0.01 | 17 | n/r | 120 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.04 | Vert(CT) | -0.01 | 17 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.12 | Horz(CT) | 0.00 | 16 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | | | | Weight: 153 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| OTHERS | 2x4 SP No.3 |

**BRACING-**

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

**REACTIONS.** All bearings 25-0-0.
(lb) - Max Horz 2=172(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 25, 26, 27, 28, 29, 22, 21, 20, 19, 18
Max Grav All reactions 250 lb or less at joint(s) 2, 16, 23, 25, 26, 27, 28, 29, 22, 21, 20, 19, 18

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

**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) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 12-6-0, Corner(3R) 12-6-0 to 15-6-0, Exterior(2N) 15-6-0 to 26-6-0 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.
7) 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.
9) * 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) 2, 16, 25, 26, 27, 28, 29, 22, 21, 20, 19, 18.

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6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021




MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. |
|---|---|---|---|---|---|
| 2646866 | T02 | Common Girder | 1 | 3 | T22870153 |

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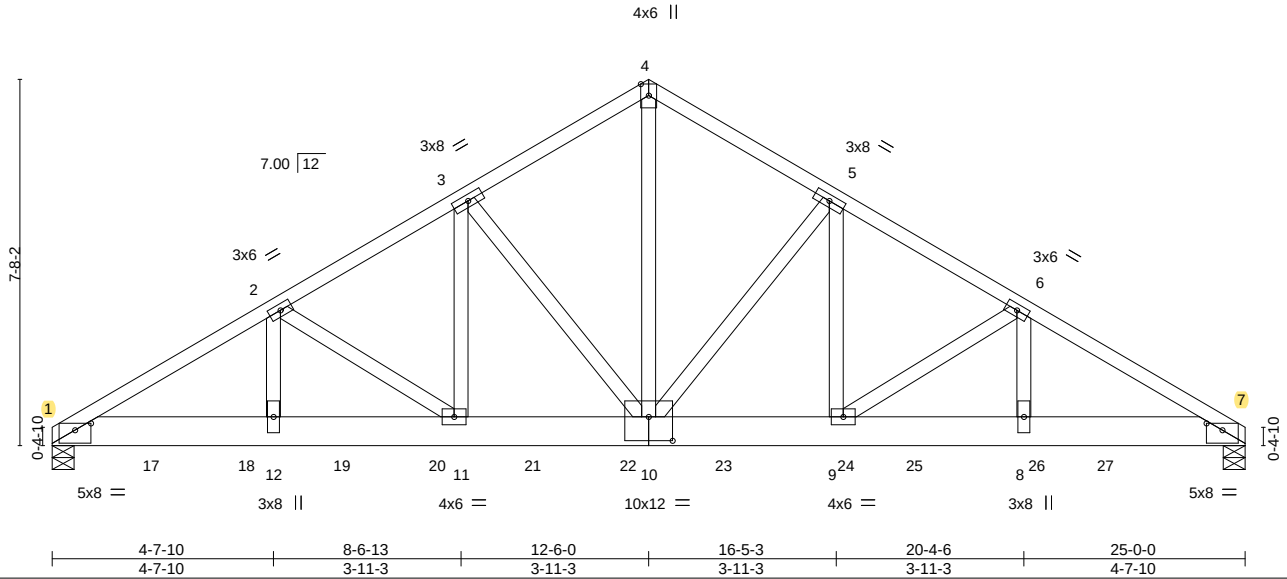
ID:n8Nart0mCbqXECiETAXjupzc3k9-5J1Dh5dQ_i7UXM?PaCNEQ2?_fIqvn6bE?7v5luzkY33

| 4-7-10 | 8-6-13 | 12-6-0 | 16-5-3 | 20-4-6 | 25-0-0 |
|---|---|---|---|---|---|
| 4-7-10 | 3-11-3 | 3-11-3 | 3-11-3 | 3-11-3 | 4-7-10 |

Scale: 1/4"=1'




| 4-7-10 | 8-6-13 | 12-6-0 | 16-5-3 | 20-4-6 | 25-0-0 |
|---|---|---|---|---|---|
| 4-7-10 | 3-11-3 | 3-11-3 | 3-11-3 | 3-11-3 | 4-7-10 |

Plate Offsets (X,Y)-- [1:0-4-0,0-1-11], [7:0-4-0,0-1-11], [10:0-6-0,0-6-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.46 | Vert(LL) | -0.15 | 9-10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.35 | Vert(CT) | -0.27 | 9-10 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.63 | Horz(CT) | 0.06 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-MS | | | | | | | Weight: 542 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
4-10: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-7-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=0-5-8, 7=0-5-8
Max Horz 1=161(LC 5)
Max Uplift 1=-1654(LC 8), 7=-1793(LC 9)
Max Grav 1=7749(LC 2), 7=8350(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-13834/2956, 2-3=-11121/2397, 3-4=-8575/1894, 4-5=-8575/1895, 5-6=-11123/2401, 6-7=-13893/2981
BOT CHORD 1-12=-2603/11933, 11-12=-2603/11933, 10-11=-2040/9576, 9-10=-1972/9577, 8-9=-2517/11988, 7-8=-2517/11988
WEBS 4-10=-1818/8397, 5-10=-3509/851, 5-9=-823/3867, 6-9=-2898/699, 6-8=-574/2812, 3-10=-3508/845, 3-11=-815/3863, 2-11=-2833/676, 2-12=-552/2753

**NOTES-**
1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) 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; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1654, 7=1793.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1226 lb down and 270 lb up at 2-0-12, 1226 lb down and 270 lb up at 4-0-12, 1226 lb down and 270 lb up at 6-0-12, 1202 lb down and 270 lb up at 8-0-12, 1202 lb down and 270 lb up at 10-0-12, 1202 lb down and 270 lb up at 12-0-12, 1202 lb down and 270 lb up at 14-0-12, 1202 lb down and 270 lb up at 16-0-12, 1202 lb down and 270 lb up at 18-0-12, 1202 lb down and 270 lb up at 20-0-12, and 1202 lb down and 270 lb up at 22-0-12, and 1203 lb down and 269 lb up at 24-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021

Continued on page 2



MiTek
6904 Parke East Blvd.
Tampa, FL 36610

**LOAD CASE(S)** Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-54, 4-7=-54, 1-7=-20
   Concentrated Loads (lb)
   Vert: 16=-1146(B) 17=-1145(B) 18=-1145(B) 19=-1145(B) 20=-1145(B) 21=-1145(B) 22=-1145(B) 23=-1145(B) 24=-1145(B) 25=-1145(B) 26=-1145(B) 27=-1145(B)

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. T22870154 |
|---|---|---|---|---|---|
| 2646866 | T03 | Common | 3 | 1 | Job Reference (optional) |

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Feb 16 14:02:03 2021 Page 1
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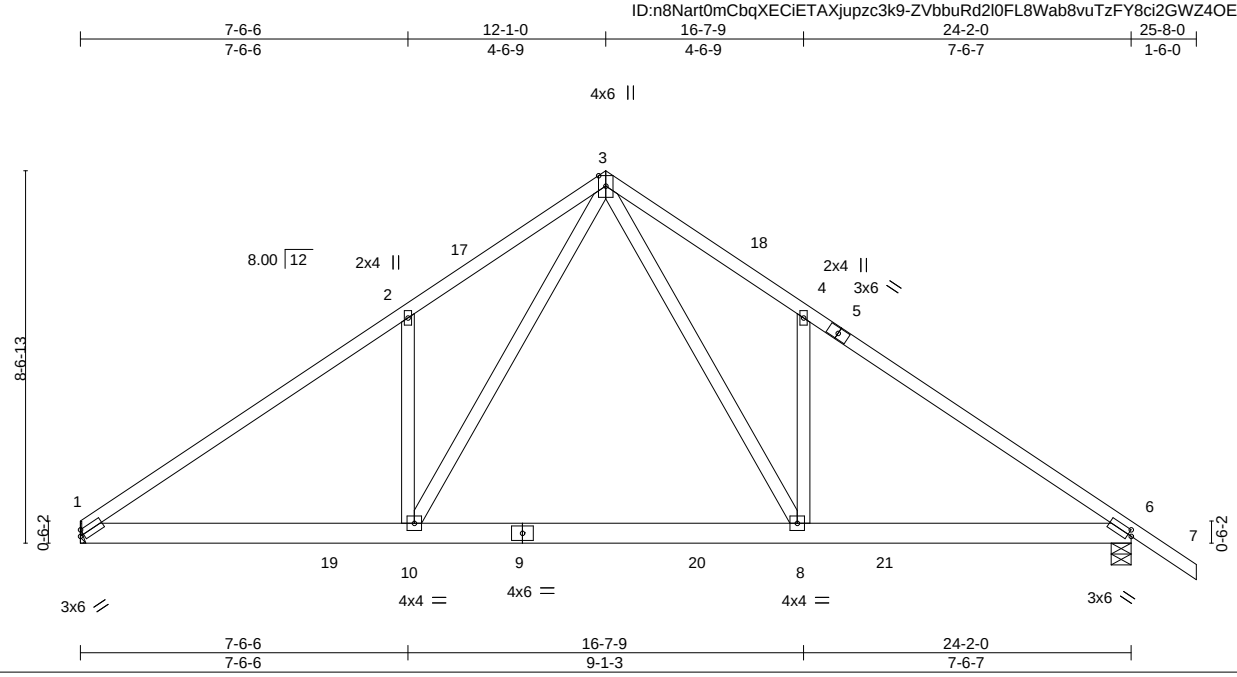


Plate Offsets (X,Y)-- [6:0-1-0,0-1-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.57 | Vert(LL) | -0.17 | 8-10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.79 | Vert(CT) | -0.32 | 8-10 | >916 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.62 | Horz(CT) | 0.03 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-MS | | | | | | | Weight: 144 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-8-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=Mechanical, 6=0-5-8
Max Horz 1=-192(LC 10)
Max Uplift 1=-250(LC 12), 6=-283(LC 13)
Max Grav 1=1320(LC 19), 6=1399(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2003/383, 2-3=-2029/551, 3-4=-2019/544, 4-6=-1995/376
BOT CHORD 1-10=-317/1711, 8-10=-134/1113, 6-8=-222/1603
WEBS 3-8=-368/1215, 4-8=-355/264, 3-10=-377/1229, 2-10=-358/266

**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) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 12-1-0, Exterior(2R) 12-1-0 to 15-1-0, Interior(1) 15-1-0 to 25-8-0 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) 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) except (jt=lb) 1=250, 6=283.
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=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-7=-54, 10-11=-20, 8-10=-80(F=-60), 8-14=-20

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Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021




MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. T22870155 |
|---|---|---|---|---|---|
| 2646866 | T03G | GABLE | 1 | 1 | Job Reference (optional) |

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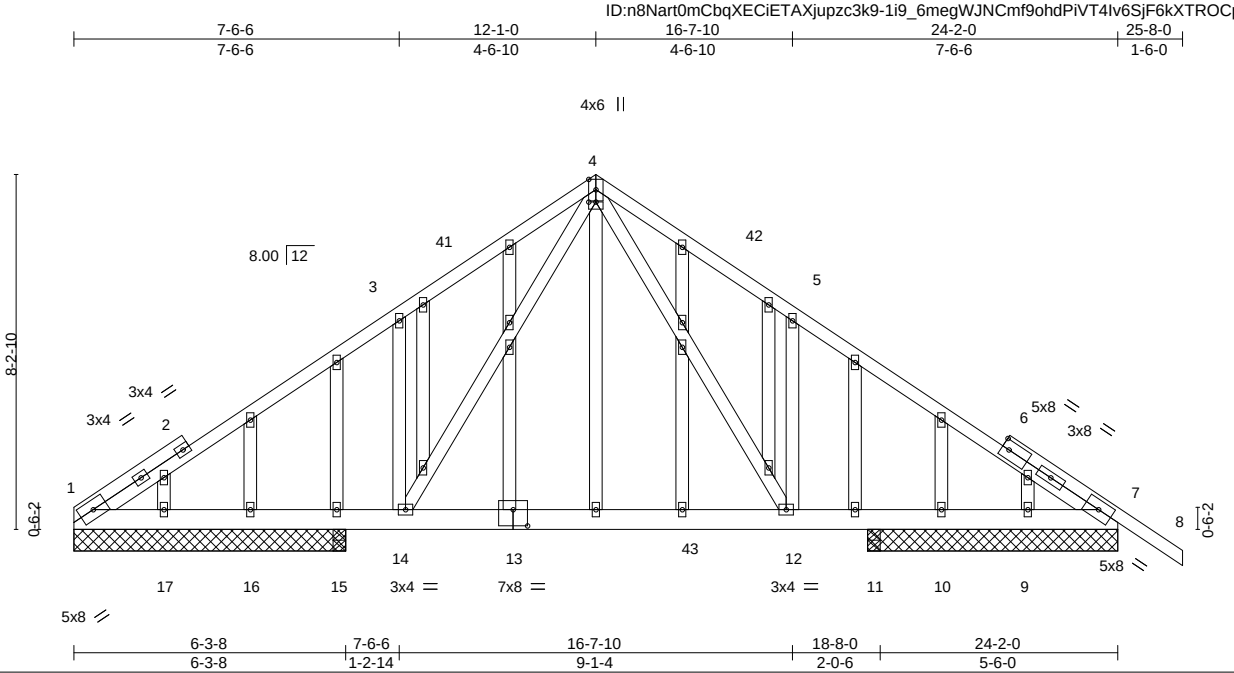


Plate Offsets (X,Y)-- [4:0-2-0,0-0-0], [13:0-4-0,0-4-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.60 | Vert(LL) | -0.11 | 12-14 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.52 | Vert(CT) | -0.19 | 12-14 | >780 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.21 | Horz(CT) | 0.01 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-MS | | | | | | | Weight: 209 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x6 SP No.2 |
| WEBS | 2x4 SP No.3 |
| OTHERS | 2x4 SP No.3 |

**BRACING-**

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

**REACTIONS.** All bearings 6-3-8 except (jt=length) 7=5-9-8, 10=5-9-8, 9=5-9-8, 11=0-3-8, 7=5-9-8.
(lb) - Max Horz 1=-184(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) except 15=-206(LC 12), 16=-430(LC 19), 17=-237(LC 12), 10=-402(LC 20), 9=-214(LC 13), 11=-163(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 16, 10, 1 except 1=311(LC 20), 7=422(LC 2), 15=688(LC 19), 15=607(LC 1), 17=586(LC 19), 9=536(LC 20), 11=529(LC 20), 7=360(LC 1)

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

| | |
|---|---|
| TOP CHORD | 1-3=-726/64, 3-4=-697/166, 4-5=-830/207, 5-7=-806/74 |
| BOT CHORD | 1-17=-24/602, 16-17=-24/602, 15-16=-24/602, 14-15=-24/602, 12-14=-0/454, 11-12=0/638, 10-11=0/638, 9-10=0/638, 7-9=0/638 |
| WEBS | 4-12=-135/487, 5-12=-331/238, 4-14=-81/294, 3-14=-334/239 |

**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) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 12-1-0, Exterior(2R) 12-1-0 to 15-1-0, Interior(1) 15-1-0 to 25-8-0 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 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, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 206 lb uplift at joint 15, 430 lb uplift at joint 16, 237 lb uplift at joint 17, 402 lb uplift at joint 10, 214 lb uplift at joint 9 and 163 lb uplift at joint 11.

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Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021




MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. T22870156 |
|---|---|---|---|---|---|
| 2646866 | T04 | Common | 9 | 1 | Job Reference (optional) |

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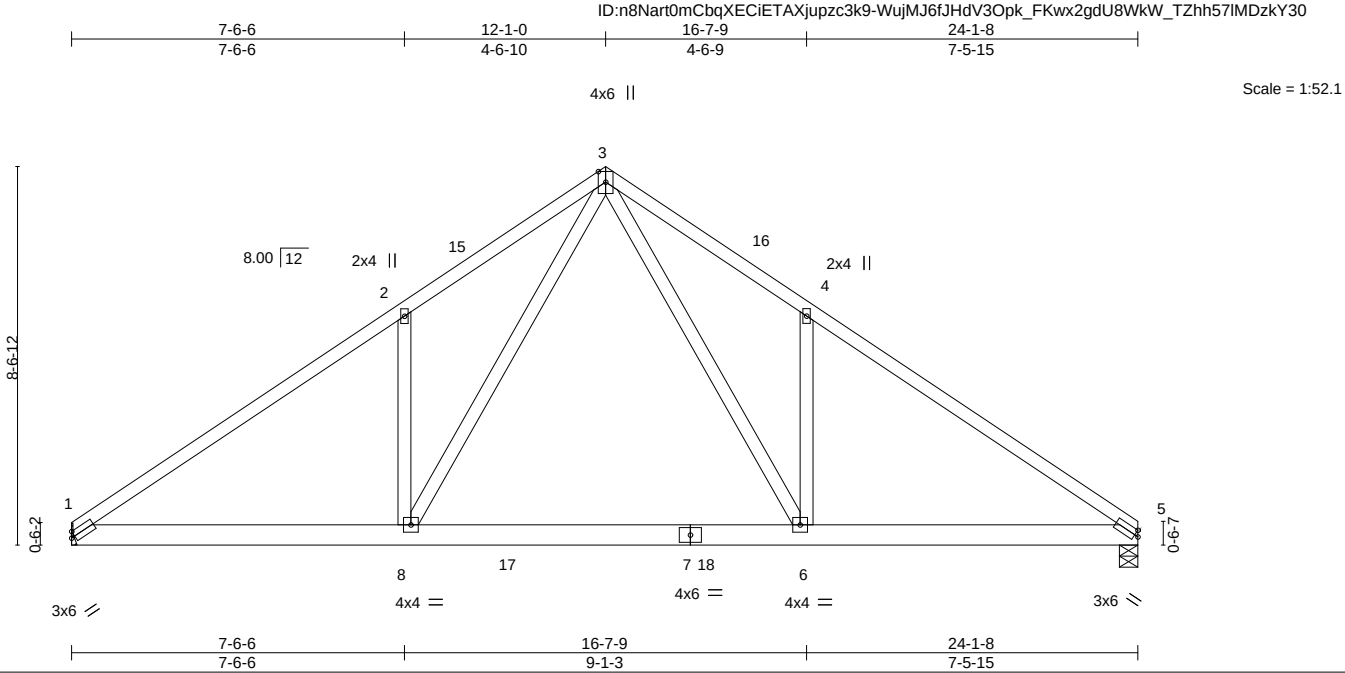


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.57 | Vert(LL) | -0.17 | 6-8 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.80 | Vert(CT) | -0.32 | 6-8 | >905 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.62 | Horz(CT) | 0.03 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-MS | | | | | | | Weight: 141 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-8-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=Mechanical, 5=0-5-0
Max Horz 1=177(LC 9)
Max Uplift 1=-250(LC 12), 5=-250(LC 13)
Max Grav 1=1296(LC 19), 5=1297(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1967/383, 2-3=-1992/551, 3-4=-1983/550, 4-5=-1959/381
BOT CHORD 1-8=-333/1669, 6-8=-149/1081, 5-6=-237/1557
WEBS 2-8=-357/266, 3-8=-377/1207, 3-6=-374/1193, 4-6=-355/265

**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) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 12-1-0, Exterior(2R) 12-1-0 to 15-1-0, Interior(1) 15-1-0 to 24-1-8 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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 250 lb uplift at joint 1 and 250 lb uplift at joint 5.
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=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-5=-54, 8-9=-20, 6-8=-80(F=-60), 6-12=-20

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Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021




MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. |
|---|---|---|---|---|---|
| 2646866 | T05 | Common | 1 | 1 | T22870157 |
| | | | | | Job Reference (optional) |

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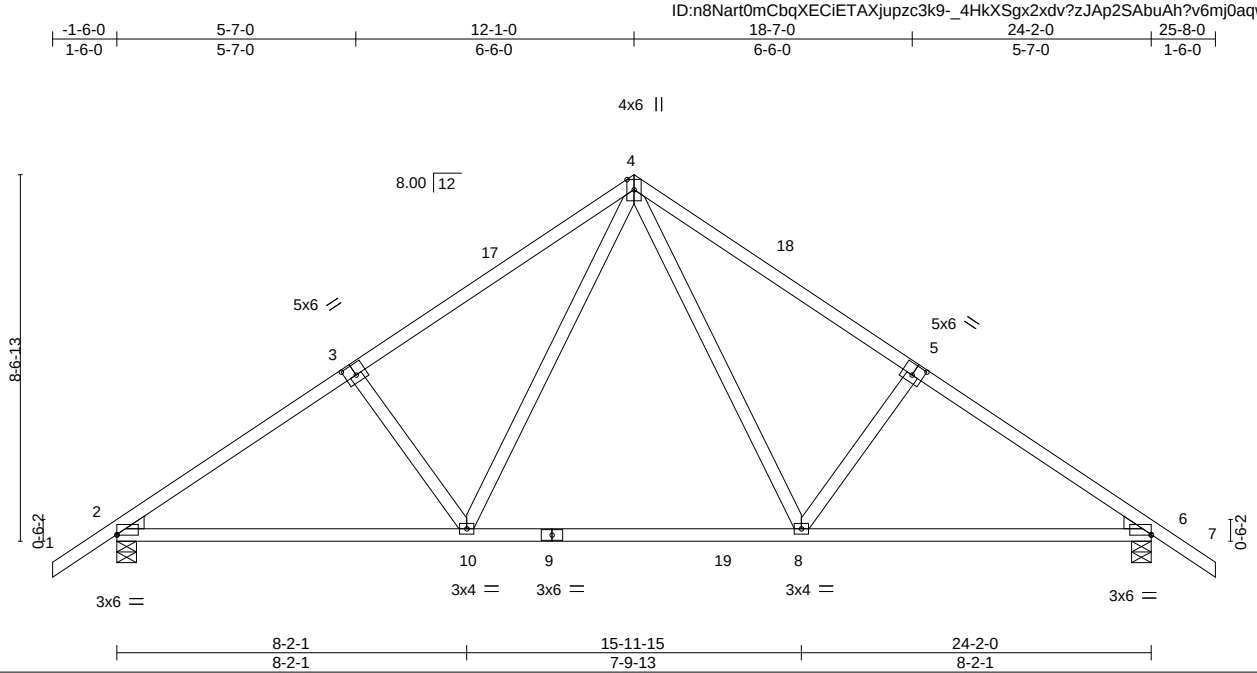


Plate Offsets (X,Y)-- [2:0-0-0,0-0-3], [3:0-3-0,0-3-0], [5:0-3-0,0-3-0], [6:Edge,0-0-3]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.44 | Vert(LL) | -0.15 | 8-10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.67 | Vert(CT) | -0.22 | 8-10 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.25 | Horz(CT) | 0.03 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-MS | | | | | | | Weight: 126 lb | FT = 20% |

**LUMBER-**
TOP 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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-6-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 2=0-5-8, 6=0-5-8
Max Horz 2=-199(LC 10)
Max Uplift 2=-209(LC 12), 6=-209(LC 13)
Max Grav 2=1099(LC 19), 6=1099(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1421/260, 3-4=-1286/287, 4-5=-1287/287, 5-6=-1422/260
BOT CHORD 2-10=-252/1267, 8-10=-57/811, 6-8=-132/1129
WEBS 4-8=-154/640, 5-8=-320/228, 4-10=-154/639, 3-10=-320/227

**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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 12-1-0, Exterior(2R) 12-1-0 to 15-1-0, Interior(1) 15-1-0 to 25-8-0 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 209 lb uplift at joint 2 and 209 lb uplift at joint 6.

This item has been electronically signed and sealed by Finn, Walter, 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.

Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021



MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. |
|---|---|---|---|---|---|
| 2646866 | T05G | Common Supported Gable | 1 | 1 | T22870158 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Feb 16 14:02:07 2021 Page 1
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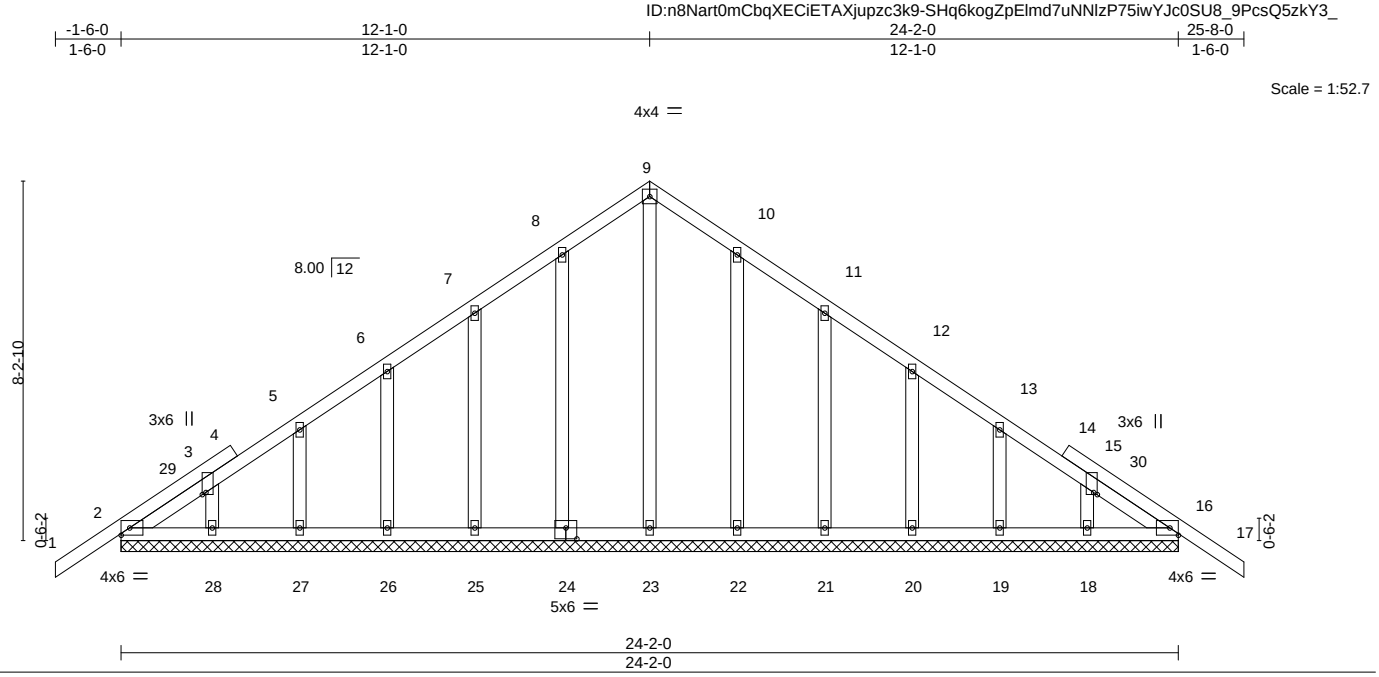


Plate Offsets (X,Y)-- [3:0-0-9,0-1-0], [15:0-0-9,0-1-0], [24:0-3-0,0-3-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.13 | Vert(LL) | -0.01 | 17 | n/r | 120 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.03 | Vert(CT) | -0.01 | 17 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.16 | Horz(CT) | 0.01 | 16 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | | | | Weight: 159 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

**REACTIONS.** All bearings 24-2-0.
(lb) - Max Horz 2=192(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 24, 25, 26, 27, 28, 22, 21, 20, 19, 18
Max Grav All reactions 250 lb or less at joint(s) 2, 16, 23, 24, 25, 26, 27, 28, 22, 21, 20, 19, 18

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

**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) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 12-1-0, Corner(3R) 12-1-0 to 15-1-0, Exterior(2N) 15-1-0 to 25-8-0 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.
7) 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.
9) * 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) 2, 16, 24, 25, 26, 27, 28, 22, 21, 20, 19, 18.

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Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021




MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. |
|---|---|---|---|---|---|
| 2646866 | T06 | Common | 4 | 1 | T22870159 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Feb 16 14:02:08 2021 Page 1
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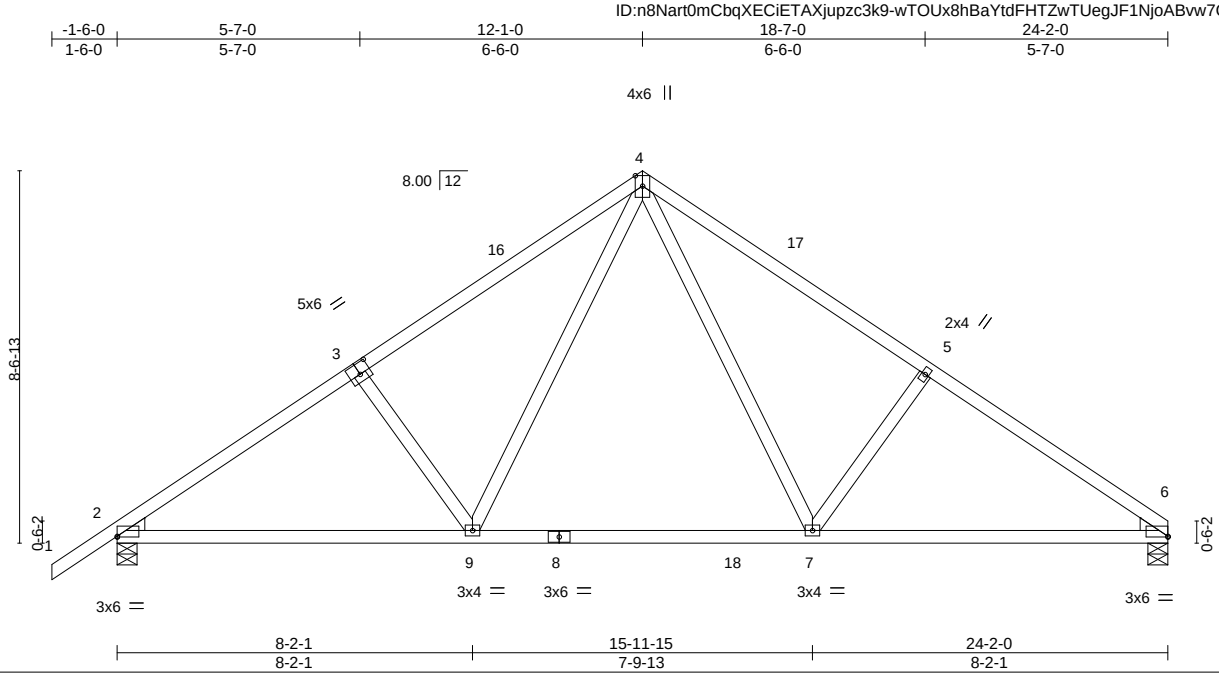


Plate Offsets (X,Y)-- [2:Edge,0-0-3], [3:0-3-0,0-3-0], [6:0-0-0,0-0-3]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.44 | Vert(LL) | -0.15 | 7-9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.68 | Vert(CT) | -0.22 | 7-9 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.26 | Horz(CT) | 0.03 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-MS | | | | | | | Weight: 123 lb | FT = 20% |

**LUMBER-**
TOP 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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-6-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 6=0-5-8, 2=0-5-8
Max Horz 2=192(LC 9)
Max Uplift 6=-176(LC 13), 2=-209(LC 12)
Max Grav 6=1022(LC 20), 2=1100(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1423/261, 3-4=-1288/287, 4-5=-1298/294, 5-6=-1433/267
BOT CHORD 2-9=-268/1258, 7-9=-72/802, 6-7=-165/1136
WEBS 4-7=-161/652, 5-7=-327/232, 4-9=-154/638, 3-9=-320/227

**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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 12-1-0, Exterior(2R) 12-1-0 to 15-1-0, Interior(1) 15-1-0 to 24-2-0 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) 6=176, 2=209.

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Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021



MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. |
|---|---|---|---|---|---|
| 2646866 | T07 | Common | 5 | 1 | T22870160 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Feb 16 14:02:09 2021 Page 1
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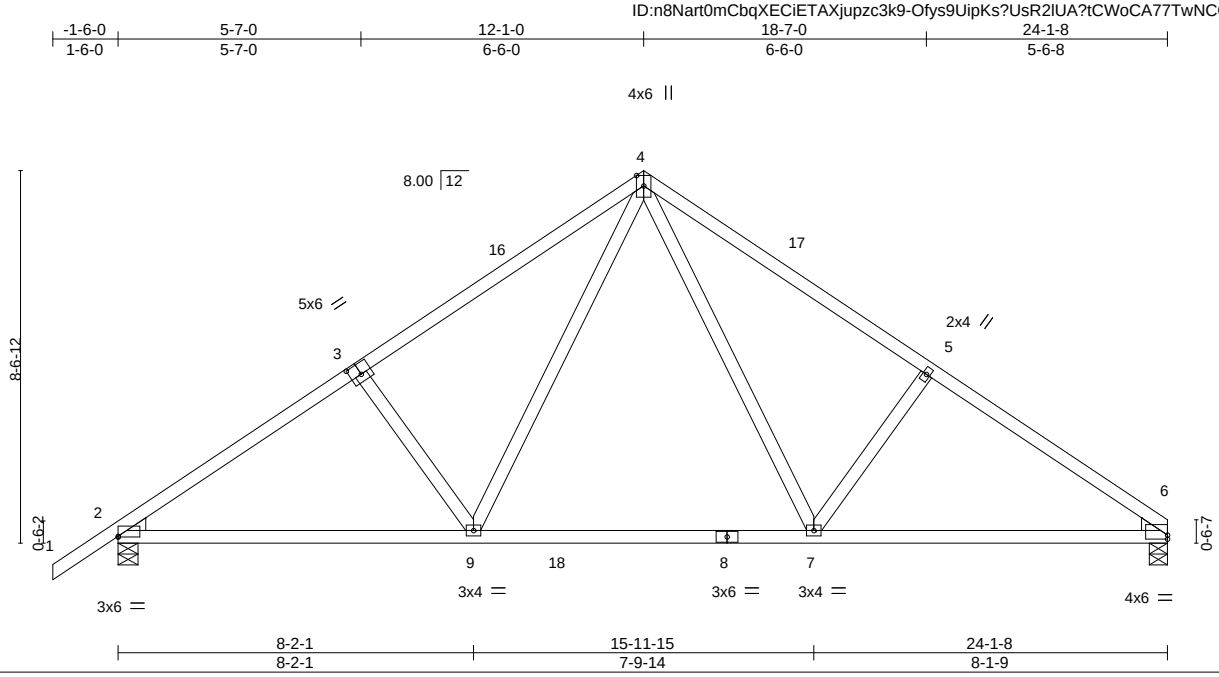


Plate Offsets (X,Y)-- [2:0-0-0,0-0-3], [3:0-3-0,0-3-0], [6:0-0-0,0-1-2]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.44 | Vert(LL) | -0.15 | 7-9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.67 | Vert(CT) | -0.22 | 7-9 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.26 | Horz(CT) | 0.03 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-MS | | | | | | | Weight: 123 lb | FT = 20% |

**LUMBER-**
TOP 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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-6-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 6=0-5-0, 2=0-5-8
Max Horz 2=192(LC 9)
Max Uplift 6=-175(LC 13), 2=-209(LC 12)
Max Grav 6=1020(LC 20), 2=1098(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1421/260, 3-4=-1286/287, 4-5=-1289/293, 5-6=-1424/265
BOT CHORD 2-9=-268/1255, 7-9=-73/799, 6-7=-164/1127
WEBS 4-7=-159/642, 5-7=-322/231, 4-9=-154/640, 3-9=-319/227

**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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 12-1-0, Exterior(2R) 12-1-0 to 15-1-0, Interior(1) 15-1-0 to 24-1-8 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) 6=175, 2=209.

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Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021



MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. |
|---|---|---|---|---|---|
| 2646866 | T08 | Roof Special | 6 | 1 | T22870161 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Feb 16 14:02:10 2021 Page 1
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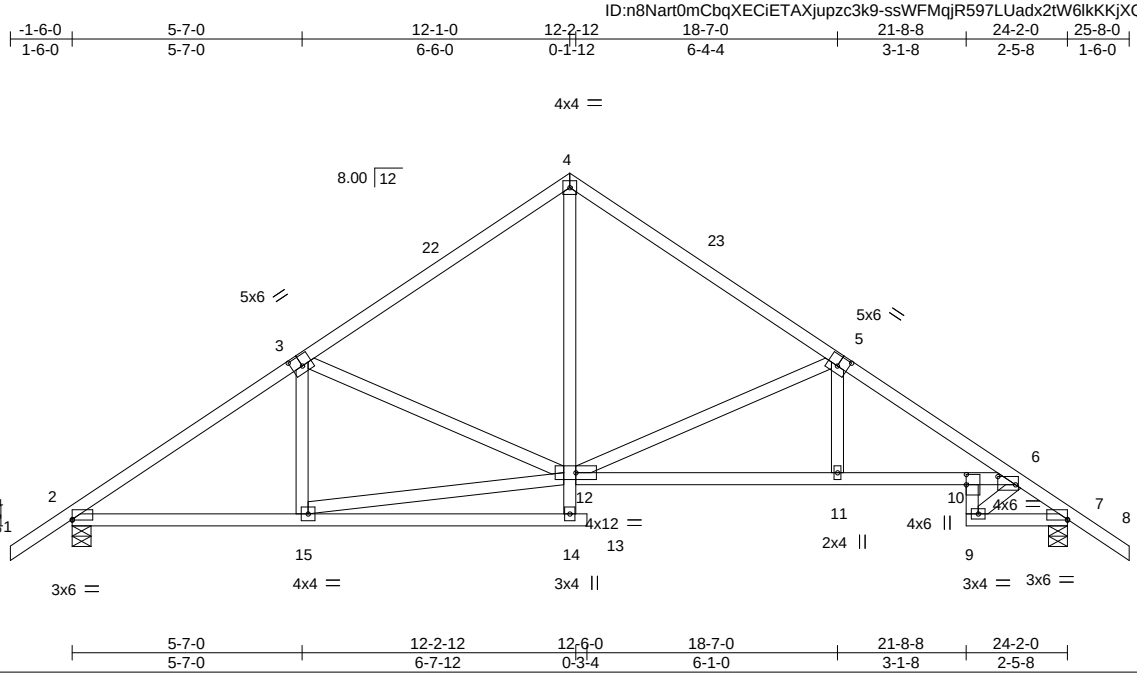


Plate Offsets (X,Y)-- [2:0-0-0,0-0-3], [3:0-3-0,0-3-0], [5:0-3-0,0-3-0], [6:0-5-2,0-2-6], [7:0-0-0,0-0-3], [10:0-3-0,0-0-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.58 | Vert(LL) | -0.14 | 10-11 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.84 | Vert(CT) | -0.27 | 10-11 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.74 | Horz(CT) | 0.13 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-MS | | | | | | | Weight: 141 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 *Except* |
| | 4-14,9-10: 2x4 SP No.3, 6-12: 2x4 SP M 31 |
| WEBS | 2x4 SP No.3 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 3-5-6 oc purlins. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. Except: |
| | 10-0-0 oc bracing: 12-14 |

**REACTIONS.** (size) 2=0-5-8, 7=0-5-8
Max Horz 2=-199(LC 10)
Max Uplift 2=-207(LC 12), 7=-207(LC 13)
Max Grav 2=979(LC 1), 7=979(LC 1)

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

| | |
|---|---|
| TOP CHORD | 2-3=-1311/247, 3-4=-1011/231, 4-5=-1018/240, 5-6=-1748/297, 6-7=-1194/224 |
| BOT CHORD | 2-15=-243/1052, 4-12=-121/679, 11-12=-170/1464, 10-11=-171/1455, 6-10=-147/1254, |
| | 9-10=-74/622, 7-9=-114/862 |
| WEBS | 3-12=-336/198, 5-12=-771/265, 5-11=0/434, 12-15=-240/952, 6-9=-896/122 |

**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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 12-1-0, Exterior(2R) 12-1-0 to 15-1-0, Interior(1) 15-1-0 to 25-8-0 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.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=207, 7=207.

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Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021




MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. T22870162 |
|---|---|---|---|---|---|
| 2646866 | T09 | Common | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Feb 16 14:02:11 2021 Page 1
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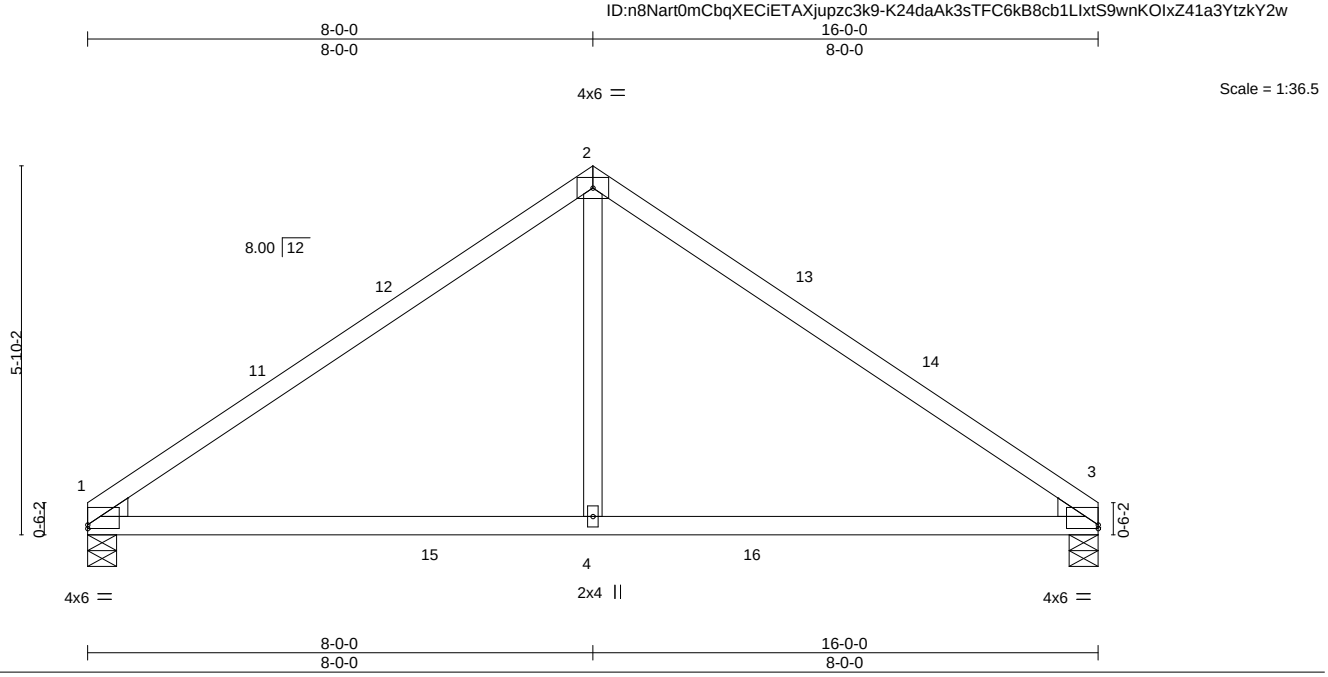


Plate Offsets (X,Y)-- [1:0-0-0,0-0-11], [3:0-0-0,0-0-11]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.79 | Vert(LL) | -0.15 | 4-7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.78 | Vert(CT) | -0.25 | 4-7 | >781 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.18 | Horz(CT) | 0.02 | 1 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-MS | | | | | | | Weight: 62 lb | FT = 20% |

**LUMBER-**
TOP 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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-2-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=0-5-8, 3=0-5-8
Max Horz 1=-117(LC 8)
Max Uplift 1=-116(LC 12), 3=-116(LC 13)
Max Grav 1=696(LC 19), 3=696(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-836/172, 2-3=-836/172
BOT CHORD 1-4=-65/642, 3-4=-65/642
WEBS 2-4=0/462

**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) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 8-0-0, Exterior(2R) 8-0-0 to 11-0-0, Interior(1) 11-0-0 to 16-0-0 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) 1=116, 3=116.

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Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021



MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. T22870163 |
|---|---|---|---|---|---|
| 2646866 | T09G | Common Supported Gable | 1 | 1 | Job Reference (optional) |

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ID:n8Nart0mCbqXECiETAXjupzc3k9-pEe?nWkidnO3jumK9IYaq9QnDKJB7n5jJhKd4JzkY2v

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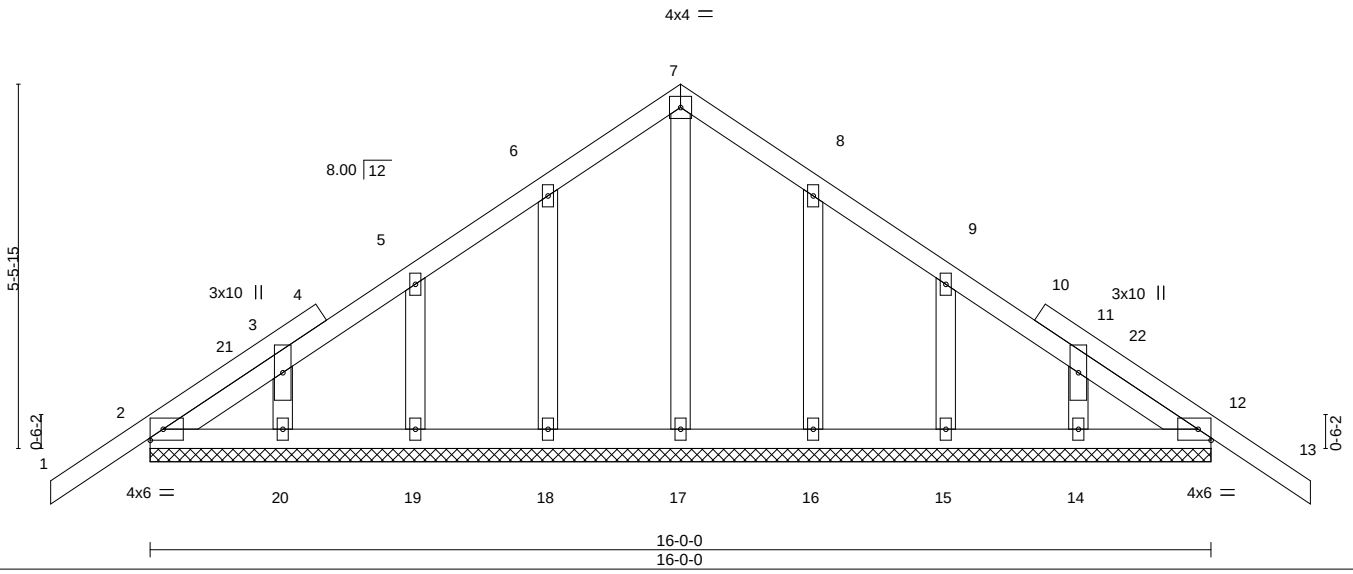


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.13 | Vert(LL) | -0.01 | 13 | n/r | 120 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.03 | Vert(CT) | -0.01 | 13 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.05 | Horz(CT) | 0.00 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | | | | Weight: 94 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

**REACTIONS.** All bearings 16-0-0.
(lb) - Max Horz 2=-132(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 18, 19, 20, 16, 15, 14
Max Grav All reactions 250 lb or less at joint(s) 2, 12, 17, 18, 19, 20, 16, 15, 14

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

**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) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 8-0-0, Corner(3R) 8-0-0 to 11-0-0, Exterior(2N) 11-0-0 to 17-6-0 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.
7) 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.
9) * 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) 2, 12, 18, 19, 20, 16, 15, 14.

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Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021




MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. |
|---|---|---|---|---|---|
| 2646866 | T10 | Roof Special | 3 | 1 | T22870164 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Feb 16 14:02:13 2021 Page 1
ID:n8Nart0mCbqXECiETAXjupzc3k9-HQCN?rlKO4WwL2LWj04pNMyuQkW5s3gsXL3AdlzkY2u

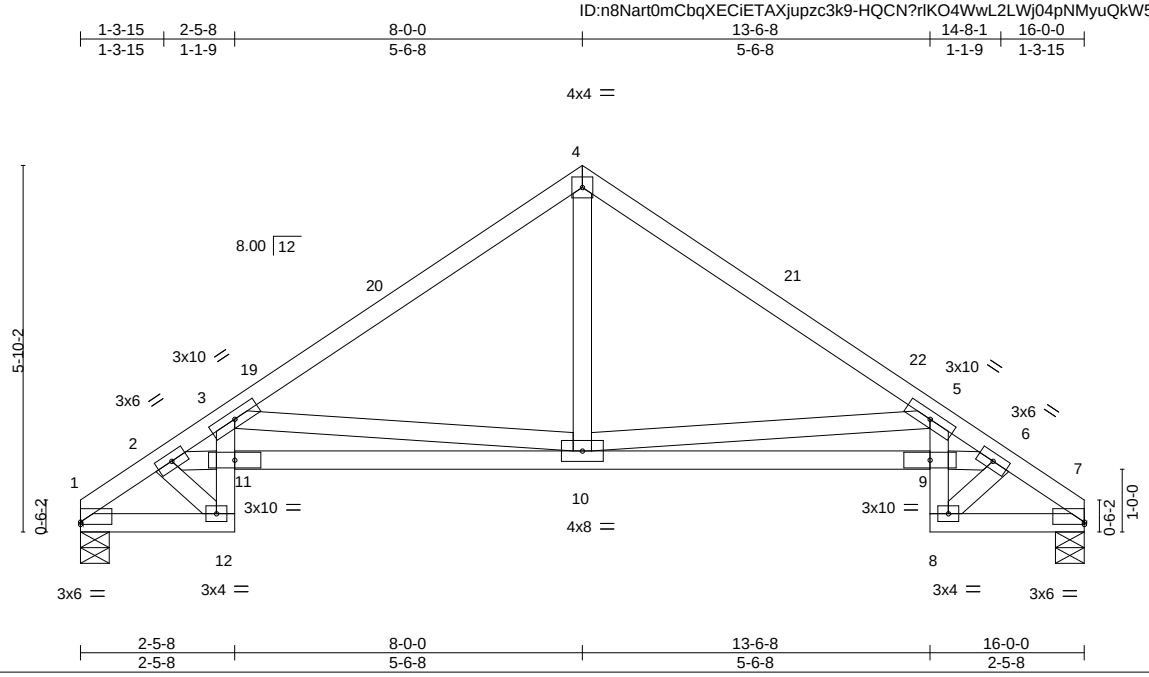


Plate Offsets (X,Y)-- [1:0-0-0,0-0-7], [7:0-0-0,0-0-7]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.36 | Vert(LL) | -0.07 | 9-10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.63 | Vert(CT) | -0.15 | 9-10 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.74 | Horz(CT) | 0.13 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-MS | | | | | | | Weight: 85 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-12,5-8: 2x4 SP No.3
WEBS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-5-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-0-15 oc bracing.

**REACTIONS.** (size) 1=0-5-8, 7=0-5-8
Max Horz 1=-117(LC 8)
Max Uplift 1=-116(LC 12), 7=-116(LC 13)
Max Grav 1=592(LC 1), 7=592(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-814/179, 2-3=-1696/427, 3-4=-766/177, 4-5=-766/179, 5-6=-1696/367, 6-7=-814/178
BOT CHORD 1-12=-174/623, 11-12=-105/448, 3-11=-86/484, 10-11=-535/1722, 9-10=-381/1676, 8-9=-64/432, 5-9=-46/468, 7-8=-116/604
WEBS 4-10=-60/470, 5-10=-1117/404, 6-9=-249/1269, 6-8=-601/99, 3-10=-1180/478, 2-11=-362/1296, 2-12=-620/155

**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) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 8-0-0, Exterior(2R) 8-0-0 to 11-0-0, Interior(1) 11-0-0 to 16-0-0 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.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=116, 7=116.

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6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021



MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. |
|---|---|---|---|---|---|
| 2646866 | T11 | FLAT GIRDER | 1 | 2 | T22870165 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Feb 16 14:02:14 2021 Page 1
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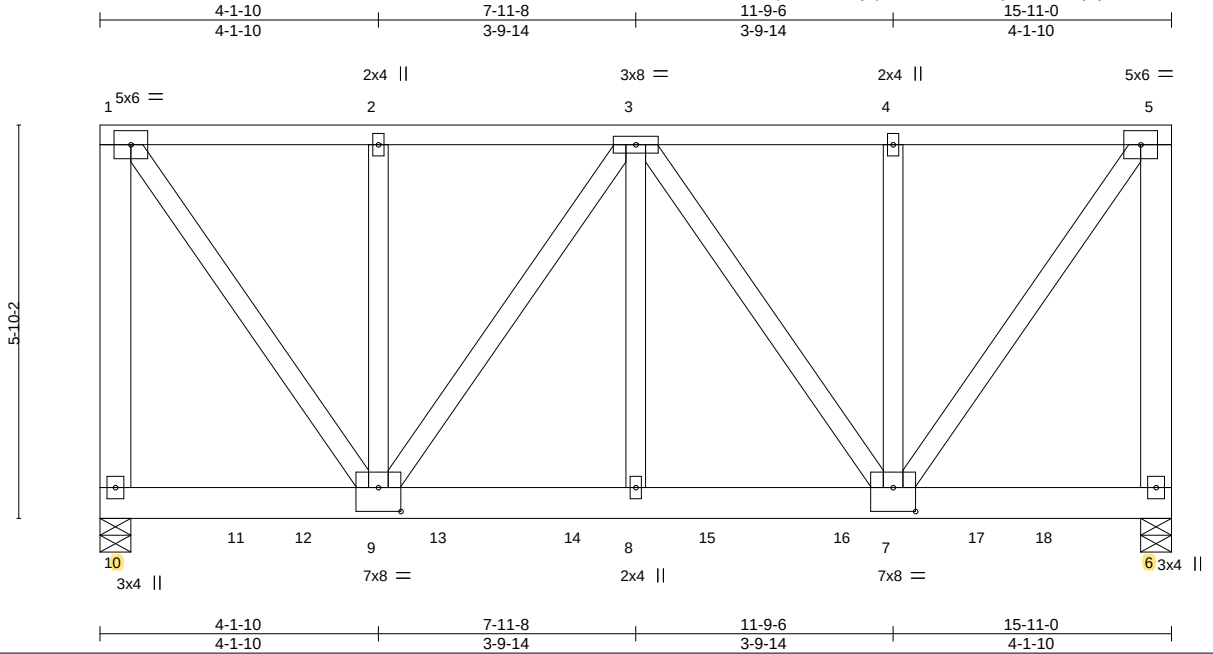


Plate Offsets (X,Y)-- [7:0-4-0,0-4-4], [9:0-4-0,0-4-4]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.22 | Vert(LL) | -0.04 | 7-8 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.69 | Vert(CT) | -0.07 | 7-8 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.77 | Horz(CT) | 0.01 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-MS | | | | | | | Weight: 288 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
1-10,5-6: 2x6 SP No.2

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

**REACTIONS.** (size) 10=0-5-8, 6=0-5-8
Max Horz 10=-176(LC 4)
Max Uplift 10=-837(LC 4), 6=-839(LC 5)
Max Grav 10=4061(LC 2), 6=3871(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-3372/724, 1-2=-2401/505, 2-3=-2401/505, 3-4=-2326/500, 4-5=-2326/500, 5-6=-3276/718
BOT CHORD 8-9=-675/2949, 7-8=-675/2949
WEBS 1-9=-832/4022, 3-9=-956/242, 3-8=-240/1493, 3-7=-1087/249, 5-7=-824/3906

**NOTES-**
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-8-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) 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; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
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) Provide adequate drainage to prevent water ponding.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=837, 6=839.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1081 lb down and 201 lb up at 2-0-12, 847 lb down and 173 lb up at 3-0-12, 862 lb down and 173 lb up at 5-0-12, 862 lb down and 173 lb up at 7-0-12, 862 lb down and 173 lb up at 9-0-12, 862 lb down and 173 lb up at 11-0-12, and 862 lb down and 173 lb up at 13-0-12, and 702 lb down and 180 lb up at 14-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

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Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: February 16,2021

Continued on page 2



MiTek
6904 Parke East Blvd.
Tampa, FL 36610

**LOAD CASE(S)** Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-5=-54, 6-10=-20
   Concentrated Loads (lb)
   Vert: 11=-956(F) 12=-704(F) 13=-712(F) 14=-712(F) 15=-712(F) 16=-712(F) 17=-712(F) 18=-632(F)

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. |
|---|---|---|---|---|---|
| 2646866 | T12 | PIGGYBACK BASE | 1 | 1 | T22870166 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Feb 16 14:02:15 2021 Page 1
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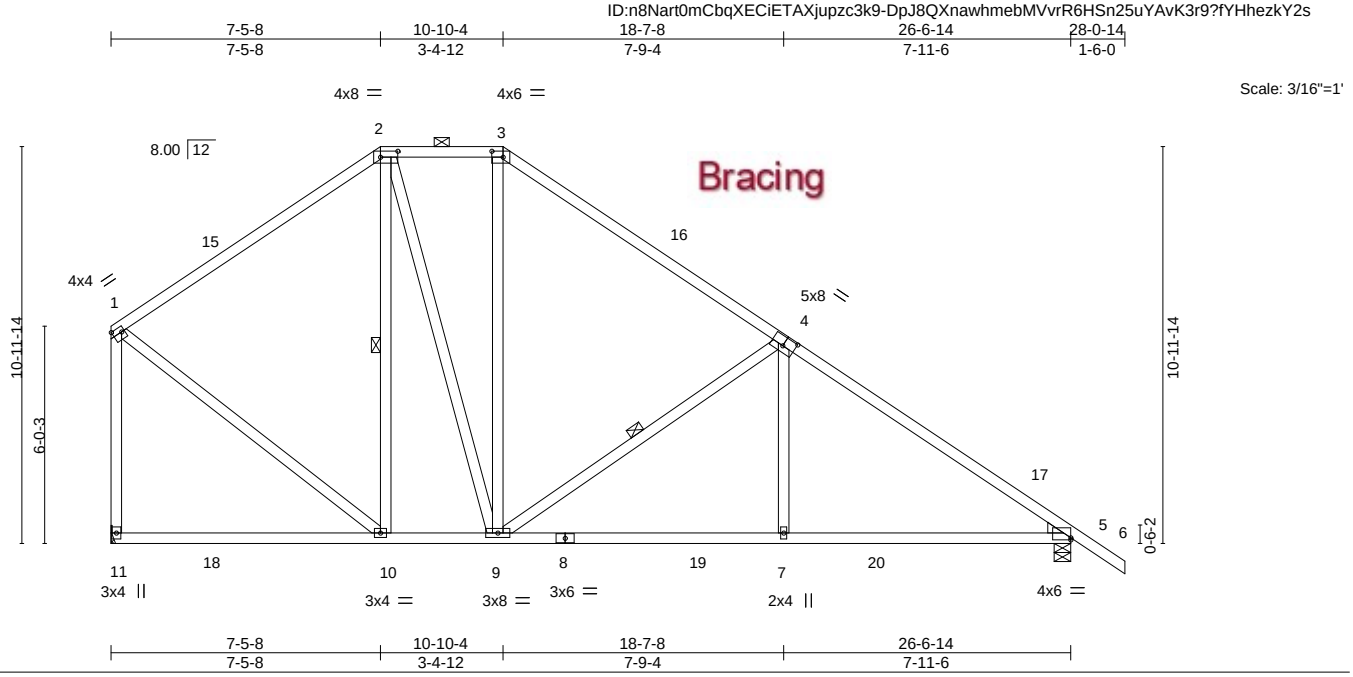


Plate Offsets (X,Y)-- [1:Edge,0-1-12], [2:0-5-12,0-2-0], [3:0-3-12,0-2-0], [4:0-4-0,0-3-0], [5:0-0-0,0-0-11]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.94 | Vert(LL) | -0.13 | 10-11 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.73 | Vert(CT) | -0.23 | 10-11 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.37 | Horz(CT) | 0.02 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-MS | | | | | | | Weight: 180 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Right: 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-9-12 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-10, 4-9

**REACTIONS.** (size) 11=Mechanical, 5=0-5-8
Max Horz 11=-295(LC 13)
Max Uplift 11=-181(LC 13), 5=-221(LC 13)
Max Grav 11=1101(LC 2), 5=1217(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-765/185, 2-3=-665/230, 3-4=-899/200, 4-5=-1573/253, 1-11=-949/200
BOT CHORD 10-11=-178/289, 9-10=-55/643, 7-9=-81/1219, 5-7=-81/1215
WEBS 2-10=-255/100, 2-9=-150/434, 3-9=-56/274, 4-9=-795/293, 4-7=0/433, 1-10=-109/699

**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) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 7-5-8, Exterior(2E) 7-5-8 to 10-10-4, Exterior(2R) 10-10-4 to 15-1-3, Interior(1) 15-1-3 to 28-0-14 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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=181, 5=221.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021




MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. |
|---|---|---|---|---|---|
| 2646866 | T12G | GABLE | 1 | 1 | T22870167 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Feb 16 14:02:16 2021 Page 1
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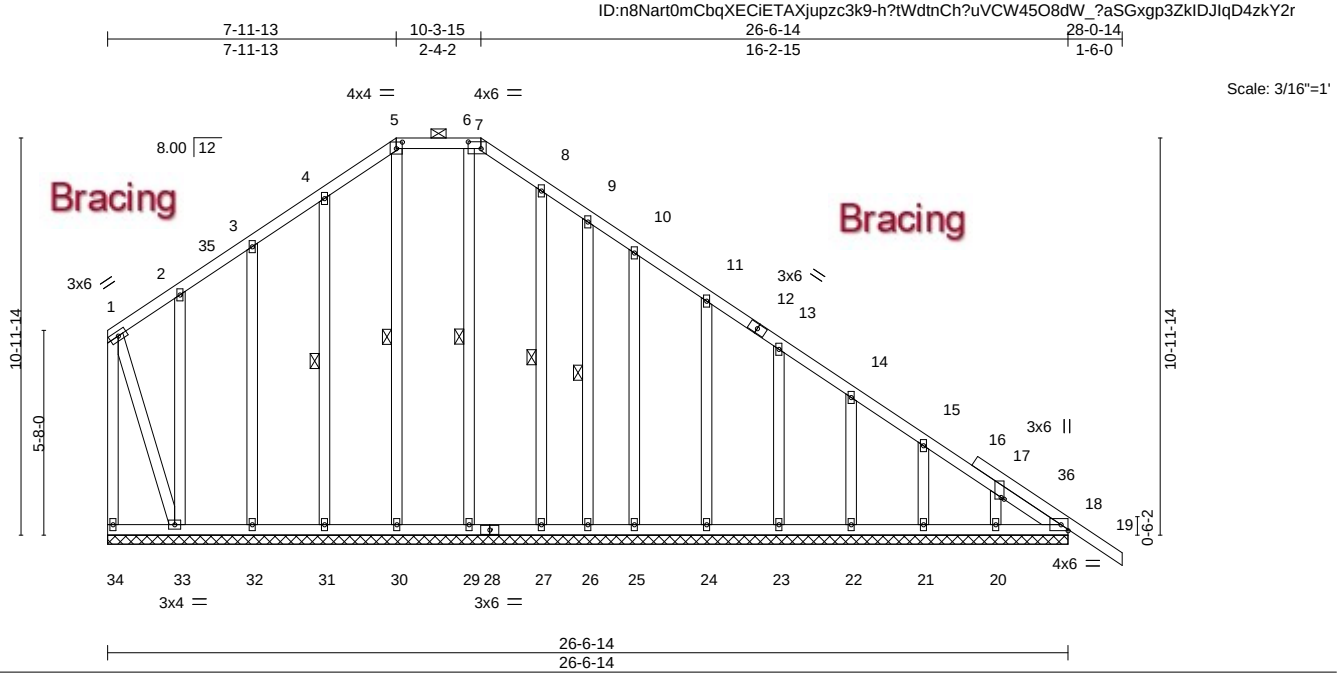


Plate Offsets (X,Y)-- [5:0-2-0,0-2-3], [7:0-4-4,0-2-4], [17:0-0-9,0-1-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.13 | Vert(LL) | -0.01 | 19 | n/r | 120 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.05 | Vert(CT) | -0.01 | 19 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.14 | Horz(CT) | 0.01 | 18 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | | | | Weight: 240 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.3 |
| OTHERS | 2x4 SP No.3 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 1 Row at midpt 9-26, 4-31, 5-30, 6-29, 8-27 |

**REACTIONS.** All bearings 26-6-14.
(lb) - Max Horz 34=-289(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 26, 20, 21, 22, 23, 24, 25, 32, 31, 29, 27, 18 except 34=-148(LC 8), 33=-141(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 34, 26, 20, 21, 22, 23, 24, 25, 32, 31, 30, 29, 27, 18 except 33=251(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 33-34=-189/289, 32-33=-148/255, 31-32=-148/255, 30-31=-148/255, 29-30=-148/255, 27-29=-148/255, 26-27=-148/255, 25-26=-148/255, 24-25=-148/255, 23-24=-148/255, 22-23=-148/255, 21-22=-148/255, 20-21=-148/255, 18-20=-147/254

**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) 0-1-12 to 3-1-12, Exterior(2N) 3-1-12 to 7-11-13, Corner(3E) 7-11-13 to 10-3-15, Corner(3R) 10-3-15 to 13-3-7, Exterior(2N) 13-3-7 to 28-0-14 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) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * 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.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26, 20, 21, 22, 23, 24, 25, 32, 31, 29, 27, 18 except (jt=lb) 34=148, 33=141.
12) 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 Finn, Walter, 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.

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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021



MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. |
|---|---|---|---|---|---|
| 2646866 | T13 | Piggyback Base | 5 | 1 | T22870168 |
| | | | | | Job Reference (optional) |

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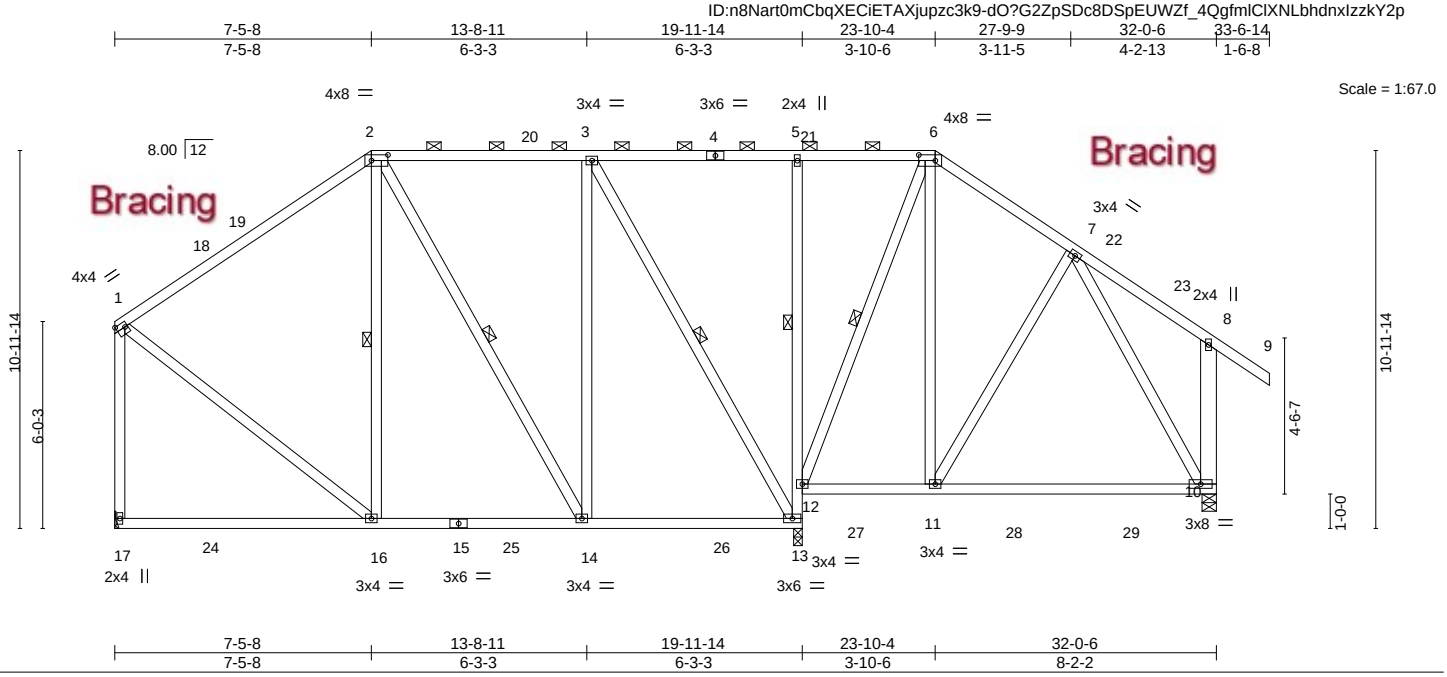





Plate Offsets (X,Y)-- [1:Edge,0-1-12], [2:0-5-12,0-2-0], [6:0-5-12,0-2-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.70 | Vert(LL) | -0.18 | 10-11 | >800 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.66 | Vert(CT) | -0.29 | 10-11 | >495 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.52 | Horz(CT) | -0.02 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-MS | | | | | | | Weight: 269 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 *Except* |
| | 5-13: 2x4 SP No.3 |
| WEBS | 2x4 SP No.3 *Except* |
| | 8-10: 2x6 SP No.2 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 5-4-14 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-6. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13. |
| | 1 Row at midpt 5-12 |
| WEBS | 1 Row at midpt 2-16, 2-14, 3-13, 6-12 |

**REACTIONS.** (size) 17=Mechanical, 13=0-3-0, 10=0-5-0
Max Horz 17=227(LC 11)
Max Uplift 17=-153(LC 12), 13=-313(LC 9), 10=-143(LC 13)
Max Grav 17=882(LC 25), 13=1297(LC 2), 10=732(LC 20)

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

| | |
|---|---|
| TOP CHORD | 1-2=-587/178, 2-3=-401/224, 6-7=-392/215, 1-17=-736/199, 8-10=-257/121 |
| BOT CHORD | 14-16=-150/461, 13-14=-114/400, 12-13=-598/136, 5-12=-295/143 |
| WEBS | 3-14=-22/393, 3-13=-677/223, 6-12=-371/54, 6-11=-58/354, 1-16=-116/491, 7-10=-368/70 |

**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) 0-1-12 to 3-4-3, Interior(1) 3-4-3 to 7-5-8, Exterior(2R) 7-5-8 to 11-11-14, Interior(1) 11-11-14 to 23-10-4, Exterior(2R) 23-10-4 to 28-4-10, Interior(1) 28-4-10 to 33-6-14 zone; end vertical right exposed;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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=153, 13=313, 10=143.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021




MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. |
|---|---|---|---|---|---|
| 2646866 | T13G | GABLE | 1 | 1 | T22870169 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Feb 16 14:02:20 2021 Page 1
ID:n8Nart0mCbqXECiETAXjupzc3k9-an71TFrjlEOwh7Osd_iS9rl0MZxY?Gcu8xG2MrzkY2n

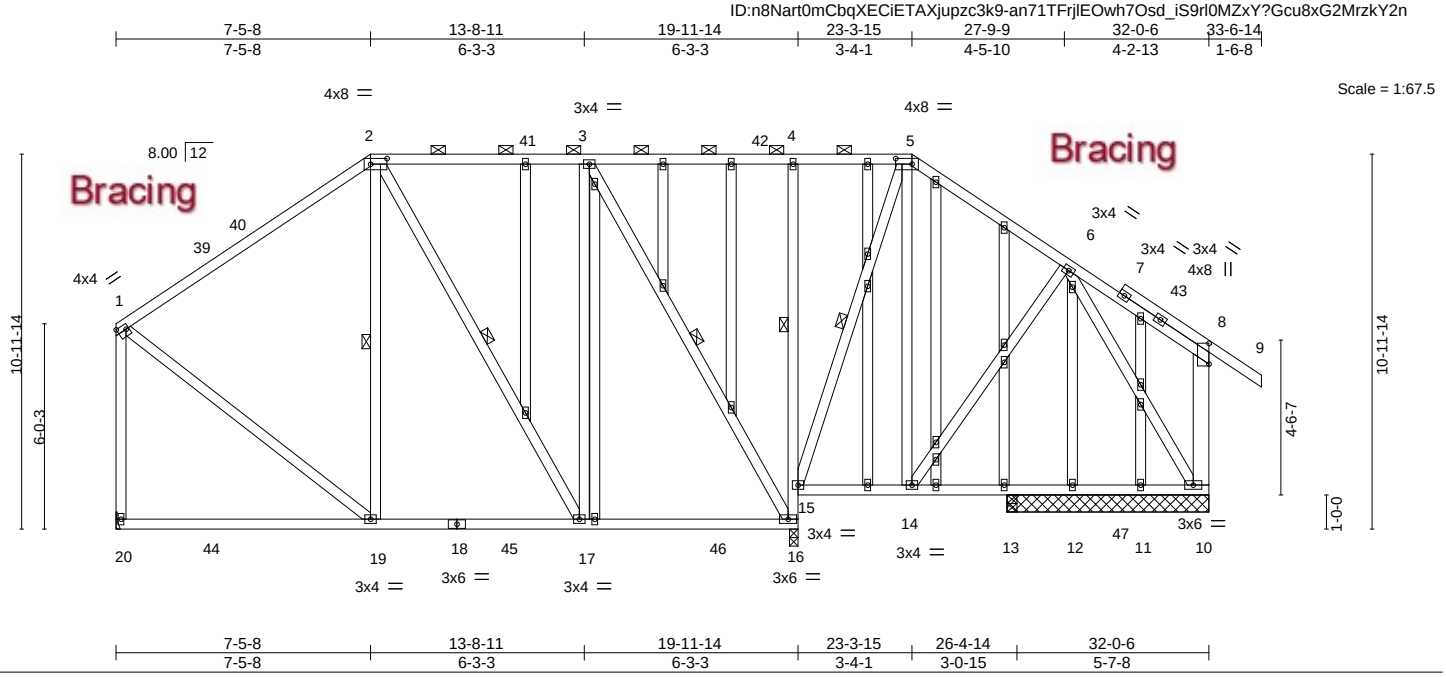





Plate Offsets (X,Y)-- [1:Edge,0-1-12], [2:0-5-12,0-2-0], [5:0-5-12,0-2-0], [8:0-7-5,0-0-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.70 | Vert(LL) | -0.11 | 19-20 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.51 | Vert(CT) | -0.20 | 19-20 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.53 | Horz(CT) | 0.02 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-MS | | | | | | | Weight: 369 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 *Except* 4-16: 2x4 SP No.3 |
| WEBS | 2x4 SP No.3 *Except* 8-10: 2x6 SP No.2 |
| OTHERS | 2x4 SP No.3 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 5-5-7 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-5. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 15-16. |
| | 1 Row at midpt 4-15 |
| WEBS | 1 Row at midpt 2-19, 2-17, 3-16, 5-15 |

**REACTIONS.** All bearings 5-11-0 except (jt=length) 20=Mechanical, 16=0-3-0, 13=0-3-8, 13=0-3-8.
(lb) - Max Horz 20=223(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 10 except 8=-107(LC 13), 20=-153(LC 12), 16=-306(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 8, 11, 12, 13, 13 except 20=867(LC 25), 16=1221(LC 2), 10=281(LC 20)

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

| | |
|---|---|
| TOP CHORD | 1-2=-574/177, 2-3=-381/222, 5-6=-290/216, 1-20=-721/198 |
| BOT CHORD | 17-19=-151/450, 16-17=-118/381, 15-16=-557/135, 4-15=-282/138 |
| WEBS | 3-17=-19/407, 3-16=-697/220, 5-15=-262/77, 1-19=-116/477, 6-10=-305/85 |

**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) 0-1-12 to 3-4-3, Interior(1) 3-4-3 to 7-5-8, Exterior(2R) 7-5-8 to 11-11-14, Interior(1) 11-11-14 to 23-3-15, Exterior(2R) 23-3-15 to 27-10-9, Interior(1) 27-10-9 to 33-6-14 zone; end vertical 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) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) 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.
9) * 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.
10) Refer to girder(s) for truss to truss connections.
11) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 8=107, 20=153, 16=306.

Continued on page 2

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Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021



MiTek
6904 Parke East Blvd.
Tampa, FL 36610

**NOTES-**

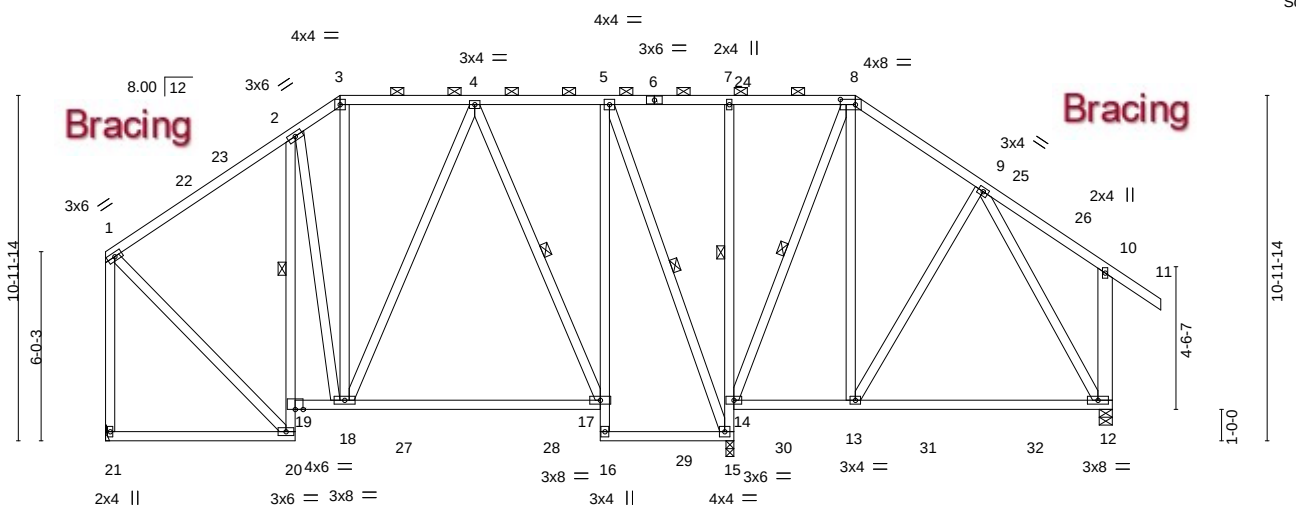
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. |
|---|---|---|---|---|---|
| 2646866 | T14 | Piggyback Base | 1 | 1 | T22870170 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Feb 16 14:02:21 2021 Page 1
ID:n8Nart0mCbqXECiETAXjupzc3k9-2zhPgbrLWXWnJHy3BhDhh2HFUyCEkjO1Nb0bvHzkY2m

| 6-0-6 | 7-5-8 | 11-8-15 | 15-8-14 | 19-10-6 | 23-10-4 | 27-9-9 | 32-0-6 | 33-6-14 |
|---|---|---|---|---|---|---|---|---|
| 6-0-6 | 1-5-2 | 4-3-7 | 3-11-15 | 4-1-8 | 3-11-14 | 3-11-5 | 4-2-13 | 1-6-8 |

Scale = 1:73.3




| 6-0-6 | 7-5-8 | 15-8-14 | 19-11-14 | 23-10-4 | 32-0-6 |
|---|---|---|---|---|---|
| 6-0-6 | 1-5-2 | 8-3-6 | 4-3-0 | 3-10-6 | 8-2-2 |

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.42 | Vert(LL) | -0.23 | 17-18 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.80 | Vert(CT) | -0.37 | 17-18 | >637 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.56 | Horz(CT) | 0.11 | 15 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2020/TPI2014 | Matrix-MS | | | | | | | Weight: 303 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 *Except* |
| | 2-20,5-16,7-15: 2x4 SP No.3 |
| WEBS | 2x4 SP No.3 *Except* |
| | 10-12: 2x6 SP No.2 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-8. |
| BOT CHORD | Rigid ceiling directly applied or 5-9-2 oc bracing. Except: |
| | 1 Row at midpt 2-19, 7-14 |
| WEBS | 1 Row at midpt 4-17, 5-15, 8-14 |

**REACTIONS.** (size) 21=Mechanical, 15=0-3-0, 12=0-5-0
Max Horz 21=227(LC 11)
Max Uplift 21=-160(LC 12), 15=-374(LC 9), 12=-165(LC 13)
Max Grav 21=722(LC 25), 15=1600(LC 2), 12=595(LC 20)

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

| | |
|---|---|
| TOP CHORD | 1-2=-446/172, 2-3=-490/243, 3-4=-361/187, 4-5=-240/254, 5-7=-167/267, 7-8=-166/267, 8-9=-254/253, 1-21=-635/215, 10-12=-256/122 |
| BOT CHORD | 2-19=-441/61, 18-19=-154/390, 17-18=-121/297, 5-17=-140/658, 14-15=-764/154 |
| WEBS | 2-18=-104/262, 4-18=-55/275, 4-17=-403/186, 5-15=-850/254, 8-14=-561/37, 8-13=-50/400, 1-20=-118/447 |

**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) 0-1-12 to 3-4-3, Interior(1) 3-4-3 to 7-5-8, Exterior(2R) 7-5-8 to 11-8-15, Interior(1) 11-8-15 to 23-10-4, Exterior(2R) 23-10-4 to 28-4-10, Interior(1) 28-4-10 to 33-6-14 zone; end vertical right exposed;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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 21=160, 15=374, 12=165.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021




MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. |
|---|---|---|---|---|---|
| 2646866 | T15 | Piggyback Base Girder | 1 | 2 | T22870171 |
| | | | | | Job Reference (optional) |

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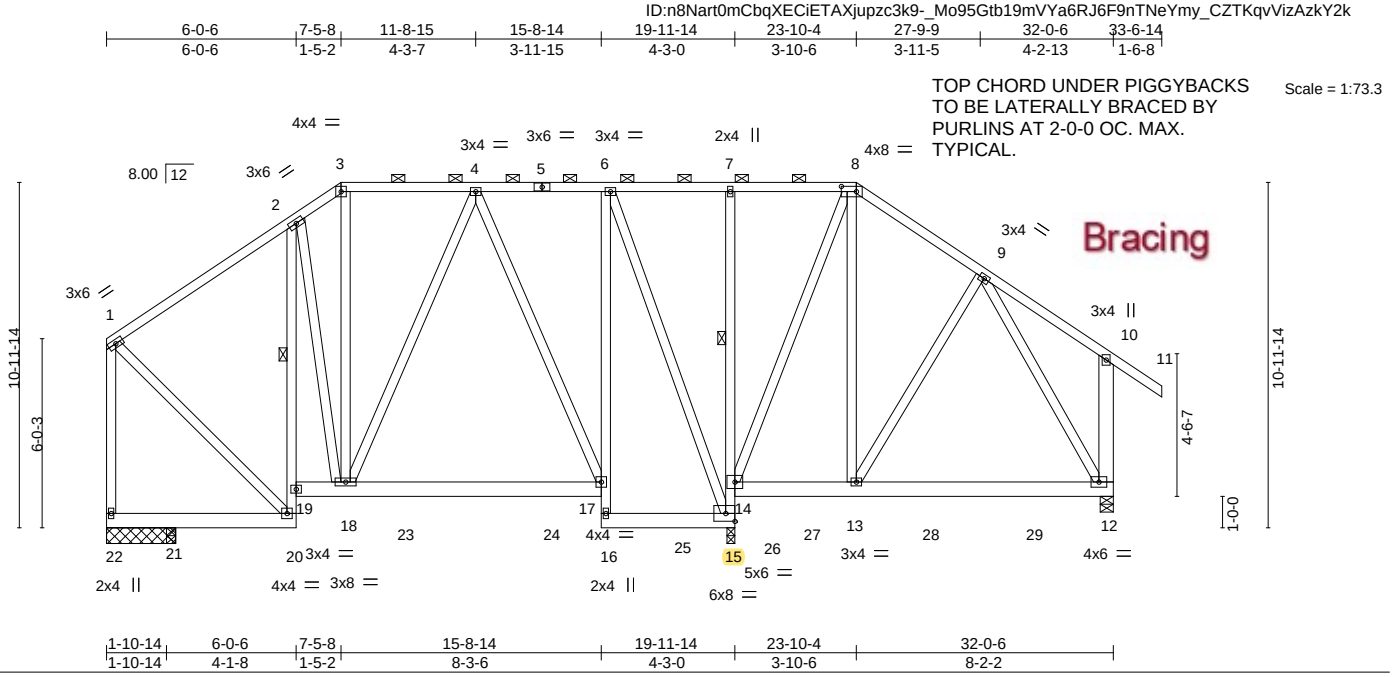


Plate Offsets (X,Y)-- [8:0-5-12,0-2-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.25 | Vert(LL) | -0.06 | 12-13 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.46 | Vert(CT) | -0.12 | 12-13 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.78 | Horz(CT) | 0.03 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-MS | | | | | | | Weight: 654 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
2-20,6-16,7-15: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
10-12: 2x6 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 19-20
5-8-5 oc bracing: 14-15.
1 Row at midpt 2-19, 7-14

**REACTIONS.** All bearings 2-2-6 except (jt=length) 15=0-3-0, 12=0-5-0, 21=0-3-8.
(lb) - Max Horz 22=-487(LC 4)
Max Uplift All uplift 100 lb or less at joint(s) 21 except 22=-310(LC 27), 15=-963(LC 5), 12=-553(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 21 except 22=661(LC 16), 15=4435(LC 2), 12=2113(LC 34)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-473/242, 2-3=-522/343, 3-4=-379/270, 4-6=-346/398, 6-7=-367/456, 7-8=-368/455, 8-9=-1076/556, 9-10=-411/253, 1-22=-668/313, 10-12=-573/219
BOT CHORD 21-22=-420/488, 20-21=-420/488, 19-20=-297/192, 2-19=-471/74, 18-19=-253/350, 17-18=-172/268, 6-17=-83/623, 14-15=-3613/890, 7-14=-496/161, 13-14=-84/572, 12-13=-178/627
WEBS 2-18=-106/313, 3-18=-197/264, 4-18=-173/369, 4-17=-392/221, 6-15=-813/159, 8-14=-1819/331, 8-13=-434/1521, 1-20=-215/490, 9-12=-1078/258

**NOTES-**
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) 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; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
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, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21 except (jt=lb) 22=310, 15=963, 12=553.
10) Girder carries tie-in span(s): 8-0-0 from 20-0-0 to 32-0-6; 8-0-0 from 20-0-0 to 32-0-6
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

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Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021



MiTek
6904 Parke East Blvd.
Tampa, FL 36610

**NOTES-**

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1721 lb down and 477 lb up at 20-2-13 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=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-54, 3-7=-54, 7-8=-165(F=-111), 8-10=-165(F=-111), 10-11=-54, 20-22=-20, 17-19=-20, 15-16=-20, 12-14=-131(F=-111)
   Concentrated Loads (lb)
   Vert: 26=-1535(B)

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. T22870172 |
|---|---|---|---|---|---|
| 2646866 | T16 | Piggyback Base | 2 | 1 | Job Reference (optional) |

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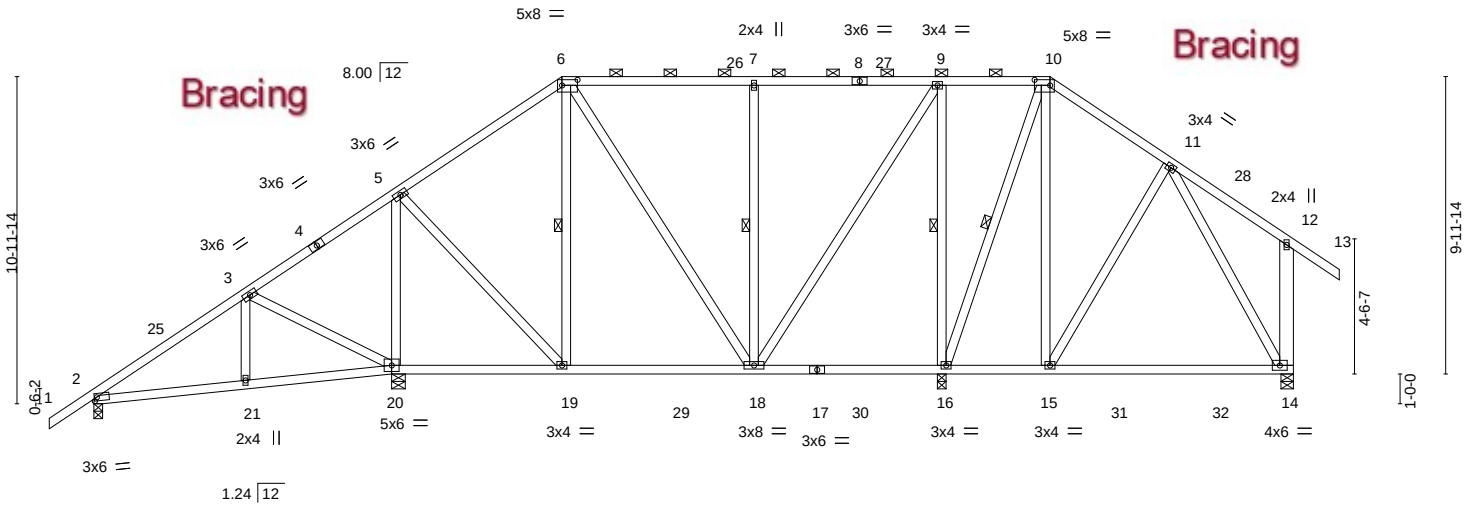
ID:n8Nart0mCbqXECiETAXjupzc3k9-SYMXIcuDoSuMAkhesqmOJhvlAAF6x3cU3ZEGWczkY2j

| 1-6-0 | 5-1-2 | 10-0-0 | 15-8-10 | 22-2-1 | 28-5-12 | 32-1-6 | 36-0-11 | 40-3-8 | 41-10-0 |
|---|---|---|---|---|---|---|---|---|---|
| 1-6-0 | 5-1-2 | 4-10-14 | 5-8-10 | 6-5-7 | 6-3-11 | 3-7-10 | 3-11-5 | 4-2-13 | 1-6-8 |

Scale = 1:77.4




| 5-1-2 | 10-0-0 | 10-2-12 | 15-8-10 | 22-2-1 | 28-5-12 | 32-1-6 | 40-3-8 |
|---|---|---|---|---|---|---|---|
| 5-1-2 | 4-10-14 | 0-2-12 | 5-5-14 | 6-5-7 | 6-3-11 | 3-7-10 | 8-2-2 |

Plate Offsets (X,Y)-- [2:0-0-15,0-1-8], [6:0-6-4,0-2-4], [10:0-6-4,0-2-4]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.45 | Vert(LL) | -0.19 | 14-15 | >726 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.66 | Vert(CT) | -0.31 | 14-15 | >453 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.59 | Horz(CT) | 0.01 | 14 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-MS | | | | | | | Weight: 302 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
12-14: 2x6 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-10.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 19-20,16-18.
WEBS 1 Row at midpt 6-19, 7-18, 9-16, 10-16

**REACTIONS.** All bearings 0-3-8 except (jt=length) 20=0-5-8, 14=0-5-0.
(lb) - Max Horz 2=295(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2 except 20=-269(LC 12), 16=-222(LC 9), 14=-121(LC 13)
Max Grav All reactions 250 lb or less at joint(s) except 2=431(LC 20), 20=1291(LC 19), 16=1260(LC 2), 14=621(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-453/76, 5-6=-435/176, 6-7=-342/187, 7-9=-342/187, 10-11=-279/163, 12-14=-256/128
BOT CHORD 2-21=-161/421, 20-21=-160/418, 18-19=-134/326
WEBS 3-20=-462/175, 5-20=-869/205, 5-19=-58/511, 7-18=-385/189, 9-18=-168/611, 9-16=-745/282, 10-16=-381/81, 10-15=-74/349, 11-14=-271/32

**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) -1-6-0 to 2-6-6, Interior(1) 2-6-6 to 15-8-10, Exterior(2R) 15-8-10 to 21-5-0, Interior(1) 21-5-0 to 32-1-6, Exterior(2R) 32-1-6 to 37-9-12, Interior(1) 37-9-12 to 41-10-0 zone; end vertical right exposed;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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 20=269, 16=222, 14=121.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021



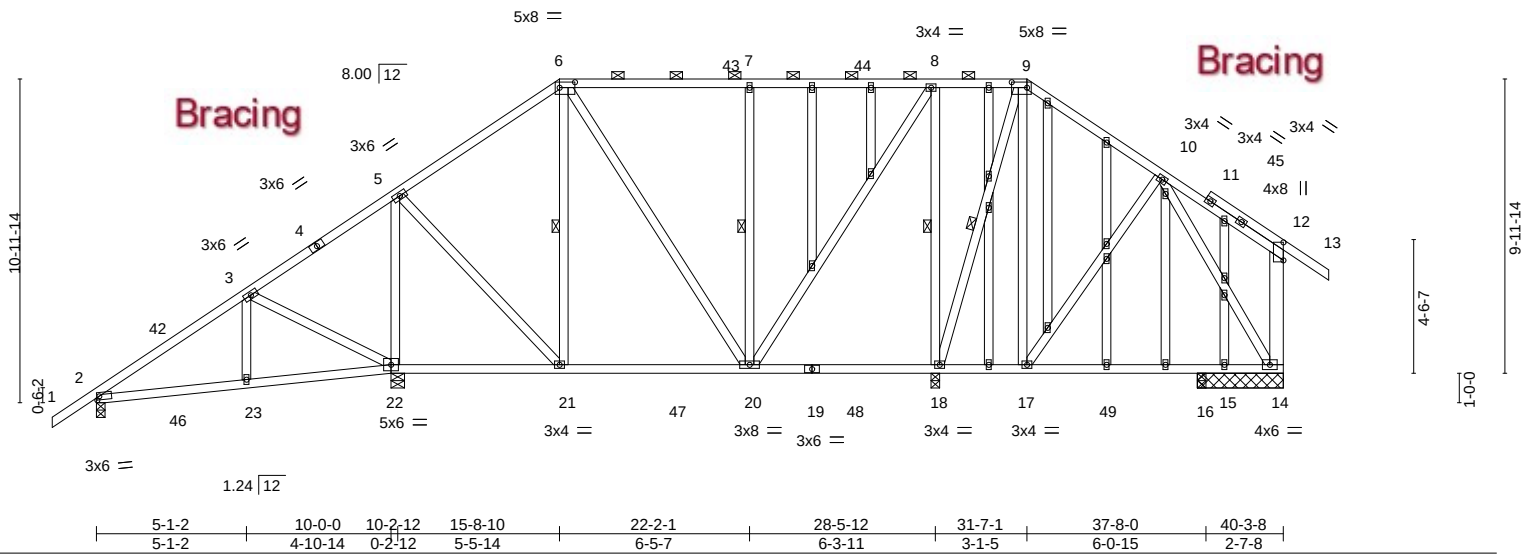

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. T22870173 |
|---|---|---|---|---|---|
| 2646866 | T16G | GABLE | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Feb 16 14:02:26 2021 Page 1
ID:n8Nart0mCbqXECiETAXjupzc3k9-OxUIjlvUK484P2r0_FpsO6?5ez?dPzBnXsjMaVzkY2h

| 1-6-0 | 5-1-2 | 10-0-0 | 15-8-10 | 22-2-1 | 28-5-12 | 31-7-1 | 36-0-11 | 40-3-8 | 41-10-0 |
|---|---|---|---|---|---|---|---|---|---|
| 1-6-0 | 5-1-2 | 4-10-14 | 5-8-10 | 6-5-7 | 6-3-11 | 3-1-5 | 4-5-10 | 4-2-13 | 1-6-8 |

Scale = 1:78.2




| 5-1-2 | 10-0-0 | 10-2-12 | 15-8-10 | 22-2-1 | 28-5-12 | 31-7-1 | 37-8-0 | 40-3-8 |
|---|---|---|---|---|---|---|---|---|
| 5-1-2 | 4-10-14 | 0-2-12 | 5-5-14 | 6-5-7 | 6-3-11 | 3-1-5 | 6-0-15 | 2-7-8 |

Plate Offsets (X,Y)-- [2:0-0-15,0-1-8], [6:0-6-4,0-2-4], [9:0-6-4,0-2-4], [12:0-7-5,0-0-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.46 | Vert(LL) | -0.05 | 18-20 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.40 | Vert(CT) | -0.08 | 18-20 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.59 | Horz(CT) | -0.01 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2020/TPI2014 | Matrix-MS | | | | | | | Weight: 373 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.3 *Except* 12-14: 2x6 SP No.2 |
| OTHERS | 2x4 SP No.3 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-9. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 21-22,18-20. |
| WEBS | 1 Row at midpt 6-21, 7-20, 8-18, 9-18 |

**REACTIONS.** All bearings 2-11-0 except (jt=length) 2=0-3-8, 22=0-5-8, 18=0-3-8, 16=0-3-8.
(lb) - Max Horz 2=309(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 14 except 12=-106(LC 13), 22=-301(LC 9), 18=-211(LC 9), 15=-224(LC 18)
Max Grav All reactions 250 lb or less at joint(s) 12, 14 except 2=406(LC 25), 22=1236(LC 25), 18=1230(LC 2), 16=461(LC 18)

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

| | |
|---|---|
| TOP CHORD | 2-3=-393/163, 5-6=-426/148, 6-7=-327/170, 7-8=-327/170 |
| BOT CHORD | 2-23=-237/360, 22-23=-227/364, 20-21=-126/325 |
| WEBS | 3-22=-394/220, 5-22=-860/205, 5-21=-71/505, 7-20=-387/190, 8-20=-163/617, 8-18=-741/274, 9-18=-310/104, 10-14=-262/49 |

**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) -1-6-0 to 2-6-6, Interior(1) 2-6-6 to 15-8-10, Exterior(2R) 15-8-10 to 21-5-0, Interior(1) 21-5-0 to 31-7-1, Exterior(2R) 31-7-1 to 37-3-7, Interior(1) 37-3-7 to 41-10-0 zone; end vertical right exposed; porch left 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) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) 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.
9) * 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.
10) Bearing at joint(s) 12, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14 except (jt=lb) 12=106, 22=301, 18=211, 15=224.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021




MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. T22870174 |
|---|---|---|---|---|---|
| 2646866 | T17 | Piggyback Base | 4 | 1 | Job Reference (optional) |

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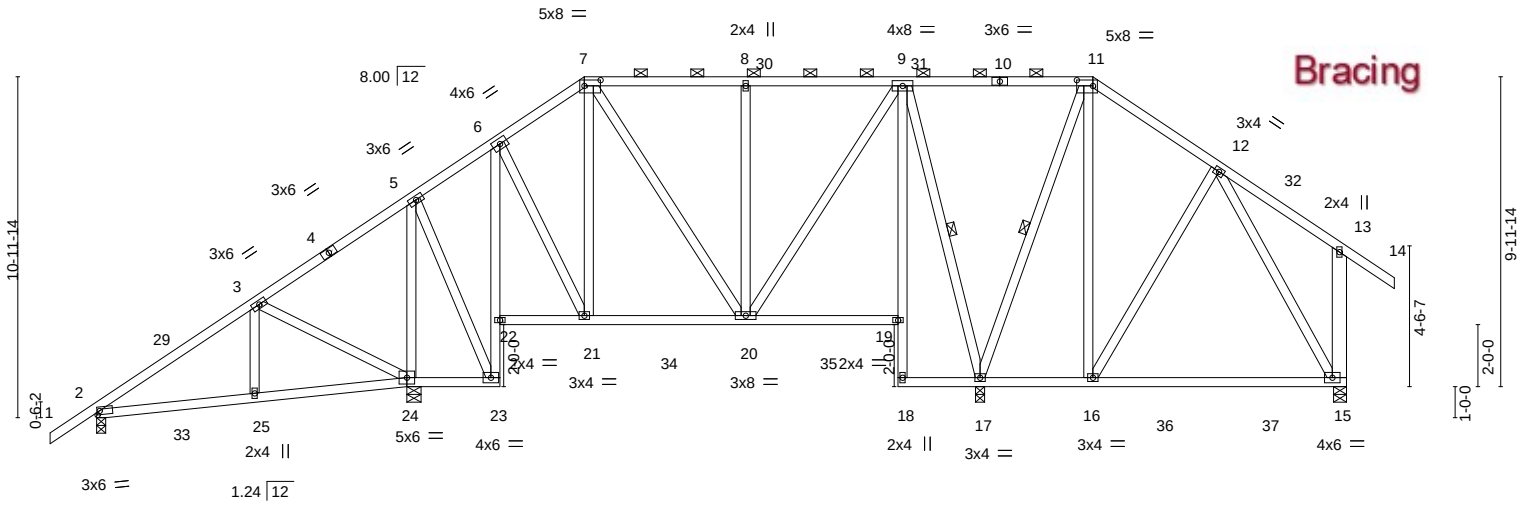
ID:n8Nart0mCbqXECiETAXjupzc3k9-LJc28_xkshPoeM?P5frKUX4SeneStsI3_ACTfNzkY2f

-1-6-0 1-6-0 | 5-1-2 5-1-2 | 10-0-0 4-10-14 | 13-0-0 3-0-0 | 15-8-10 2-8-10 | 20-11-1 5-2-7 | 25-10-0 4-10-15 | 32-1-6 6-3-6 | 36-0-11 3-11-5 | 40-3-8 4-2-13 | 41-10-0 1-6-8

Scale = 1:74.3




5-1-2 5-1-2 | 10-0-0 4-10-14 | 10-2-12 0-2-12 | 13-0-0 2-9-4 | 15-8-10 2-8-10 | 20-11-1 5-2-7 | 25-10-0 4-10-15 | 28-5-12 2-7-12 | 32-1-6 3-7-10 | 40-3-8 8-2-2

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.42 | Vert(LL) | -0.18 | 15-16 | >753 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.64 | Vert(CT) | -0.30 | 15-16 | >468 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.68 | Horz(CT) | 0.04 | 15 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-MS | | | | | | | Weight: 322 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 6-23,9-18: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except* 13-15: 2x6 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-11.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 9-17, 11-17

**REACTIONS.** All bearings 0-3-8 except (jt=length) 24=0-5-8, 15=0-5-0.
(lb) - Max Horz 2=312(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-155(LC 8), 24=-358(LC 9), 17=-307(LC 9), 15=-164(LC 13)
Max Grav All reactions 250 lb or less at joint(s) except 2=359(LC 20), 24=1317(LC 19), 17=1453(LC 2), 15=552(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-362/337, 3-5=-269/498, 5-6=-244/261, 6-7=-344/272, 7-8=-298/285, 8-9=-298/285, 9-11=-166/273, 11-12=-238/264, 13-15=-257/130
BOT CHORD 22-23=-516/134, 6-22=-493/144
WEBS 3-24=-430/234, 5-24=-1007/254, 5-23=-139/623, 6-21=-89/337, 8-20=-283/138, 9-20=-119/457, 9-17=-822/243, 11-17=-650/78, 11-16=-49/405

**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) -1-6-0 to 2-6-6, Interior(1) 2-6-6 to 15-8-10, Exterior(2R) 15-8-10 to 21-5-0, Interior(1) 21-5-0 to 32-1-6, Exterior(2R) 32-1-6 to 37-9-12, Interior(1) 37-9-12 to 41-10-0 zone; end vertical right exposed; porch left exposed;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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 155 lb uplift at joint 2, 358 lb uplift at joint 24, 307 lb uplift at joint 17 and 164 lb uplift at joint 15.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021




MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. |
|---|---|---|---|---|---|
| 2646866 | T18 | Piggyback Base Girder | 1 | 2 | T22870175 |
| | | | | | Job Reference (optional) |

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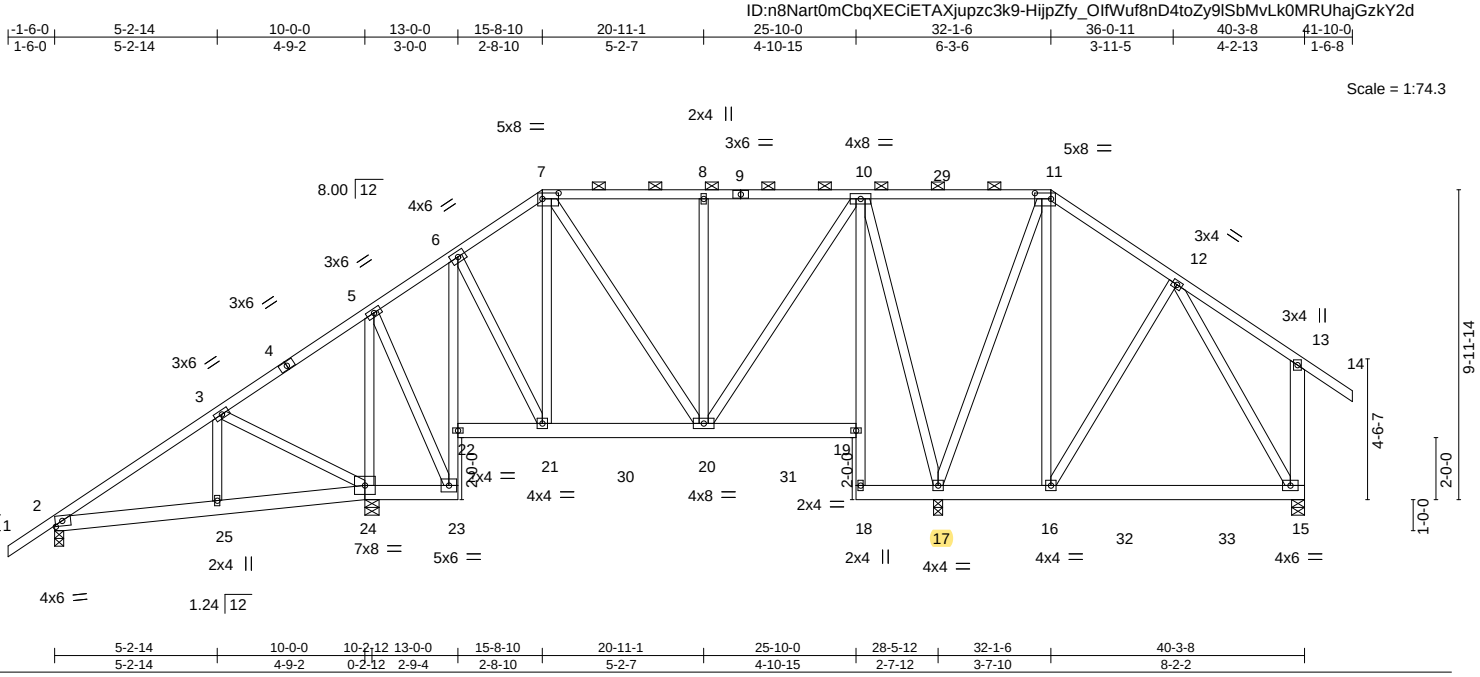


Plate Offsets (X,Y)-- [2:0-2-11,0-2-0], [7:0-6-4,0-2-4], [11:0-6-4,0-2-4]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.53 | Vert(LL) | -0.06 | 15-16 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.45 | Vert(CT) | -0.13 | 15-16 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.79 | Horz(CT) | 0.02 | 15 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-MS | | | | | | | Weight: 704 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
6-23,10-18: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
13-15: 2x6 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-11.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** All bearings 0-3-8 except (jt=length) 24=0-5-8, 15=0-5-0.
(lb) - Max Horz 2=506(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-337(LC 4), 24=-217(LC 5), 17=-889(LC 5), 15=-567(LC 9)
Max Grav All reactions 250 lb or less at joint(s) except 2=454(LC 16), 24=1270(LC 21), 17=3986(LC 2), 15=2014(LC 16)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-519/586, 3-5=-478/604, 5-6=-422/484, 6-7=-455/415, 7-8=-409/437, 8-10=-409/437, 10-11=-353/449, 11-12=-964/556, 12-13=-414/254, 13-15=-578/219
BOT CHORD 22-23=-511/42, 6-22=-486/84, 16-17=-93/463, 15-16=-184/554
WEBS 3-24=-411/172, 5-24=-924/109, 5-23=-34/603, 6-21=-77/335, 10-20=-53/442, 10-17=-889/200, 11-17=-1877/313, 11-16=-381/1392, 12-15=-943/267

**NOTES-**
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) 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; end vertical right exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
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, with BCDL = 10.0psf.
9) 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.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 337 lb uplift at joint 2, 217 lb uplift at joint 24, 889 lb uplift at joint 17 and 567 lb uplift at joint 15.

Continued on page 2

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Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021



MiTek
6904 Parke East Blvd.
Tampa, FL 36610

**NOTES-**

11) Girder carries tie-in span(s): 8-0-0 from 28-6-0 to 40-3-8; 8-0-0 from 28-6-0 to 40-3-8
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1418 lb down and 396 lb up at 28-5-15 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=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-7=-54, 7-29=-54, 11-29=-165(F=-111), 11-13=-165(F=-111), 13-14=-54, 24-26=-20, 23-24=-20, 19-22=-20, 17-18=-20, 15-17=-131(F=-111)
   Concentrated Loads (lb)
   Vert: 17=-1276(F)

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. T22870176 |
|---|---|---|---|---|---|
| 2646866 | T19 | Piggyback Base | 3 | 1 | Job Reference (optional) |

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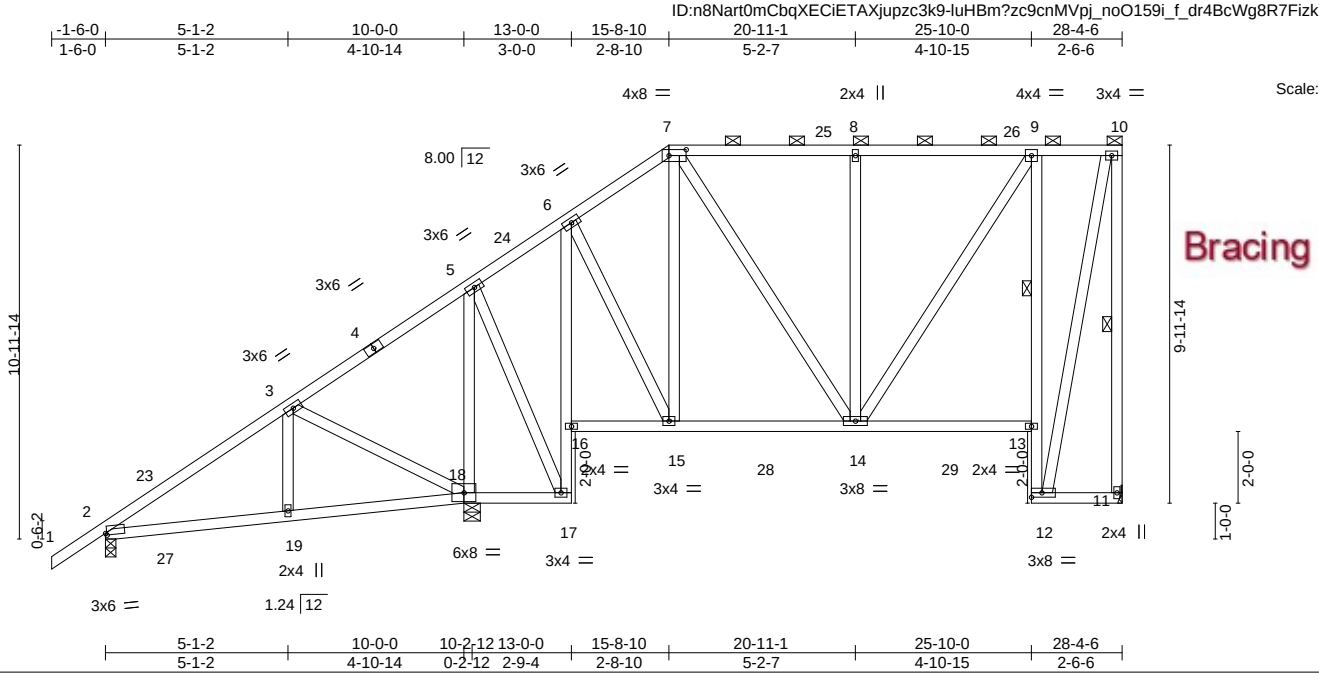


Plate Offsets (X,Y)-- [2:0-0-7,0-0-10], [7:0-5-12,0-2-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.31 | Vert(LL) | -0.08 | 13-14 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.72 | Vert(CT) | -0.13 | 13-14 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.77 | Horz(CT) | 0.20 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-MS | | | | | | | Weight: 233 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 *Except* 6-17,9-12: 2x4 SP No.3 |
| WEBS | 2x4 SP No.3 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-10. |
| BOT CHORD | Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 1 Row at midpt 9-13 |
| WEBS | 1 Row at midpt 10-11 |

**REACTIONS.** (size) 11=Mechanical, 2=0-3-8, 18=0-5-8
Max Horz 2=391(LC 12)
Max Uplift 11=-156(LC 9), 18=-425(LC 12)
Max Grav 11=647(LC 2), 2=273(LC 1), 18=1458(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-290/481, 6-7=-300/44, 7-8=-357/86, 8-9=-357/86, 10-11=-675/177
BOT CHORD 17-18=-307/56, 16-17=-659/146, 6-16=-625/153, 12-13=-492/142, 9-13=-436/163
WEBS 3-18=-429/259, 5-18=-1122/348, 5-17=-149/767, 6-15=-95/448, 7-15=-263/110, 7-14=-83/259, 8-14=-319/152, 9-14=-85/362, 10-12=-156/619

**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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 15-8-10, Exterior(2R) 15-8-10 to 19-11-9, Interior(1) 19-11-9 to 28-2-10 zone; porch left exposed;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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) 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.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 156 lb uplift at joint 11 and 425 lb uplift at joint 18.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021



MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. T22870177 |
|---|---|---|---|---|---|
| 2646866 | T20 | Piggyback Base | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Feb 16 14:02:32 2021 Page 1
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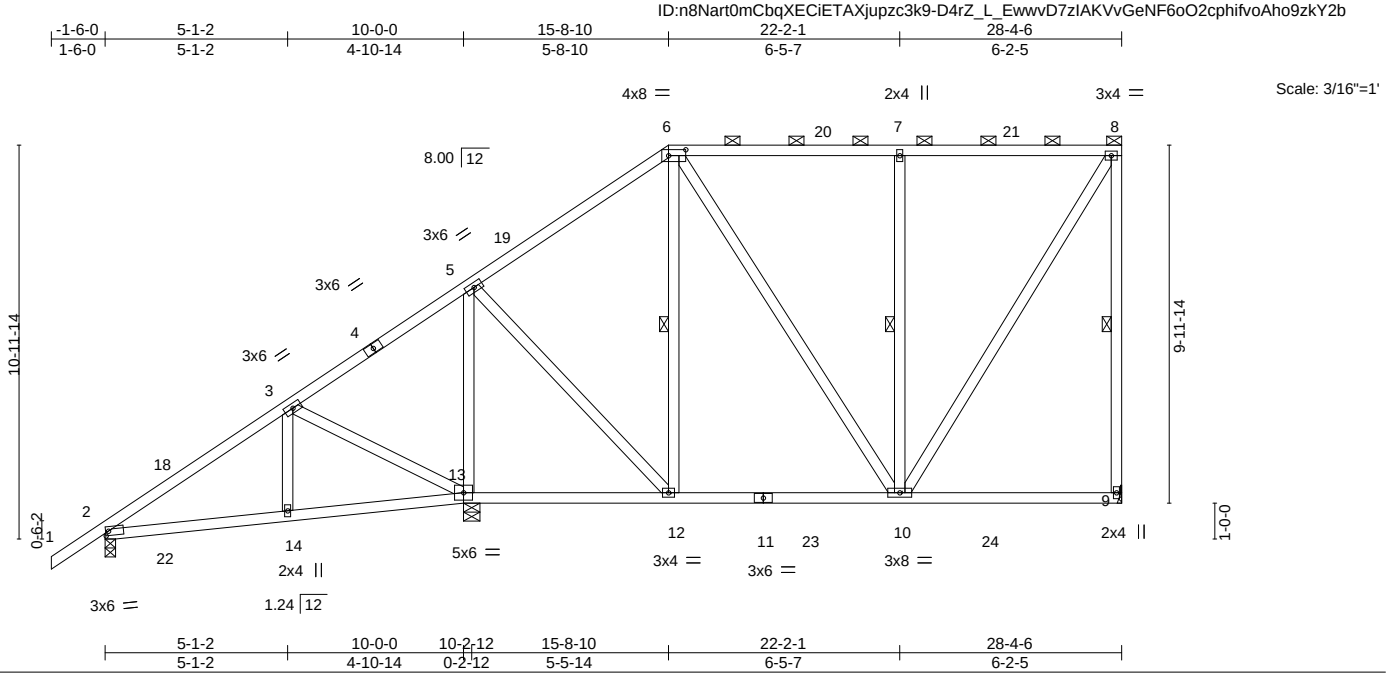


Plate Offsets (X,Y)-- [2:0-0-15,0-1-8], [6:0-5-12,0-2-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.48 | Vert(LL) | -0.06 | 9-10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.43 | Vert(CT) | -0.10 | 9-10 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.59 | Horz(CT) | -0.01 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-MS | | | | | | | Weight: 200 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

**REACTIONS.** (size) 9=Mechanical, 2=0-3-8, 13=0-5-8
Max Horz 2=391(LC 12)
Max Uplift 9=-187(LC 9), 2=-37(LC 9), 13=-305(LC 12)
Max Grav 9=762(LC 2), 2=412(LC 1), 13=1233(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-395/68, 5-6=-433/69, 6-7=-338/88, 7-8=-338/88, 8-9=-639/201
BOT CHORD 2-14=-289/318, 13-14=-271/323, 10-12=-88/298
WEBS 3-13=-393/241, 5-13=-856/226, 5-12=-65/501, 7-10=-399/196, 8-10=-163/626

**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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 15-8-10, Exterior(2R) 15-8-10 to 19-11-9, Interior(1) 19-11-9 to 28-2-10 zone; porch left exposed;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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) 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.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 187 lb uplift at joint 9, 37 lb uplift at joint 2 and 305 lb uplift at joint 13.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021



MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. |
|---|---|---|---|---|---|
| 2646866 | T21 | Piggyback Base | 3 | 1 | T22870178 |
| | | | | | Job Reference (optional) |

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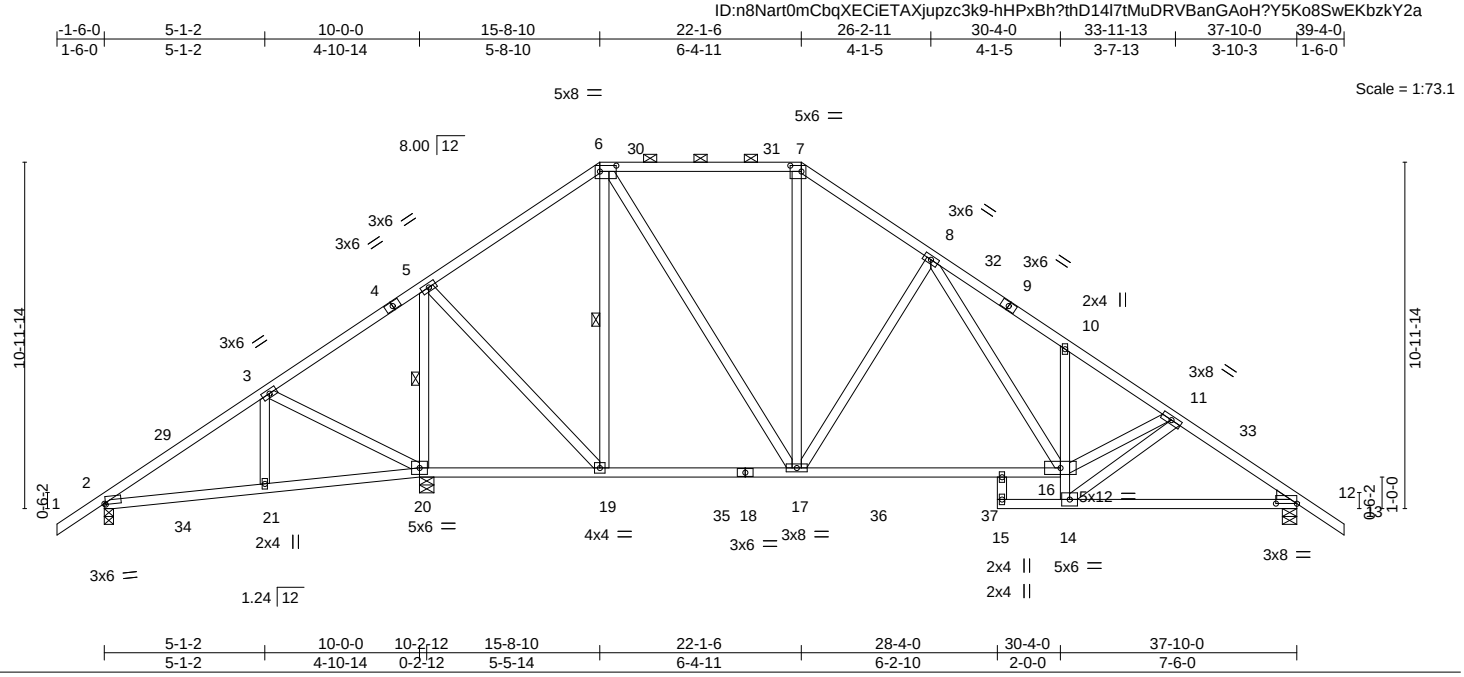


Plate Offsets (X,Y)-- [2:0-0-7,0-0-6], [6:0-6-4,0-2-4], [7:0-4-4,0-2-4], [12:0-8-0,0-0-1]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.56 | Vert(LL) | -0.26 | 16-17 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.87 | Vert(CT) | -0.46 | 16-17 | >723 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.82 | Horz(CT) | 0.07 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-MS | | | | | | | Weight: 252 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
10-14: 2x4 SP No.3
WEBS 2x4 SP No.3
WEDGE
Right: 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-2-1 oc purlins, except 2-0-0 oc purlins (5-10-1 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 10-0-0 oc bracing: 14-16
WEBS 1 Row at midpt 5-20, 6-19

**REACTIONS.** (size) 2=0-3-8, 20=0-5-8, 12=0-5-8
Max Horz 2=270(LC 11)
Max Uplift 2=-70(LC 8), 20=-299(LC 12), 12=-243(LC 13)
Max Grav 2=324(LC 23), 20=1902(LC 2), 12=1238(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-47/560, 5-6=-546/198, 6-7=-746/254, 7-8=-938/263, 8-10=-1952/426, 10-11=-1874/319, 11-12=-1684/318
BOT CHORD 2-21=-276/179, 20-21=-269/179, 19-20=-436/232, 17-19=-74/484, 16-17=-26/1028, 14-16=-89/1171, 12-14=-177/1335
WEBS 3-20=-413/220, 5-20=-1540/239, 5-19=-94/1075, 6-19=-553/106, 6-17=-124/699, 7-17=-60/311, 8-17=-654/249, 8-16=-211/1030, 11-16=-97/1555, 11-14=-1568/202

**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) -1-6-0 to 2-3-6, Interior(1) 2-3-6 to 15-8-10, Exterior(2R) 15-8-10 to 21-0-14, Interior(1) 21-0-14 to 22-1-6, Exterior(2R) 22-1-6 to 27-5-9, Interior(1) 27-5-9 to 39-4-0 zone; porch left exposed;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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 70 lb uplift at joint 2, 299 lb uplift at joint 20 and 243 lb uplift at joint 12.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021



MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. T22870179 |
|---|---|---|---|---|---|
| 2646866 | T22 | Monopitch | 15 | 1 | Job Reference (optional) |

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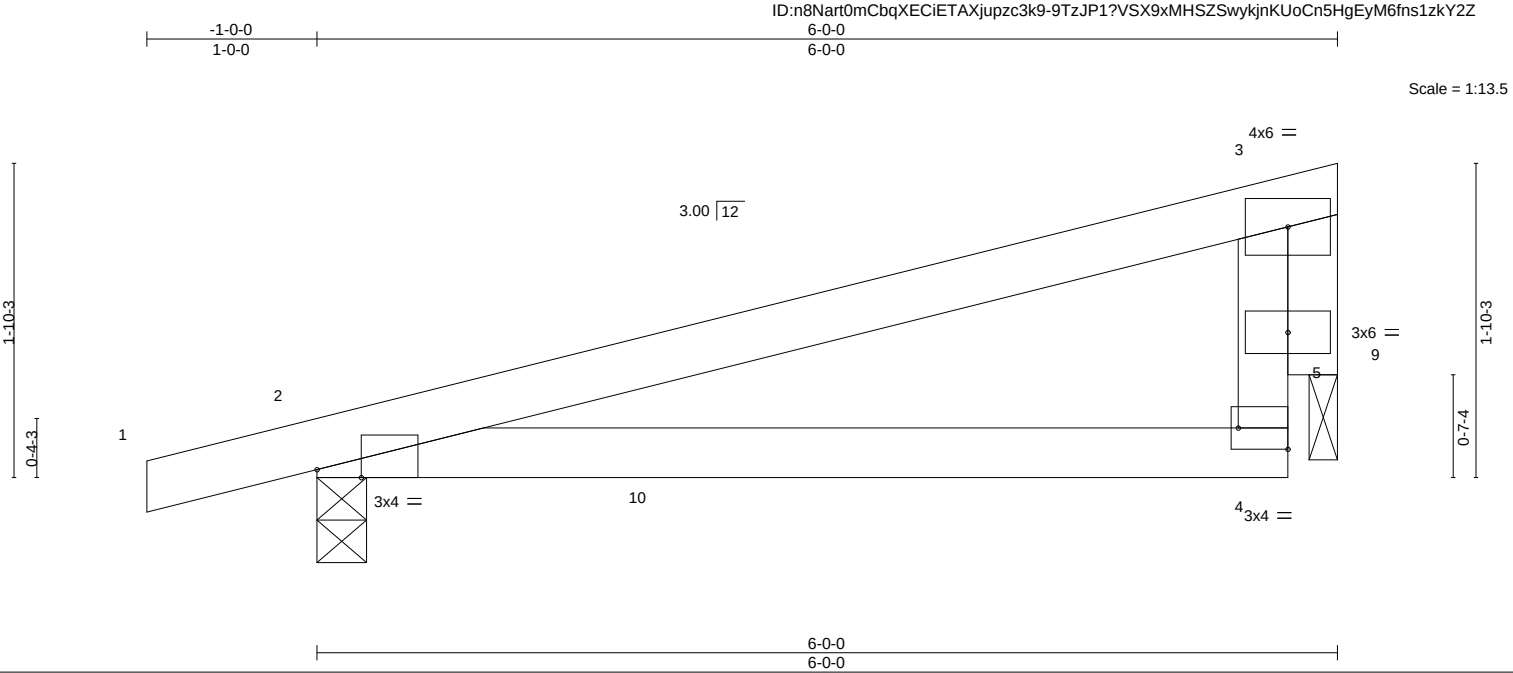


Plate Offsets (X,Y)-- [2:0-3-2,Edge], [4:Edge,0-1-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.38 | Vert(LL) | 0.05 | 4-8 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.24 | Vert(CT) | -0.04 | 4-8 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.27 | Horz(CT) | -0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-MR | | | | | | | Weight: 22 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.3 |
| OTHERS | 2x4 SP No.3 |

**BRACING-**

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

**REACTIONS.** (size) 2=0-3-8, 9=0-2-0
Max Horz 2=59(LC 8)
Max Uplift 2=-142(LC 8), 9=-98(LC 8)
Max Grav 2=277(LC 1), 9=189(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 2-4=-277/212

**NOTES-**

1) 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) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 5-6-12 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
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 142 lb uplift at joint 2 and 98 lb uplift at joint 9.

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Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021




MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. |
|---|---|---|---|---|---|
| 2646866 | T22G | Monopitch Supported Gable | 2 | 1 | T22870180 |
| | | | | | Job Reference (optional) |

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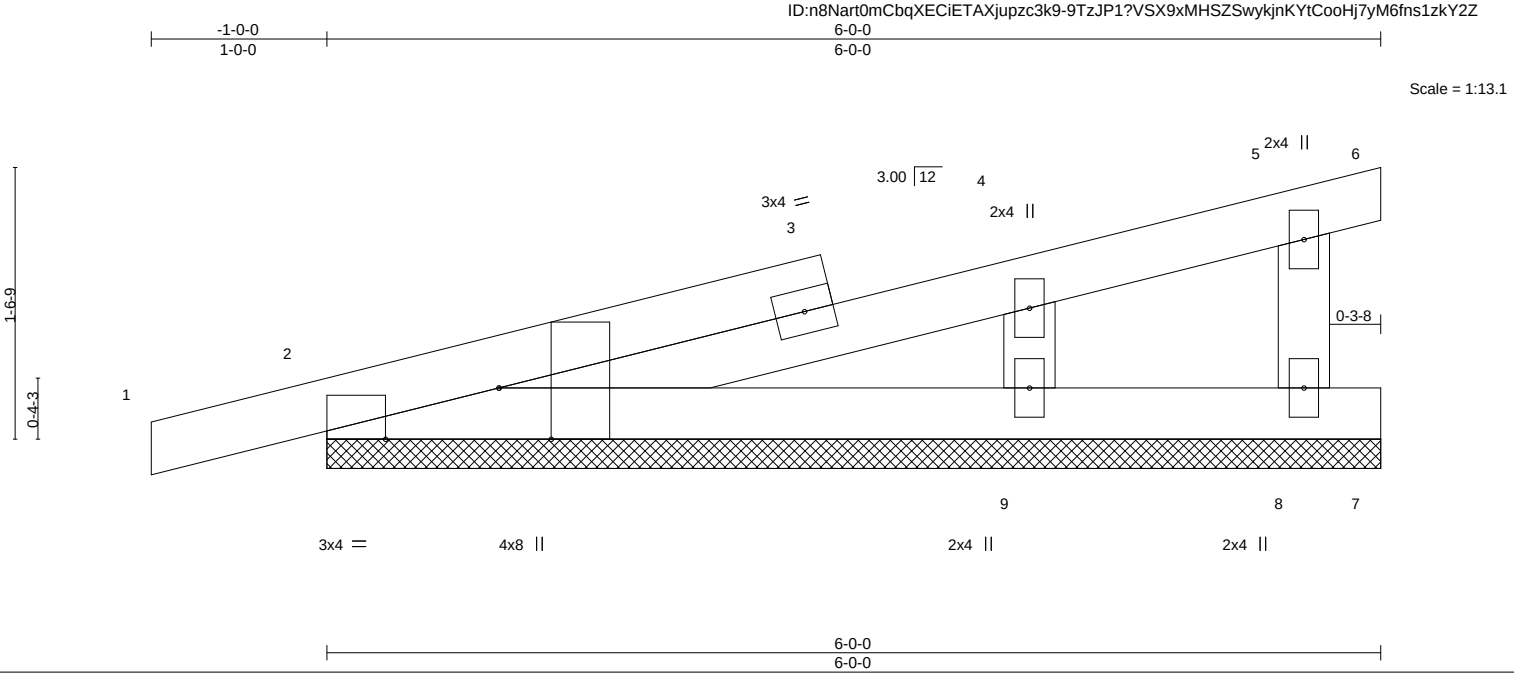


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [2:0-7-12,Edge]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.12 | Vert(LL) | -0.00 | 1 | n/r | 120 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.13 | Vert(CT) | 0.00 | 1 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.08 | Horz(CT) | -0.00 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-P | | | | | | | Weight: 25 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.3 |
| OTHERS | 2x4 SP No.3 |

**BRACING-**

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

**REACTIONS.** All bearings 6-0-0.
(lb) - Max Horz 2=52(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 8, 9
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 7 except 9=275(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-9=-187/272

**NOTES-**

1) 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) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 6-0-0 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
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) 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) Gable requires continuous bottom chord bearing.
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) 6 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) 2, 6, 8, 9.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.

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6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021



MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. |
|---|---|---|---|---|---|
| 2646866 | TG01 | Piggyback Base Girder | 1 | 2 | T22870181<br>Job Reference (optional) |

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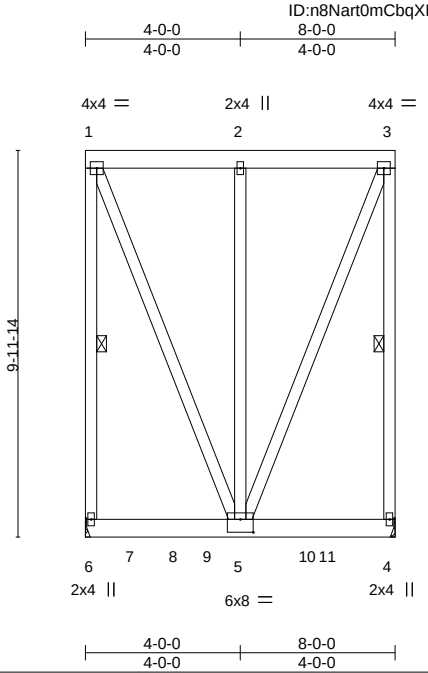


Bracing

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.15 | Vert(LL) | -0.02 | 5-6 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.32 | Vert(CT) | -0.03 | 5-6 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.21 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-MS | | | | | | | Weight: 214 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-6, 3-4

**REACTIONS.** (size) 6=Mechanical, 4=Mechanical
Max Uplift 6=-457(LC 4), 4=-376(LC 4)
Max Grav 6=1756(LC 2), 4=1453(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-1132/317, 1-2=-426/111, 2-3=-426/111, 3-4=-1136/318
WEBS 1-5=-292/1121, 3-5=-293/1126

**NOTES-**
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) 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; Lumber DOL=1.60 plate grip DOL=1.60
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) Provide adequate drainage to prevent water ponding.
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, with BCDL = 10.0psf.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=457, 4=376.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 712 lb down and 207 lb up at 1-2-6, 611 lb down and 176 lb up at 3-2-6, and 612 lb down and 176 lb up at 4-2-6, and 600 lb down and 176 lb up at 6-2-6 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=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 4-6=-20

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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: February 16,2021

Continued on page 2



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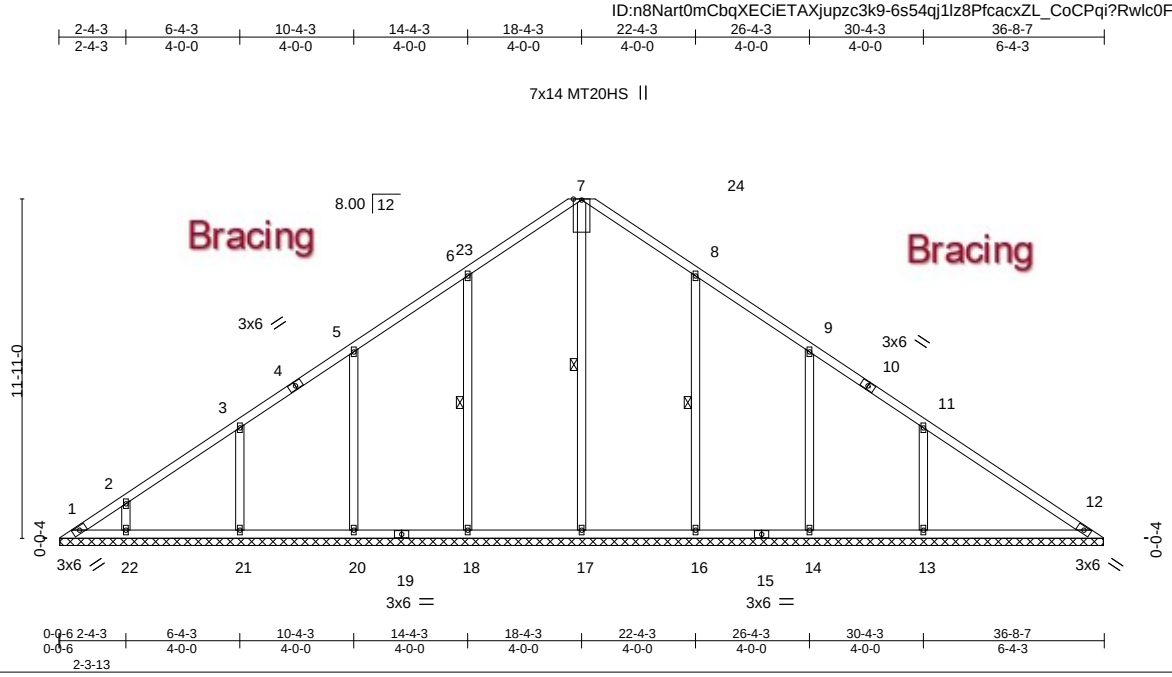
**LOAD CASE(S)** Standard
Concentrated Loads (lb)
Vert: 5=-550(B) 7=-629(B) 9=-550(B) 11=-550(B)

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. |
|---|---|---|---|---|---|
| 2646866 | V01 | Valley | 1 | 1 | T22870182 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Feb 16 14:02:36 2021 Page 1
ID:n8Nart0mCbqXECiETAXjupzc3k9-6s54qj1lz8PfcacxZL_CoCPqi?Rwlc0FqQ8uxwzkY2X




| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.35 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.28 | Vert(CT) | n/a | - | n/a | 999 | MT20HS | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.18 | Horz(CT) | 0.01 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | | | | Weight: 193 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-17, 6-18, 8-16

**REACTIONS.** All bearings 36-7-11.
(lb) - Max Horz 1=-262(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 18=-153(LC 12), 20=-138(LC 12), 21=-146(LC 12), 22=-119(LC 12), 16=-158(LC 13), 14=-113(LC 13), 13=-214(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 12 except 17=410(LC 22), 18=447(LC 19), 20=426(LC 19), 21=413(LC 19), 22=307(LC 19), 16=462(LC 20), 14=362(LC 20), 13=589(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-281/211
WEBS 8-16=-256/182, 11-13=-340/237

**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) 0-5-12 to 4-1-12, Interior(1) 4-1-12 to 18-4-3, Exterior(2R) 18-4-3 to 22-0-3, Interior(1) 22-0-3 to 36-2-10 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) All plates are MT20 plates unless otherwise indicated.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
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, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 18=153, 20=138, 21=146, 22=119, 16=158, 14=113, 13=214.

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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021




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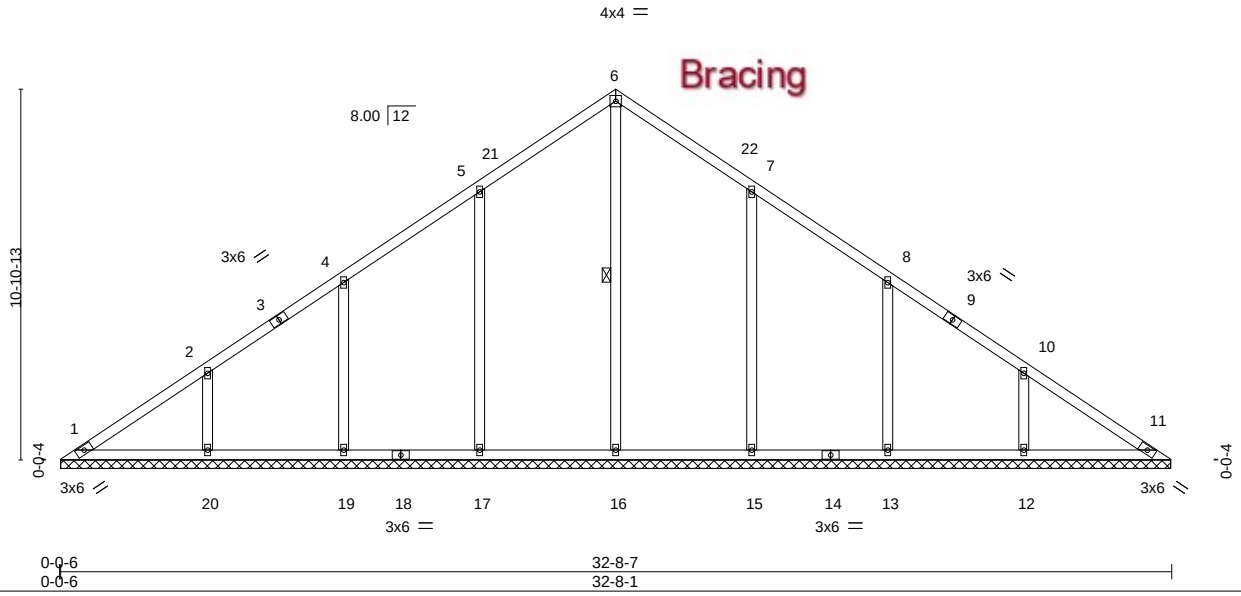
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. T22870183 |
|---|---|---|---|---|---|
| 2646866 | V02 | Valley | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Feb 16 14:02:38 2021 Page 1
ID:n8Nart0mCbqXECiETAXjupzc3k9-2ECqEP2?VmfNrumKhm0gudVDCp95DTkYHkd??ozkY2V

16-4-3 | 32-8-7
16-4-3 | 16-4-3

Scale = 1:67.7




0-0-6 | 32-8-7
0-0-6 | 32-8-1

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.16 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.17 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.30 | Horz(CT) | 0.01 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | | | | Weight: 165 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-16

**REACTIONS.** All bearings 32-7-11.
(lb) - Max Horz 1=-233(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 11 except 17=-154(LC 12), 19=-135(LC 12), 20=-157(LC 12), 15=-153(LC 13), 13=-135(LC 13), 12=-157(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 11 except 16=394(LC 22), 17=454(LC 19), 19=385(LC 19), 20=408(LC 19), 15=454(LC 20), 13=385(LC 20), 12=408(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-20=-252/177, 10-12=-252/177

**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) 0-5-12 to 3-8-15, Interior(1) 3-8-15 to 16-4-3, Exterior(2R) 16-4-3 to 19-7-6, Interior(1) 19-7-6 to 32-2-10 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) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
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, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11 except (jt=lb) 17=154, 19=135, 20=157, 15=153, 13=135, 12=157.

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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021




MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. T22870184 |
|---|---|---|---|---|---|
| 2646866 | V03 | Valley | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Feb 16 14:02:39 2021 Page 1
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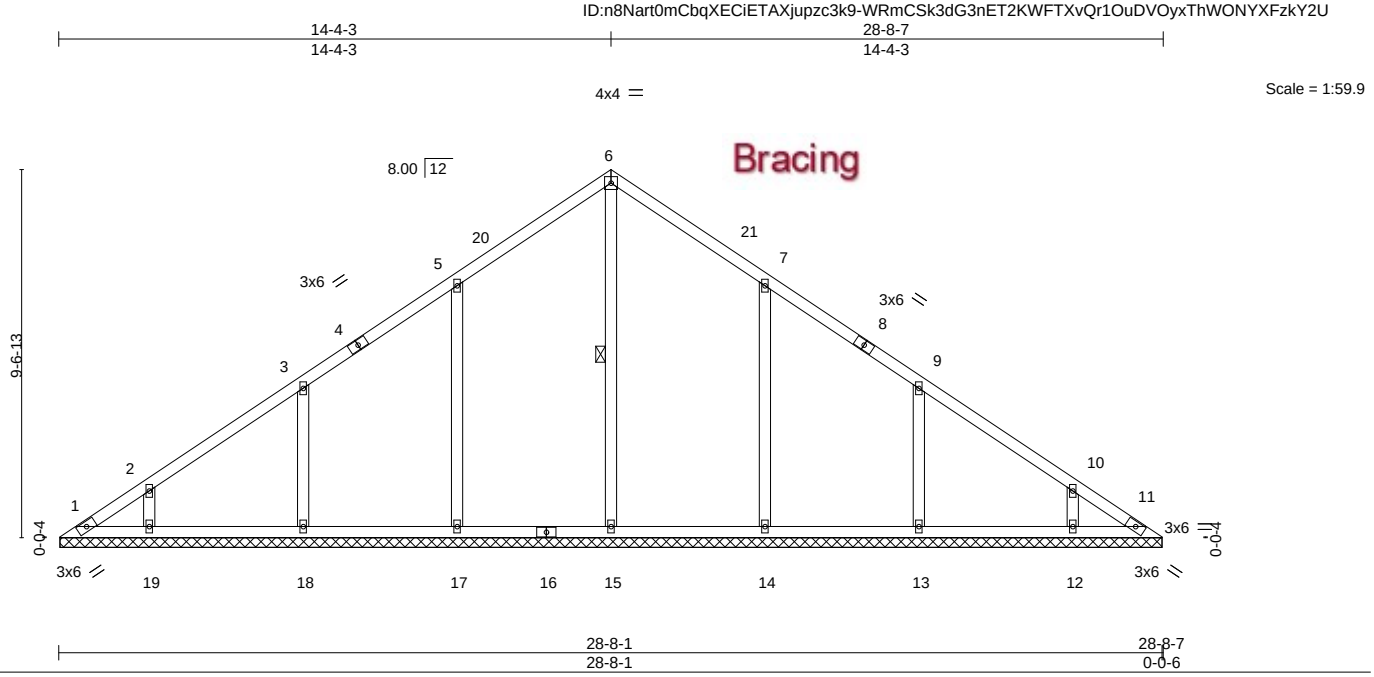


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.17 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.17 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.20 | Horz(CT) | 0.01 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | | | | Weight: 138 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-15

**REACTIONS.** All bearings 28-7-11.
(lb) - Max Horz 1=-204(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 11 except 17=-152(LC 12), 18=-143(LC 12), 19=-120(LC 12), 14=-152(LC 13), 13=-143(LC 13), 12=-120(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 11 except 15=380(LC 22), 17=448(LC 19), 18=407(LC 19), 19=309(LC 19), 14=448(LC 20), 13=407(LC 20), 12=309(LC 20)

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

**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) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 14-4-3, Exterior(2R) 14-4-3 to 17-4-3, Interior(1) 17-4-3 to 28-2-10 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) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
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, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11 except (jt=lb) 17=152, 18=143, 19=120, 14=152, 13=143, 12=120.

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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021



MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. |
|---|---|---|---|---|---|
| 2646866 | V04 | GABLE | 1 | 1 | T22870185 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Feb 16 14:02:40 2021 Page 1
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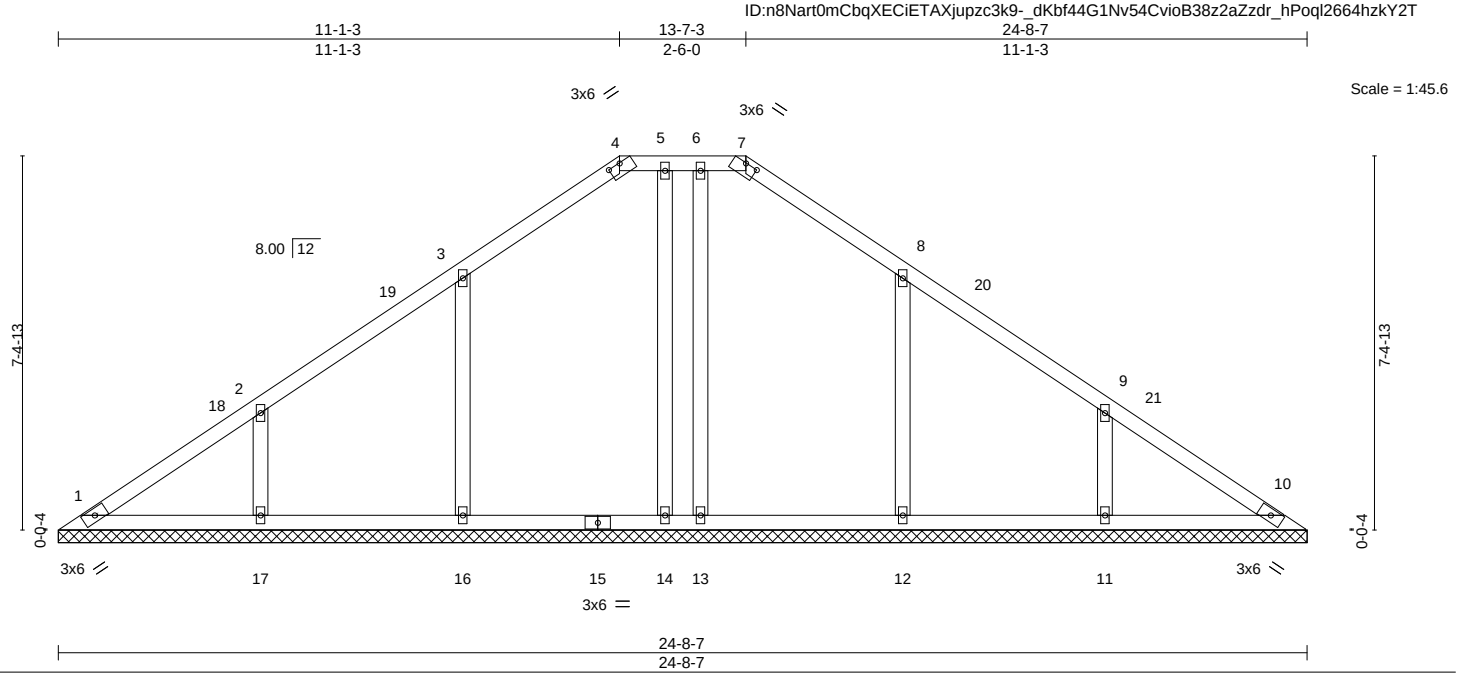


Plate Offsets (X,Y)-- [2:0-0-0,0-0-0], [3:0-0-0,0-0-0], [4:0-3-0,0-0-2], [7:0-3-0,0-0-2]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.14 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.14 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.13 | Horz(CT) | 0.00 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | | | | Weight: 119 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

**REACTIONS.** All bearings 24-8-7.
(lb) - Max Horz 1=-157(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 13, 14 except 11=-151(LC 13), 12=-131(LC 13), 17=-151(LC 12), 16=-133(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 10, 13, 14 except 11=384(LC 20), 12=398(LC 20), 17=383(LC 19), 16=400(LC 19)

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

**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) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 11-1-3, Exterior(2E) 11-1-3 to 13-7-3, Exterior(2R) 13-7-3 to 17-10-2, Interior(1) 17-10-2 to 24-2-10 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) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
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, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 14 except (jt=lb) 11=151, 12=131, 17=151, 16=133.

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6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021




MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. T22870186 |
|---|---|---|---|---|---|
| 2646866 | V05 | GABLE | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Feb 16 14:02:41 2021 Page 1
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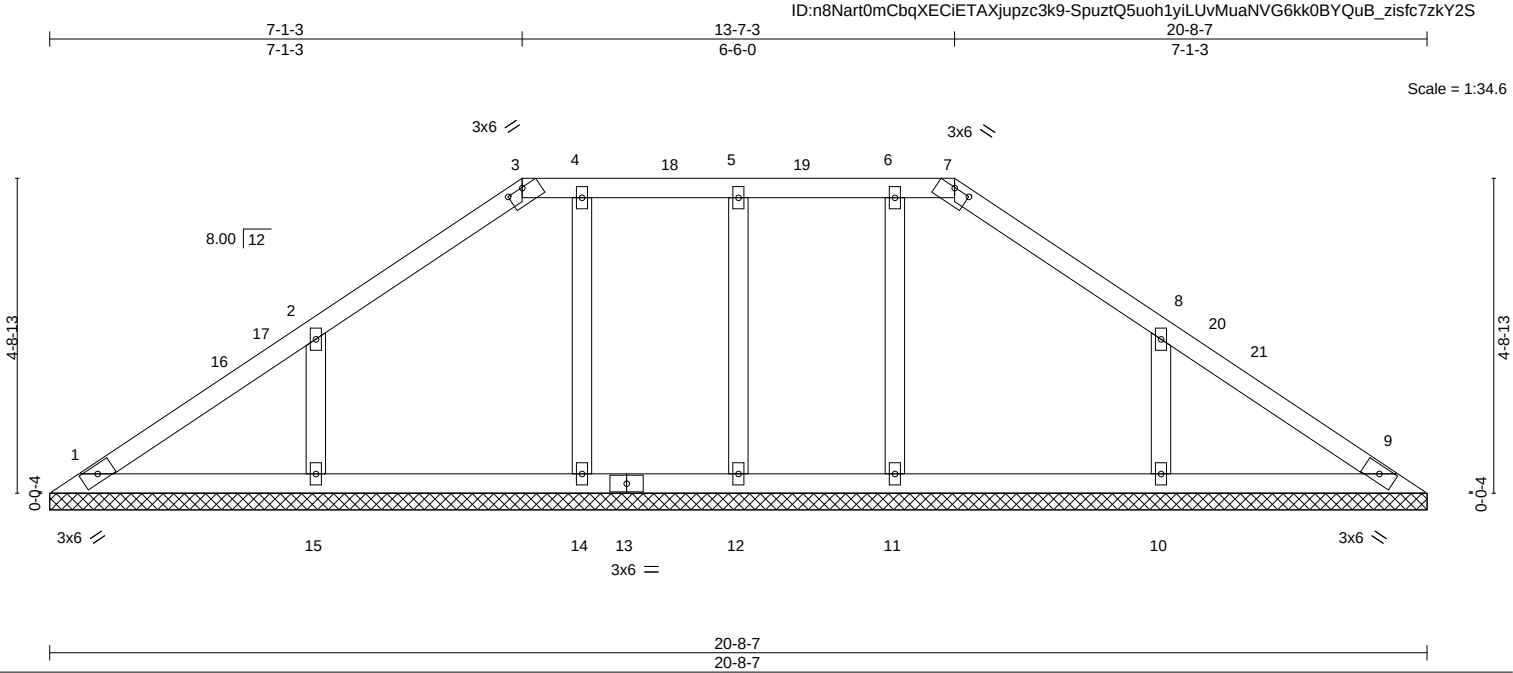


Plate Offsets (X,Y)-- [2:0-0-0,0-0-0], [3:0-3-0,0-0-2], [7:0-3-0,0-0-2]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.14 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.12 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.06 | Horz(CT) | 0.00 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | | | | Weight: 89 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

**REACTIONS.** All bearings 20-8-7.
(lb) - Max Horz 1=-98(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 12, 11, 14 except 10=-143(LC 13), 15=-144(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 12 except 10=389(LC 20), 11=252(LC 26), 15=391(LC 19), 14=252(LC 25)

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

**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) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 7-1-3, Exterior(2R) 7-1-3 to 11-4-2, Interior(1) 11-4-2 to 13-7-3, Exterior(2R) 13-7-3 to 17-10-2, Interior(1) 17-10-2 to 20-2-10 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) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
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, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 12, 11, 14 except (jt=lb) 10=143, 15=144.

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Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021




MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. T22870187 |
|---|---|---|---|---|---|
| 2646866 | V06 | GABLE | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Feb 16 14:02:42 2021 Page 1
ID:n8Nart0mCbqXECiETAXjupzc3k9-w0SL4m6WZ_9pKV35wc5c2TfvcQXC9Lj7CMbC8azkY2R

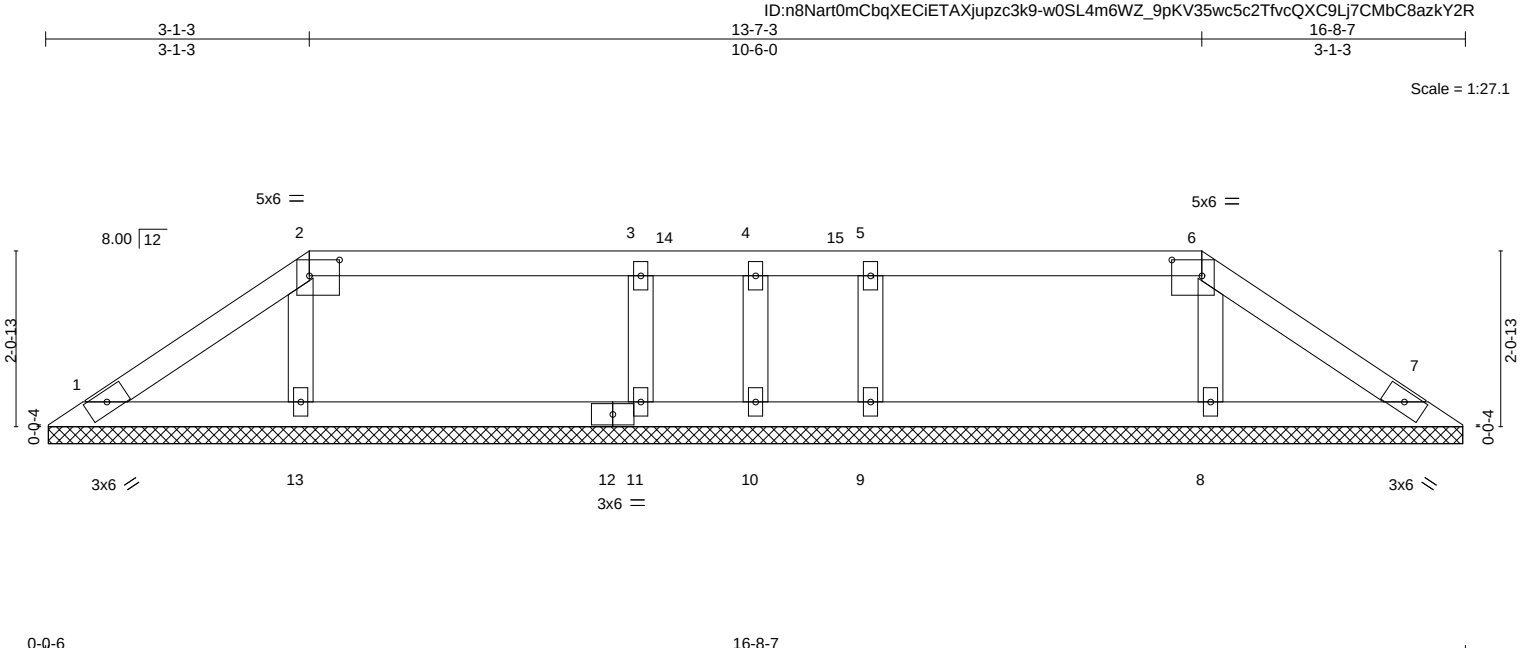


Plate Offsets (X,Y)-- [2:0-4-4,0-2-4], [6:0-4-4,0-2-4]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.13 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.10 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.04 | Horz(CT) | 0.00 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | | | | Weight: 61 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

**REACTIONS.** All bearings 16-7-11.
(lb) - Max Horz 1=-39(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 13, 8, 10, 9, 11
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10 except 13=252(LC 23), 8=252(LC 24), 9=294(LC 23), 11=294(LC 24)

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

**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) 0-5-12 to 3-1-3, Exterior(2R) 3-1-3 to 7-4-2, Interior(1) 7-4-2 to 13-7-3, Exterior(2E) 13-7-3 to 16-2-10 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) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
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.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 13, 8, 10, 9, 11.

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Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021



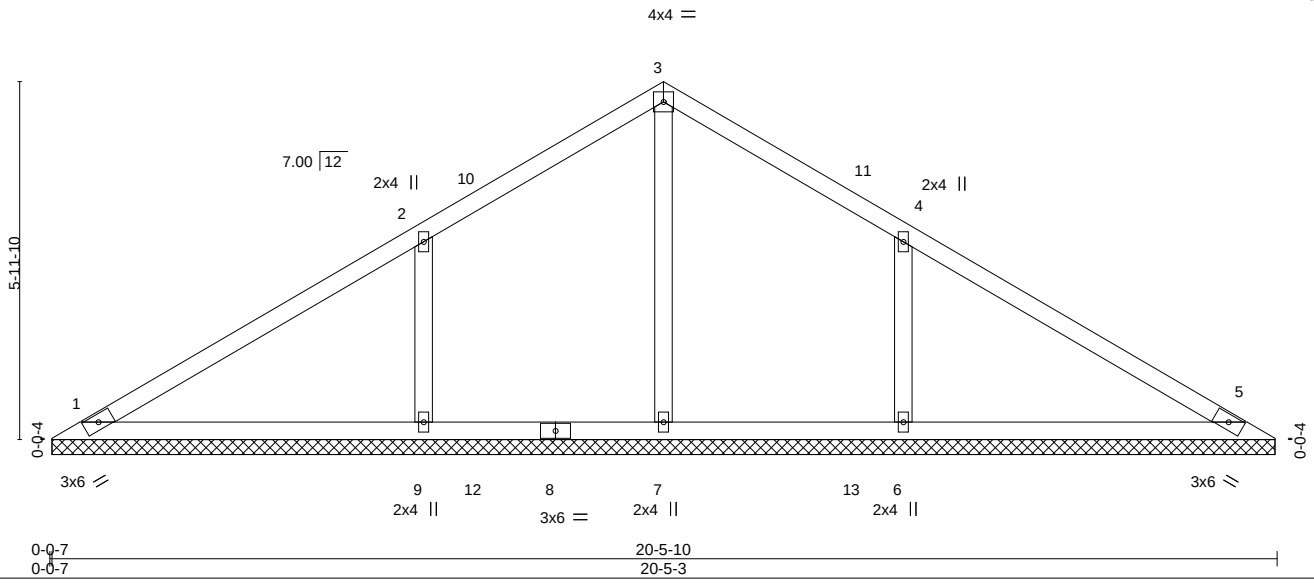
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. T22870188 |
|---|---|---|---|---|---|
| 2646866 | V07 | Valley | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Feb 16 14:02:43 2021 Page 1
ID:n8Nart0mCbqXECiETAXjupzc3k9-OC0jI668KIHgyfeHUJcsbhC1FqqqunHHR0Lmh0zkY2Q

10-2-13 | 20-5-10
10-2-13 | 10-2-13

Scale = 1:38.4




| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.33 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.26 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.08 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | | | | Weight: 81 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

**REACTIONS.** All bearings 20-4-12.
(lb) - Max Horz 1=125(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-196(LC 12), 6=-196(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=281(LC 22), 9=574(LC 19), 6=574(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-339/220, 4-6=-339/220

**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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 10-2-13, Exterior(2R) 10-2-13 to 13-2-13, Interior(1) 13-2-13 to 19-11-2 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) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=196, 6=196.

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Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021




MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. T22870189 |
|---|---|---|---|---|---|
| 2646866 | V08 | Valley | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Feb 16 14:02:44 2021 Page 1
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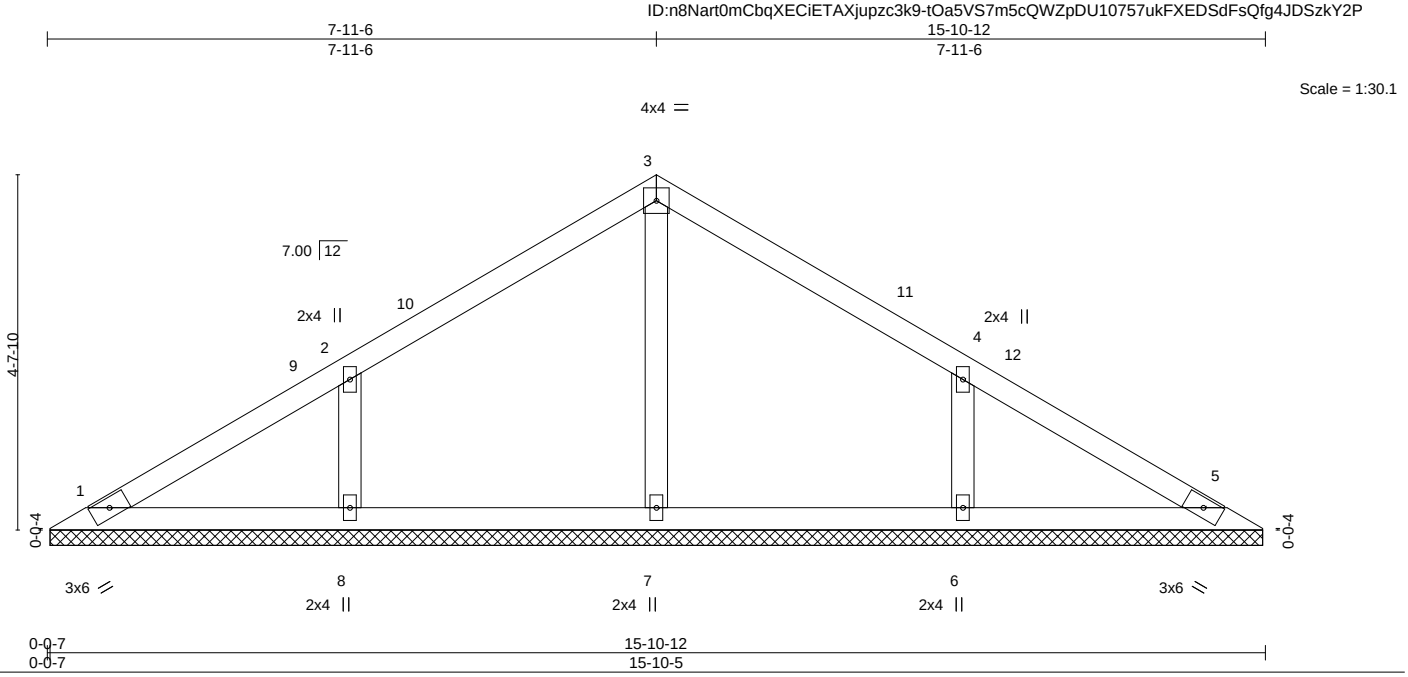


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.17 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.11 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.06 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | | | | Weight: 60 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

**REACTIONS.** All bearings 15-9-15.
(lb) - Max Horz 1=-95(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-143(LC 12), 6=-143(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=333(LC 19), 6=333(LC 20)

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

**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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 7-11-6, Exterior(2R) 7-11-6 to 10-11-6, Interior(1) 10-11-6 to 15-4-4 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) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=143, 6=143.

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Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
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February 16,2021



MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. T22870190 |
|---|---|---|---|---|---|
| 2646866 | V09 | Valley | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Feb 16 14:02:44 2021 Page 1
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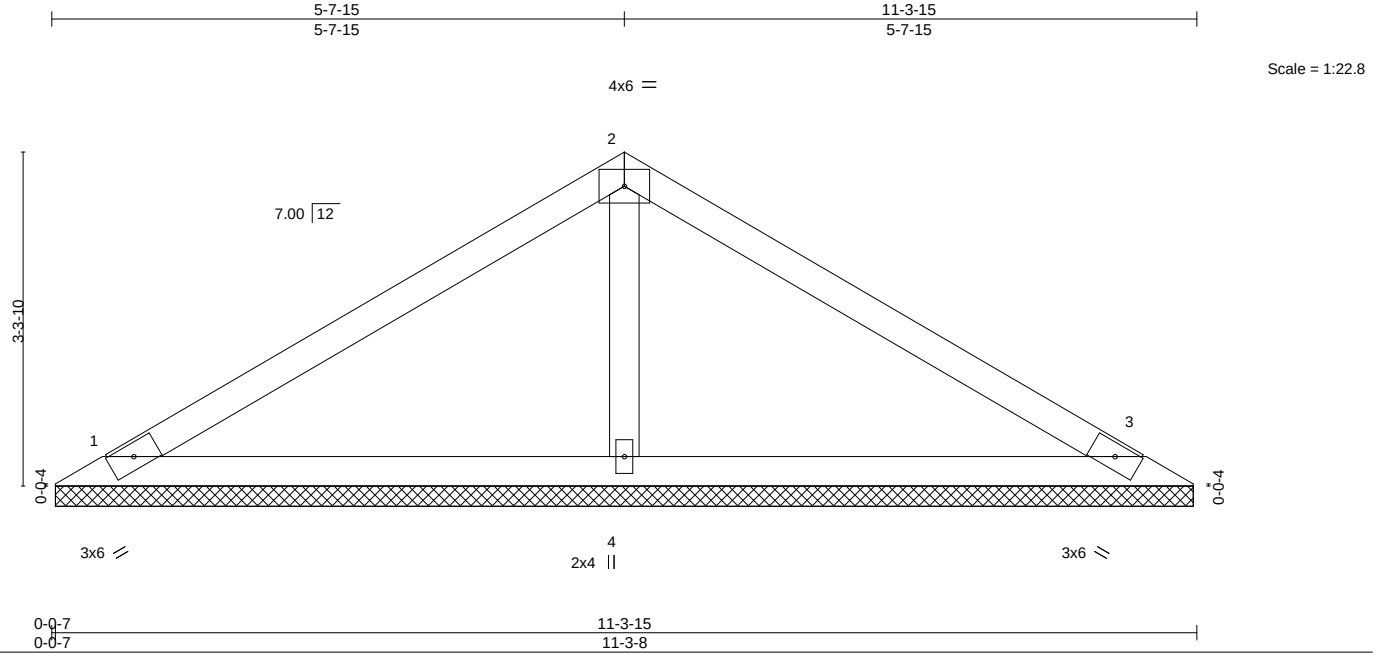


| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.32 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.26 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.06 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | | | | Weight: 38 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

**REACTIONS.** (size) 1=11-3-1, 3=11-3-1, 4=11-3-1
Max Horz 1=-66(LC 8)
Max Uplift 1=-49(LC 12), 3=-58(LC 13), 4=-56(LC 12)
Max Grav 1=179(LC 1), 3=179(LC 1), 4=401(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-253/114

**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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 5-7-15, Exterior(2R) 5-7-15 to 8-7-15, Interior(1) 8-7-15 to 10-9-7 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) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 16,2021



MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - FLOYD RES. |
|---|---|---|---|---|---|
| 2646866 | V10 | Valley | 1 | 1 | T22870191 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Feb 16 14:02:45 2021 Page 1
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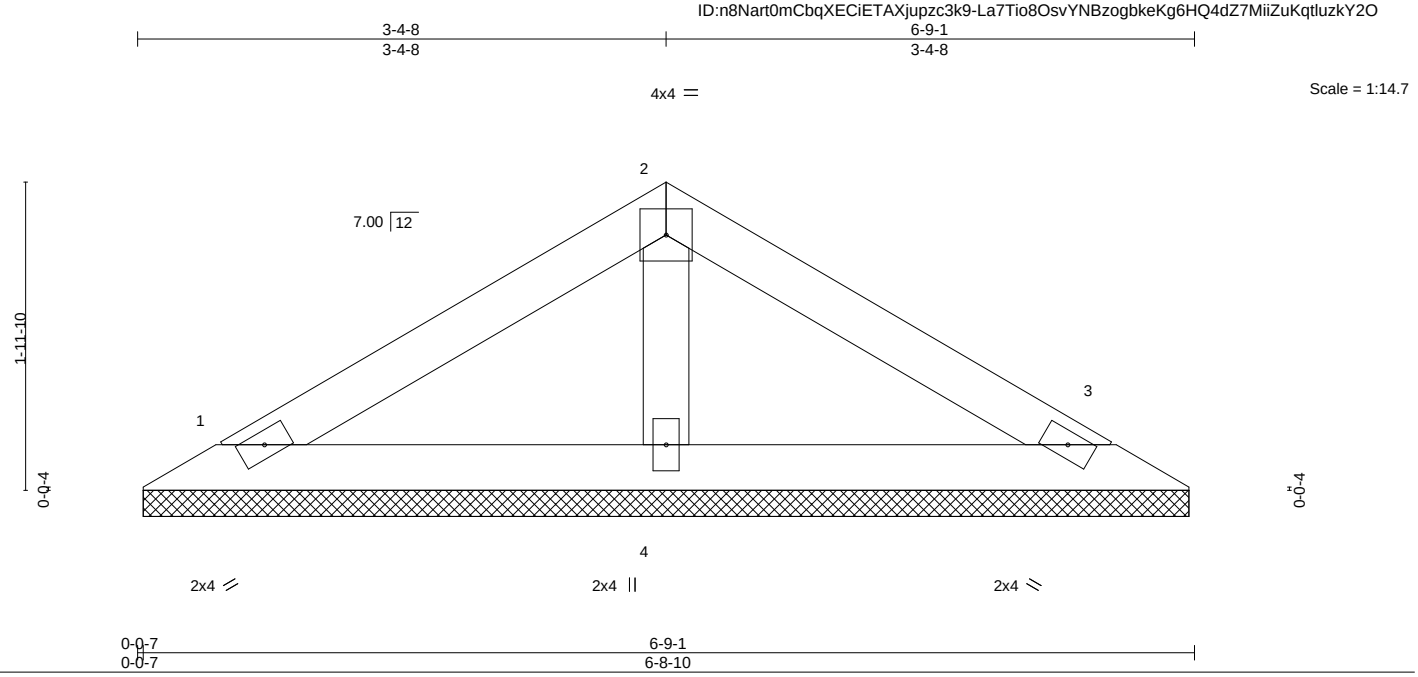


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.12 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.08 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-P | | | | | | | Weight: 22 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

**REACTIONS.** (size) 1=6-8-3, 3=6-8-3, 4=6-8-3
Max Horz 1=-36(LC 10)
Max Uplift 1=-33(LC 12), 3=-37(LC 13), 4=-20(LC 12)
Max Grav 1=109(LC 1), 3=109(LC 1), 4=202(LC 1)

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

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

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6904 Parke East Blvd. Tampa FL 33610
Date:

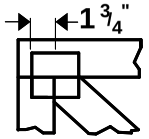
February 16,2021



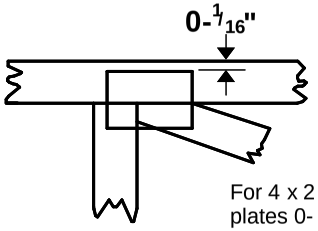
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

# Symbols

## PLATE LOCATION AND ORIENTATION




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




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

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

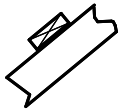
*** Plate location details available in MiTek 20/20 software or upon request.**

## PLATE SIZE

4 x 4

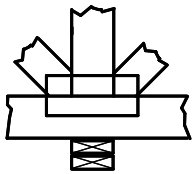
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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

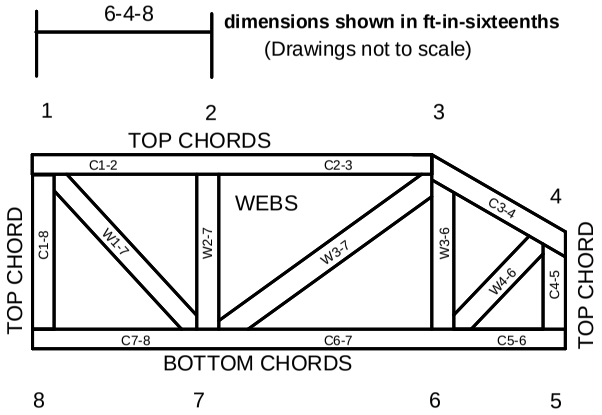


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

**Industry Standards:**

ANSI/TPI1: 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/TPI 1 section 6.3 These truss designs rely on lumber values established by others.



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 Tor I 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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 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/TPI 1 Quality Criteria.

21.The design does not take into account any dynamic or other loads other than those expressly stated.