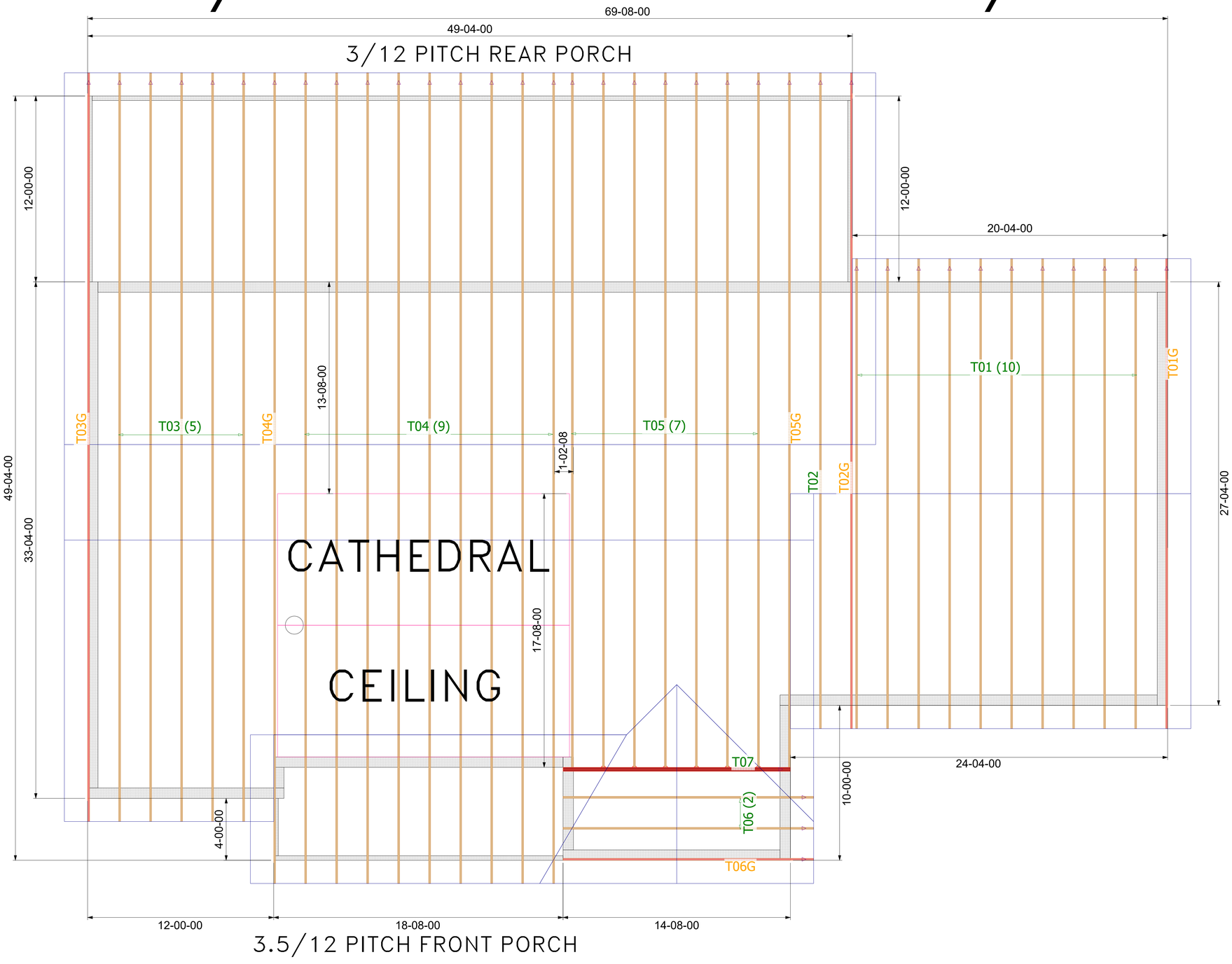
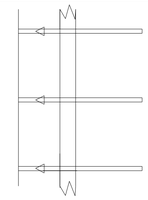
# 6/12 PITCH – 18" O/H




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.


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:
Bob & Kathy Anderson

Legal Address:
126 SW Colonial Pl

Model:
Custom

| Date: | Drawn By: | Original Ref #: |
|---|---|---|
| 3-6-24 | KLH | 3908009 |
| Floor 1 Job# | Floor 2 Job#: | Roof Job #: |
| N/A | N/A | 3908009 |

| Job | Truss | Truss Type | Qty | Ply | ANDERSON RES. |
|---|---|---|---|---|---|
| 3908009 | T01 | Common | 10 | 1 | Job Reference (optional) |

Builders FirstSource, Lake City, FL 32055, Kim Holloway

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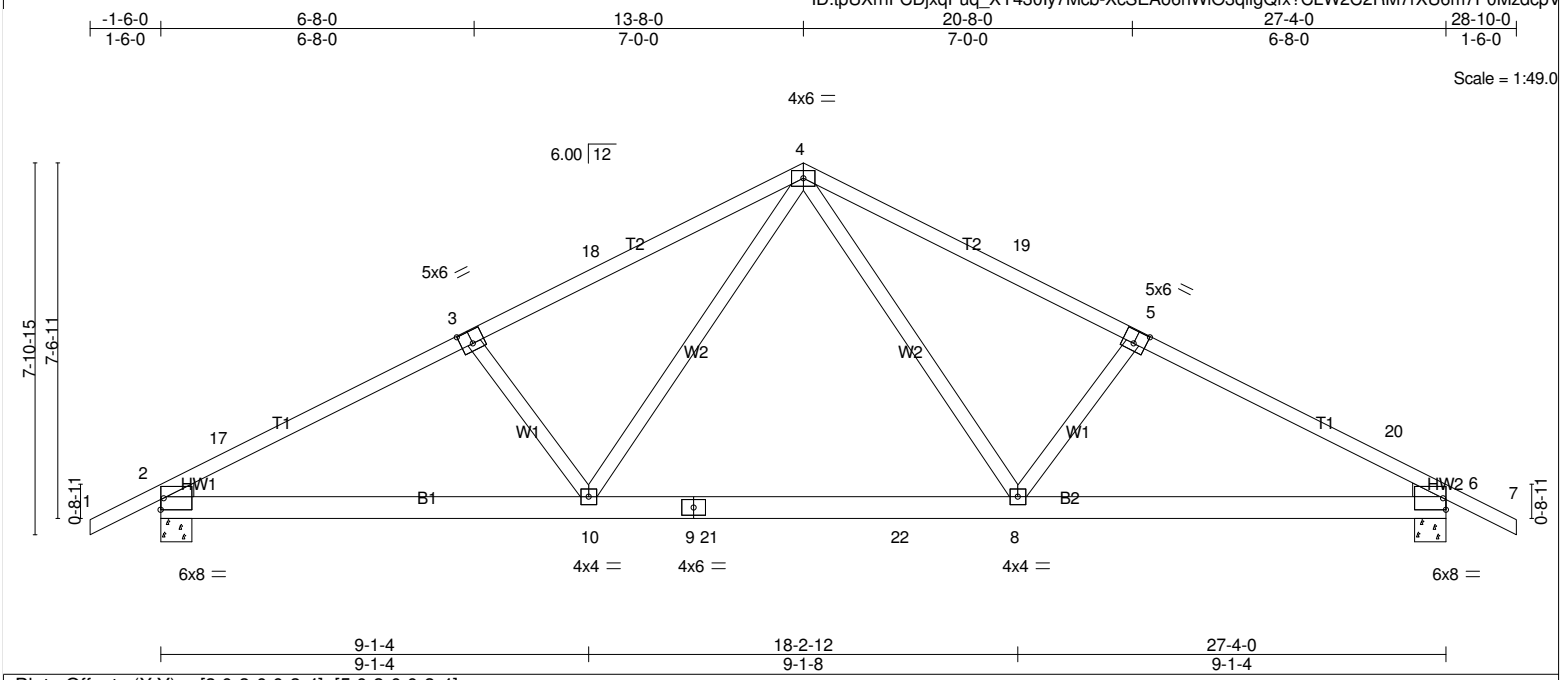


Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [5:0-3-0,0-3-4]

| 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 | 0.77 | Vert(LL) | -0.14 | 8-10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.83 | Vert(CT) | -0.24 | 8-16 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.43 | Horz(CT) | 0.03 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 153 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 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 3-3-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=1183/0-8-0, 6=1540/0-8-0
Max Horz 2=126(LC 16)
Max Uplift 2=-326(LC 12), 6=-443(LC 13)
Max Grav 2=1255(LC 2), 6=1563(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-17=-1967/463, 3-17=-1853/485, 3-18=-1800/457, 4-18=-1727/473, 4-19=-1963/563, 5-19=-2038/547, 5-20=-2093/576, 6-20=-2207/554
BOT CHORD 2-10=-463/1708, 9-10=-222/1223, 9-21=-222/1223, 21-22=-222/1223, 8-22=-222/1223, 6-8=-420/1922
WEBS 4-8=-315/1029, 5-8=-374/271, 4-10=-166/623, 3-10=-354/265

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; 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 17-10-15 to 28-10-0 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=326, 6=443.
7) 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: 1-4=-54, 4-7=-54, 8-11=-20, 8-16=-80(F=-60), 14-16=-20

| Job | Truss | Truss Type | Qty | Ply | ANDERSON RES. |
|---|---|---|---|---|---|
| 3908009 | T01G | Common Supported Gable | 1 | 1 | Job Reference (optional) |

Builders FirstSource, Lake City, FL 32055, Kim Holloway

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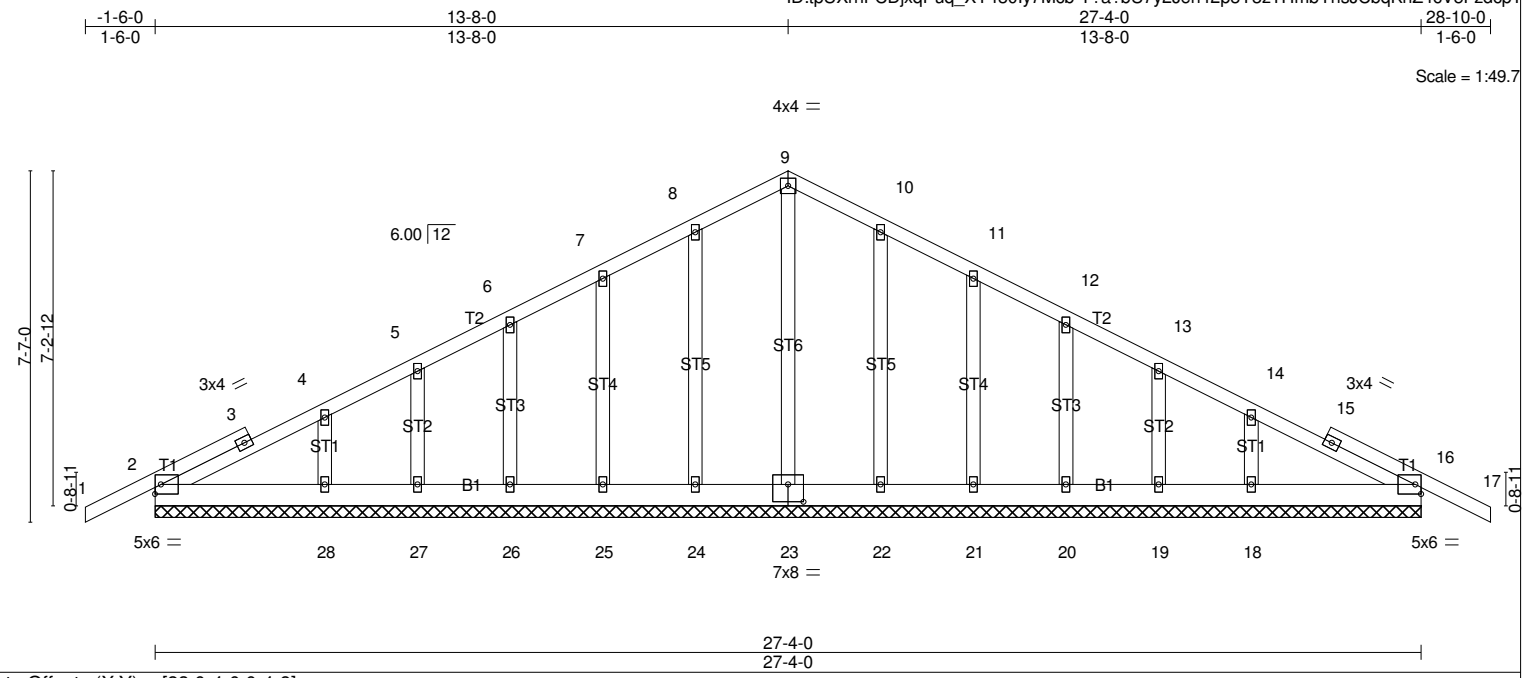


Plate Offsets (X,Y)-- [23:0-4-0,0-4-8]

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **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 | 0.13 | Vert(LL) | -0.00 | 17 | n/r | 120 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.04 | Vert(CT) | -0.00 | 17 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.09 | Horz(CT) | 0.00 | 16 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-S | | | | | | | Weight: 183 lb | FT = 20% |

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

**BRACING-**
TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 27-4-0.
(lb) - Max Horz 2=121(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 24, 25, 26, 27, 22, 21, 20, 19 except 28=-105(LC 12), 18=-104(LC 13)
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 7-22; 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 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, 22, 21, 20, 19 except (jt=lb) 28=105, 18=104.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | ANDERSON RES. |
|---|---|---|---|---|---|
| 3908009 | T02 | Roof Special | 1 | 1 | Job Reference (optional) |

Builders FirstSource, Lake City, FL 32055, Kim Holloway

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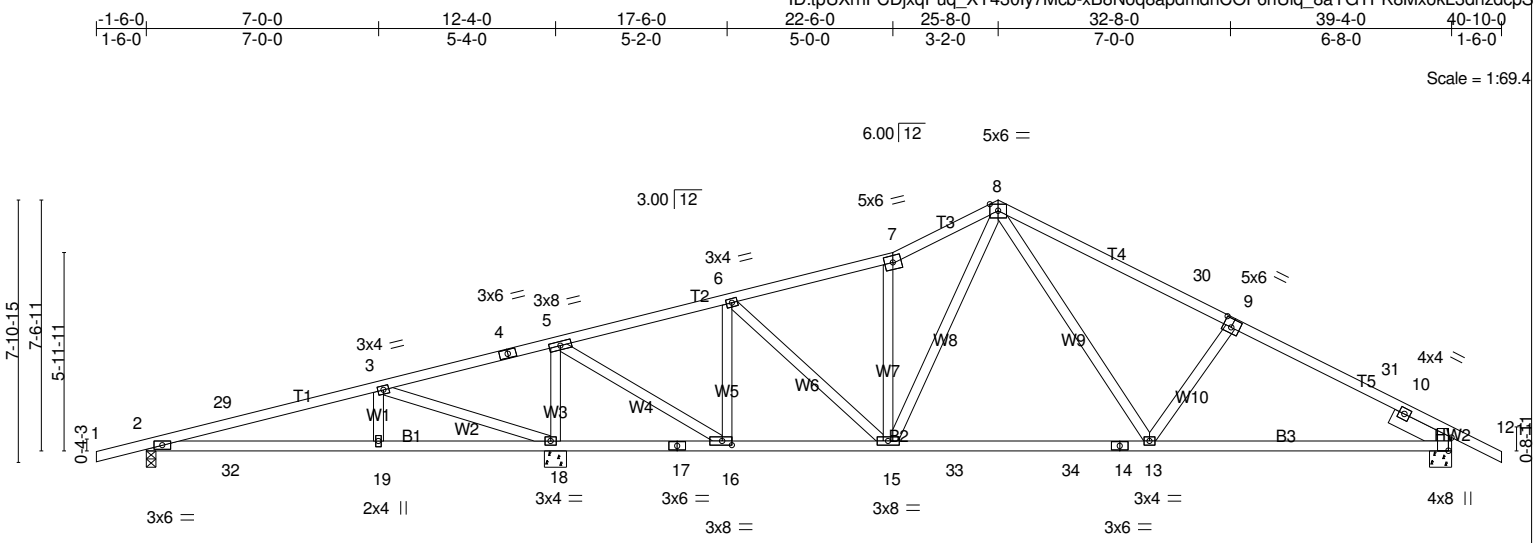


Plate Offsets (X,Y)-- [9:0-3-0,0-3-0], [11:0-4-12,Edge], [16:0-3-8,0-1-8]

| 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 0.70 | Vert(LL) -0.20 13-15 >999 240 | MT20 244/190 |
| TCDL 7.0 | Lumber DOL 1.25 | BC 0.81 | Vert(CT) -0.32 13-15 >999 180 | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.62 | Horz(CT) 0.04 11 n/a n/a | |
| BCDL 10.0 | Code FBC2023/TPI2014 | Matrix-MS | | Weight: 207 lb FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Right 2x6 SP No.2 1-11-8

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-4-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=322/0-3-8, 18=1757/0-8-0, 11=994/0-8-0
Max Horz 2=-129(LC 17)
Max Uplift 2=-247(LC 8), 18=-601(LC 8), 11=-289(LC 13)
Max Grav 2=358(LC 25), 18=1907(LC 2), 11=1065(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-29=-233/344, 3-29=-210/353, 3-4=-354/875, 4-5=-345/926, 5-6=-575/188, 6-7=-977/272, 7-8=-1056/322, 8-30=-1228/376, 9-30=-1298/352, 9-31=-1410/382, 10-31=-1428/363, 10-11=-326/0
BOT CHORD 2-32=-274/203, 19-32=-274/203, 18-19=-274/203, 17-18=-874/451, 16-17=-874/451, 15-16=-96/515, 15-33=-84/798, 33-34=-84/798, 14-34=-84/798, 13-14=-84/798, 11-13=-236/1222
WEBS 3-19=-262/263, 3-18=-992/765, 5-18=-1404/436, 5-16=-390/1626, 6-16=-710/243, 6-15=-151/545, 7-15=-377/188, 8-15=-129/377, 8-13=-169/581, 9-13=-298/242

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; 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 31-2-12 to 40-10-0 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) 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=247, 18=601, 11=289.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | ANDERSON RES. |
|---|---|---|---|---|---|
| 3908009 | T02G | GABLE | 1 | 1 | Job Reference (optional) |

Builders FirstSource, Lake City, FL 32055, Kim Holloway

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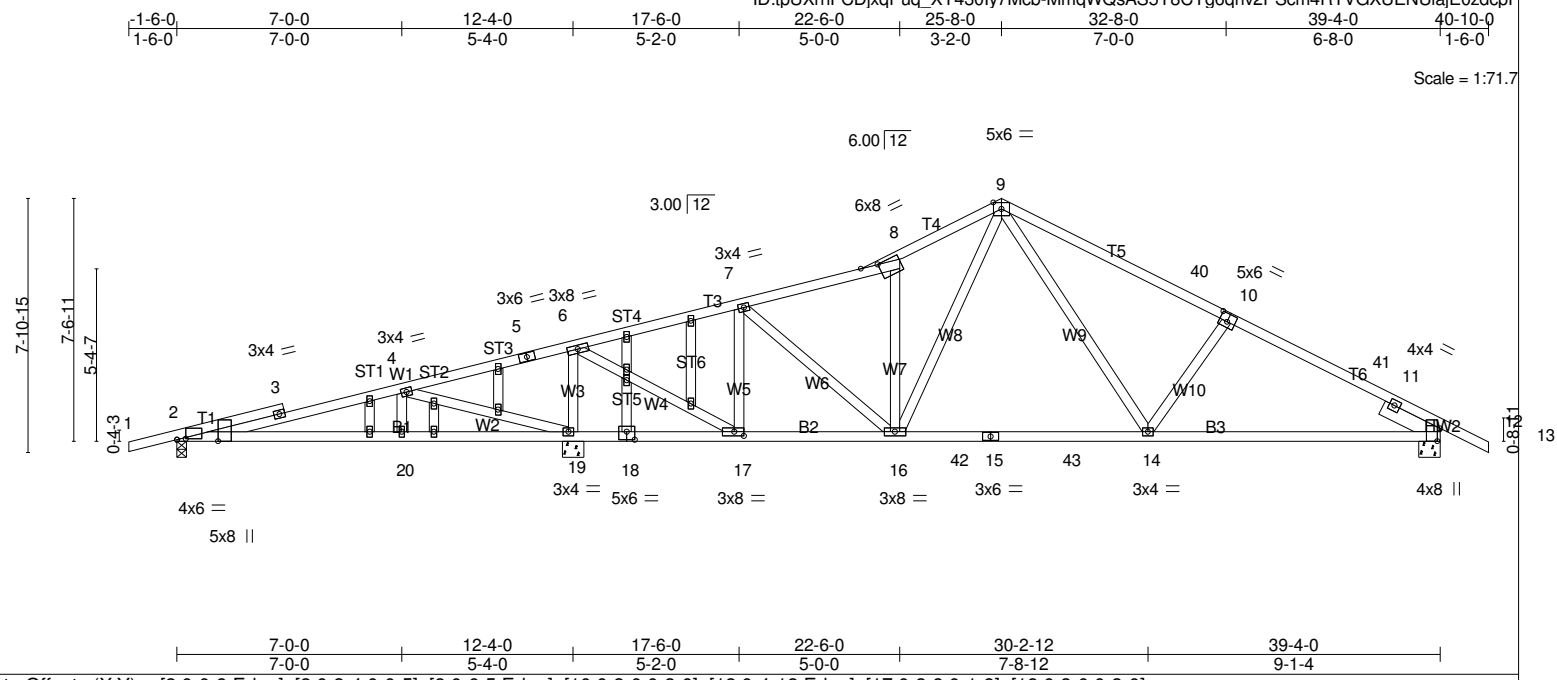


Plate Offsets (X,Y)-- [2:0-0-9,Edge], [2:0-3-4,0-0-5], [8:0-6-5,Edge], [10:0-3-0,0-3-0], [12:0-4-12,Edge], [17:0-3-8,0-1-8], [18:0-3-0,0-3-0]

| 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 | 0.79 | Vert(LL) | -0.20 | 14-16 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.80 | Vert(CT) | -0.32 | 14-16 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.68 | Horz(CT) | 0.04 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 223 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 |
| SLIDER | Right 2x6 SP No.2 1-11-8 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | 2-0-0 oc purlins (3-5-15 max.). |
| BOT CHORD | Rigid ceiling directly applied or 5-7-0 oc bracing. |

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=300/0-3-8, 12=984/0-8-0, 19=1786/0-8-0
Max Horz 2=-129(LC 17)
Max Uplift 2=-232(LC 8), 12=-288(LC 13), 19=-625(LC 8)
Max Grav 2=330(LC 25), 12=1055(LC 2), 19=1938(LC 2)

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

| | |
|---|---|
| TOP CHORD | 3-4=-71/255, 4-5=-514/1068, 5-6=-504/1120, 6-7=-584/186, 7-8=-997/275, 8-9=-1107/338, 9-40=-1208/373, 10-40=-1278/349, 10-41=-1389/379, 11-41=-1407/360, 11-12=-326/0 |
| BOT CHORD | 18-19=-1061/597, 17-18=-1061/597, 16-17=-83/515, 16-42=-77/778, 15-42=-77/778, 15-43=-77/778, 14-43=-77/778, 12-14=-233/1205 |
| WEBS | 4-19=-1032/793, 6-19=-1465/462, 6-17=-475/1774, 7-17=-723/272, 7-16=-194/582, 8-16=-446/208, 9-16=-140/425, 9-14=-169/582, 10-14=-299/242 |

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; 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 31-2-12 to 40-10-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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 100 lb uplift at joint(s) except (jt=lb) 2=232, 12=288, 19=625.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | ANDERSON RES. |
|---|---|---|---|---|---|
| 3908009 | T03 | Roof Special | 5 | 1 | Job Reference (optional) |

Builders FirstSource, Lake City, FL 32055, Kim Holloway

8.720 s Aug 20 2023 MiTek Industries, Inc. Wed Mar 6 15:20:54 2024 Page 1
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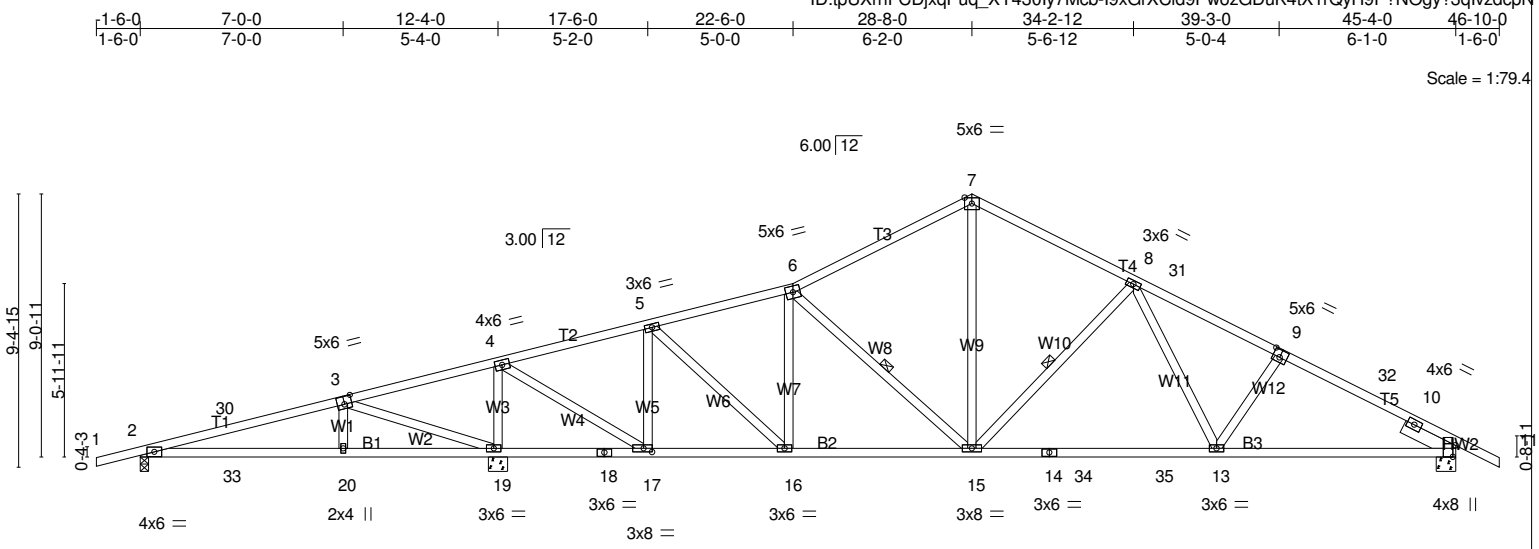


Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [9:0-3-0,0-3-0], [11:0-4-12,Edge], [17:0-3-8,0-1-8]

| 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 | 0.79 | Vert(LL) | -0.26 | 13-15 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.89 | Vert(CT) | -0.45 | 13-15 | >885 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.76 | Horz(CT) | 0.07 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 247 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2 *Except*
T5: 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Right 2x6 SP No.2 1-11-8

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-5-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-7-8 oc bracing.
WEBS 1 Row at midpt 6-15, 8-15

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=280/0-3-8, 19=2018/0-8-0, 11=1218/0-8-0
Max Horz 2=-154(LC 17)
Max Uplift 2=-250(LC 8), 19=-606(LC 8), 11=-347(LC 13)
Max Grav 2=324(LC 25), 19=2179(LC 2), 11=1305(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-30=-100/364, 3-30=-77/373, 3-4=-368/1120, 4-5=-704/226, 5-6=-1262/340, 6-7=-1245/375, 7-8=-1245/359, 8-31=-1690/476, 9-31=-1771/465, 9-32=-1846/475, 10-32=-1876/458, 10-11=-253/0
BOT CHORD 2-33=-290/154, 20-33=-290/154, 19-20=-288/154, 18-19=-1063/470, 17-18=-1063/470, 16-17=-153/647, 15-16=-243/1206, 14-15=-199/1403, 14-34=-199/1403, 34-35=-199/1403, 13-35=-199/1403, 11-13=-315/1599
WEBS 3-20=-273/266, 3-19=-997/800, 4-19=-1683/500, 4-17=-457/2000, 5-17=-865/271, 5-16=-196/745, 6-16=-360/160, 6-15=-276/166, 7-15=-198/810, 8-15=-521/271, 8-13=-78/390

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; 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 35-0-15 to 46-10-0 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) 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=250, 19=606, 11=347.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | ANDERSON RES. |
|---|---|---|---|---|---|
| 3908009 | T03G | GABLE | 1 | 1 | Job Reference (optional) |

Builders FirstSource, Lake City, FL 32055, Kim Holloway — 8.720 s Aug 20 2023 MiTek Industries, Inc. Wed Mar 6 15:20:57 2024 Page 1
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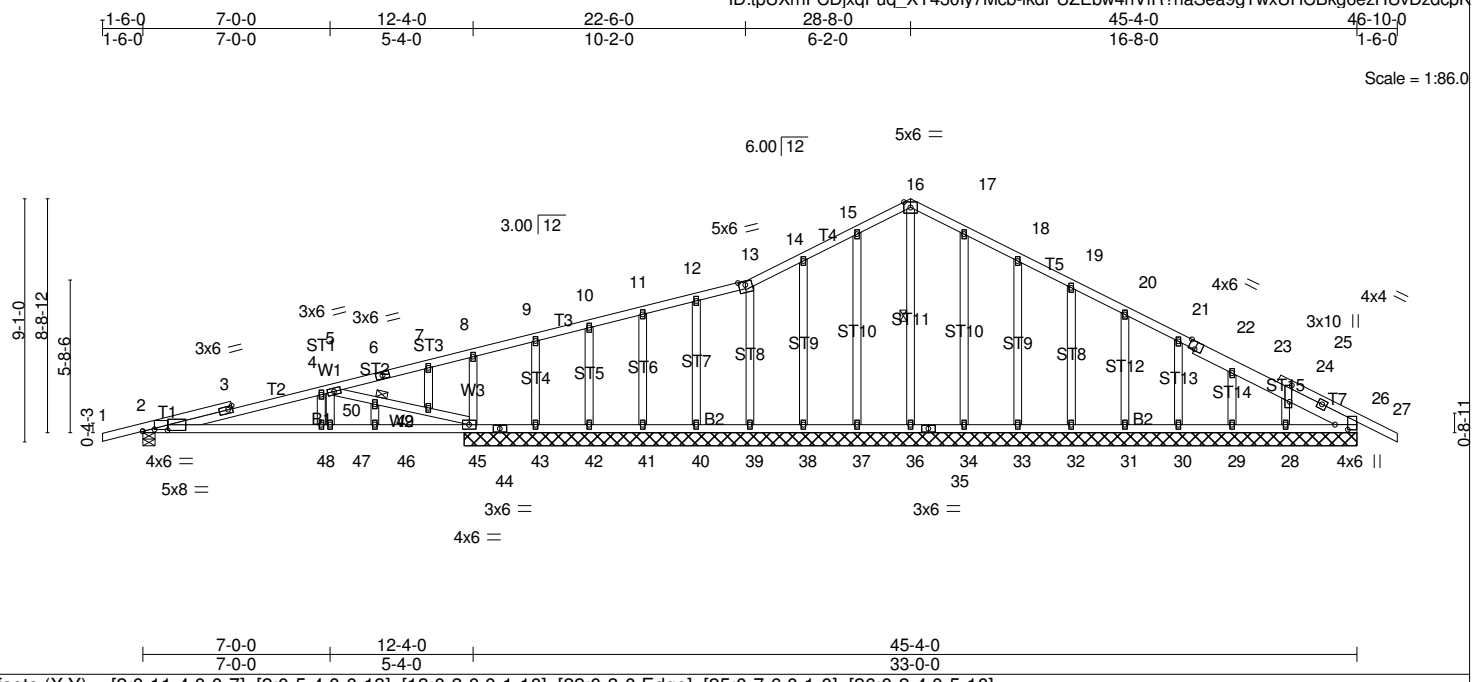


Plate Offsets (X,Y)-- [2:0-11-4,0-0-7], [2:0-5-4,0-0-13], [13:0-3-0,0-1-10], [22:0-3-0,Edge], [25:0-7-6,0-1-0], [26:0-2-4,0-5-10]

| 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 | 0.81 | Vert(LL) | 0.22 | 2-48 | >668 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.50 | Vert(CT) | 0.18 | 2-48 | >789 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.73 | Horz(CT) | 0.02 | 26 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-S | | | | | | | Weight: 284 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2 *Except*
T6: 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

**BRACING-**
TOP CHORD 2-0-0 oc purlins (4-9-4 max.).
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
4-10-11 oc bracing: 2-48
5-4-12 oc bracing: 47-48
5-5-1 oc bracing: 46-47
5-9-14 oc bracing: 45-46.
WEBS 1 Row at midpt 16-36
JOINTS 1 Brace at Jt(s): 13, 16, 50

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 33-4-0 except (jt=length) 2=0-5-8.
(lb) - Max Horz 45=-146(LC 17)
Max Uplift All uplift 100 lb or less at joint(s) 36, 37, 38, 39, 40, 41, 42, 43, 34, 33, 32, 31, 30, 29, 28, 26 except 2=-292(LC 8), 45=-324(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 37, 38, 39, 40, 41, 42, 43, 34, 33, 32, 31, 30, 29, 28, 26 except 2=488(LC 1), 36=346(LC 1), 45=574(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-794/1063, 3-4=-762/1069, 4-5=-775/1080, 5-6=-368/204, 6-7=-361/247, 7-8=-333/241, 8-9=-305/241, 9-10=-278/242, 13-14=-173/285, 14-15=-107/295, 15-16=-45/293, 16-17=-45/287, 17-18=-108/274, 18-19=-168/270, 19-20=-229/271, 20-21=-289/270, 21-22=-352/275, 22-23=-359/257, 23-24=-402/264, 24-25=-377/219, 25-26=-474/267
BOT CHORD 2-48=-993/746, 47-48=-993/746, 46-47=-993/746, 45-46=-993/746, 44-45=-222/488, 43-44=-222/488, 42-43=-222/488, 41-42=-222/488, 40-41=-222/488, 39-40=-222/488, 38-39=-223/490, 37-38=-223/490, 36-37=-223/490, 35-36=-223/490, 34-35=-223/490, 33-34=-223/490, 32-33=-223/490, 31-32=-223/490, 30-31=-223/490, 29-30=-223/490, 28-29=-223/490, 26-28=-221/484
WEBS 16-36=-306/119, 5-47=-437/375, 5-50=-997/1517, 49-50=-992/1523, 45-49=-1024/1555

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; 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 zone; 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) 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.

Continued on page 2

**NOTES-**

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) 36, 37, 38, 39, 40, 41, 42, 43, 34, 33, 32, 31, 30, 29, 28, 26 except (jt=lb) 2=292, 45=324.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | ANDERSON RES. |
|---|---|---|---|---|---|
| 3908009 | T04 | ROOF SPECIAL | 9 | 1 | Job Reference (optional) |

Builders FirstSource, Lake City, FL 32055, Kim Holloway

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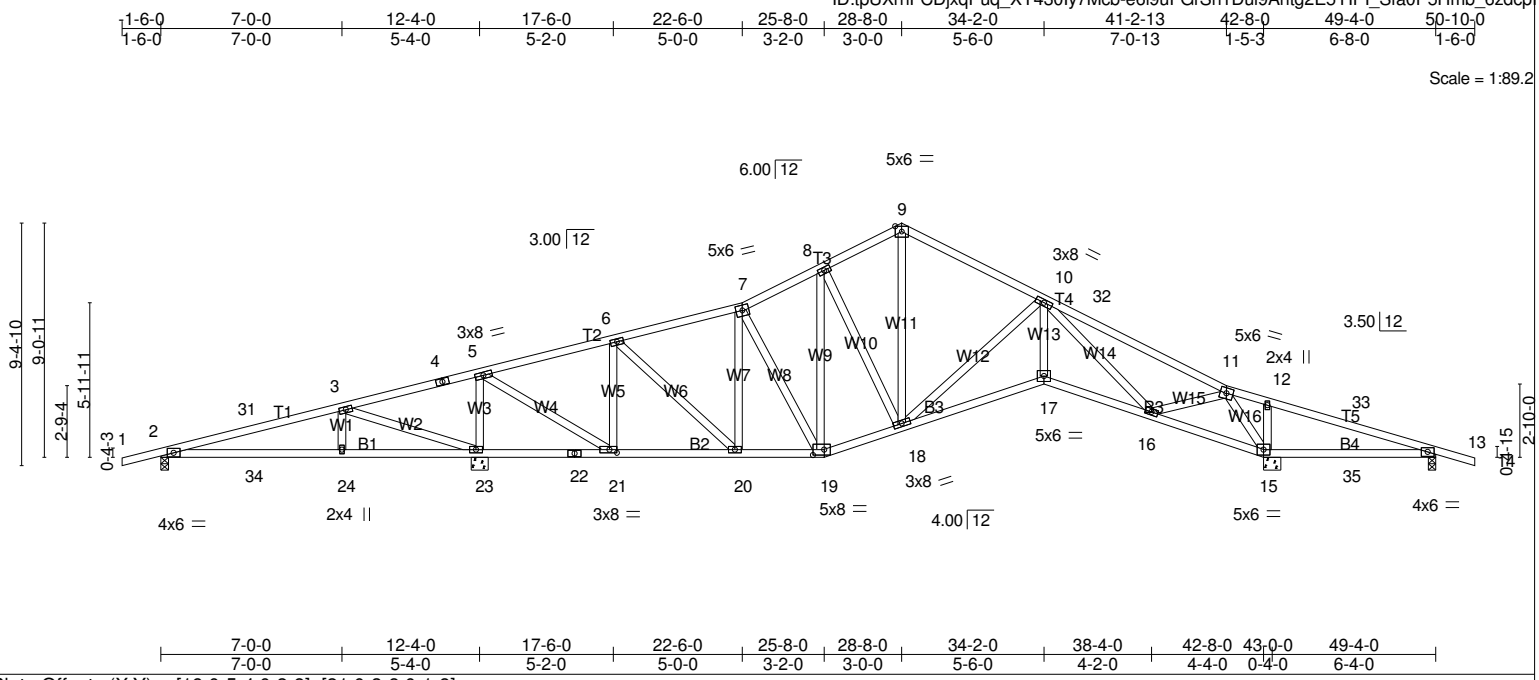


Plate Offsets (X,Y)-- [19:0-5-4,0-2-8], [21:0-3-8,0-1-8]

| 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 0.68 | Vert(LL) 0.14 24-27 >999 240 | MT20 244/190 |
| TCDL 7.0 | Lumber DOL 1.25 | BC 0.45 | Vert(CT) -0.19 17-18 >999 180 | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.99 | Horz(CT) 0.10 15 n/a n/a | |
| BCDL 10.0 | Code FBC2023/TPI2014 | Matrix-MS | | Weight: 279 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 5-2-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-6-1 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 0-3-8 except (jt=length) 15=0-8-0, 23=0-8-0.
(lb) - Max Horz 2=-152(LC 17)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-254(LC 8), 15=-423(LC 13), 13=-234(LC 9), 23=-590(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 13 except 2=342(LC 25), 15=1665(LC 1), 23=1829(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-31=-172/399, 3-31=-147/408, 3-4=-360/855, 4-5=-351/918, 5-6=-551/204, 6-7=-940/289, 7-8=-941/320, 8-9=-912/315, 9-10=-956/296, 10-32=-710/256, 11-32=-863/241, 11-12=-147/944, 12-33=-169/992, 13-33=-175/934
BOT CHORD 2-34=-319/144, 24-34=-319/144, 23-24=-319/144, 22-23=-860/469, 21-22=-860/469, 20-21=-138/502, 19-20=-199/883, 18-19=-158/867, 17-18=-219/1585, 16-17=-219/1583, 15-16=-320/91, 15-35=-897/198, 13-35=-897/198
WEBS 3-24=-281/266, 3-23=-928/832, 5-23=-1434/466, 5-21=-415/1593, 6-21=-728/258, 6-20=-169/507, 7-20=-253/137, 9-18=-180/577, 10-18=-959/286, 10-17=-111/1077, 10-16=-1170/218, 11-16=-129/1050, 11-15=-1264/307, 12-15=-333/218

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; 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 41-2-13 to 50-10-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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 3x6 MT20 unless otherwise indicated.
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 254 lb uplift at joint 2, 423 lb uplift at joint 15, 234 lb uplift at joint 13 and 590 lb uplift at joint 23.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | ANDERSON RES. |
|---|---|---|---|---|---|
| 3908009 | T04G | GABLE | 1 | 1 | Job Reference (optional) |

Builders FirstSource, Lake City, FL 32055, Kim Holloway

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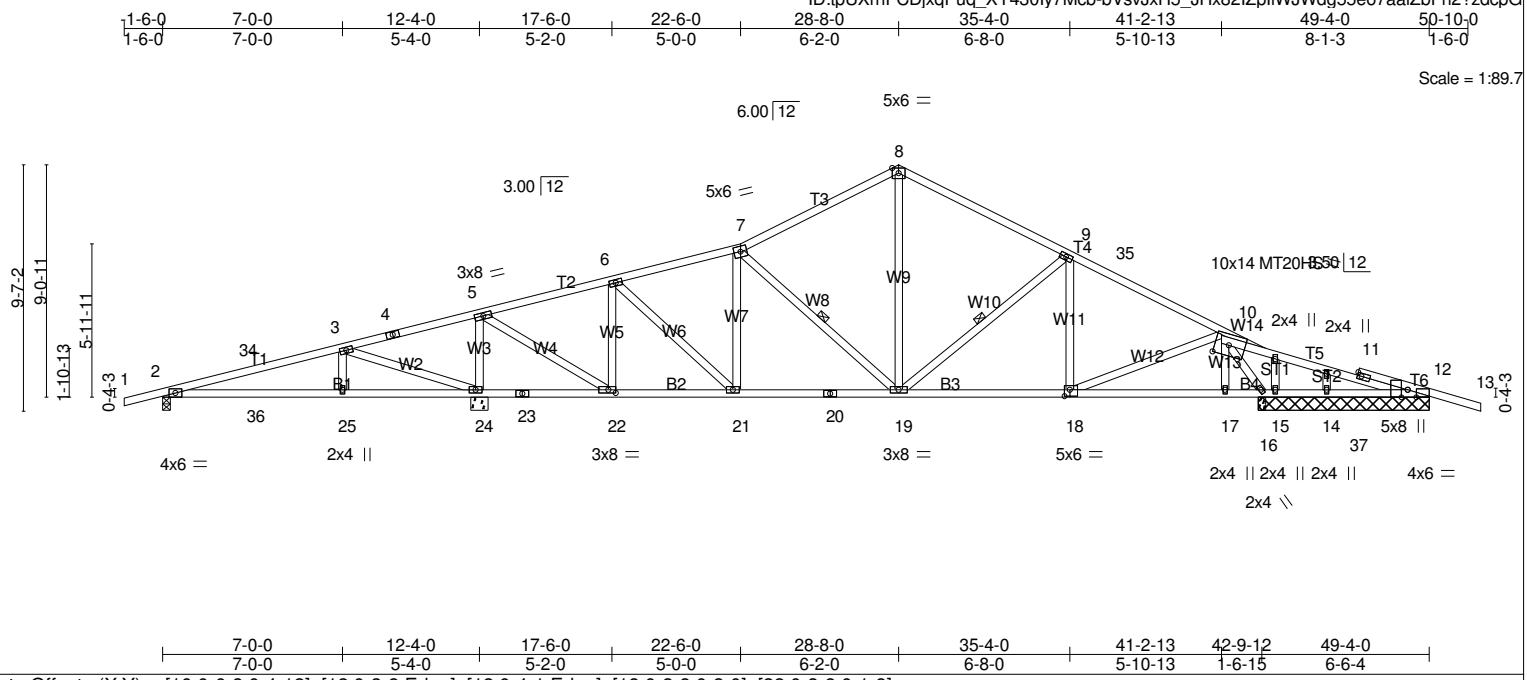


Plate Offsets (X,Y)-- [10:0-6-8,0-4-12], [12:0-3-8,Edge], [12:0-4-1,Edge], [18:0-2-8,0-3-0], [22:0-3-8,0-1-8]

| 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 | 0.54 | Vert(LL) | 0.14 | 25-33 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.45 | Vert(CT) | -0.13 | 25-33 | >999 | 180 | MT20HS | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.60 | Horz(CT) | 0.02 | 16 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 272 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 | 2-0-0 oc purlins (4-8-4 max.). |
| BOT CHORD | Rigid ceiling directly applied or 6-0-0 oc bracing. |
| WEBS | 1 Row at midpt 7-19, 9-19 |

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 6-8-0 except (jt=length) 2=0-3-8, 24=0-8-0, 16=0-3-8, 16=0-3-8.
(lb) - Max Horz 2=-158(LC 17)
Max Uplift All uplift 100 lb or less at joint(s) except 12=-170(LC 9), 2=-256(LC 8), 24=-585(LC 8), 14=-141(LC 9), 15=-212(LC 1), 16=-463(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 12, 14, 15, 12 except 2=365(LC 25), 24=1829(LC 1), 16=1505(LC 1), 16=1505(LC 1)

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

| | |
|---|---|
| TOP CHORD | 2-34=-257/430, 3-34=-233/439, 3-4=-328/707, 4-5=-324/770, 5-6=-694/230, 6-7=-1096/314, 7-8=-989/332, 8-9=-1007/310, 9-35=-1047/326, 10-35=-1216/325, 10-11=-147/572, 11-12=-159/511 |
| BOT CHORD | 2-36=-345/227, 25-36=-345/227, 24-25=-345/227, 23-24=-717/442, 22-23=-717/442, 21-22=-155/640, 20-21=-225/1036, 19-20=-225/1036, 18-19=-129/1010, 15-16=-511/200, 14-15=-511/200, 14-37=-511/200, 12-37=-511/200 |
| WEBS | 3-25=-281/264, 3-24=-920/830, 5-24=-1434/467, 5-22=-411/1587, 6-22=-731/249, 6-21=-171/527, 7-19=-334/179, 8-19=-145/514, 9-19=-308/205, 10-18=-196/951, 10-16=-1434/398 |

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; 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 42-0-12 to 51-4-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are MT20 plates unless otherwise indicated.
6) All plates are 3x6 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.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 170 lb uplift at joint 12, 256 lb uplift at joint 2, 585 lb uplift at joint 24, 141 lb uplift at joint 14, 212 lb uplift at joint 15, 463 lb uplift at joint 16 and 170 lb uplift at joint 12.
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

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | ANDERSON RES. |
|---|---|---|---|---|---|
| 3908009 | T05 | Roof Special | 7 | 1 | Job Reference (optional) |

Builders FirstSource, Lake City, FL 32055, Kim Holloway

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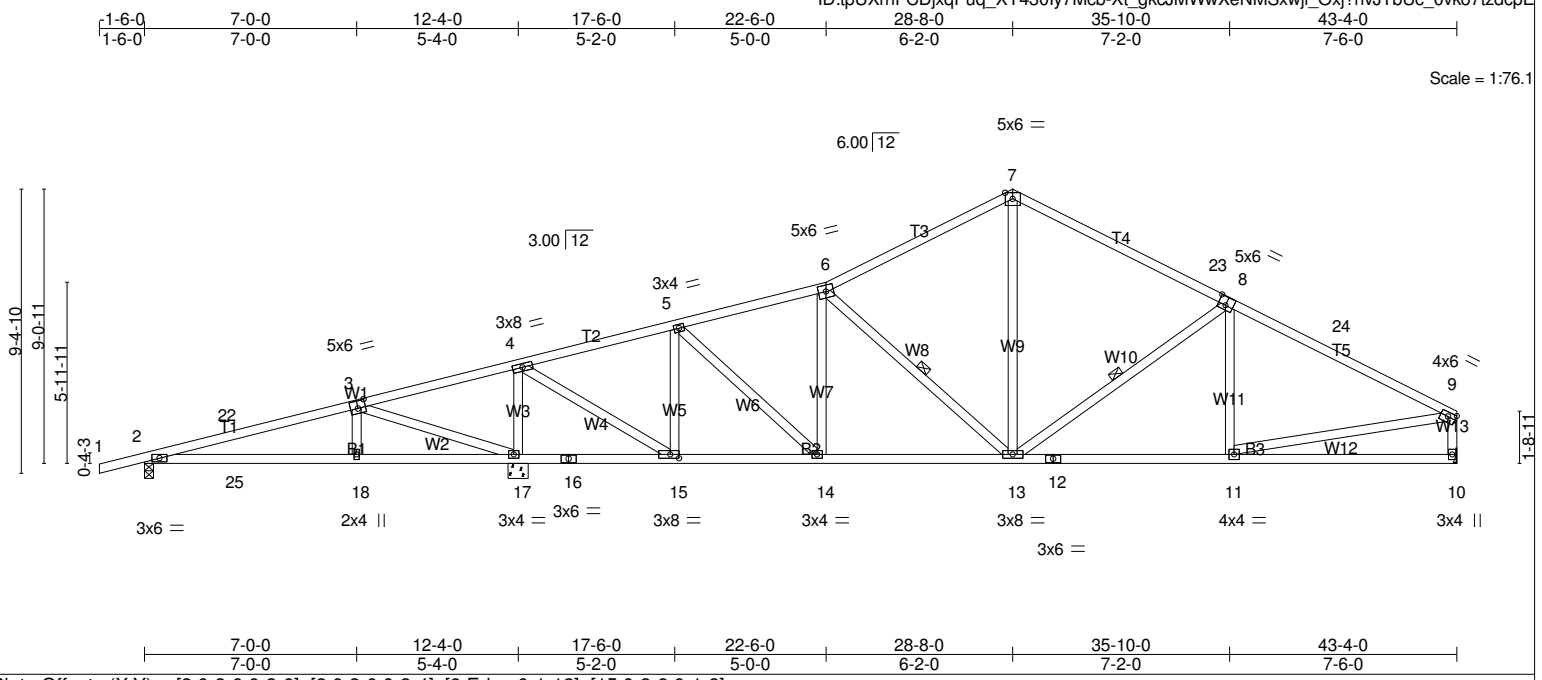


Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [8:0-3-0,0-3-4], [9:Edge,0-1-12], [15:0-3-8,0-1-8]

| 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 0.60 | Vert(LL) 0.13 18-21 >999 240 | MT20 244/190 |
| TCDL 7.0 | Lumber DOL 1.25 | BC 0.57 | Vert(CT) -0.17 10-11 >999 180 | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.63 | Horz(CT) 0.03 10 n/a n/a | |
| BCDL 10.0 | Code FBC2023/TPI2014 | Matrix-MS | | Weight: 240 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 3-11-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-13, 8-13

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=334/0-3-8, 17=1884/0-8-0, 10=1059/Mechanical
Max Horz 2=189(LC 12)
Max Uplift 2=-248(LC 8), 17=-602(LC 8), 10=-275(LC 13)
Max Grav 2=358(LC 25), 17=1884(LC 1), 10=1059(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-22=-229/364, 3-22=-206/373, 3-4=-361/815, 4-5=-715/209, 5-6=-1150/312, 6-7=-1064/343, 7-23=-992/328, 8-23=-1089/304, 8-24=-1305/363, 9-24=-1410/347, 9-10=-989/320
BOT CHORD 2-25=-336/200, 18-25=-336/200, 17-18=-334/198, 16-17=-761/411, 15-16=-761/411, 14-15=-186/660, 13-14=-266/1090, 12-13=-249/1191, 11-12=-249/1191
WEBS 3-18=-269/264, 3-17=-920/786, 4-17=-1488/485, 4-15=-435/1662, 5-15=-770/266, 5-14=-199/572, 6-14=-276/165, 6-13=-323/169, 7-13=-149/558, 8-13=-425/244, 9-11=-203/1094

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; 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 43-2-4 to 43-2-4 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) 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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 248 lb uplift at joint 2, 602 lb uplift at joint 17 and 275 lb uplift at joint 10.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | ANDERSON RES. |
|---|---|---|---|---|---|
| 3908009 | T05G | GABLE | 1 | 1 | Job Reference (optional) |

Builders FirstSource, Lake City, FL 32055, Kim Holloway

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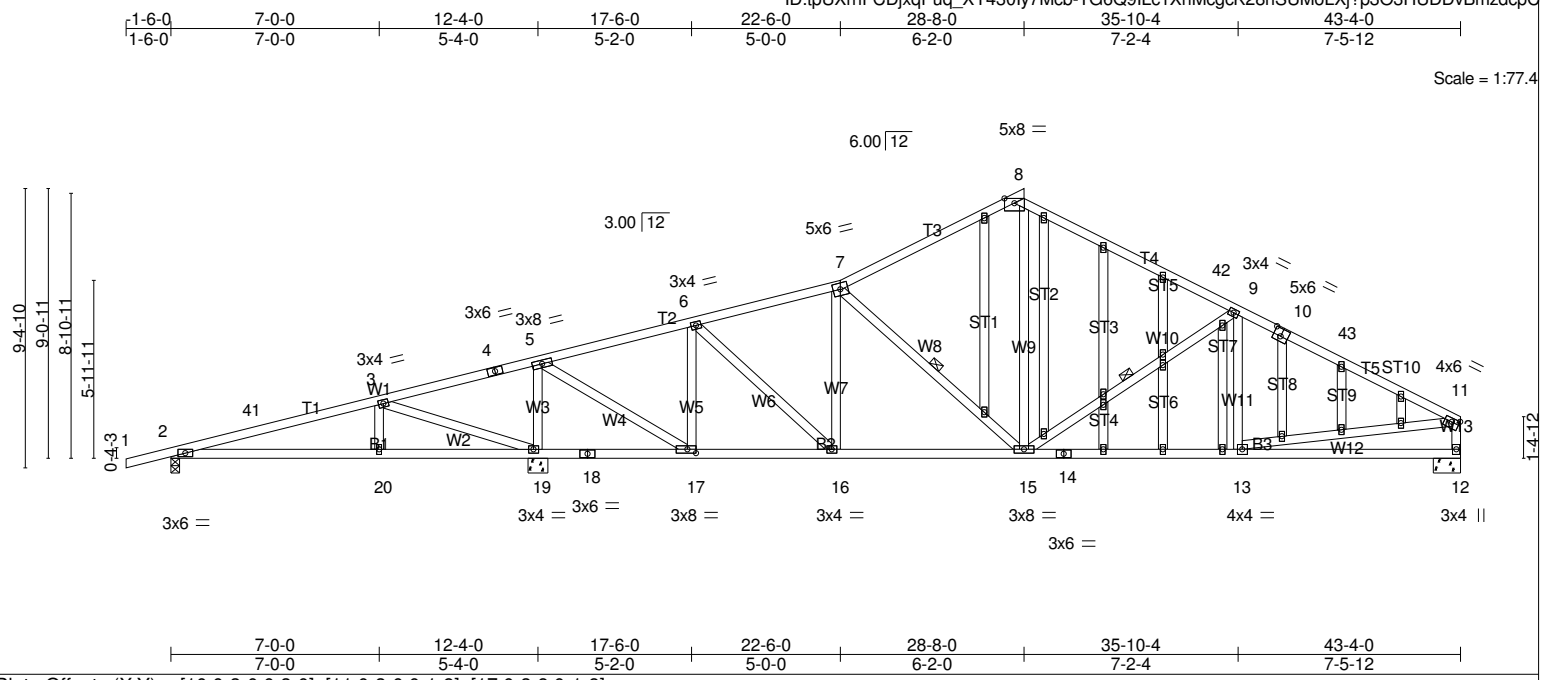


Plate Offsets (X,Y)-- [10:0-3-0,0-3-0], [11:0-3-0,0-1-8], [17:0-3-8,0-1-8]

| 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 | 0.64 | Vert(LL) | -0.08 | 12-13 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.58 | Vert(CT) | -0.16 | 12-13 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.64 | Horz(CT) | 0.03 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 294 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 | 2-0-0 oc purlins (3-10-14 max.), except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 6-0-0 oc bracing. |
| WEBS | 1 Row at midpt 7-15, 9-15 |

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=330/0-3-8, 19=1890/0-8-0, 12=1057/0-11-0
Max Horz 2=180(LC 12)
Max Uplift 2=-160(LC 8), 19=-556(LC 12), 12=-276(LC 13)
Max Grav 2=355(LC 25), 19=1890(LC 1), 12=1057(LC 1)

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

| | |
|---|---|
| TOP CHORD | 3-4=-280/771, 4-5=-270/833, 5-6=-704/212, 6-7=-1143/331, 7-8=-1062/347, 8-42=-1015/370, 9-42=-1117/344, 9-10=-1341/400, 10-43=-1395/389, 11-43=-1500/385, 11-12=-987/342 |
| BOT CHORD | 18-19=-778/201, 17-18=-778/201, 16-17=-178/650, 15-16=-257/1083, 14-15=-272/1272, 13-14=-272/1272 |
| WEBS | 3-20=0/264, 3-19=-923/331, 5-19=-1494/483, 5-17=-434/1671, 6-17=-774/255, 6-16=-129/575, 7-16=-279/121, 7-15=-316/166, 8-15=-161/576, 9-15=-486/268, 11-13=-234/1133 |

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; 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 43-2-4 to 43-2-4 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.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 160 lb uplift at joint 2, 556 lb uplift at joint 19 and 276 lb uplift at joint 12.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | ANDERSON RES. |
|---|---|---|---|---|---|
| 3908009 | T06 | Common | 2 | 1 | Job Reference (optional) |

Builders FirstSource, Lake City, FL 32055, Kim Holloway

8.720 s Aug 20 2023 MiTek Industries, Inc. Wed Mar 6 15:21:07 2024 Page 1
ID:tpUXrhFCDjxqPuq_XY430Iy7Mcb-PfEBa_MsZ914szmi9ZpwZntjgWizXPqaxXi0GezdcpA

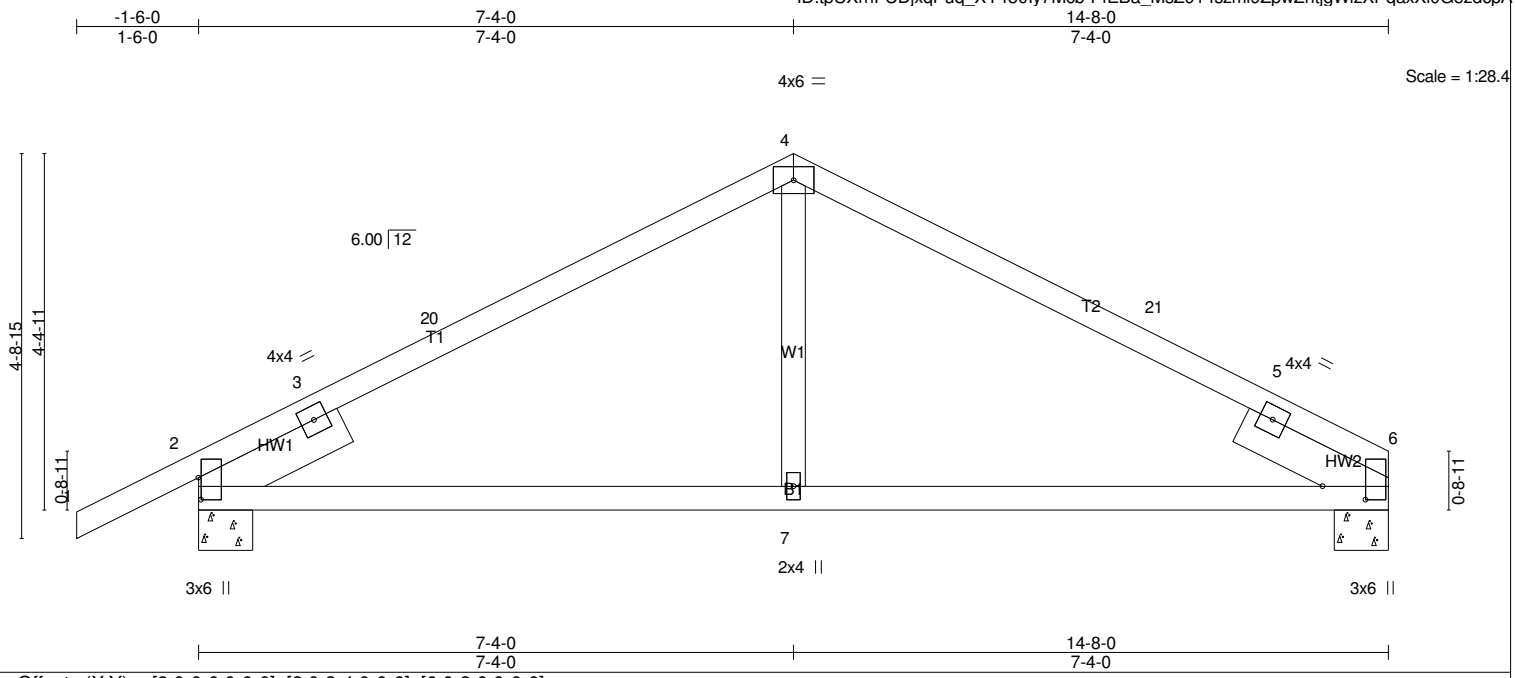


Plate Offsets (X,Y)-- [2:0-0-0,0-0-0], [2:0-3-4,0-0-6], [6:0-2-0,0-6-6]

| **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 | 0.47 | Vert(LL) | -0.07 | 7-12 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.40 | Vert(CT) | -0.10 | 7-12 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.11 | Horz(CT) | 0.02 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 64 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

**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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 6=536/0-8-0, 2=630/0-8-0
Max Horz 2=86(LC 12)
Max Uplift6=-138(LC 13), 2=-178(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-20=-615/202, 4-20=-544/218, 4-21=-544/228, 5-21=-574/212
BOT CHORD 2-7=-102/487, 6-7=-102/487
WEBS 4-7=-2/282

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; 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 11-6-15 to 14-8-0 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 138 lb uplift at joint 6 and 178 lb uplift at joint 2.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | ANDERSON RES. |
|---|---|---|---|---|---|
| 3908009 | T06G | Common Supported Gable | 1 | 1 | Job Reference (optional) |

Builders FirstSource, Lake City, FL 32055, Kim Holloway

8.720 s Aug 20 2023 MiTek Industries, Inc. Wed Mar 6 15:21:08 2024 Page 1
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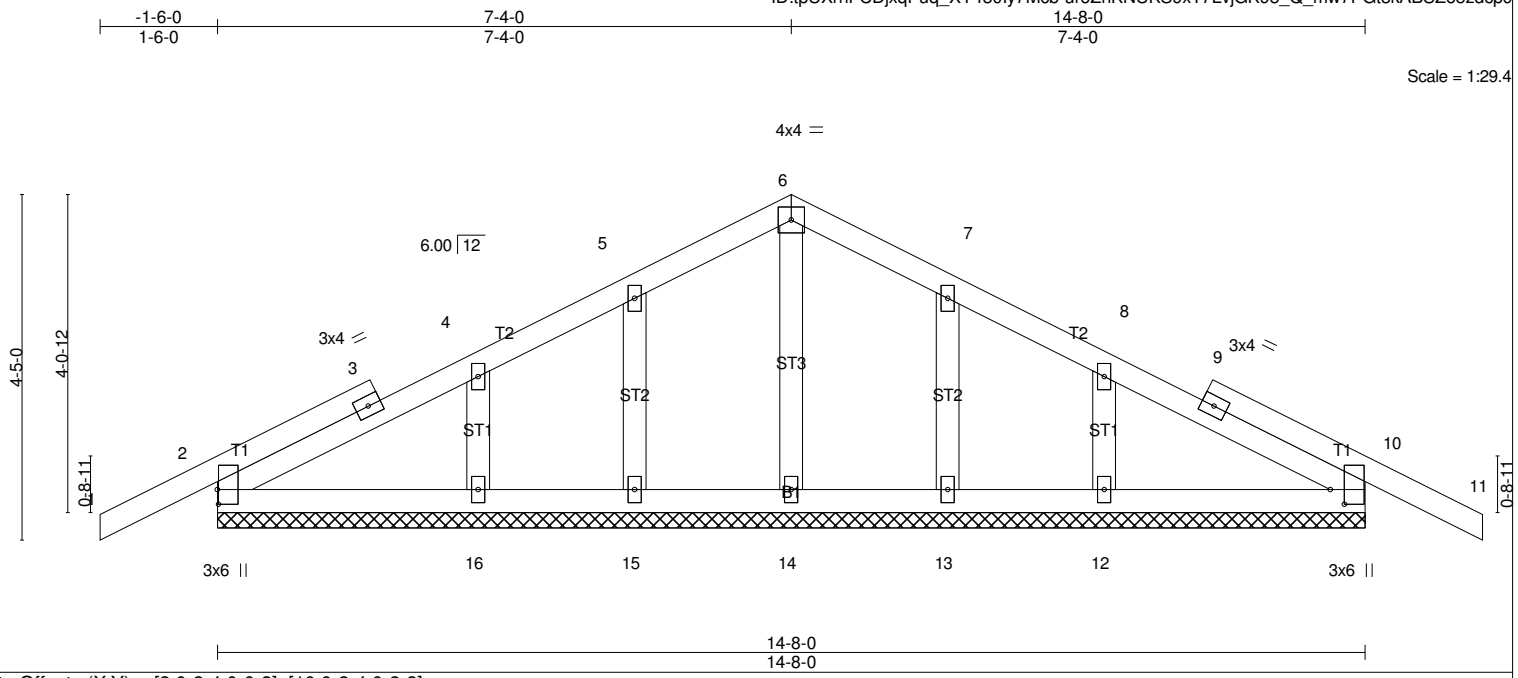


Plate Offsets (X,Y)-- [2:0-2-4,0-0-3], [10:0-2-4,0-2-3]

| 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 | 0.13 | Vert(LL) | -0.00 | 11 | n/r | 120 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.07 | Vert(CT) | -0.00 | 11 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.04 | Horz(CT) | 0.00 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-S | | | | | | | Weight: 75 lb | FT = 20% |

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

**BRACING-**
TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 14-8-0.
(lb) - Max Horz 2=-68(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 16, 13, 12
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

**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 7-22; 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 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, 10, 15, 16, 13, 12.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | ANDERSON RES. |
|---|---|---|---|---|---|
| 3908009 | T07 | Common Girder | 1 | 2 | Job Reference (optional) |

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8.720 s Aug 20 2023 MiTek Industries, Inc. Wed Mar 6 15:21:11 2024 Page 1

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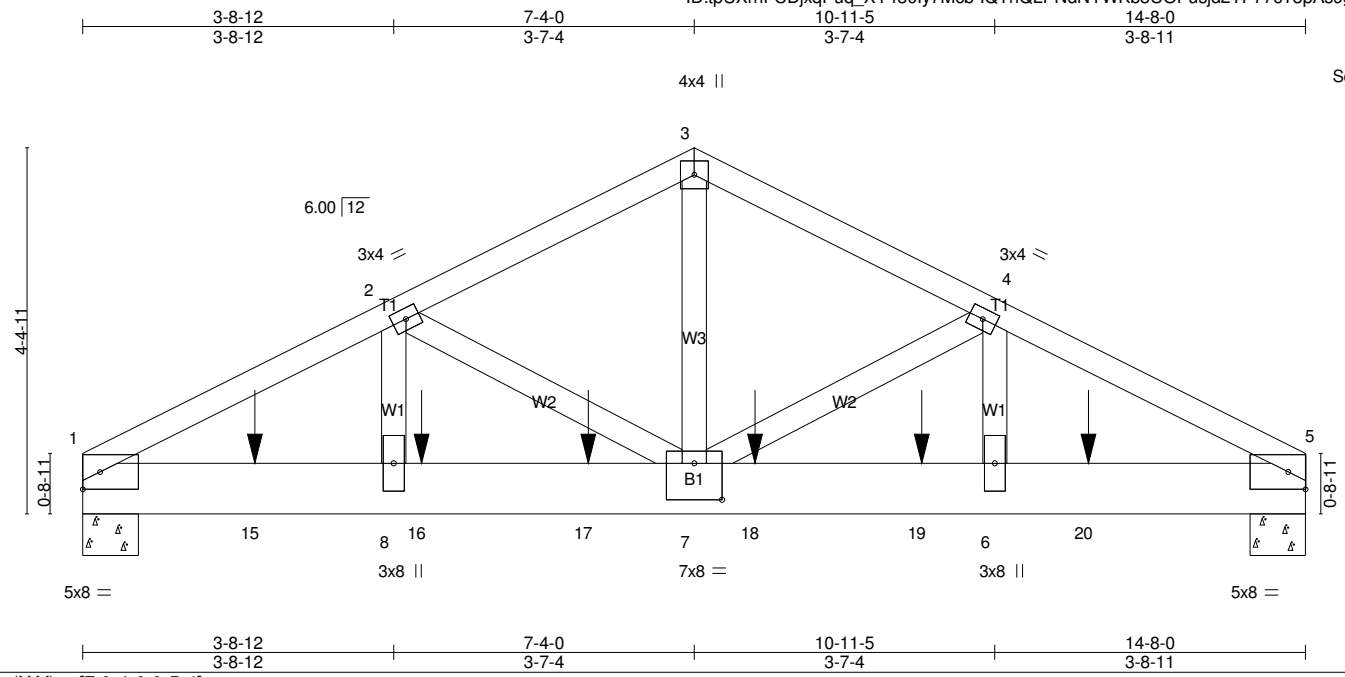



Plate Offsets (X,Y)-- [7:0-4-0,0-5-4]

| 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 | 0.23 | Vert(LL) | -0.06 | 7-8 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.23 | Vert(CT) | -0.11 | 7-8 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.75 | Horz(CT) | 0.02 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 183 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-0-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 1=3774/0-8-0, 5=3543/0-8-0
Max Horz 1=61(LC 29)
Max Uplift1=-1012(LC 8), 5=-949(LC 9)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-5982/1601, 2-3=-4690/1275, 3-4=-4690/1275, 4-5=-5851/1567
BOT CHORD 1-15=-1445/5297, 8-15=-1445/5297, 8-16=-1445/5297, 16-17=-1445/5297, 7-17=-1445/5297, 7-18=-1352/5178, 18-19=-1352/5178, 6-19=-1352/5178, 6-20=-1352/5178, 5-20=-1352/5178
WEBS 3-7=-1042/3925, 4-7=-1192/390, 4-6=-250/1012, 2-7=-1331/426, 2-8=-284/1135

**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: 2x8 - 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) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; 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=1012, 5=949.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1039 lb down and 295 lb up at 2-0-12, 1039 lb down and 295 lb up at 4-0-12, 1039 lb down and 295 lb up at 6-0-12, 1039 lb down and 295 lb up at 8-0-12, and 1039 lb down and 295 lb up at 10-0-12, and 1039 lb down and 295 lb up at 12-0-12 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, 3-5=-54, 9-12=-20

Continued on page 2

**LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 15=-1039(F) 16=-1039(F) 17=-1039(F) 18=-1039(F) 19=-1039(F) 20=-1039(F)

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

RE: 3908009 - ANDERSON RES.

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

**Site Information:**

Customer Info: BOB and KATHY ANDERSON Project Name: Anderson Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 126 SW Colonial Place, N/A
City: Columbia Cty State: Fl

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.7
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

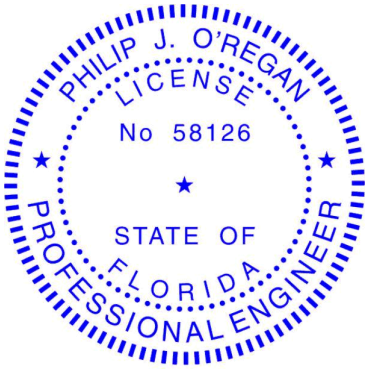
This package includes 13 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

| No. | Seal# | Truss Name | Date |
|---|---|---|---|
| 1 | T33156909 | T01 | 3/7/24 |
| 2 | T33156910 | T01G | 3/7/24 |
| 3 | T33156911 | T02 | 3/7/24 |
| 4 | T33156912 | T02G | 3/7/24 |
| 5 | T33156913 | T03 | 3/7/24 |
| 6 | T33156914 | T03G | 3/7/24 |
| 7 | T33156915 | T04 | 3/7/24 |
| 8 | T33156916 | T04G | 3/7/24 |
| 9 | T33156917 | T05 | 3/7/24 |
| 10 | T33156918 | T05G | 3/7/24 |
| 11 | T33156919 | T06 | 3/7/24 |
| 12 | T33156920 | T06G | 3/7/24 |
| 13 | T33156921 | T07 | 3/7/24 |

This item has been digitally signed and sealed by ORegan, Philip, PE on the date adjacent to the seal.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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

Truss Design Engineer's Name: ORegan, Philip
My license renewal date for the state of Florida is February 28, 2025.




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

March 7,2024

ORegan, Philip

| Job | Truss | Truss Type | Qty | Ply | ANDERSON RES. |
|---|---|---|---|---|---|
| 3908009 | T01 | Common | 10 | 1 | T33156909 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 6 14:41:53 2024 Page 1
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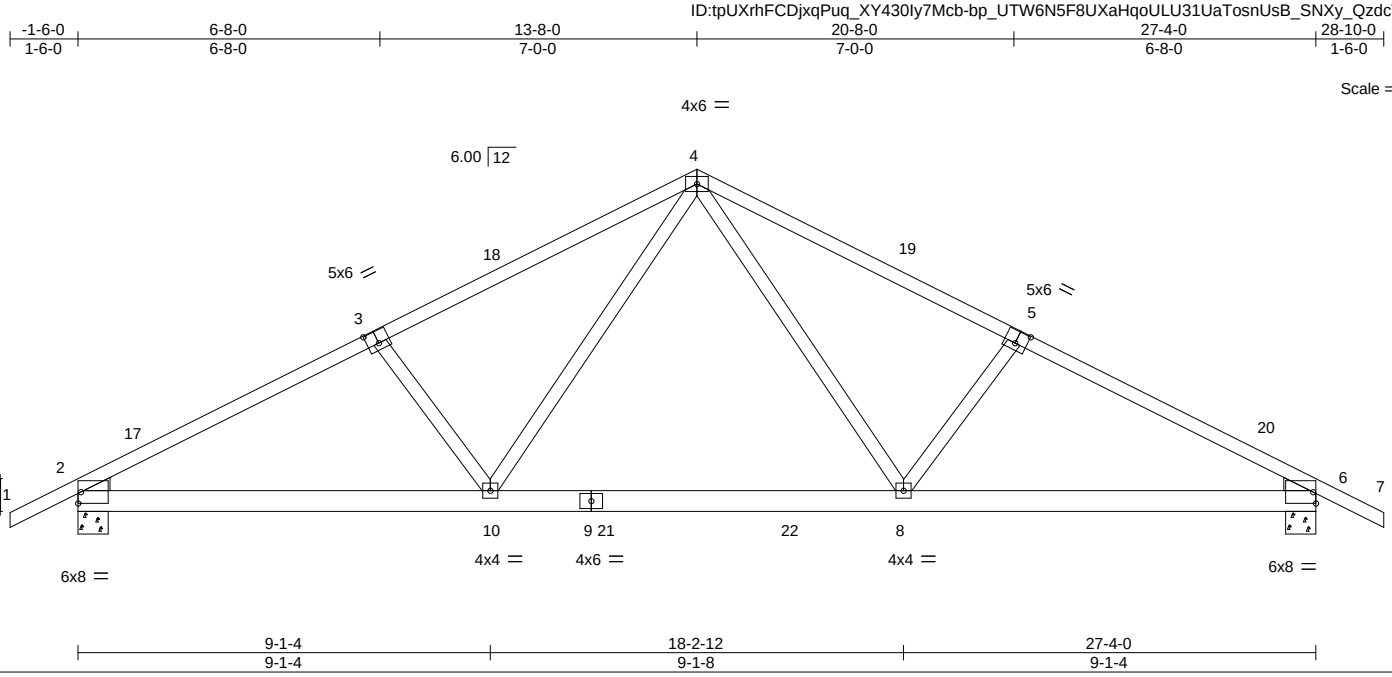


Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [5:0-3-0,0-3-4]

| 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 | 0.77 | Vert(LL) | -0.14 | 8-10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.83 | Vert(CT) | -0.24 | 8-16 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.43 | Horz(CT) | 0.03 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 153 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 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 3-3-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 2=0-8-0, 6=0-8-0
Max Horz 2=126(LC 12)
Max Uplift 2=-326(LC 12), 6=-443(LC 13)
Max Grav 2=1255(LC 2), 6=1563(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1967/485, 3-4=-1800/473, 4-5=-2038/563, 5-6=-2207/576
BOT CHORD 2-10=-463/1708, 8-10=-222/1223, 6-8=-420/1922
WEBS 4-8=-315/1029, 5-8=-374/271, 4-10=-166/623, 3-10=-354/265

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; 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 Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 13-8-0, Zone2 13-8-0 to 17-10-15, Zone1 17-10-15 to 28-10-0 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=326, 6=443.
7) 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: 1-4=-54, 4-7=-54, 8-11=-20, 8-16=-80(F=-60), 14-16=-20

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

March 7,2024



MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | ANDERSON RES. |
|---|---|---|---|---|---|
| 3908009 | T01G | Common Supported Gable | 1 | 1 | T33156910 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 6 14:41:55 2024 Page 1
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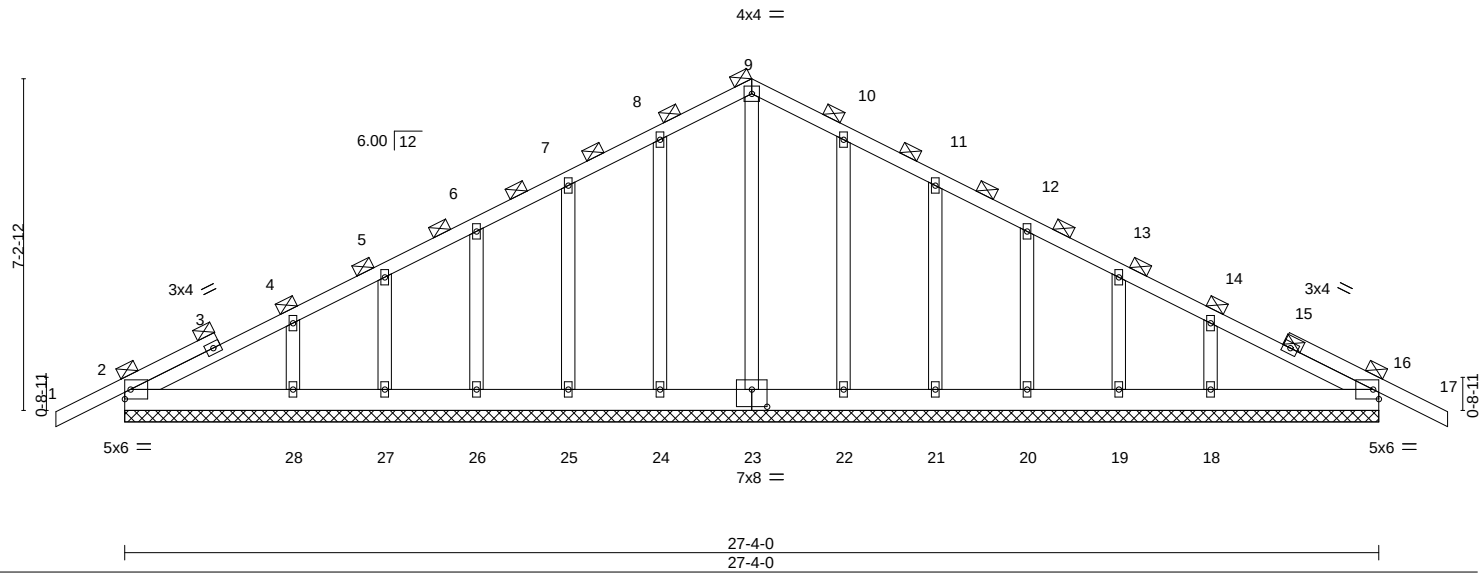
-1-6-0 13-8-0 27-4-0 28-10-0
1-6-0 13-8-0 13-8-0 1-6-0

Scale = 1:50.2




27-4-0
27-4-0

Plate Offsets (X,Y)-- [23:0-4-0,0-4-8]

| 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 | 0.13 | Vert(LL) | -0.00 | 17 | n/r | 120 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.04 | Vert(CT) | -0.00 | 17 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.09 | Horz(CT) | 0.00 | 16 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-S | | | | | | | Weight: 183 lb | FT = 20% |

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

**BRACING-**
TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** All bearings 27-4-0.
(lb) - Max Horz 2=121(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 24, 25, 26, 27, 22, 21, 20, 19 except 28=-105(LC 12), 18=-104(LC 13)
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 7-22; 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 Zone3 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, 22, 21, 20, 19 except (jt=lb) 28=105, 18=104.
11) 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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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 7,2024




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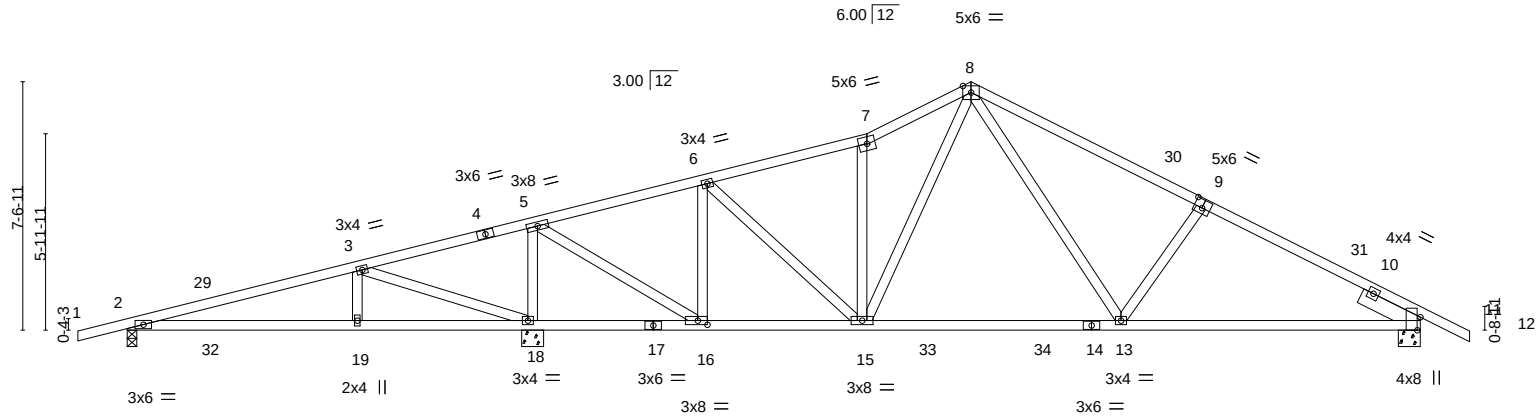
| Job | Truss | Truss Type | Qty | Ply | ANDERSON RES. |
|---|---|---|---|---|---|
| 3908009 | T02 | Roof Special | 1 | 1 | T33156911 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 6 14:41:56 2024 Page 1
ID:tpUXrhFCDjxqPuq_XY430ly7Mcb-?Ogd6Y8FOAW3O20PTduBhg65o?uqhA1Q8LmcblzdcVf

| -1-6-0 | 7-0-0 | 12-4-0 | 17-6-0 | 22-6-0 | 25-8-0 | 32-8-0 | 39-4-0 | 40-10-0 |
|---|---|---|---|---|---|---|---|---|
| 1-6-0 | 7-0-0 | 5-4-0 | 5-2-0 | 5-0-0 | 3-2-0 | 7-0-0 | 6-8-0 | 1-6-0 |

Scale = 1:70.1




| 7-0-0 | 12-4-0 | 17-6-0 | 22-6-0 | 30-2-12 | 39-4-0 |
|---|---|---|---|---|---|
| 7-0-0 | 5-4-0 | 5-2-0 | 5-0-0 | 7-8-12 | 9-1-4 |

Plate Offsets (X,Y)-- [9:0-3-0,0-3-0], [11:0-4-12,Edge], [16:0-3-8,0-1-8]

| 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 | 0.70 | Vert(LL) | -0.20 | 13-15 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.81 | Vert(CT) | -0.32 | 13-15 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.62 | Horz(CT) | 0.04 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 207 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Right 2x6 SP No.2 1-11-8

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-4-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** (size) 2=0-3-8, 18=0-8-0, 11=0-8-0
Max Horz 2=-129(LC 17)
Max Uplift 2=-247(LC 8), 18=-601(LC 8), 11=-289(LC 13)
Max Grav 2=358(LC 25), 18=1907(LC 2), 11=1065(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-284/926, 5-6=-575/188, 6-7=-977/272, 7-8=-1056/322, 8-9=-1298/376, 9-11=-1428/382
BOT CHORD 16-18=-874/359, 15-16=-96/515, 13-15=-84/798, 11-13=-236/1222
WEBS 3-19=-137/263, 3-18=-992/565, 5-18=-1404/436, 5-16=-373/1626, 6-16=-710/222, 6-15=-121/545, 7-15=-377/188, 8-15=-129/377, 8-13=-169/581, 9-13=-298/242

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; 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 Zone3 -1-6-0 to 2-5-3, Zone1 2-5-3 to 25-8-0, Zone2 25-8-0 to 31-2-12, Zone1 31-2-12 to 40-10-0 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) 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=247, 18=601, 11=289.

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Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 7,2024




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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | ANDERSON RES. |
|---|---|---|---|---|---|
| 3908009 | T02G | GABLE | 1 | 1 | T33156912 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 6 14:41:58 2024 Page 1
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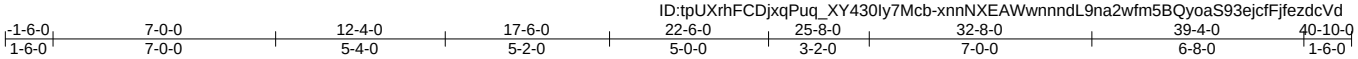


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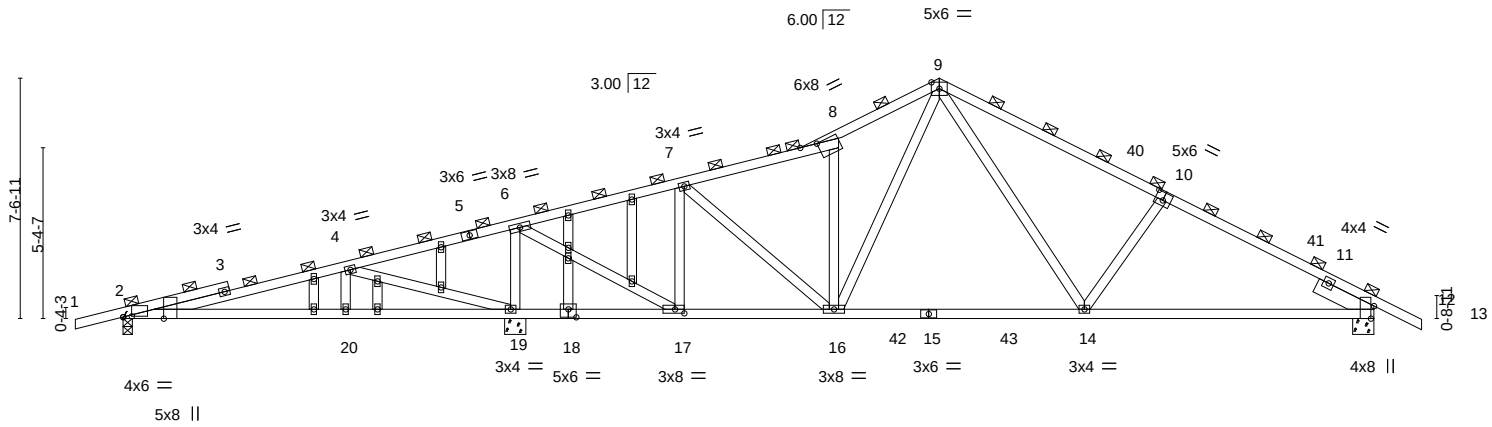


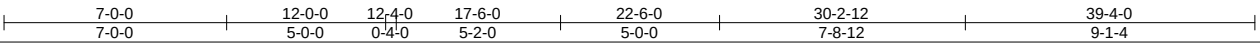


Plate Offsets (X,Y)-- [2:0-0-9,Edge], [2:0-3-4,0-0-5], [8:0-6-5,Edge], [10:0-3-0,0-3-0], [12:0-4-12,Edge], [17:0-3-8,0-1-8], [18:0-3-0,0-3-0]

| 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 | 0.79 | Vert(LL) | -0.20 | 14-16 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.80 | Vert(CT) | -0.32 | 14-16 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.68 | Horz(CT) | 0.04 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 223 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
SLIDER Right 2x6 SP No.2 1-11-8

**BRACING-**
TOP CHORD 2-0-0 oc purlins (3-5-15 max.).
BOT CHORD Rigid ceiling directly applied or 5-7-0 oc bracing.

**REACTIONS.** (size) 2=0-3-8, 12=0-8-0, 19=0-8-0
Max Horz 2=-129(LC 17)
Max Uplift 2=-232(LC 8), 12=-288(LC 13), 19=-625(LC 8)
Max Grav 2=330(LC 25), 12=1055(LC 2), 19=1938(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-6=-403/1120, 6-7=-584/186, 7-8=-997/275, 8-9=-1107/338, 9-10=-1278/373, 10-12=-1407/379
BOT CHORD 17-19=-1061/448, 16-17=-83/515, 14-16=-77/778, 12-14=-233/1205
WEBS 4-19=-1032/596, 6-19=-1465/462, 6-17=-418/1774, 7-17=-723/232, 7-16=-147/582, 8-16=-446/208, 9-16=-140/425, 9-14=-169/582, 10-14=-299/242

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; 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 Zone3 -1-6-0 to 2-2-3, Zone1 2-2-3 to 25-8-0, Zone2 25-8-0 to 31-2-12, Zone1 31-2-12 to 40-10-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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 100 lb uplift at joint(s) except (jt=lb) 2=232, 12=288, 19=625.
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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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 7,2024




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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | ANDERSON RES. |
|---|---|---|---|---|---|
| 3908009 | T03 | Roof Special | 5 | 1 | T33156913 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 6 14:42:00 2024 Page 1
ID:tpUXrhFCDjxqPuq_XY430ly7Mcb-t9v7xvCmSP1VsfJAiTz7rWHmTcFbdyo03zkpkWzdcVb

| 1-6-0 | 7-0-0 | 12-4-0 | 17-6-0 | 22-6-0 | 28-8-0 | 34-2-12 | 39-3-0 | 45-4-0 | 46-10-0 |
|---|---|---|---|---|---|---|---|---|---|
| 1-6-0 | 7-0-0 | 5-4-0 | 5-2-0 | 5-0-0 | 6-2-0 | 5-6-12 | 5-0-4 | 6-1-0 | 1-6-0 |

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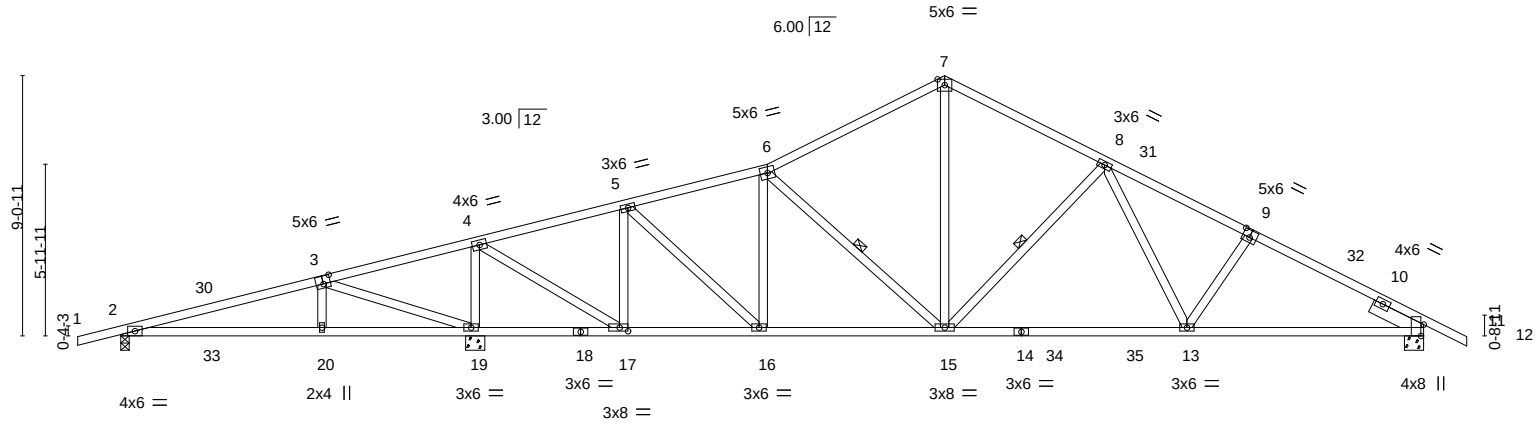


| 7-0-0 | 12-4-0 | 17-6-0 | 22-6-0 | 28-8-0 | 37-1-3 | 45-4-0 |
|---|---|---|---|---|---|---|
| 7-0-0 | 5-4-0 | 5-2-0 | 5-0-0 | 6-2-0 | 8-5-3 | 8-2-13 |

Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [9:0-3-0,0-3-0], [11:0-4-12,Edge], [17:0-3-8,0-1-8]

| 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 | 0.79 | Vert(LL) | -0.26 | 13-15 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.89 | Vert(CT) | -0.45 | 13-15 | >885 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.76 | Horz(CT) | 0.07 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 247 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 *Except* |
| | 9-12: 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.3 |
| SLIDER | Right 2x6 SP No.2 1-11-8 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 2-5-14 oc purlins. |
| BOT CHORD | Rigid ceiling directly applied or 5-7-8 oc bracing. |
| WEBS | 1 Row at midpt 6-15, 8-15 |

**REACTIONS.** (size) 2=0-3-8, 19=0-8-0, 11=0-8-0
Max Horz 2=-154(LC 17)
Max Uplift 2=-250(LC 8), 19=-606(LC 8), 11=-347(LC 13)
Max Grav 2=324(LC 25), 19=2179(LC 2), 11=1305(LC 2)

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

| | |
|---|---|
| TOP CHORD | 2-3=-100/323, 3-4=-298/1120, 4-5=-704/226, 5-6=-1262/340, 6-7=-1245/375, 7-8=-1245/359, 8-9=-1771/476, 9-11=-1876/475 |
| BOT CHORD | 2-20=-284/154, 19-20=-285/154, 17-19=-1063/373, 16-17=-153/647, 15-16=-243/1206, 13-15=-200/1403, 11-13=-315/1599 |
| WEBS | 3-20=-141/266, 3-19=-997/563, 4-19=-1683/500, 4-17=-457/2000, 5-17=-865/267, 5-16=-169/745, 6-16=-360/144, 6-15=-276/166, 7-15=-198/810, 8-15=-521/271, 8-13=-78/390 |

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; 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 Zone3 -1-6-0 to 3-0-6, Zone1 3-0-6 to 28-8-0, Zone2 28-8-0 to 35-0-15, Zone1 35-0-15 to 46-10-0 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) 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=250, 19=606, 11=347.

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Date:

March 7,2024




MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | ANDERSON RES. |
|---|---|---|---|---|---|
| 3908009 | T03G | GABLE | 1 | 1 | T33156914 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 6 14:42:02 2024 Page 1
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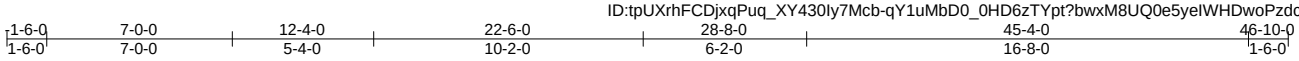


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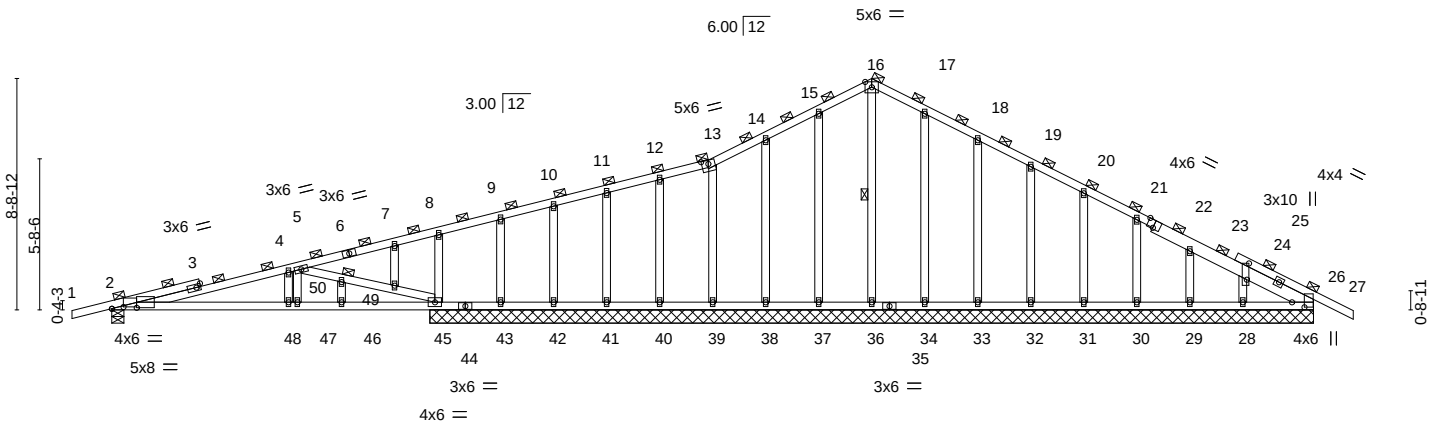



Plate Offsets (X,Y)-- [2:0-11-4,0-0-7], [2:0-5-4,0-0-13], [13:0-3-0,0-1-10], [22:0-3-0,Edge], [25:0-7-6,0-1-0], [26:0-2-4,0-5-10]

| 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 | 0.69 | Vert(LL) | 0.12 | 2-48 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.46 | Vert(CT) | -0.16 | 2-48 | >929 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.36 | Horz(CT) | 0.02 | 26 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-S | | | | | | | Weight: 284 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 *Except* |
| | 22-26: 2x6 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.3 |
| OTHERS | 2x4 SP No.3 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | 2-0-0 oc purlins (4-9-4 max.). |
| BOT CHORD | Rigid ceiling directly applied or 6-0-0 oc bracing, Except: |
| | 7-8-9 oc bracing: 2-48 |
| | 7-10-7 oc bracing: 47-48 |
| | 7-10-5 oc bracing: 46-47 |
| | 8-1-3 oc bracing: 45-46. |
| WEBS | 1 Row at midpt 16-36 |
| JOINTS | 1 Brace at Jt(s): 13, 16, 50 |

**REACTIONS.** All bearings 33-4-0 except (jt=length) 2=0-5-8.
(lb) - Max Horz 45=-146(LC 17)
Max Uplift All uplift 100 lb or less at joint(s) 36, 37, 38, 39, 40, 41, 42, 43, 34, 33, 32, 31, 30, 29, 28, 26 except 2=-292(LC 8), 45=-324(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 37, 38, 39, 40, 41, 42, 43, 34, 33, 32, 31, 30, 29, 28, 26 except 2=488(LC 1), 36=346(LC 1), 45=574(LC 1)

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

| | |
|---|---|
| TOP CHORD | 2-4=-794/594, 4-5=-775/644, 13-14=-27/285, 14-15=-23/295, 15-16=-41/293, 16-17=-41/287, 17-18=-31/274, 18-19=-58/270, 19-20=-84/271, 20-21=-143/270, 21-23=-209/275, 23-25=-260/264, 25-26=-326/267 |
| BOT CHORD | 2-48=-527/746, 47-48=-527/746, 46-47=-527/746, 45-46=-527/746, 43-45=-222/356, 42-43=-222/356, 41-42=-222/356, 40-41=-222/356, 39-40=-222/356, 38-39=-223/359, 37-38=-223/359, 36-37=-223/359, 34-36=-223/359, 33-34=-223/359, 32-33=-223/359, 31-32=-223/359, 30-31=-223/359, 29-30=-223/359, 28-29=-223/359, 26-28=-221/353 |
| WEBS | 16-36=-306/15, 5-47=-337/375, 5-50=-997/905, 49-50=-992/900, 45-49=-1024/930 |

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; 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 Zone3 zone; 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) 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.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 36, 37, 38, 39, 40, 41, 42, 43, 34, 33, 32, 31, 30, 29, 28, 26 except (jt=lb) 2=292, 45=324.

Continued on page 2

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Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 7,2024



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**NOTES-**

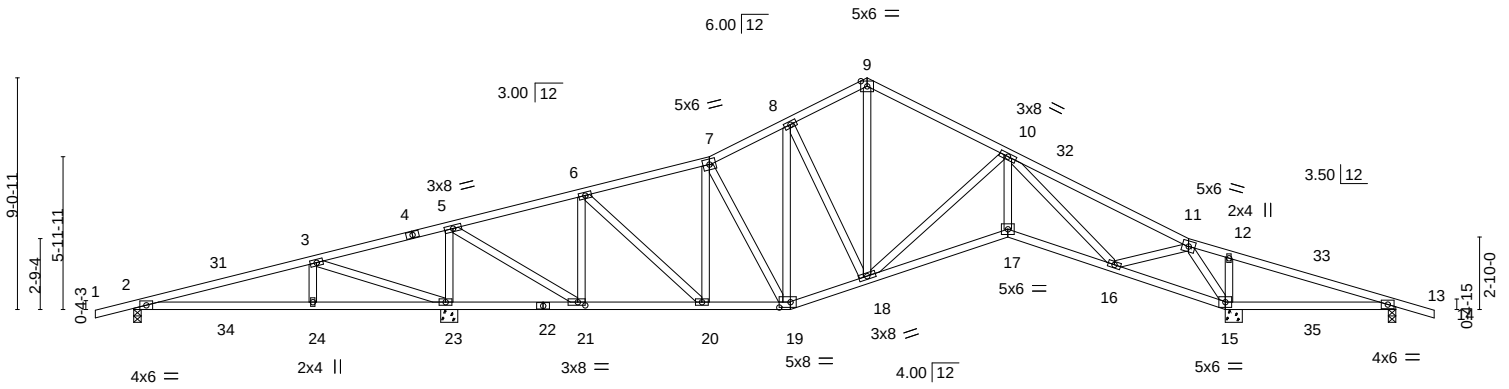
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

| Job | Truss | Truss Type | Qty | Ply | ANDERSON RES. T33156915 |
|---|---|---|---|---|---|
| 3908009 | T04 | ROOF SPECIAL | 9 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 6 14:42:04 2024 Page 1
ID:tpUXrhFCDjxqPuq_XY430ly7Mcb-mx9enHFHWdXwLGdxxI13?MRUADjPZiAb_bi1tHzdcVX

| 1-6-0 | 7-0-0 | 12-4-0 | 17-6-0 | 22-6-0 | 25-8-0 | 28-8-0 | 34-2-0 | 41-2-13 | 42-8-0 | 49-4-0 | 50-10-0 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-6-0 | 7-0-0 | 5-4-0 | 5-2-0 | 5-0-0 | 3-2-0 | 3-0-0 | 5-6-0 | 7-0-13 | 1-5-3 | 6-8-0 | 1-6-0 |

Scale = 1:90.1




| 7-0-0 | 12-4-0 | 17-6-0 | 22-6-0 | 25-8-0 | 28-8-0 | 34-2-0 | 38-4-0 | 42-8-0 | 43-0-0 | 49-4-0 |
|---|---|---|---|---|---|---|---|---|---|---|
| 7-0-0 | 5-4-0 | 5-2-0 | 5-0-0 | 3-2-0 | 3-0-0 | 5-6-0 | 4-2-0 | 4-4-0 | 0-4-0 | 6-4-0 |

Plate Offsets (X,Y)-- [19:0-5-4,0-2-8], [21:0-3-8,0-1-8]

| 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 | 0.68 | Vert(LL) | 0.11 | 24-27 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.45 | Vert(CT) | -0.19 | 17-18 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.99 | Horz(CT) | 0.10 | 15 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 279 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 5-2-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-6-1 oc bracing.

**REACTIONS.** All bearings 0-3-8 except (jt=length) 15=0-8-0, 23=0-8-0.
(lb) - Max Horz 2=-152(LC 17)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-254(LC 8), 15=-423(LC 13), 13=-234(LC 9), 23=-590(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 13 except 2=342(LC 25), 15=1665(LC 1), 23=1829(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-273/918, 5-6=-551/204, 6-7=-940/289, 7-8=-941/320, 8-9=-912/315, 9-10=-956/306, 10-11=-863/241, 11-12=-147/944, 12-13=-175/992
BOT CHORD 21-23=-860/364, 20-21=-138/502, 19-20=-199/883, 18-19=-158/867, 17-18=-232/1585, 16-17=-232/1583, 15-16=-320/91, 13-15=-897/198
WEBS 3-24=-143/266, 3-23=-928/563, 5-23=-1434/466, 5-21=-414/1593, 6-21=-728/246, 6-20=-136/507, 7-20=-253/116, 9-18=-180/577, 10-18=-959/286, 10-17=-118/1077, 10-16=-1170/218, 11-16=-129/1050, 11-15=-1264/307, 12-15=-333/207

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; 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 Zone3 -1-6-0 to 3-5-3, Zone1 3-5-3 to 28-8-0, Zone2 28-8-0 to 35-7-12, Zone1 35-7-12 to 50-10-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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 3x6 MT20 unless otherwise indicated.
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 254 lb uplift at joint 2, 423 lb uplift at joint 15, 234 lb uplift at joint 13 and 590 lb uplift at joint 23.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 7,2024



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| Job | Truss | Truss Type | Qty | Ply | ANDERSON RES. |
|---|---|---|---|---|---|
| 3908009 | T04G | GABLE | 1 | 1 | T33156916 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 6 14:42:06 2024 Page 1
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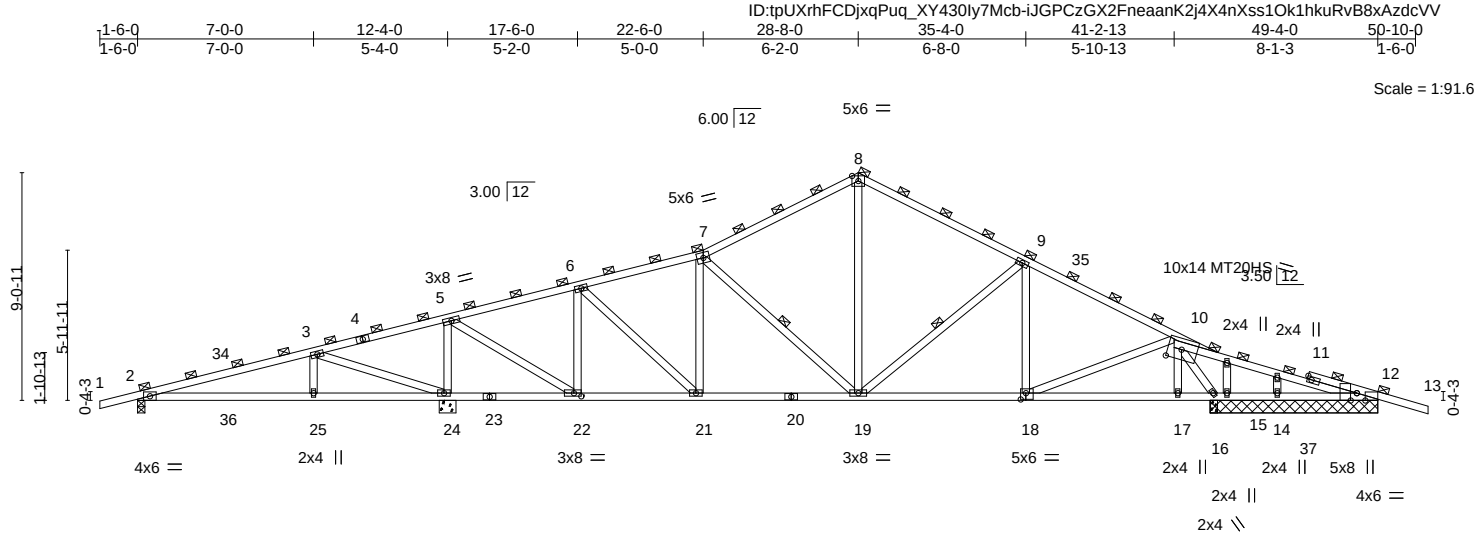


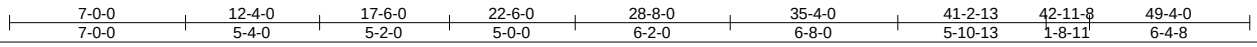


Plate Offsets (X,Y)-- [10:0-6-8,0-4-12], [12:0-3-8,Edge], [12:0-4-1,Edge], [18:0-2-8,0-3-0], [22:0-3-8,0-1-8]

| 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 | 0.54 | Vert(LL) | 0.11 | 25-33 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.45 | Vert(CT) | -0.13 | 25-33 | >999 | 180 | MT20HS | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.60 | Horz(CT) | 0.02 | 16 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 272 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 2-0-0 oc purlins (4-8-4 max.).
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-19, 9-19

**REACTIONS.** All bearings 6-8-0 except (jt=length) 2=0-3-8, 24=0-8-0, 16=0-3-8, 16=0-3-8.
(lb) - Max Horz 2=-158(LC 17)
Max Uplift All uplift 100 lb or less at joint(s) except 12=-170(LC 9), 2=-256(LC 8), 24=-585(LC 8), 14=-141(LC 9), 15=-212(LC 1), 16=-463(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 12, 14, 15, 12 except 2=365(LC 25), 24=1829(LC 1), 16=1505(LC 1), 16=1505(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-257/266, 3-5=-250/770, 5-6=-694/230, 6-7=-1096/314, 7-8=-989/332, 8-9=-1007/310, 9-10=-1216/326, 10-12=-159/572
BOT CHORD 22-24=-717/337, 21-22=-155/640, 19-21=-225/1036, 18-19=-143/1010, 15-16=-511/200, 14-15=-511/200, 12-14=-511/200
WEBS 3-25=-143/264, 3-24=-920/563, 5-24=-1434/467, 5-22=-411/1587, 6-22=-731/243, 6-21=-143/527, 7-19=-334/179, 8-19=-145/514, 9-19=-308/205, 10-18=-205/951, 10-16=-1434/398

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; 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 Zone3 -1-6-0 to 3-5-3, Zone1 3-5-3 to 28-8-0, Zone2 28-8-0 to 35-7-12, Zone1 35-7-12 to 51-4-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are MT20 plates unless otherwise indicated.
6) All plates are 3x6 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.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 170 lb uplift at joint 12, 256 lb uplift at joint 2, 585 lb uplift at joint 24, 141 lb uplift at joint 14, 212 lb uplift at joint 15, 463 lb uplift at joint 16 and 170 lb uplift at joint 12.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

March 7,2024




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| Job | Truss | Truss Type | Qty | Ply | ANDERSON RES. T33156917 |
|---|---|---|---|---|---|
| 3908009 | T05 | Roof Special | 7 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 6 14:42:08 2024 Page 1
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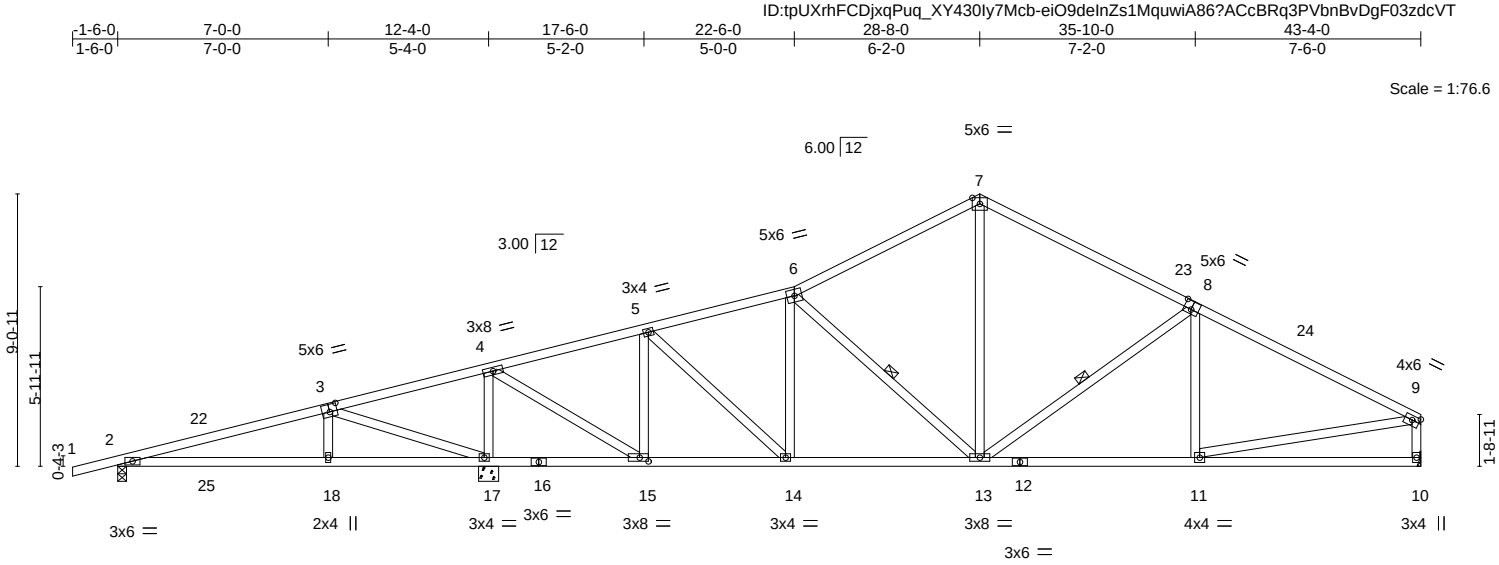


Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [8:0-3-0,0-3-4], [9:Edge,0-1-12], [15:0-3-8,0-1-8]

| 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 | 0.60 | Vert(LL) | 0.11 | 18-21 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.57 | Vert(CT) | -0.17 | 10-11 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.63 | Horz(CT) | 0.03 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 240 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 3-11-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-13, 8-13

**REACTIONS.** (size) 2=0-3-8, 17=0-8-0, 10=Mechanical
Max Horz 2=189(LC 12)
Max Uplift 2=-248(LC 8), 17=-602(LC 8), 10=-275(LC 13)
Max Grav 2=358(LC 25), 17=1884(LC 1), 10=1059(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-282/815, 4-5=-715/209, 5-6=-1150/312, 6-7=-1064/343, 7-8=-1089/345, 8-9=-1410/363, 9-10=-989/329
BOT CHORD 2-18=-253/200, 17-18=-252/198, 15-17=-761/313, 14-15=-186/660, 13-14=-266/1090, 11-13=-249/1191
WEBS 3-18=-140/264, 3-17=-920/563, 4-17=-1488/485, 4-15=-435/1662, 5-15=-770/256, 5-14=-171/572, 6-14=-276/147, 6-13=-323/169, 7-13=-149/558, 8-13=-425/244, 9-11=-203/1094

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; 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 Zone3 -1-6-0 to 2-10-0, Zone1 2-10-0 to 28-8-0, Zone2 28-8-0 to 34-9-9, Zone1 34-9-9 to 43-2-4 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) 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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 248 lb uplift at joint 2, 602 lb uplift at joint 17 and 275 lb uplift at joint 10.

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Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 7,2024



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| Job | Truss | Truss Type | Qty | Ply | ANDERSON RES. |
|---|---|---|---|---|---|
| 3908009 | T05G | GABLE | 1 | 1 | T33156918 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 6 14:42:10 2024 Page 1
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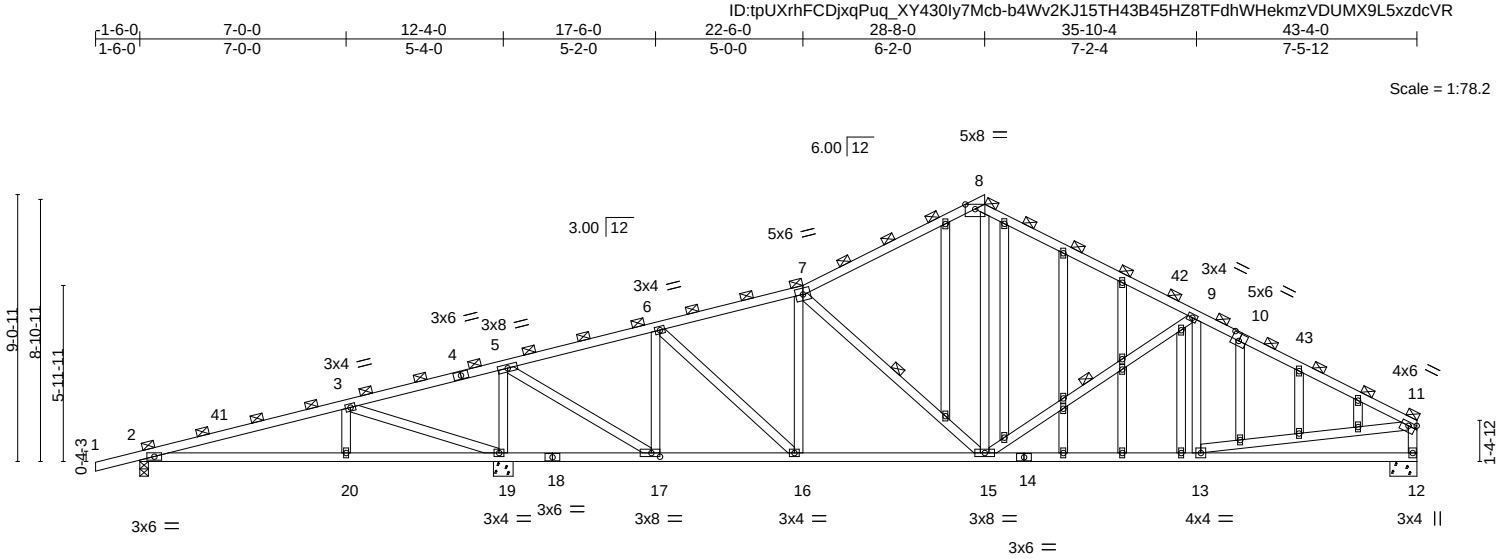


Plate Offsets (X,Y)-- [10:0-3-0,0-3-0], [11:0-3-0,0-1-8], [17:0-3-8,0-1-8]

| 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 | 0.64 | Vert(LL) | -0.08 | 12-13 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.58 | Vert(CT) | -0.16 | 12-13 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.64 | Horz(CT) | 0.03 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 294 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 2-0-0 oc purlins (3-10-14 max.), except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-15, 9-15

**REACTIONS.** (size) 2=0-3-8, 19=0-8-0, 12=0-11-0
Max Horz 2=180(LC 12)
Max Uplift 2=-160(LC 8), 19=-556(LC 12), 12=-276(LC 13)
Max Grav 2=355(LC 25), 19=1890(LC 1), 12=1057(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-280/833, 5-6=-704/212, 6-7=-1143/331, 7-8=-1062/347, 8-9=-1117/370, 9-11=-1500/400, 11-12=-987/342
BOT CHORD 17-19=-778/201, 16-17=-178/650, 15-16=-257/1083, 13-15=-272/1272
WEBS 3-20=0/264, 3-19=-923/331, 5-19=-1494/483, 5-17=-434/1671, 6-17=-774/255, 6-16=-129/575, 7-16=-279/121, 7-15=-316/166, 8-15=-161/576, 9-15=-486/268, 11-13=-234/1133

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; 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 Zone3 -1-6-0 to 2-10-0, Zone1 2-10-0 to 28-6-1, Zone2 28-6-1 to 34-7-9, Zone1 34-7-9 to 43-2-4 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.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 160 lb uplift at joint 2, 556 lb uplift at joint 19 and 276 lb uplift at joint 12.
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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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 7,2024




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| Job | Truss | Truss Type | Qty | Ply | ANDERSON RES. |
|---|---|---|---|---|---|
| 3908009 | T06 | Common | 2 | 1 | T33156919 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 6 14:42:11 2024 Page 1
ID:tpUXrhFCDjxqPuq_XY430ly7Mcb-3H4IFgKgsnPxhLfHrGfinqEjh26hi4kdbBuvdOzdcVQ

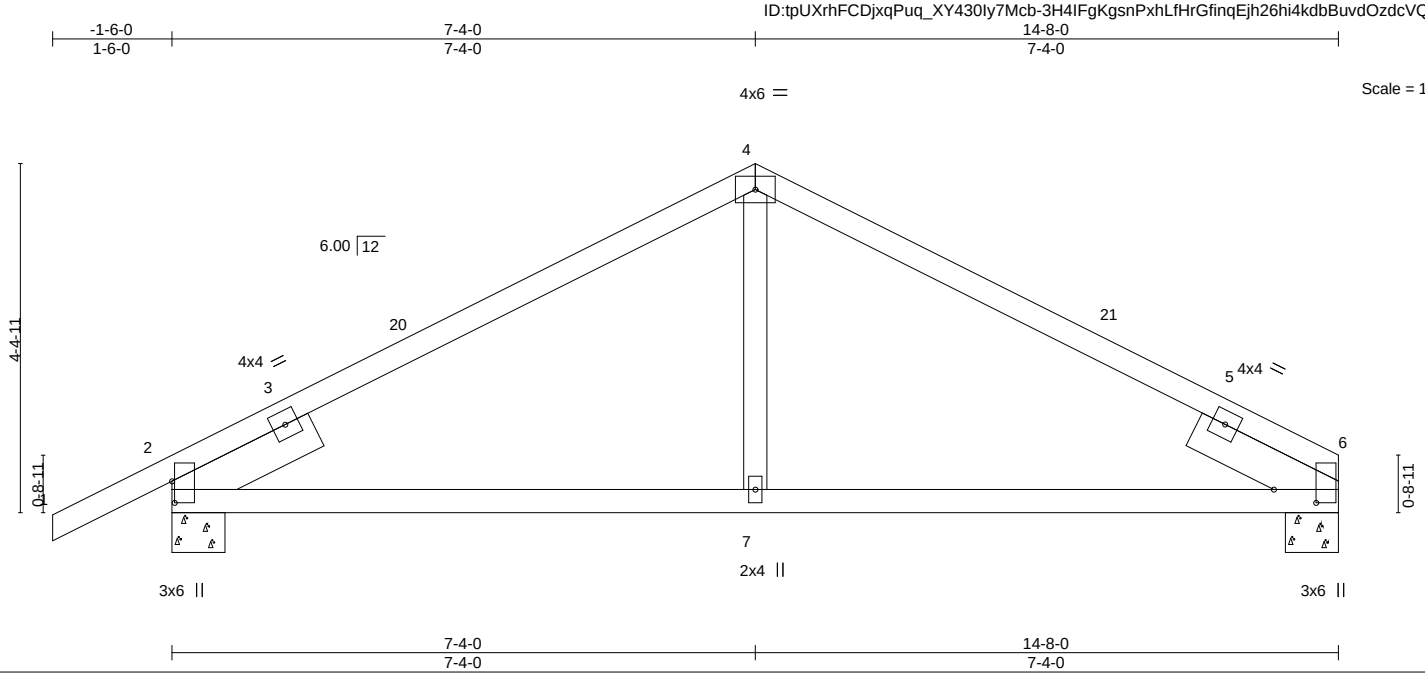


Plate Offsets (X,Y)-- [2:0-0-0,0-0-0], [2:0-3-4,0-0-6], [6:0-2-0,0-6-6]

| 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 | 0.47 | Vert(LL) | -0.07 | 7-12 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.40 | Vert(CT) | -0.10 | 7-12 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.11 | Horz(CT) | 0.02 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 64 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

**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) 6=0-8-0, 2=0-8-0
Max Horz 2=86(LC 12)
Max Uplift 6=-138(LC 13), 2=-178(LC 12)
Max Grav 6=536(LC 1), 2=630(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-615/218, 4-6=-574/228
BOT CHORD 2-7=-102/487, 6-7=-102/487
WEBS 4-7=-2/282

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; 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 Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 7-4-0, Zone2 7-4-0 to 11-6-15, Zone1 11-6-15 to 14-8-0 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 138 lb uplift at joint 6 and 178 lb uplift at joint 2.

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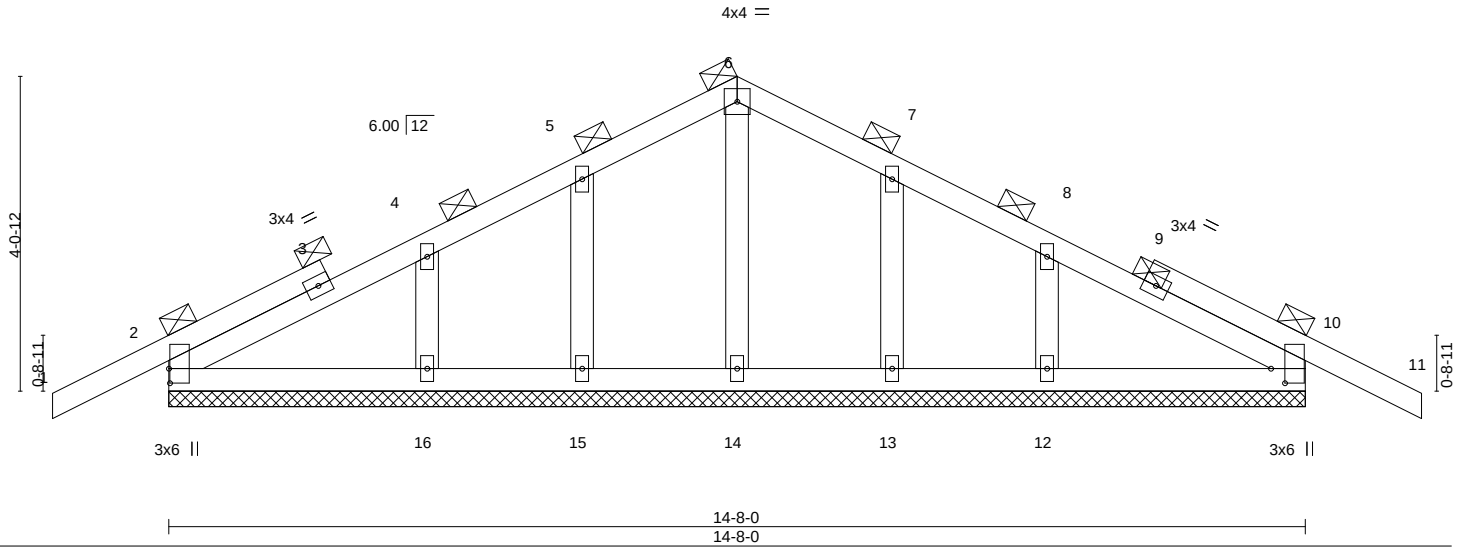
| Job | Truss | Truss Type | Qty | Ply | ANDERSON RES. T33156920 |
|---|---|---|---|---|---|
| 3908009 | T06G | Common Supported Gable | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 6 14:42:12 2024 Page 1
ID:tpUXrhFCDjxqPuq_XY430ly7Mcb-XTegT0LId5XoIVETP_BxK2n_nSX7RY_nqreS9qzdcVP

-1-6-0 / 1-6-0 | 7-4-0 / 7-4-0 | 14-8-0 / 7-4-0

Scale = 1:29.7




14-8-0 / 14-8-0

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

| 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 | 0.13 | Vert(LL) | -0.00 | 11 | n/r | 120 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.07 | Vert(CT) | -0.00 | 11 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.04 | Horz(CT) | 0.00 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-S | | | | | | | Weight: 75 lb | FT = 20% |

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

**BRACING-**
TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** All bearings 14-8-0.
(lb) - Max Horz 2=-68(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 16, 13, 12
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

**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 7-22; 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 Zone3 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, 10, 15, 16, 13, 12.
11) 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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| Job | Truss | Truss Type | Qty | Ply | ANDERSON RES. |
|---|---|---|---|---|---|
| 3908009 | T07 | Common Girder | 1 | 2 | T33156921 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Wed Mar 6 14:42:14 2024 Page 1
ID:tpUXrhFCDjxqPuq_XY430ly7Mcb-TslQtiMY9ioWYpOsWPDPPTsIgFB5uHU4H97ZEizdcVN

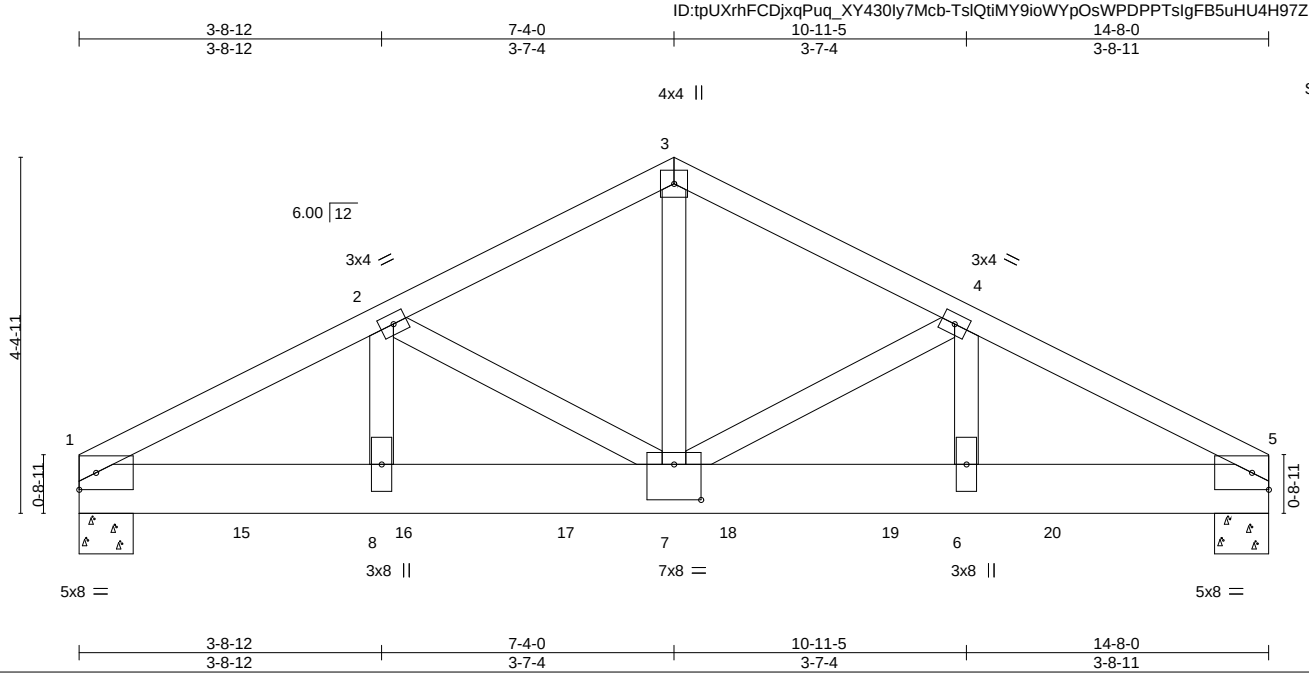


Plate Offsets (X,Y)-- [7:0-4-0,0-5-4]

| 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 | 0.23 | Vert(LL) | -0.06 | 7-8 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.23 | Vert(CT) | -0.11 | 7-8 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.75 | Horz(CT) | 0.02 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 183 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-0-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=0-8-0, 5=0-8-0
Max Horz 1=61(LC 29)
Max Uplift 1=-1012(LC 8), 5=-949(LC 9)
Max Grav 1=3774(LC 1), 5=3543(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-5982/1601, 2-3=-4690/1275, 3-4=-4690/1275, 4-5=-5851/1567
BOT CHORD 1-8=-1445/5297, 7-8=-1445/5297, 6-7=-1352/5178, 5-6=-1352/5178
WEBS 3-7=-1042/3925, 4-7=-1192/390, 4-6=-250/1012, 2-7=-1331/426, 2-8=-284/1135

**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: 2x8 - 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) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; 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=1012, 5=949.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1039 lb down and 295 lb up at 2-0-12, 1039 lb down and 295 lb up at 4-0-12, 1039 lb down and 295 lb up at 6-0-12, 1039 lb down and 295 lb up at 8-0-12, and 1039 lb down and 295 lb up at 10-0-12, and 1039 lb down and 295 lb up at 12-0-12 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

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Continued on page 2



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**LOAD CASE(S)** Standard

Uniform Loads (plf)

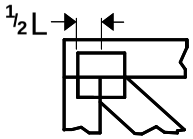
Vert: 1-3=-54, 3-5=-54, 9-12=-20

Concentrated Loads (lb)

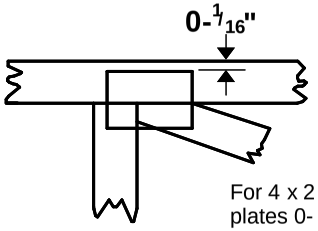
Vert: 15=-1039(F) 16=-1039(F) 17=-1039(F) 18=-1039(F) 19=-1039(F) 20=-1039(F)

# Symbols

## PLATE LOCATION AND ORIENTATION




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




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

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

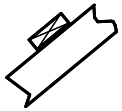
* Plate location details available in MiTek software or upon request.

## PLATE SIZE

4 x 4

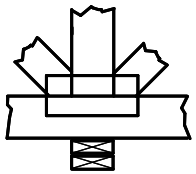
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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

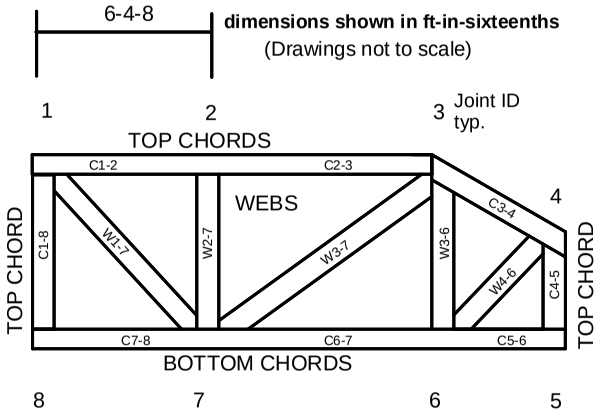


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

**Industry Standards:**

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & 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-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

# Design General Notes

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

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



MiTek®



# 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.