MiTek

COLUMBIA COUNTY BUILDING DEPARTMENT
REVIEWED FOR CODE COMPLIANCE
FIELD COPY
PLANS EXAMINER

FP 26

RE: 613090
2169-A-Tray Frame

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

**Site Information:**

Customer: Adams Homes-Gainesville
Lot/Block: 26
Address: NW Oakmont Way
City: Lake City
Project Name: 613090
Model: 2169-A-Tray
Subdivision: Forest Plantation,
State: FI

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

Design Code: FBC2020/TPI2014
Wind Code: N/A
Roof Load: 37.0 psf
Design Program: MiTek 20/20 8.5
Wind Speed: 130 mph
Floor Load: N/A psf

This package includes 54 individual, dated Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

| No. | Seal# | Truss Name | Date | No. | Seal# | Truss Name | Date |
|---|---|---|---|---|---|---|---|
| 1 | T23820457 | A01 | 5/4/2021 | 21 | T23820477 | A21 | 5/4/2021 |
| 2 | T23820458 | A02 | 5/4/2021 | 22 | T23820478 | A22 | 5/4/2021 |
| 3 | T23820459 | A03 | 5/4/2021 | 23 | T23820479 | A23 | 5/4/2021 |
| 4 | T23820460 | A04 | 5/4/2021 | 24 | T23820480 | B01 | 5/4/2021 |
| 5 | T23820461 | A05 | 5/4/2021 | 25 | T23820481 | C1 | 5/4/2021 |
| 6 | T23820462 | A06 | 5/4/2021 | 26 | T23820482 | C3 | 5/4/2021 |
| 7 | T23820463 | A07 | 5/4/2021 | 27 | T23820483 | C3A | 5/4/2021 |
| 8 | T23820464 | A08 | 5/4/2021 | 28 | T23820484 | C3T | 5/4/2021 |
| 9 | T23820465 | A09 | 5/4/2021 | 29 | T23820485 | C5 | 5/4/2021 |
| 10 | T23820466 | A10 | 5/4/2021 | 30 | T23820486 | C5A | 5/4/2021 |
| 11 | T23820467 | A11 | 5/4/2021 | 31 | T23820487 | C5T | 5/4/2021 |
| 12 | T23820468 | A12 | 5/4/2021 | 32 | T23820488 | D01 | 5/4/2021 |
| 13 | T23820469 | A13 | 5/4/2021 | 33 | T23820489 | D02 | 5/4/2021 |
| 14 | T23820470 | A14 | 5/4/2021 | 34 | T23820490 | D03 | 5/4/2021 |
| 15 | T23820471 | A15 | 5/4/2021 | 35 | T23820491 | E4 | 5/4/2021 |
| 16 | T23820472 | A16 | 5/4/2021 | 36 | T23820492 | E7 | 5/4/2021 |
| 17 | T23820473 | A17 | 5/4/2021 | 37 | T23820493 | E7T | 5/4/2021 |
| 18 | T23820474 | A18 | 5/4/2021 | 38 | T23820494 | G01 | 5/4/2021 |
| 19 | T23820475 | A19 | 5/4/2021 | 39 | T23820495 | G02 | 5/4/2021 |
| 20 | T23820476 | A20 | 5/4/2021 | 40 | T23820496 | G03 | 5/4/2021 |

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc under my direct supervision based on the parameters provided by Tibbetts Lumber Co., LLC.

Truss Design Engineer's Name: ORegan, Philip
My license renewal date for the state of Florida is February 28, 2023.
Florida COA: 6634

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

PHILIP J. O'REGAN
LICENSE
No 58126
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: May 04, 2021

ORegan, Philip

RE: 613090 - 2169-A-Tray Frame

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

**Site Information:**

Project Customer: Adams Homes-Gainesville Project Name: 613090
Lot/Block: 26 Subdivision: Forest Plantation,
Address: NW Oakmont Way
City, County: Lake City State: Fl

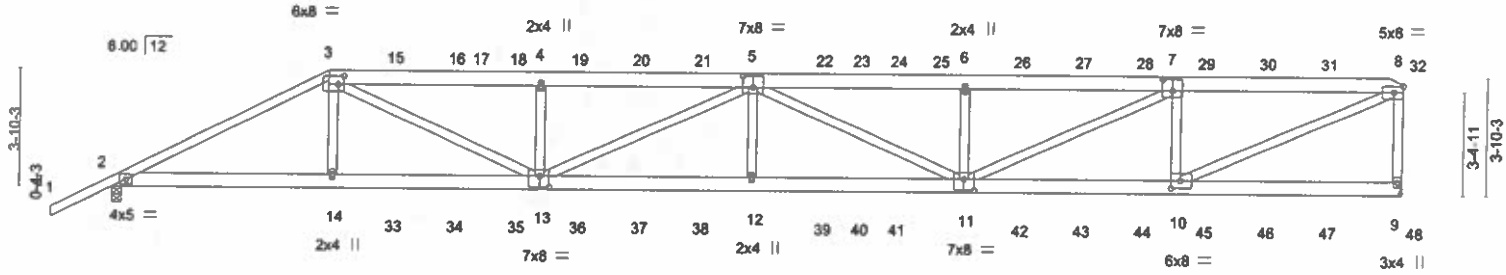
| No. | Seal# | Truss Name | Date |
|---|---|---|---|
| 41 | T23820497 | G04 | 5/4/2021 |
| 42 | T23820498 | G05 | 5/4/2021 |
| 43 | T23820499 | G06 | 5/4/2021 |
| 44 | T23820500 | G07 | 5/4/2021 |
| 45 | T23820501 | H4 | 5/4/2021 |
| 46 | T23820502 | H5 | 5/4/2021 |
| 47 | T23820503 | H7 | 5/4/2021 |
| 48 | T23820504 | H7T | 5/4/2021 |
| 49 | T23820505 | PB1 | 5/4/2021 |
| 50 | T23820506 | PB2 | 5/4/2021 |
| 51 | T23820507 | PB3 | 5/4/2021 |
| 52 | T23820508 | PB4 | 5/4/2021 |
| 53 | T23820509 | PB5 | 5/4/2021 |
| 54 | T23820510 | PB6 | 5/4/2021 |

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | |
|---|---|---|---|---|---|---|
| 613090 | A01 | Hip Girder | 1 | 2 | Job Reference (optional) | T23820457 |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:31:30 2021 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbylAWH-s1Gx?lAr0m1aWBmZn2KsMdz9N5el3bIccQxa3qzJy3R

| -2-0-0 | 7-0-0 | 13-10-15 | 20-9-14 | 27-8-12 | 34-7-11 | 41-6-10 | 42-0-0 |
|---|---|---|---|---|---|---|---|
| 2-0-0 | 7-0-0 | 6-10-15 | 6-10-15 | 6-10-15 | 6-10-15 | 6-10-15 | 0-5-6 |

Scale = 1:74.1




| 7-0-0 | 13-10-15 | 20-9-14 | 27-8-12 | 34-7-11 | 42-0-0 |
|---|---|---|---|---|---|
| 7-0-0 | 6-10-15 | 6-10-15 | 6-10-15 | 6-10-15 | 7-4-5 |

Plate Offsets (X,Y)— [3:0-2-4,0-3-4], [5:0-4-0,0-4-8], [7:0-4-0,0-4-8], [10:0-3-8,0-3-0], [11:0-4-0,0-4-8], [13:0-3-12,0-4-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.68 | Vert(LL) | -0.37 | 12 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.66 | Vert(CT) | -0.70 | 11-12 | >715 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.79 | Horz(CT) | 0.12 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.25 | 12 | >999 | 240 | Weight: 550 lb | FT = 20% |

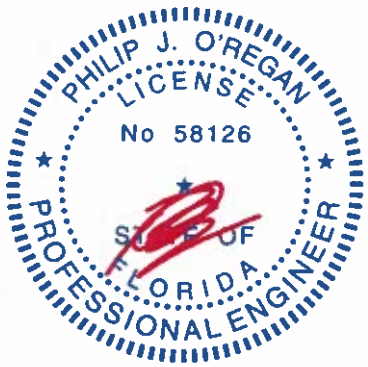
**LUMBER-**
TOP CHORD 2x6 SP No.2 *Except* 1-3: 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 11-13: 2x6 SP DSS
WEBS 2x4 SP No.2

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

**REACTIONS.** (size) 2=0-3-8, 9=Mechanical
Max Horz 2=116(LC 7)
Max Uplift 2=-297(LC 8), 9=-277(LC 8)
Max Grav 2=3135(LC 1), 9=3351(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-6302/483, 3-4=-9067/769, 4-5=-9065/768, 5-6=-9237/792, 6-7=-9237/792, 7-8=-5936/517, 8-9=-3168/368
BOT CHORD 2-14=-391/5561, 13-14=-385/5583, 12-13=-813/10325, 11-12=-813/10325, 10-11=-469/6041
WEBS 3-14=0/733, 3-13=-353/3958, 4-13=-836/288, 5-13=-1433/124, 5-12=0/655, 5-11=-1211/97, 6-11=-760/275, 7-11=-287/3575, 7-10=-2434/431, 8-10=-526/6463

**NOTES-**
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=277.
11) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
May 4,2021



MiTek
6904 Parke East Blvd.
Tampa, FL 36610

**NOTES-**

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 130 lb down and 81 lb up at 7-0-0, 111 lb down and 77 lb up at 9-0-12, 111 lb down and 77 lb up at 11-0-12, 111 lb down and 77 lb up at 13-0-12, 111 lb down and 77 lb up at 15-0-12, 111 lb down and 77 lb up at 17-0-12, 111 lb down and 77 lb up at 19-0-12, 111 lb down and 77 lb up at 21-0-12, 111 lb down and 77 lb up at 23-0-12, 111 lb down and 77 lb up at 24-3-5, 111 lb down and 77 lb up at 25-5-14, 111 lb down and 77 lb up at 27-5-14, 111 lb down and 77 lb up at 29-5-14, 111 lb down and 77 lb up at 31-5-14, 111 lb down and 77 lb up at 33-5-14, 111 lb down and 77 lb up at 35-5-14, 111 lb down and 77 lb up at 37-5-14, and 111 lb down and 77 lb up at 39-5-14, and 128 lb down and 73 lb up at 41-5-14 on top chord, and 312 lb down and 9 lb up at 7-0-0, 96 lb down at 9-0-12, 96 lb down at 11-0-12, 96 lb down at 13-0-12, 96 lb down at 15-0-12, 96 lb down at 17-0-12, 96 lb down at 19-0-12, 96 lb down at 21-0-12, 96 lb down at 23-0-12, 96 lb down at 24-3-5, 96 lb down at 25-5-14, 96 lb down at 27-5-14, 96 lb down at 29-5-14, 96 lb down at 31-5-14, 96 lb down at 33-5-14, 96 lb down at 35-5-14, 96 lb down at 37-5-14, and 96 lb down at 39-5-14, and 109 lb down at 41-5-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-54, 3-8=-54, 2-9=-20
   Concentrated Loads (lb)
   Vert: 3=-111(F) 14=-288(F) 5=-111(F) 12=-48(F) 11=-48(F) 6=-111(F) 15=-111(F) 16=-111(F) 18=-111(F) 19=-111(F) 20=-111(F) 21=-111(F) 22=-111(F) 23=-111(F) 24=-111(F) 26=-111(F) 27=-111(F) 28=-111(F) 29=-111(F) 30=-111(F) 31=-111(F) 32=-128(F) 33=-48(F) 34=-48(F) 35=-48(F) 36=-48(F) 37=-48(F) 38=-48(F) 39=-48(F) 40=-48(F) 41=-48(F) 42=-48(F) 43=-48(F) 44=-48(F) 45=-48(F) 46=-48(F) 47=-48(F) 48=-54(F)

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | |
|---|---|---|---|---|---|---|
| 613090 | A02 | HIP | 1 | 1 | Job Reference (optional) | T23820458 |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:31:32 2021 Page 1
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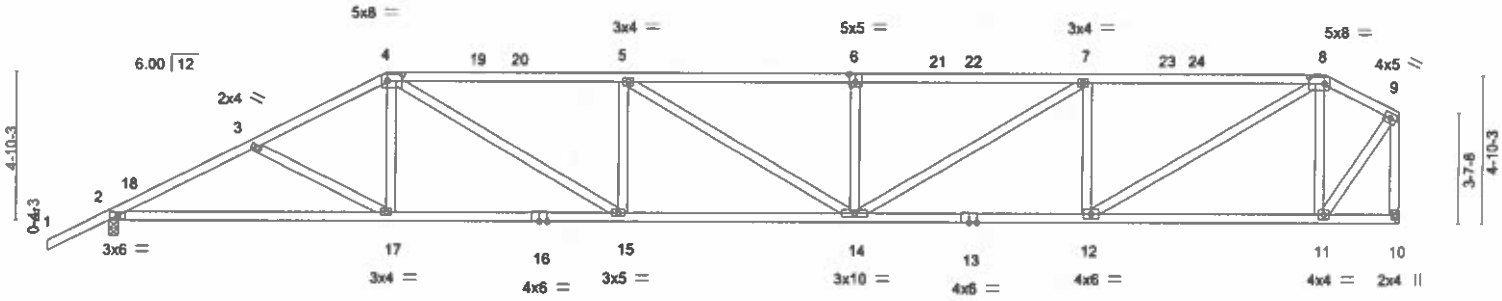
| -2-0-0 | 4-9-4 | 9-0-0 | 16-8-9 | 24-3-5 | 31-10-2 | 39-6-10 | 42-0-0 |
|---|---|---|---|---|---|---|---|
| 2-0-0 | 4-9-4 | 4-2-12 | 7-8-9 | 7-6-13 | 7-6-13 | 7-8-9 | 2-5-8 |

Scale = 1:74.1




| 9-0-0 | 16-8-9 | 24-3-5 | 31-10-2 | 39-6-10 | 42-0-0 |
|---|---|---|---|---|---|
| 9-0-0 | 7-8-9 | 7-6-13 | 7-6-13 | 7-8-9 | 2-5-8 |

Plate Offsets (X,Y)-- [4:0-6-0,0-2-8], [6:0-2-8,0-3-4], [8:0-6-0,0-2-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.50 | Vert(LL) | -0.29 | 14-15 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.99 | Vert(CT) | -0.58 | 14-15 | >861 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.54 | Horz(CT) | 0.15 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.17 | 14-15 | >999 | 240 | Weight: 230 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2 *Except* 4-6,6-8: 2x4 SP M 31
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

**REACTIONS.** (size) 2=0-3-8, 10=Mechanical
Max Horz 2=134(LC 11)
Max Uplift 2=-136(LC 12), 10=-73(LC 12)
Max Grav 2=1662(LC 1), 10=1540(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2941/254, 3-4=-2723/207, 4-5=-3446/290, 5-6=-3501/281, 6-7=-3501/281, 7-8=-2655/231, 8-9=-917/104, 9-10=-1545/124
BOT CHORD 2-17=-319/2553, 15-17=-219/2399, 14-15=-291/3446, 12-14=-224/2655, 11-12=-83/780
WEBS 4-17=0/385, 4-15=-105/1290, 5-15=-514/138, 6-14=-389/117, 7-14=-64/993, 7-12=-956/176, 8-12=-164/2183, 8-11=-990/169, 9-11=-109/1380

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 39-6-10, Exterior(2E) 39-6-10 to 41-10-4 zone; cantilever left and right exposed ; end vertical 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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10.
9) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.


Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
May 4,2021



MiTek
6904 Parke East Blvd.
Tampa, FL 33610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | |
|---|---|---|---|---|---|---|
| 613090 | A03 | Hip | 1 | 1 | Job Reference (optional) | T23820459 |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:31:35 2021 Page 1
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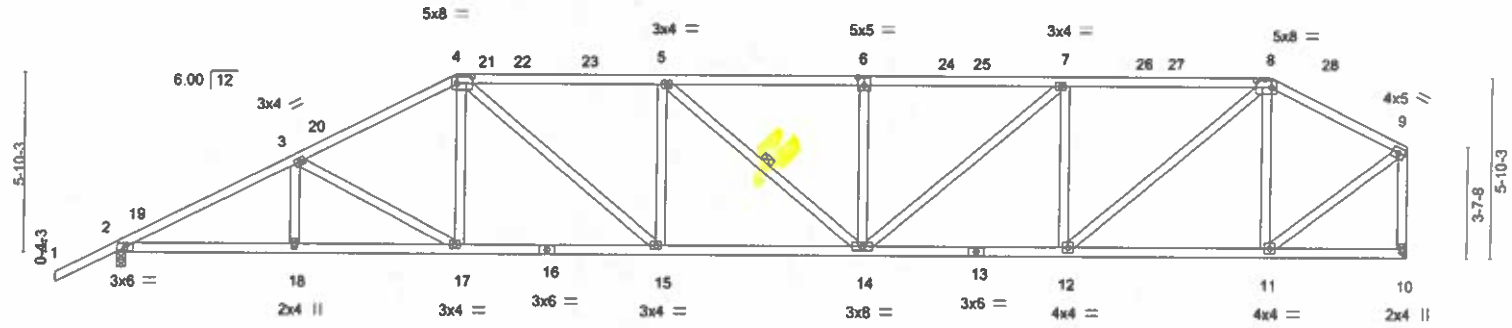
| -2-0-0 | 5-9-4 | 11-0-0 | 17-8-9 | 24-3-5 | 30-10-2 | 37-6-10 | 42-0-0 |
|---|---|---|---|---|---|---|---|
| 2-0-0 | 5-9-4 | 5-2-12 | 6-8-9 | 6-6-13 | 6-6-13 | 6-8-9 | 4-5-6 |

Scale = 1:74.1




| 5-9-4 | 11-0-0 | 17-8-9 | 24-3-5 | 30-10-2 | 37-6-10 | 42-0-0 |
|---|---|---|---|---|---|---|
| 5-9-4 | 5-2-12 | 6-8-9 | 6-6-13 | 6-6-13 | 6-8-9 | 4-5-6 |

Plate Offsets (X,Y)— [4:0-6-0,0-2-8], [6:0-2-8,0-3-0], [8:0-6-0,0-2-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.78 | Vert(LL) | -0.24 | 14-15 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.78 | Vert(CT) | -0.46 | 14-15 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.47 | Horz(CT) | 0.14 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.14 | 14-15 | >999 | 240 | Weight: 244 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-14

**REACTIONS.** (size) 2=0-3-8, 10=Mechanical
Max Horz 2=150(LC 11)
Max Uplift 2=-136(LC 12), 10=-73(LC 12)
Max Grav 2=1662(LC 1), 10=1540(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2977/218, 3-4=-2570/225, 4-5=-2863/268, 5-6=-2856/263, 6-7=-2856/263, 7-8=-2298/229, 8-9=-1298/143, 9-10=-1505/153
BOT CHORD 2-18=-280/2580, 17-18=-280/2580, 15-17=-211/2247, 14-15=-245/2863, 12-14=-199/2297, 11-12=-107/1100
WEBS 3-17=-389/78, 4-17=0/382, 4-15=-62/892, 5-15=-436/121, 6-14=-338/102, 7-14=-48/744, 7-12=-869/156, 8-12=-119/1573, 8-11=-722/138, 9-11=-106/1387

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 11-0-0, Exterior(2R) 11-0-0 to 15-2-15, Interior(1) 15-2-15 to 37-6-10, Exterior(2E) 37-6-10 to 41-10-4 zone; cantilever left and right exposed ; end vertical 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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10.
9) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.

PHILIP J. O'REGAN LICENSE No 58126 STATE OF FLORIDA PROFESSIONAL ENGINEER

Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
May 4,2021



MiTek
6904 Parke East Blvd.
Tampa, FL 33610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | |
|---|---|---|---|---|---|---|
| 613090 | A04 | ROOF SPECIAL | 1 | 1 | Job Reference (optional) | T23820460 |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:31:36 2021 Page 1
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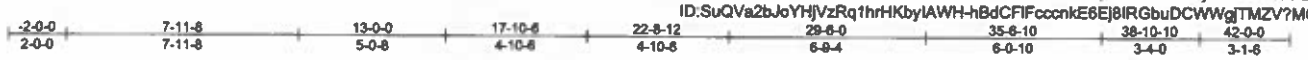


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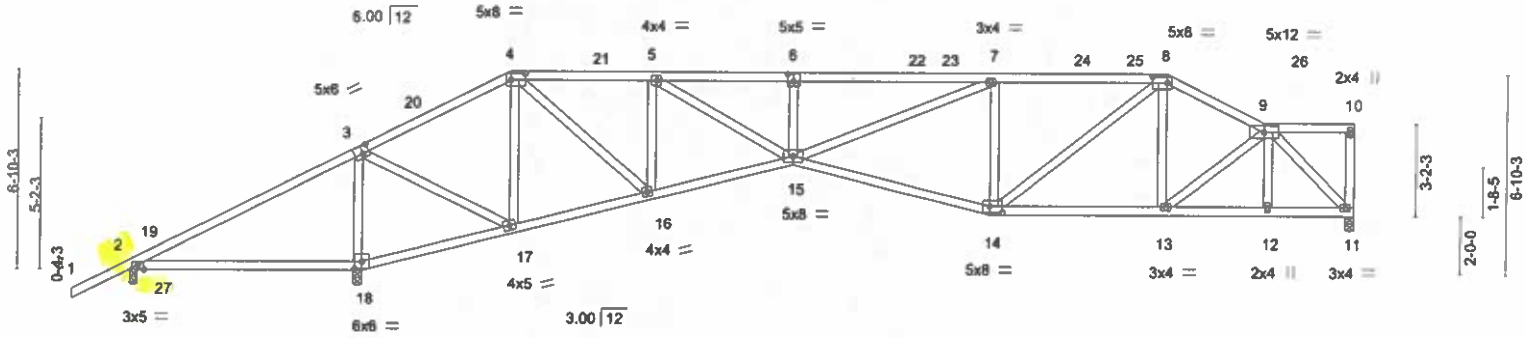


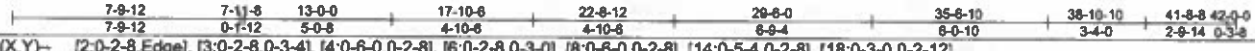




Plate Offsets (X,Y)-- [2:0-2-8,Edge], [3:0-2-8,0-3-4], [4:0-6-0,0-2-8], [6:0-2-8,0-3-0], [8:0-6-0,0-2-8], [14:0-5-4,0-2-8], [18:0-3-0,0-2-12]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.58 | Vert(LL) | -0.17 | 15 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.73 | Vert(CT) | -0.37 | 14-15 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.58 | Horz(CT) | 0.11 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.24 | 2-18 | >396 | 240 | Weight: 233 lb | FT = 20% |

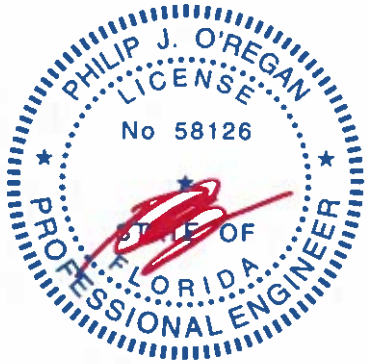
**LUMBER-**
TOP CHORD 2x4 SP No.2 *Except*
1-3: 2x4 SP M 31
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-3-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-6-5 oc bracing.

**REACTIONS.** (size) 11=0-3-8, 2=0-3-1, 18=0-3-8
Max Horz 2=145(LC 9)
Max Uplift 11=-50(LC 12), 2=-690(LC 22), 18=-200(LC 12)
Max Grav 11=1048(LC 1), 18=2628(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-265/1960, 4-5=-978/130, 5-6=-2333/207, 6-7=-2333/207, 7-8=-1667/194, 8-9=-1327/152
BOT CHORD 2-18=-1651/120, 17-18=-1751/141, 15-16=-101/1019, 14-15=-170/1712, 13-14=-119/1155, 12-13=-108/970, 11-12=-106/972
WEBS 3-18=-2058/308, 3-17=-115/1822, 4-17=-1138/169, 4-16=-118/1396, 5-16=-1064/145, 5-15=-130/1571, 6-15=-313/96, 7-15=-52/762, 7-14=-678/146, 8-14=-51/695, 9-13=-17/294, 9-11=-1336/119

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 13-0-0, Exterior(2R) 13-0-0 to 16-0-0, Interior(1) 16-0-0 to 35-6-10, Exterior(2R) 35-6-10 to 38-6-10, Interior(1) 38-6-10 to 41-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11. This connection is for uplift only and does not consider lateral forces.
8) Two RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
9) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18. This connection is for uplift only and does not consider lateral forces.
10) Double installations of RT7A require the two hurricane ties to be installed on opposite sides of top plate to avoid nail interference in single ply truss.

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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
May 4,2021



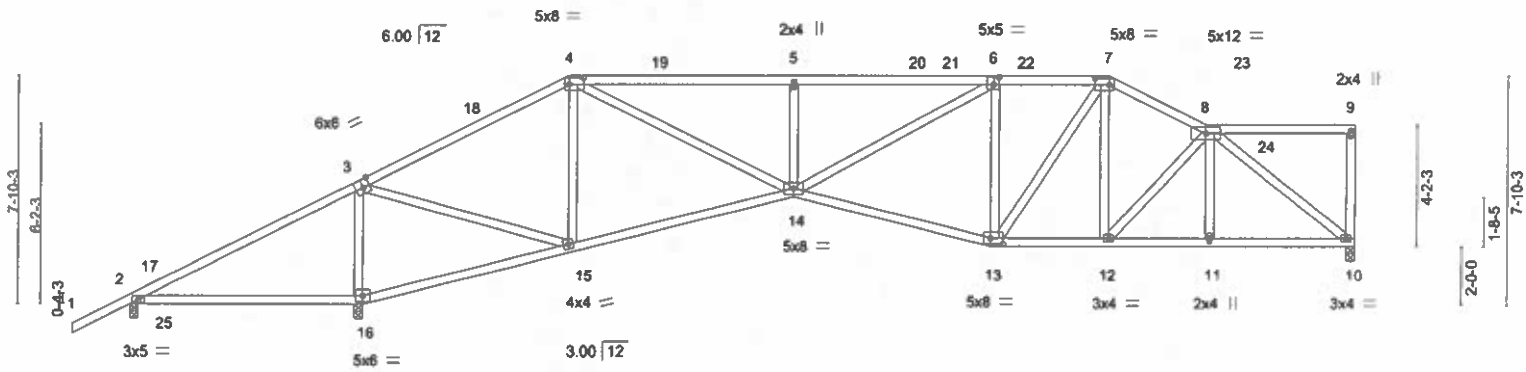
MiTek
6904 Parke East Blvd.
Tampa, FL 33610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | T23820461 |
|---|---|---|---|---|---|---|
| 613090 | A05 | ROOF SPECIAL | 1 | 1 | Job Reference (optional) | |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:31:38 2021 Page 1
ID:SuQVa2bJoYHJVzRq1hrHKbyIAWH-dZlzgRHs7D1RTQN6FjUkhJIRfJNLxAdoSgt?LMzJy3J

| -2-0-0 | 7-11-8 | 15-0-0 | 22-8-12 | 29-6-0 | 33-6-10 | 36-10-10 | 42-0-0 |
|---|---|---|---|---|---|---|---|
| 2-0-0 | 7-11-8 | 7-0-8 | 7-8-12 | 6-9-4 | 4-0-10 | 3-4-0 | 5-1-6 |

Scale = 1:78.1




| 7-9-12 | 7-11-8 | 15-0-0 | 22-8-12 | 29-6-0 | 33-6-10 | 36-10-10 | 41-8-8 | 42-0-0 |
|---|---|---|---|---|---|---|---|---|
| 7-9-12 | 0-1-12 | 7-0-8 | 7-8-12 | 6-9-4 | 4-0-10 | 3-4-0 | 4-9-14 | 0-3-8 |

Plate Offsets (X,Y)-- [3:0-2-12,Edge], [4:0-6-0,0-2-8], [6:0-2-4,0-3-0], [7:0-6-0,0-2-8], [13:0-5-4,0-2-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.98 | Vert(LL) | -0.15 | 14 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.65 | Vert(CT) | -0.32 | 13-14 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.99 | Horz(CT) | 0.10 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.25 | 2-16 | >373 | 240 | Weight: 238 lb | FT = 20% |

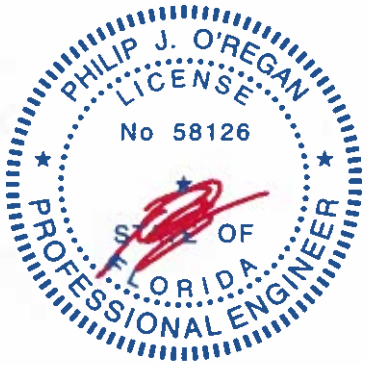
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
4-10-5 oc bracing: 2-16
5-4-10 oc bracing: 15-16.

**REACTIONS.** (size) 10=0-3-8, 2=0-3-1, 16=0-3-8
Max Horz 2=175(LC 9)
Max Uplift 10=-53(LC 12), 2=-366(LC 22), 16=-185(LC 12)
Max Grav 10=1120(LC 1), 16=2242(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-241/1262, 3-4=-825/99, 4-5=-2127/227, 5-6=-2127/227, 6-7=-1509/198, 7-8=-1412/181
BOT CHORD 2-16=-1028/84, 15-16=-1107/106, 14-15=-104/665, 13-14=-182/1563, 12-13=-144/1226, 11-12=-137/1216, 10-11=-134/1220
WEBS 3-16=-1821/321, 3-15=-134/1783, 4-15=-776/187, 4-14=-166/1677, 5-14=-440/140, 6-14=-80/748, 6-13=-668/144, 7-13=-43/545, 8-10=-1522/134

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 15-0-0, Exterior(2R) 15-0-0 to 18-0-0, Interior(1) 18-0-0 to 33-6-10, Exterior(2R) 33-6-10 to 36-6-10, Interior(1) 36-6-10 to 41-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10 and 2. This connection is for uplift only and does not consider lateral forces.
8) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 16. This connection is for uplift only and does not consider lateral forces.

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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
May 4,2021





6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | |
|---|---|---|---|---|---|---|
| 613090 | A06 | Roof Special | 1 | 1 | | T23820462 |
| | | | | | Job Reference (optional) | |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:31:39 2021 Page 1
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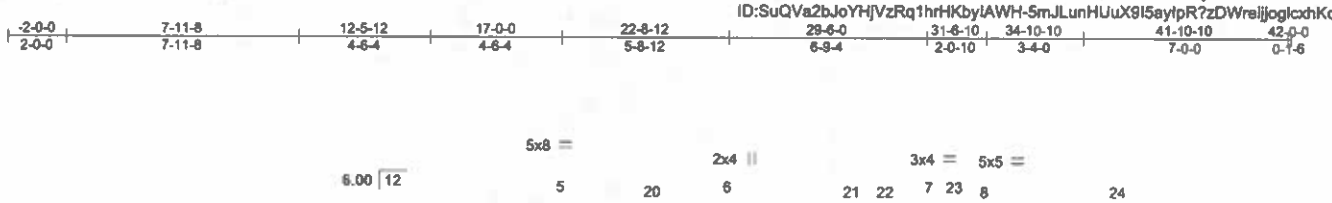


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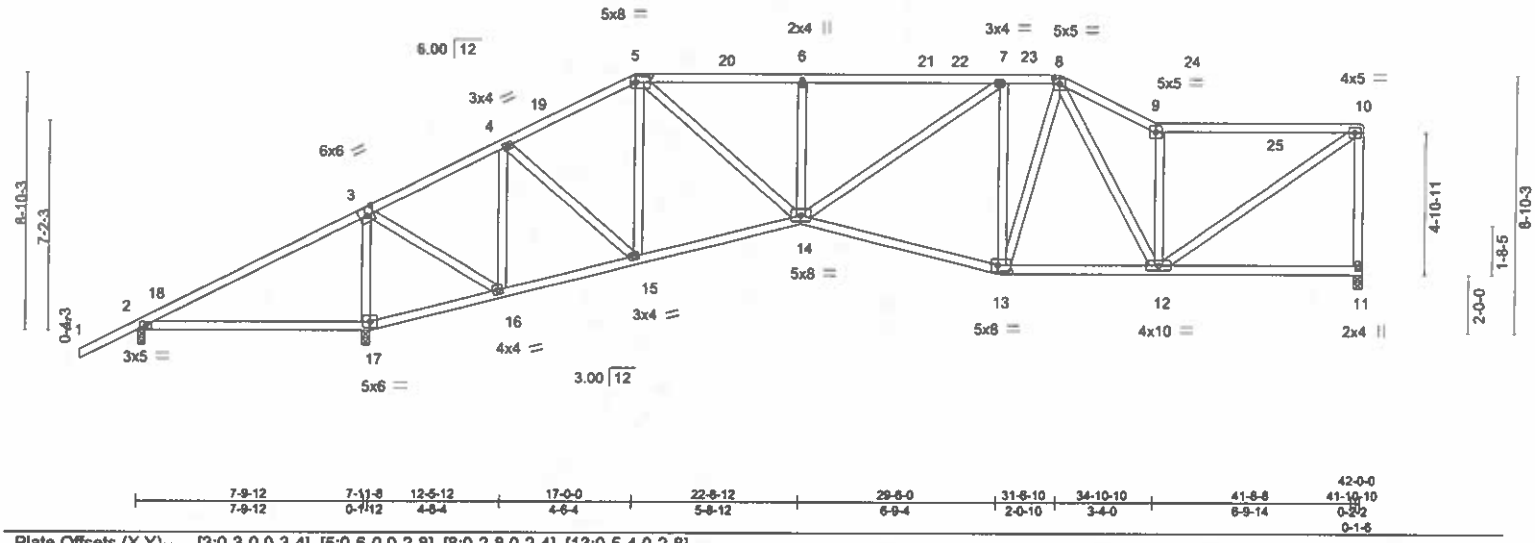






Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [5:0-6-0,0-2-8], [8:0-2-8,0-2-4], [13:0-5-4,0-2-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.84 | Vert(LL) | -0.13 | 2-17 | >704 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.64 | Vert(CT) | -0.28 | 13-14 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.49 | Horz(CT) | 0.08 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.06 | 14 | >999 | 240 | Weight: 256 lb | FT = 20% |

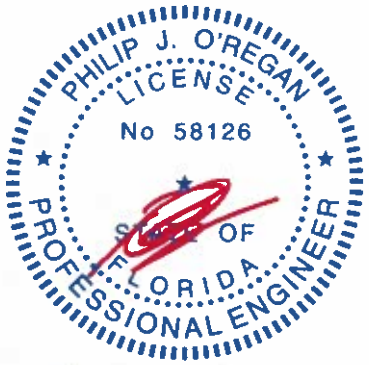
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
5-4-1 oc bracing: 2-17
5-8-12 oc bracing: 16-17.

**REACTIONS.** (size) 2=0-3-1, 17=0-3-8, 11=0-3-8
Max Horz 2=205(LC 9)
Max Uplift 2=-266(LC 22), 17=-109(LC 12), 11=-55(LC 12)
Max Grav 2=46(LC 9), 17=2137(LC 1), 11=1140(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-262/1077, 3-4=-441/86, 4-5=-1066/159, 5-6=-1751/226, 6-7=-1751/226, 7-8=-1322/209, 8-9=-1505/235, 9-10=-1270/168, 10-11=-1075/151
BOT CHORD 2-17=-868/92, 16-17=-1006/112, 15-16=-125/353, 14-15=-175/932, 13-14=-194/1365, 12-13=-165/1192
WEBS 3-17=-1750/308, 3-16=-174/1485, 4-15=-65/770, 5-15=-530/118, 5-14=-113/1132, 6-14=-374/123, 7-14=-85/588, 7-13=-653/168, 8-13=-59/514, 9-12=-959/206, 10-12=-145/1526, 4-16=-1000/177

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 17-0-0, Exterior(2R) 17-0-0 to 20-0-0, Interior(1) 20-0-0 to 31-6-10, Exterior(2R) 31-6-10 to 34-6-10, Interior(1) 34-6-10 to 41-10-4 zone; cantilever left and right exposed ; end vertical 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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
8) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17. This connection is for uplift only and does not consider lateral forces.

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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
May 4,2021



MiTek
6904 Parke East Blvd.
Tampa, FL 33610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | |
|---|---|---|---|---|---|---|
| 613090 | A07 | Roof Special | 1 | 1 | Job Reference (optional) | T23820463 |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:31:42 2021 Page 1
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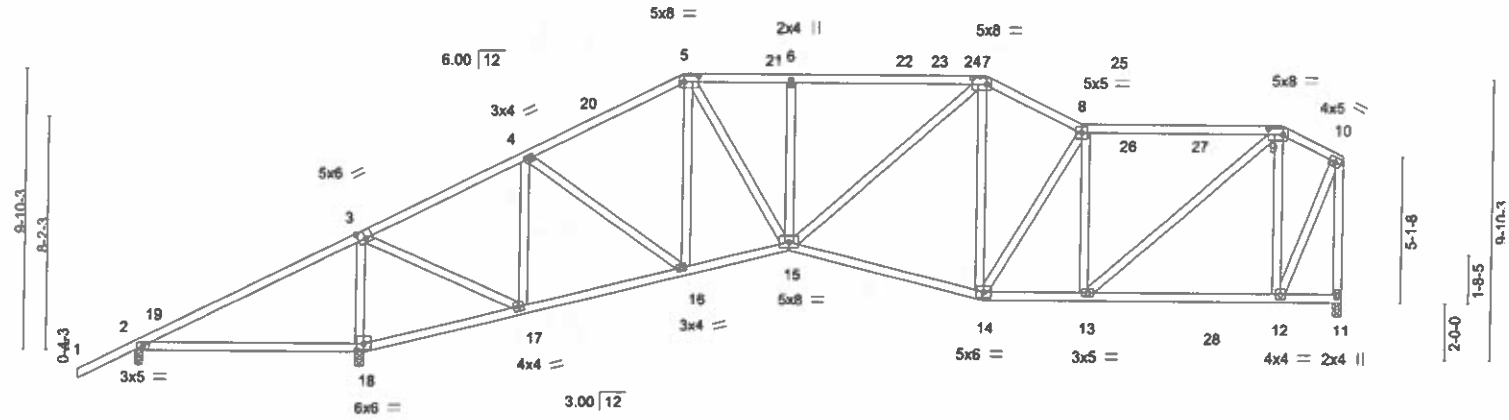
-2-0-0 2-0-0 | 7-11-8 7-11-8 | 13-5-12 5-6-4 | 19-0-0 5-6-4 | 22-8-12 3-8-12 | 29-6-10 6-9-14 | 32-10-10 3-4-0 | 39-10-10 7-0-0 | 42-0-0 2-1-6

Scale = 1:79.3




7-9-12 7-9-12 | 7-11-8 0-1-12 | 13-5-12 5-6-4 | 19-0-0 5-6-4 | 22-8-12 3-8-12 | 29-6-0 6-9-4 | 32-10-10 3-4-10 | 39-10-10 7-0-0 | 42-0-0 41-8-8 1-9-14 | 0-3-8

Plate Offsets (X,Y)— [3:0-3-0,0-3-4], [5:0-6-0,0-2-8], [7:0-6-0,0-2-8], [9:0-6-0,0-2-8], [18:0-3-0,0-2-12]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.82 | Vert(LL) | -0.15 | 14-15 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.69 | Vert(CT) | -0.30 | 14-15 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.52 | Horz(CT) | 0.07 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.05 | 15 | >999 | 240 | Weight: 270 lb | FT = 20% |

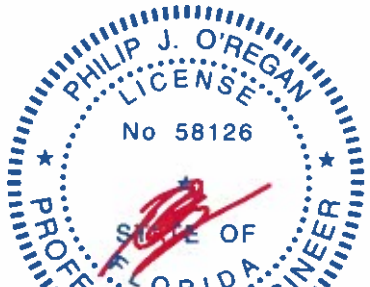
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-9-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
4-8-7 oc bracing: 2-18
6-0-0 oc bracing: 17-18.

**REACTIONS.** (size) 2=0-3-1, 18=0-3-8, 11=0-3-8
Max Horz 2=221(LC 11)
Max Uplift 2=-164(LC 22), 18=-104(LC 12), 11=-56(LC 12)
Max Grav 2=71(LC 21), 18=2280(LC 17), 11=1281(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-247/1009, 3-4=-814/114, 4-5=-1390/186, 5-6=-1654/235, 6-7=-1654/235, 7-8=-1463/217, 8-9=-1413/191, 9-10=-561/109, 10-11=-1313/126
BOT CHORD 2-18=-797/82, 17-18=-873/97, 16-17=-156/779, 15-16=-189/1283, 14-15=-181/1360, 13-14=-179/1426, 12-13=-80/468
WEBS 3-18=-1837/309, 3-17=-174/1651, 4-17=-877/184, 4-16=-47/630, 5-16=-354/88, 5-15=-92/886, 6-15=-345/113, 7-15=-81/536, 8-14=-310/68, 8-13=-648/146, 9-13=-127/1242, 9-12=-845/201, 10-12=-129/1179

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 19-0-0, Exterior(2R) 19-0-0 to 22-0-0, Interior(1) 22-0-0 to 29-6-10, Exterior(2R) 29-6-10 to 32-6-10, Interior(1) 32-6-10 to 39-10-10, Exterior(2E) 39-10-10 to 41-10-4 zone; cantilever left and right exposed ; end vertical 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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
8) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18. This connection is for uplift only and does not consider lateral forces.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
May 4,2021



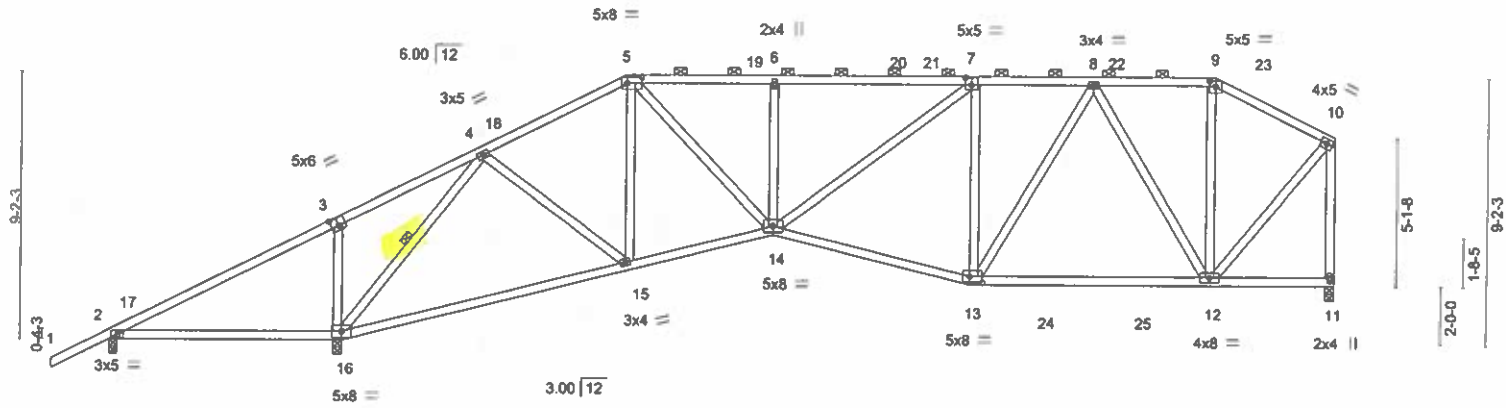
MiTek
6904 Parke East Blvd.
Tampa, FL 33610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | |
|---|---|---|---|---|---|---|
| 613090 | A08 | Piggyback Base | 1 | 1 | Job Reference (optional) | T23820464 |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:31:45 2021 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-wvgc8qMFUNwSpVQS9h8NTn5h08lx4LYq3G3t5SzJy3C

| -2-0-0 | 7-11-8 | 12-9-0 | 17-8-1 | 22-8-12 | 23-7-0 | 28-6-0 | 33-8-5 | 37-10-8 | 42-0-0 |
|---|---|---|---|---|---|---|---|---|---|
| 2-0-0 | 7-11-8 | 4-9-8 | 4-11-1 | 5-0-11 | 0-10-4 | 5-11-0 | 4-2-5 | 4-2-5 | 4-1-7 |

Scale = 1:78.1




| 7-9-12 | 7-11-8 | 17-8-1 | 22-8-12 | 29-6-0 | 37-10-9 | 42-0-0 |
|---|---|---|---|---|---|---|
| 7-9-12 | 0-1-12 | 9-8-9 | 5-0-11 | 6-9-4 | 8-4-9 | 4-1-7 |

Plate Offsets (X,Y)— [3:0-3-0,0-3-4], [5:0-6-0,0-2-8], [7:0-2-8,0-3-0], [9:0-2-8,0-2-4], [13:0-5-4,0-2-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.78 | Vert(LL) | -0.26 | 15-16 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.85 | Vert(CT) | -0.53 | 15-16 | >766 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.91 | Horz(CT) | 0.10 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.06 | 14 | >999 | 240 | Weight: 257 lb | FT = 20% |

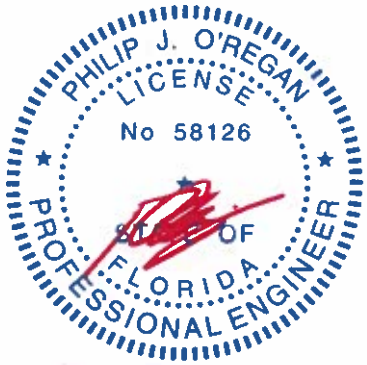
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-9-11 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-3 max.): 5-9.
BOT CHORD Rigid ceiling directly applied or 5-3-0 oc bracing.
WEBS 1 Row at midpt 4-16

**REACTIONS.** (size) 2=0-3-1, 16=0-3-8, 11=0-3-8
Max Horz 2=210(LC 11)
Max Uplift 2=-161(LC 22), 16=-106(LC 12), 11=-56(LC 12)
Max Grav 2=49(LC 9), 16=2273(LC 17), 11=1291(LC 18)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-220/953, 3-4=-129/895, 4-5=-1370/141, 5-6=-1900/208, 6-7=-1900/208, 7-8=-1447/182, 8-9=-744/131, 9-10=-860/123, 10-11=-1277/120
BOT CHORD 2-16=-757/74, 15-16=-161/622, 14-15=-157/1261, 13-14=-165/1536, 12-13=-138/1144
WEBS 3-16=-392/152, 4-16=-2129/241, 4-15=-1/845, 5-15=-409/109, 5-14=-104/1041, 6-14=-350/116, 7-14=-82/586, 7-13=-641/146, 8-13=-22/632, 8-12=-822/106, 10-12=-77/1101

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 17-8-1, Exterior(2R) 17-8-1 to 21-10-15, Interior(1) 21-10-15 to 37-10-9, Exterior(2E) 37-10-9 to 41-10-4 zone; cantilever left and right exposed ; end vertical 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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
8) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 16. This connection is for uplift only and does not consider lateral forces.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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6904 Parke East Blvd. Tampa FL 33610
Date:
May 4,2021



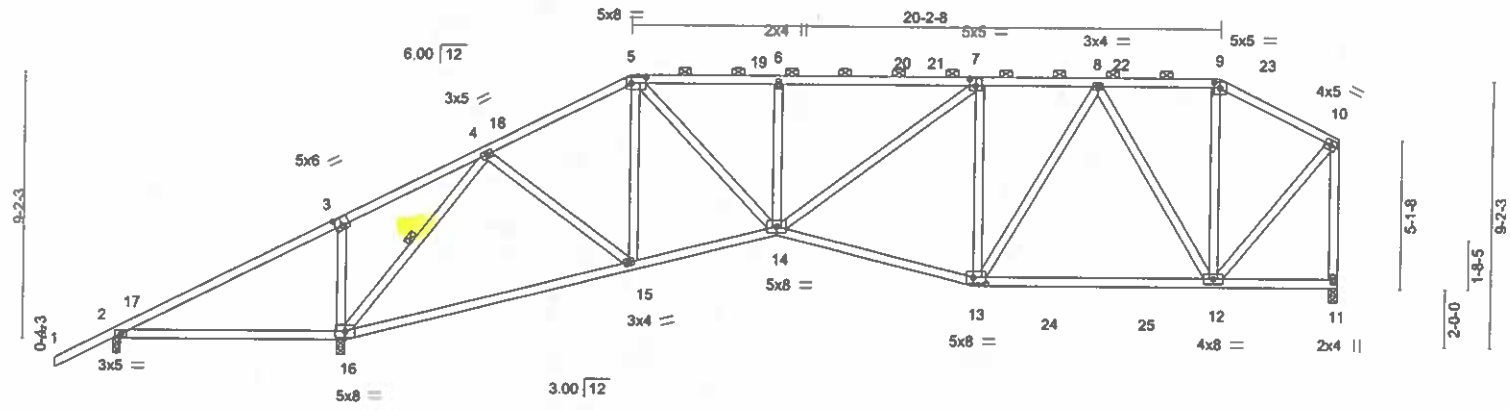
MiTek
6904 Parke East Blvd.
Tampa, FL 33610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | |
|---|---|---|---|---|---|---|
| 613090 | A09 | PIGGYBACK BASE | 1 | 1 | Job Reference (optional) | T23820465 |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:31:47 2021 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbylAWH-sInMZWOV0_AA2oZqH68rYCA1WyOPYF26WZY_9LzJy3A

| -2-0-0 | 7-11-8 | 12-9-0 | 17-8-1 | 22-8-12 | 23-7-0 | 29-6-0 | 33-8-5 | 37-10-9 | 42-0-0 |
|---|---|---|---|---|---|---|---|---|---|
| 2-0-0 | 7-11-8 | 4-9-8 | 4-11-1 | 5-0-11 | 0-10-4 | 5-11-0 | 4-2-5 | 4-2-5 | 4-1-7 |

Scale = 1:78.1




| 7-9-12 | 7-11-8 | 17-8-1 | 22-8-12 | 29-6-0 | 37-10-9 | 42-0-0 |
|---|---|---|---|---|---|---|
| 7-9-12 | 0-1-12 | 9-8-9 | 5-0-11 | 6-9-4 | 8-4-9 | 4-1-7 |

Plate Offsets (X,Y)– [3:0-3-0,0-3-4], [5:0-6-0,0-2-8], [7:0-2-8,0-3-0], [9:0-2-8,0-2-4], [13:0-5-4,0-2-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.78 | Vert(LL) | -0.26 | 15-16 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.85 | Vert(CT) | -0.53 | 15-16 | >766 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.91 | Horz(CT) | 0.10 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.06 | 14 | >999 | 240 | Weight: 257 lb | FT = 20% |

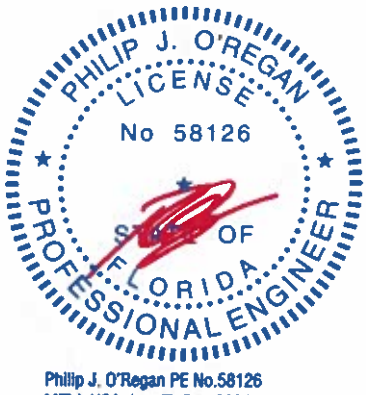
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-9-11 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-3 max.): 5-9.
BOT CHORD Rigid ceiling directly applied or 5-3-0 oc bracing.
WEBS 1 Row at midpt 4-16

**REACTIONS.** (size) 2=0-3-1, 16=0-3-8, 11=0-3-8
Max Horz 2=210(LC 11)
Max Uplift 2=-161(LC 22), 16=-106(LC 12), 11=-56(LC 12)
Max Grav 2=49(LC 9), 16=2273(LC 17), 11=1291(LC 18)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-220/953, 3-4=-129/895, 4-5=-1370/141, 5-6=-1900/208, 6-7=-1900/208, 7-8=-1447/182, 8-9=-744/131, 9-10=-860/123, 10-11=-1277/120
BOT CHORD 2-16=-757/74, 15-16=-161/622, 14-15=-157/1261, 13-14=-165/1536, 12-13=-138/1144
WEBS 3-16=-392/152, 4-16=-2129/241, 4-15=-1/845, 5-15=-409/109, 5-14=-104/1041, 6-14=-350/116, 7-14=-82/586, 7-13=-641/146, 8-13=-22/632, 8-12=-822/106, 10-12=-77/1101

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 17-8-1, Exterior(2R) 17-8-1 to 21-10-15, Interior(1) 21-10-15 to 37-10-9, Exterior(2E) 37-10-9 to 41-10-4 zone; cantilever left and right exposed ; end vertical 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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
8) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 16. This connection is for uplift only and does not consider lateral forces.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
May 4,2021





6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | |
|---|---|---|---|---|---|---|
| 613090 | A10 | Piggyback Base | 1 | 1 | Job Reference (optional) | T23820466 |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:31:48 2021 Page 1
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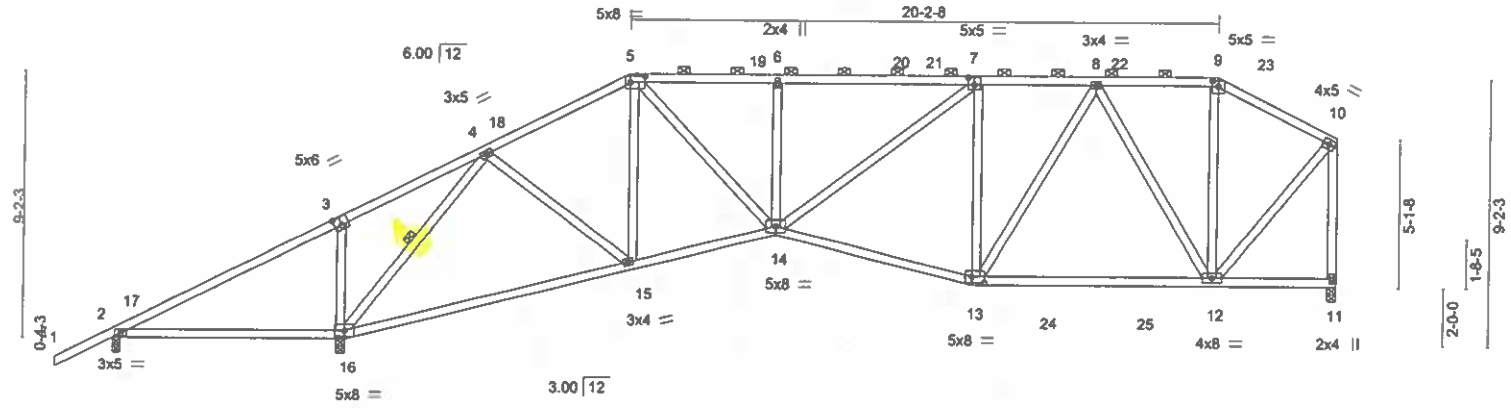
| -2-0-0 | 7-11-8 | 12-9-0 | 17-8-1 | 22-8-12 | 23-7-0 | 29-6-0 | 33-8-5 | 37-10-9 | 42-0-0 |
|---|---|---|---|---|---|---|---|---|---|
| 2-0-0 | 7-11-8 | 4-9-8 | 4-11-1 | 5-0-11 | 0-10-4 | 5-11-0 | 4-2-5 | 4-2-5 | 4-1-7 |

Scale = 1:78.1




| 7-9-12 | 7-11-8 | 17-8-1 | 22-8-12 | 29-6-0 | 37-10-9 | 42-0-0 |
|---|---|---|---|---|---|---|
| 7-9-12 | 0-1-12 | 9-8-9 | 5-0-11 | 6-9-4 | 8-4-9 | 4-1-7 |

Plate Offsets (X,Y)— [3:0-3-0,0-3-4], [5:0-6-0,0-2-8], [7:0-2-8,0-3-0], [9:0-2-8,0-2-4], [13:0-5-4,0-2-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.78 | Vert(LL) | -0.26 | 15-16 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.85 | Vert(CT) | -0.53 | 15-16 | >766 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.91 | Horz(CT) | 0.10 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.06 | 14 | >999 | 240 | Weight: 257 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-9-11 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-3 max.): 5-9.
BOT CHORD Rigid ceiling directly applied or 5-3-0 oc bracing.
WEBS 1 Row at midpt 4-16

**REACTIONS.** (size) 2=0-3-1, 16=0-3-8, 11=0-3-8
Max Horz 2=210(LC 11)
Max Uplift 2=-161(LC 22), 16=-106(LC 12), 11=-56(LC 12)
Max Grav 2=49(LC 9), 16=2273(LC 17), 11=1291(LC 18)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-220/953, 3-4=-129/895, 4-5=-1370/141, 5-6=-1900/208, 6-7=-1900/208, 7-8=-1447/182, 8-9=-744/131, 9-10=-860/123, 10-11=-1277/120
BOT CHORD 2-16=-757/74, 15-16=-161/622, 14-15=-157/1261, 13-14=-165/1536, 12-13=-138/1144
WEBS 3-16=-392/152, 4-16=-2129/241, 4-15=-1/845, 5-15=-409/109, 5-14=-104/1041, 6-14=-350/116, 7-14=-82/586, 7-13=-641/146, 8-13=-22/632, 8-12=-822/106, 10-12=-77/1101

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 17-8-1, Exterior(2R) 17-8-1 to 21-10-15, Interior(1) 21-10-15 to 37-10-9, Exterior(2E) 37-10-9 to 41-10-4 zone; cantilever left and right exposed ; end vertical 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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
8) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 16. This connection is for uplift only and does not consider lateral forces.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
May 4,2021



MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | T23820467 |
|---|---|---|---|---|---|---|
| 813090 | A11 | PIGGYBACK BASE | 1 | 1 | Job Reference (optional) | |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:31:50 2021 Page 1
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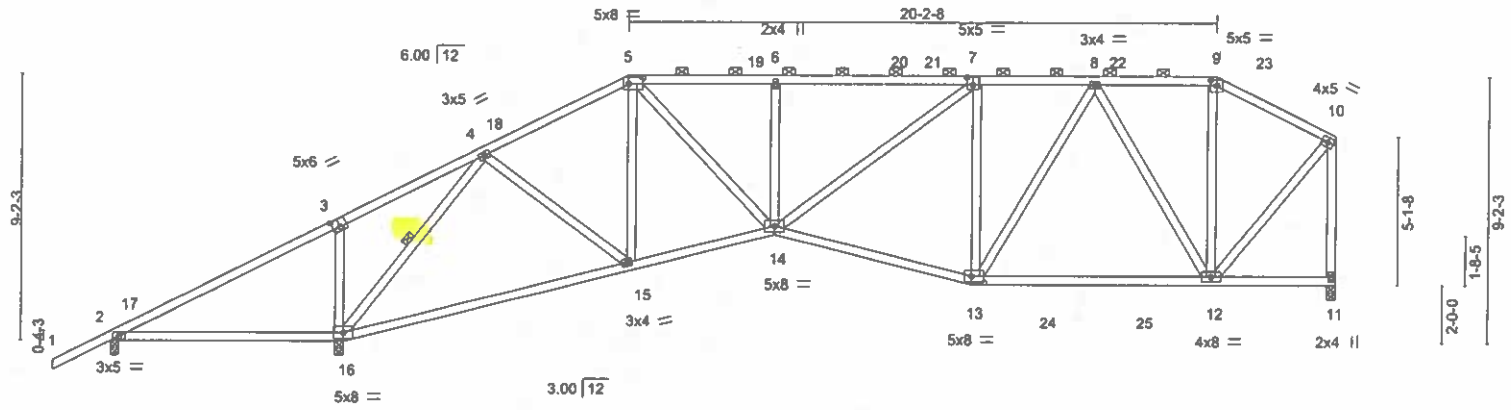
| -2-0-0 | 7-11-8 | 12-9-0 | 17-8-1 | 22-8-12 | 23-7-0 | 29-6-0 | 33-8-5 | 37-10-9 | 42-0-0 |
|---|---|---|---|---|---|---|---|---|---|
| 2-0-0 | 7-11-8 | 4-9-8 | 4-11-1 | 5-0-11 | 0-10-4 | 5-11-0 | 4-2-5 | 4-2-5 | 4-1-7 |

Scale = 1:78.1




| 7-9-12 | 7-11-8 | 17-8-1 | 22-8-12 | 29-6-0 | 37-10-9 | 42-0-0 |
|---|---|---|---|---|---|---|
| 7-9-12 | 0-1-12 | 9-8-9 | 5-0-11 | 6-9-4 | 8-4-9 | 4-1-7 |

Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [5:0-6-0,0-2-8], [7:0-2-8,0-3-0], [9:0-2-8,0-2-4], [13:0-5-4,0-2-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.78 | Vert(LL) | -0.26 | 15-16 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.85 | Vert(CT) | -0.53 | 15-16 | >766 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.91 | Horz(CT) | 0.10 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.06 | 14 | >999 | 240 | Weight: 257 lb | FT = 20% |

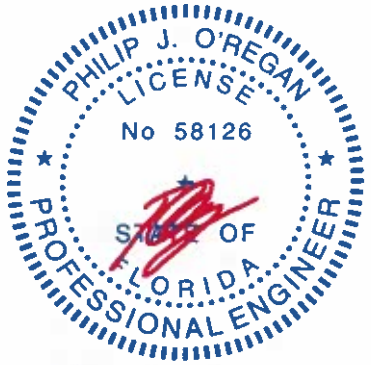
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-9-11 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-3 max.): 5-9.
BOT CHORD Rigid ceiling directly applied or 5-3-0 oc bracing.
WEBS 1 Row at midpt 4-16

**REACTIONS.** (size) 2=0-3-1, 16=0-3-8, 11=0-3-8
Max Horz 2=210(LC 11)
Max Uplift 2=-161(LC 22), 16=-106(LC 12), 11=-56(LC 12)
Max Grav 2=49(LC 9), 16=2273(LC 17), 11=1291(LC 18)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-220/953, 3-4=-129/895, 4-5=-1370/141, 5-6=-1900/208, 6-7=-1900/208, 7-8=-1447/182, 8-9=-744/131, 9-10=-860/123, 10-11=-1277/120
BOT CHORD 2-16=-757/74, 15-16=-161/622, 14-15=-157/1261, 13-14=-165/1536, 12-13=-138/1144
WEBS 3-16=-392/152, 4-16=-2129/241, 4-15=-1/845, 5-15=-409/109, 5-14=-104/1041, 6-14=-350/116, 7-14=-82/586, 7-13=-641/146, 8-13=-22/632, 8-12=-822/106, 10-12=-77/1101

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 17-8-1, Exterior(2R) 17-8-1 to 21-10-15, Interior(1) 21-10-15 to 37-10-9, Exterior(2E) 37-10-9 to 41-10-4 zone; cantilever left and right exposed ; end vertical 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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
8) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 16. This connection is for uplift only and does not consider lateral forces.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
May 4,2021




MiTek
6904 Parke East Blvd.
Tampa, FL 33610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | |
|---|---|---|---|---|---|---|
| 613090 | A12 | Piggyback Base | 1 | 1 | | T23820468 |
| | | | | | Job Reference (optional) | |

Tibbetts Lumber Co., LLC. Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:31:52 2021 Page 1
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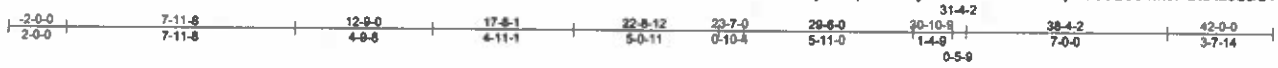
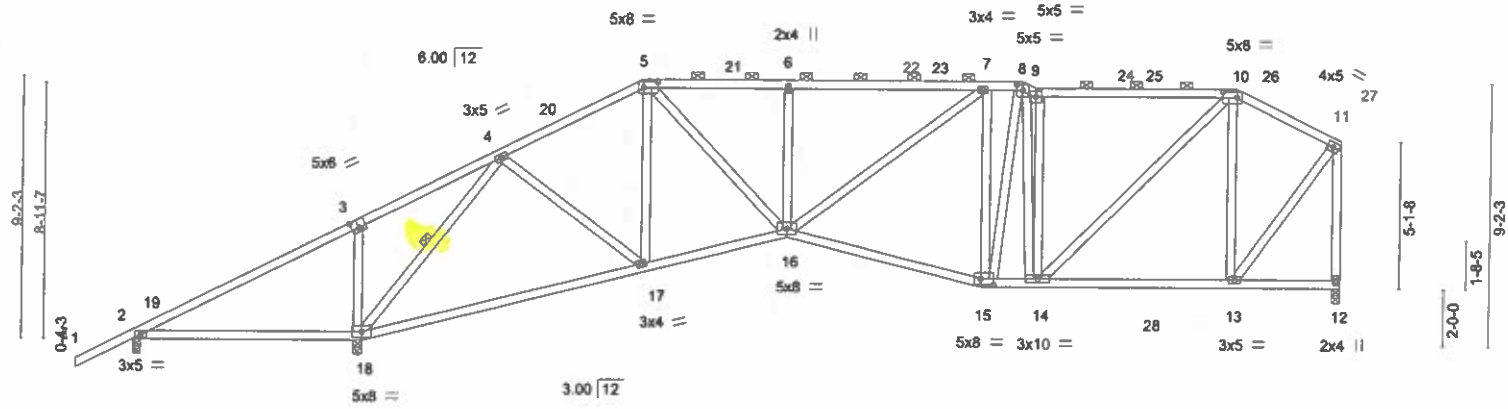



Scale = 1:79.3



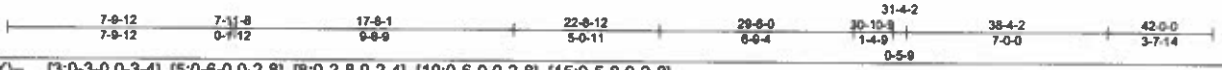




Plate Offsets (X,Y)— [3:0-3-0,0-3-4], [5:0-6-0,0-2-8], [8:0-2-8,0-2-4], [10:0-6-0,0-2-8], [15:0-5-8,0-2-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.84 | Vert(LL) | -0.26 | 17-18 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.80 | Vert(CT) | -0.53 | 17-18 | >762 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.64 | Horz(CT) | 0.09 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.06 | 16 | >999 | 240 | Weight: 276 lb | FT = 20% |

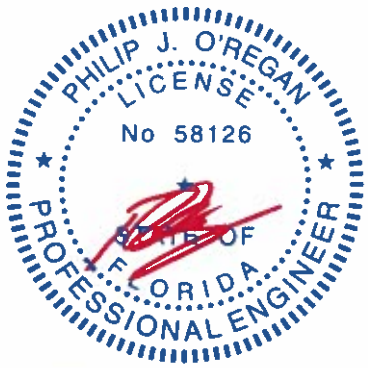
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-6-7 oc purlins, except end verticals, and 2-0-0 oc purlins (3-0-7 max.): 5-8, 9-10.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 5-1-10 oc bracing: 2-18.
WEBS 1 Row at midpt 4-18

**REACTIONS.** (size) 2=0-3-1, 18=0-3-8, 12=0-3-8
Max Horz 2=210(LC 11)
Max Uplift 2=-177(LC 22), 18=-109(LC 12), 12=-55(LC 12)
Max Grav 2=50(LC 9), 18=2287(LC 17), 12=1285(LC 18)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-248/983, 3-4=-157/925, 4-5=-1348/150, 5-6=-1878/244, 6-7=-1878/244, 7-8=-1419/195, 8-9=-1514/224, 9-10=-1365/182, 10-11=-792/130, 11-12=-1261/151
BOT CHORD 2-18=-785/88, 17-18=-166/596, 16-17=-179/1239, 15-16=-203/1504, 14-15=-176/1377, 13-14=-101/667
WEBS 3-18=-393/152, 4-18=-2137/283, 4-17=-22/848, 5-17=-417/125, 5-16=-126/1035, 6-16=-354/117, 7-16=-80/598, 7-15=-578/170, 8-15=-77/358, 8-14=-83/278, 9-14=-807/196, 10-14=-106/1007, 10-13=-658/173, 11-13=-119/1099

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 17-8-1, Exterior(2R) 17-8-1 to 20-8-1, Interior(1) 20-8-1 to 30-10-9, Exterior(2E) 30-10-9 to 31-4-2, Interior(1) 31-4-2 to 38-4-2, Exterior(2R) 38-4-2 to 41-4-2, Interior(1) 41-4-2 to 41-10-4 zone; cantilever left and right exposed ; end vertical 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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 12. This connection is for uplift only and does not consider lateral forces.
8) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18. This connection is for uplift only and does not consider lateral forces.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
May 4,2021



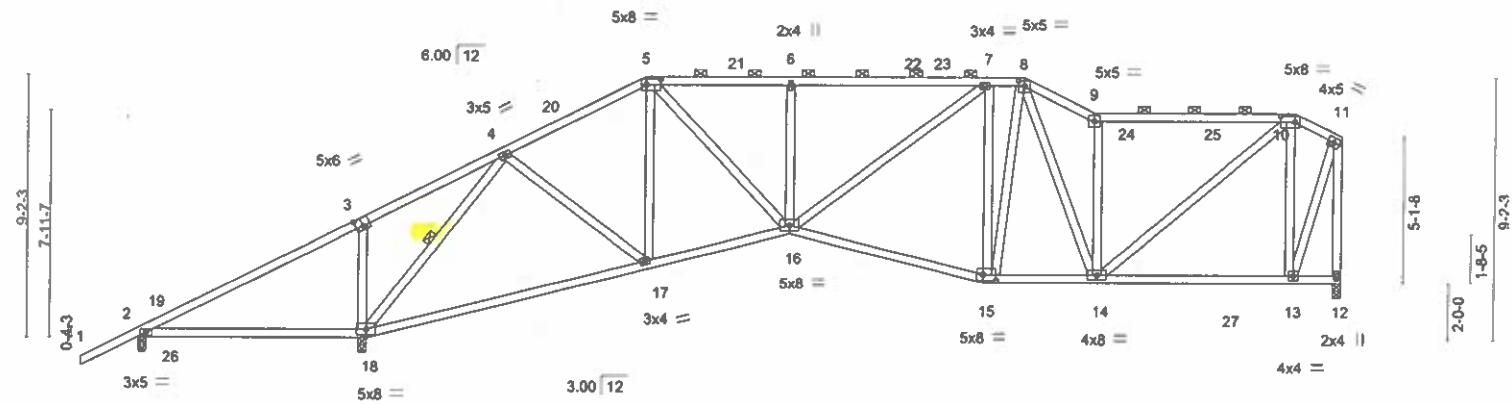
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | T23820469 |
|---|---|---|---|---|---|---|
| 613090 | A13 | PIGGYBACK BASE | 1 | 1 | Job Reference (optional) | |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:31:55 2021 Page 1
ID:SuQVa2bJoYHJVzRq1hrHKbyIAWH-drGOEFUX7RA101BNloHjtuVNRA88Qx9IMpUPRtzJy32

| -2-0-0 | 7-11-8 | 12-9-0 | 17-8-1 | 22-8-12 | 23-7-0 | 29-6-0 | 30-10-9 | 33-4-2 | 40-4-2 | 42-0-0 |
|---|---|---|---|---|---|---|---|---|---|---|
| 2-0-0 | 7-11-8 | 4-9-8 | 4-11-1 | 5-0-11 | 0-10-4 | 5-11-0 | 1-4-9 | 2-5-9 | 7-0-0 | 1-7-14 |

Scale = 1:79.5




| 7-9-12 | 7-11-8 | 17-8-1 | 22-8-12 | 29-6-0 | 30-10-9 | 33-4-2 | 40-4-2 | 42-0-0 |
|---|---|---|---|---|---|---|---|---|
| 7-9-12 | 0-1-12 | 9-8-9 | 5-0-11 | 6-9-4 | 1-4-9 | 2-5-9 | 7-0-0 | 1-7-14 |

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.85 | Vert(LL) | -0.26 | 17-18 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.79 | Vert(CT) | -0.54 | 17-18 | >759 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.65 | Horz(CT) | 0.09 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.26 | 2-18 | >360 | 240 | Weight: 272 lb | FT = 20% |

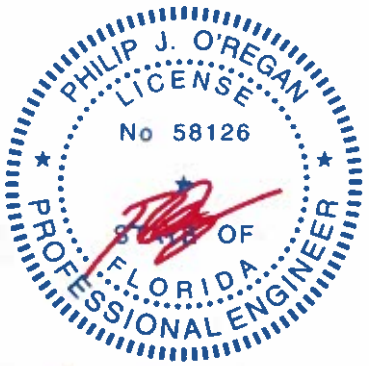
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-6-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-11-6 max.): 5-8, 9-10.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 4-11-11 oc bracing: 2-18
WEBS 1 Row at midpt 4-18

**REACTIONS.** (size) 2=0-3-1, 18=0-3-8, 12=0-3-8
Max Horz 2=210(LC 11)
Max Uplift 2=-197(LC 22), 18=-183(LC 12), 12=-54(LC 12)
Max Grav 2=41(LC 21), 18=2247(LC 17), 12=1275(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-248/1026, 3-4=-149/970, 4-5=-1320/134, 5-6=-1841/228, 6-7=-1840/228, 7-8=-1408/191, 8-9=-1648/221, 9-10=-1413/165, 10-11=-468/95, 11-12=-1329/110
BOT CHORD 2-18=-830/80, 17-18=-150/569, 16-17=-166/1215, 15-16=-193/1476, 14-15=-165/1327, 13-14=-70/392
WEBS 3-18=-393/180, 4-18=-2154/252, 4-17=-18/858, 5-17=-427/138, 5-16=-128/1026, 6-16=-353/116, 7-16=-76/594, 7-15=-689/189, 8-15=-83/539, 8-14=-70/347, 9-14=-963/191, 10-14=-130/1321, 10-13=-911/213, 11-13=-131/1222

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 17-8-1, Exterior(2R) 17-8-1 to 20-8-1, Interior(1) 20-8-1 to 30-10-9, Exterior(2E) 30-10-9 to 33-4-2, Interior(1) 33-4-2 to 40-4-2, Exterior(2E) 40-4-2 to 41-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 12. This connection is for uplift only and does not consider lateral forces.
8) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18. This connection is for uplift only and does not consider lateral forces.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
May 4,2021



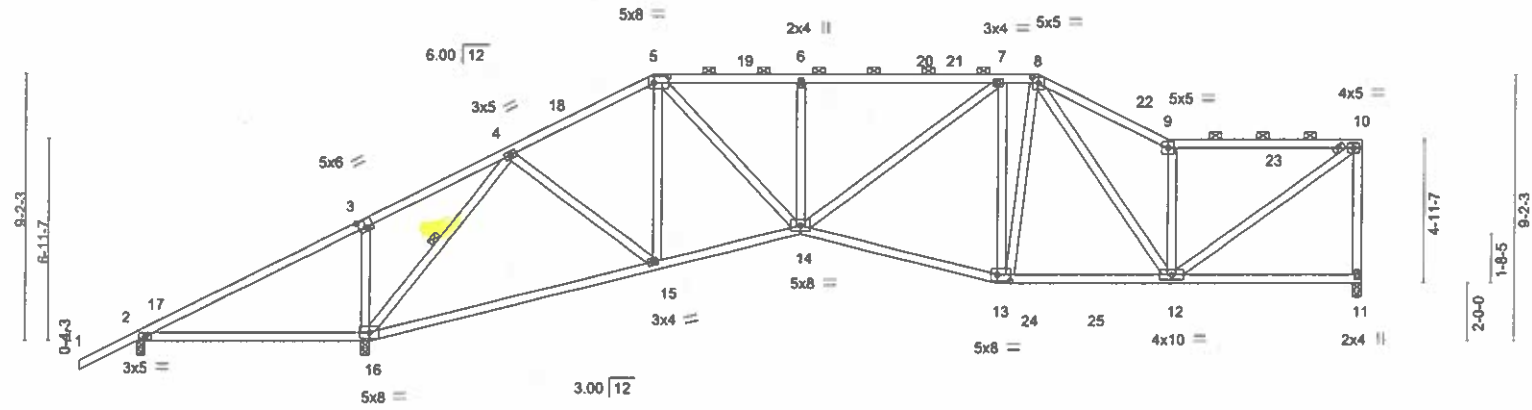
MiTek
6904 Parke East Blvd.
Tampa, FL 33610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | T23820470 |
|---|---|---|---|---|---|---|
| 613090 | A14 | PIGGYBACK BASE | 1 | 1 | Job Reference (optional) | |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:31:57 2021 Page 1
ID:SuQVa2bJoYHJVzRq1hrHKbyIAWH-ZDO6fwVnf3RIFLKlsDJByJakl_qZurdbq7zWWtzJy30

| -2-0-0 | 7-11-8 | 12-9-0 | 17-8-1 | 22-8-12 | 23-7-0 | 29-6-0 | 30-10-9 | 35-4-2 | 42-0-0 |
|---|---|---|---|---|---|---|---|---|---|
| 2-0-0 | 7-11-8 | 4-9-8 | 4-11-1 | 5-0-11 | 0-10-4 | 5-11-0 | 1-4-9 | 4-5-9 | 6-7-14 |

Scale = 1:78.1




| 7-9-12 | 7-11-8 | 17-8-1 | 22-8-12 | 29-6-0 | 30-10-9 | 35-4-2 | 42-0-0 |
|---|---|---|---|---|---|---|---|
| 7-9-12 | 0-1-12 | 9-8-9 | 5-0-11 | 6-9-4 | 1-4-9 | 4-5-9 | 6-7-14 |

Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [5:0-6-0,0-2-8], [8:0-2-8,0-2-4], [13:0-5-8,0-2-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.80 | Vert(LL) | -0.26 | 15-16 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.79 | Vert(CT) | -0.54 | 15-16 | >759 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.65 | Horz(CT) | 0.09 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.06 | 14 | >999 | 240 | Weight: 254 lb | FT = 20% |

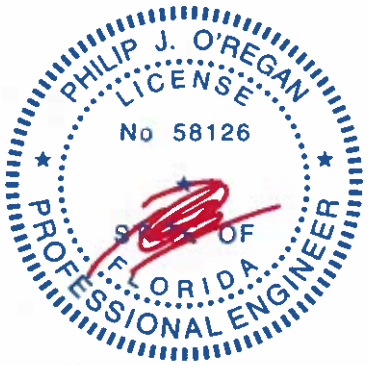
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-5-3 oc purlins, except end verticals, and 2-0-0 oc purlins (3-6-3 max.): 5-8, 9-10.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 4-11-7 oc bracing: 2-16.
WEBS 1 Row at midpt 4-16

**REACTIONS.** (size) 11=0-3-8, 2=0-3-1, 16=0-3-8
Max Horz 2=207(LC 11)
Max Uplift 11=-55(LC 12), 2=-195(LC 22), 16=-109(LC 12)
Max Grav 11=1267(LC 19), 2=42(LC 9), 16=2307(LC 17)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-241/1028, 3-4=-150/969, 4-5=-1323/157, 5-6=-1851/234, 6-7=-1851/234, 7-8=-1437/211, 8-9=-1727/237, 9-10=-1465/164, 10-11=-1169/149
BOT CHORD 2-16=-834/93, 15-16=-165/569, 14-15=-173/1219, 13-14=-189/1500, 12-13=-165/1345
WEBS 3-16=-393/151, 4-16=-2154/272, 4-15=-17/864, 5-15=-425/121, 5-14=-117/1042, 6-14=-354/117, 7-14=-83/587, 7-13=-684/179, 8-13=-63/561, 8-12=-57/290, 9-12=-1015/204, 10-12=-147/1735

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 17-8-1, Exterior(2R) 17-8-1 to 20-8-1, Interior(1) 20-8-1 to 30-10-9, Exterior(2R) 30-10-9 to 33-10-9, Interior(1) 33-10-9 to 41-10-4 zone; cantilever left and right exposed ; end vertical 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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11 and 2. This connection is for uplift only and does not consider lateral forces.
8) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 16. This connection is for uplift only and does not consider lateral forces.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
May 4,2021



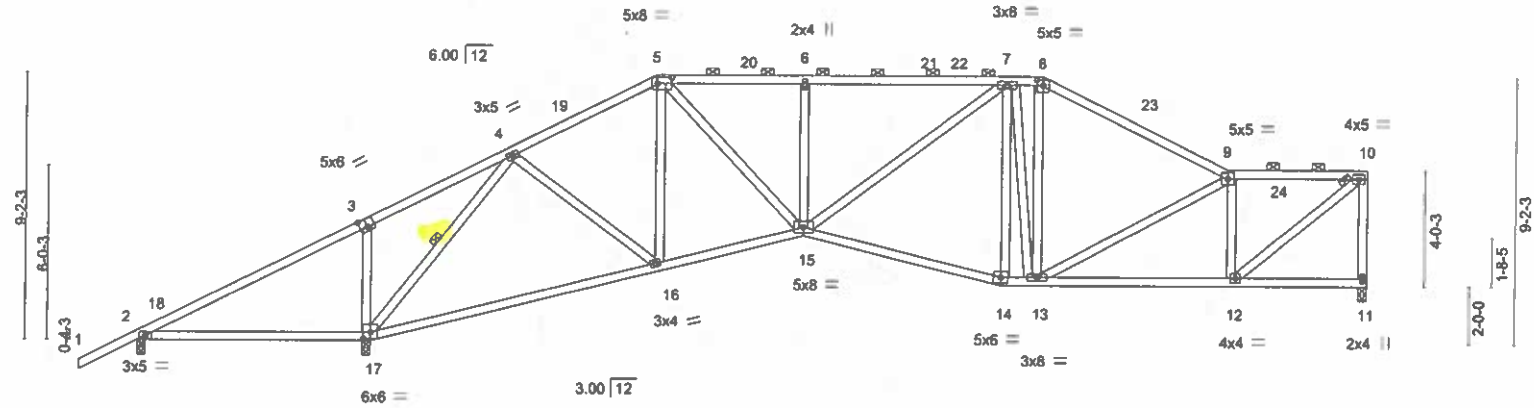

6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | |
|---|---|---|---|---|---|---|
| 613090 | A15 | PIGGYBACK BASE | 1 | 1 | Job Reference (optional) | T23820471 |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:31:59 2021 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbylAWH-WcWv4cX1BghTVeU8_dMf1kg4JnVEMlktHRSdaezJy3_

| -2-0-0 | 7-11-8 | 12-9-0 | 17-8-1 | 22-8-12 | 23-7-0 | 29-6-0 | 30-10-9 | 37-2-10 | 42-0-0 |
|---|---|---|---|---|---|---|---|---|---|
| 2-0-0 | 7-11-8 | 4-9-8 | 4-11-1 | 5-0-11 | 0-10-4 | 5-11-0 | 1-4-9 | 6-4-1 | 4-9-6 |

Scale = 1:77.9




| 7-9-12 | 7-11-8 | 17-8-1 | 22-8-12 | 29-6-0 | 30-10-9 | 37-2-10 | 42-0-0 |
|---|---|---|---|---|---|---|---|
| 7-9-12 | 0-1-12 | 9-8-9 | 5-0-11 | 6-9-4 | 1-4-9 | 6-4-1 | 4-9-6 |

Plate Offsets (X,Y)— [3:0-3-0,0-3-4], [5:0-6-0,0-2-8], [8:0-2-8,0-2-4], [17:0-3-0,0-2-12]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.79 | Vert(LL) | -0.26 | 16-17 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.78 | Vert(CT) | -0.53 | 16-17 | >762 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.61 | Horz(CT) | 0.09 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.06 | 15 | >999 | 240 | Weight: 257 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-5-15 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-10 max.): 5-8, 9-10.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-17.
WEBS 1 Row at midpt 4-17

**REACTIONS.** (size) 11=0-3-8, 2=0-3-1, 17=0-3-8
Max Horz 2=194(LC 11)
Max Uplift 11=-55(LC 12), 2=-184(LC 22), 17=-106(LC 12)
Max Grav 11=1159(LC 1), 2=52(LC 21), 17=2035(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-213/887, 3-4=-123/849, 4-5=-1217/159, 5-6=-1702/238, 6-7=-1702/238, 7-8=-1233/209, 8-9=-1444/187, 9-10=-1234/149, 10-11=-1121/132
BOT CHORD 2-17=-699/89, 16-17=-143/490, 15-16=-144/1061, 14-15=-168/1336, 13-14=-154/1286, 12-13=-144/1269
WEBS 3-17=-393/151, 4-17=-1956/255, 4-16=-8/738, 5-16=-420/114, 5-15=-112/981, 6-15=-354/117, 7-15=-69/575, 7-13=-486/69, 8-13=-15/532, 9-12=-895/169, 10-12=-143/1582

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 17-8-1, Exterior(2R) 17-8-1 to 20-8-1, Interior(1) 20-8-1 to 30-10-9, Exterior(2R) 30-10-9 to 33-10-9, Interior(1) 33-10-9 to 41-10-4 zone; cantilever left and right exposed ; end vertical 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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11 and 2. This connection is for uplift only and does not consider lateral forces.
8) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17. This connection is for uplift only and does not consider lateral forces.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.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6904 Parke East Blvd. Tampa FL 33610
Date:
May 4,2021



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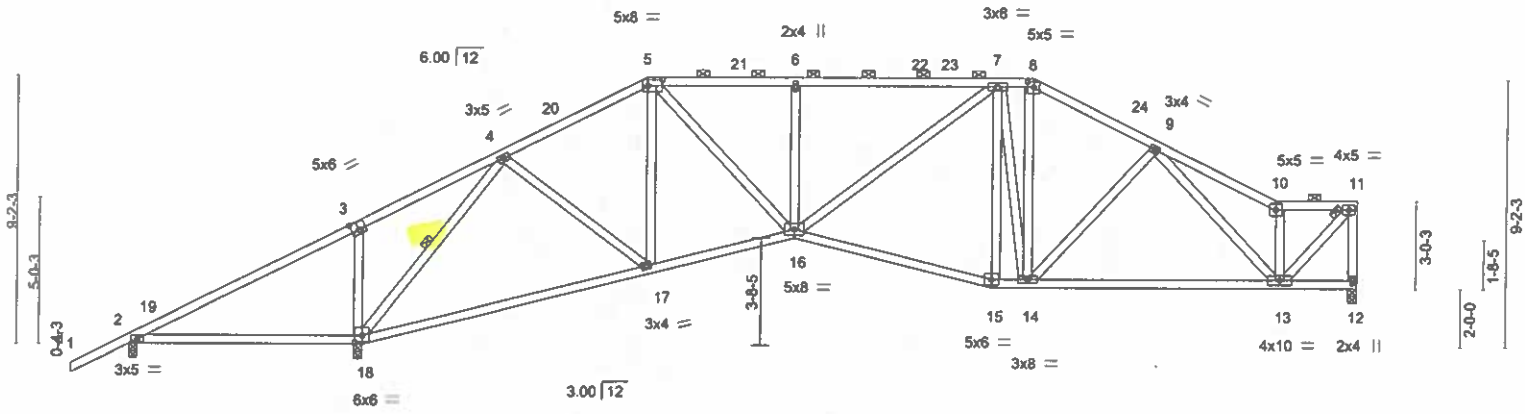
Tampa, FL 33610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | T23820472 |
|---|---|---|---|---|---|---|
| 613090 | A16 | PIGGYBACK BASE | 1 | 1 | Job Reference (optional) | |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:32:02 2021 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-wBB1jeZwUb32M6DjfmvMfNIbe?XvZ6XKzPhHAzzJy2x

| -2-0-0 | 7-11-8 | 12-9-0 | 17-8-1 | 22-8-12 | 23-7-0 | 29-6-0 | 30-10-9 | 35-0-10 | 39-2-10 | 42-0-0 |
|---|---|---|---|---|---|---|---|---|---|---|
| 2-0-0 | 7-11-8 | 4-9-8 | 4-11-1 | 5-0-11 | 0-10-4 | 5-11-0 | 1-4-9 | 4-2-0 | 4-2-0 | 2-9-6 |

Scale = 1:77.9




| 7-9-12 | 7-11-8 | 17-8-1 | 22-8-12 | 29-6-0 | 30-10-9 | 39-2-10 | 42-0-0 |
|---|---|---|---|---|---|---|---|
| 7-9-12 | 0-1-12 | 9-8-9 | 5-0-11 | 6-9-4 | 1-4-9 | 8-4-1 | 2-9-6 |

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.79 | Vert(LL) | -0.26 | 17-18 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.78 | Vert(CT) | -0.53 | 17-18 | >763 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.61 | Horz(CT) | 0.10 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.06 | 16 | >999 | 240 | Weight: 259 lb | FT = 20% |

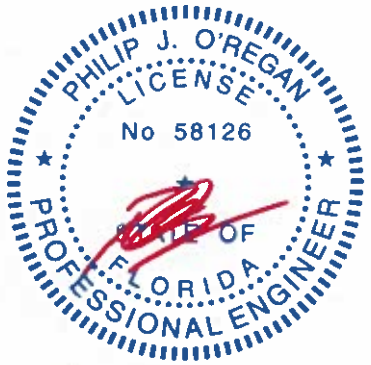
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-9-14 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-10 max.): 5-8, 10-11.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-18,12-13.
WEBS 1 Row at midpt 4-18

**REACTIONS.** (size) 12=0-3-8, 2=0-3-1, 18=0-3-8
Max Horz 2=180(LC 11)
Max Uplift 12=-55(LC 12), 2=-174(LC 22), 18=-105(LC 12)
Max Grav 12=1162(LC 1), 2=61(LC 21), 18=2021(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-187/864, 3-4=-97/826, 4-5=-1228/160, 5-6=-1711/237, 6-7=-1711/237, 7-8=-1235/200, 8-9=-1426/193, 9-10=-1220/145, 10-11=-1017/95, 11-12=-1169/95
BOT CHORD 2-18=-678/87, 17-18=-116/504, 16-17=-110/1071, 15-16=-141/1341, 14-15=-128/1292, 13-14=-153/1295
WEBS 3-18=-393/151, 4-18=-1945/236, 4-17=0/732, 5-17=-416/106, 5-16=-105/981, 6-16=-353/116, 7-16=-53/580, 7-15=-294/48, 7-14=-460/119, 8-14=-74/593, 9-13=-359/89, 10-13=-697/109, 11-13=-96/1494

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 17-8-1, Exterior(2R) 17-8-1 to 20-8-1, Interior(1) 20-8-1 to 30-10-9, Exterior(2R) 30-10-9 to 33-10-9, Interior(1) 33-10-9 to 41-10-4 zone; cantilever left and right exposed ; end vertical 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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12 and 2. This connection is for uplift only and does not consider lateral forces.
8) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18. This connection is for uplift only and does not consider lateral forces.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
May 4,2021



MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | T23820473 |
|---|---|---|---|---|---|---|
| 613090 | A17 | HALF HIP | 1 | 1 | Job Reference (optional) | |

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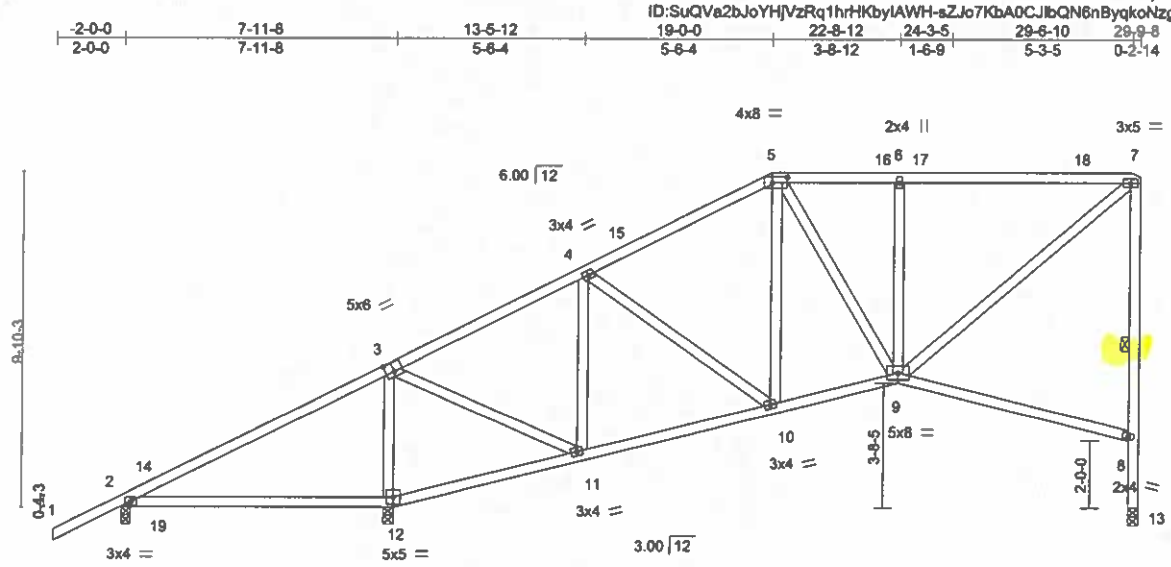


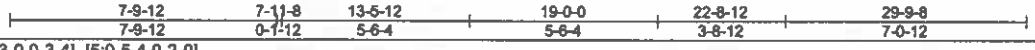




Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [5:0-5-4,0-2-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.69 | Vert(LL) | -0.14 | 2-12 | >695 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.58 | Vert(CT) | -0.28 | 2-12 | >333 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.30 | Horz(CT) | 0.10 | 13 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.25 | 2-12 | >374 | 240 | Weight: 183 lb | FT = 20% |

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-10-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-13

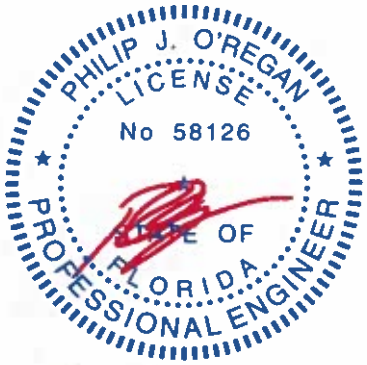
VERTICAL LEGS ARE NOT DESIGNED FOR LATERAL LOADS IMPOSED BY SUPPORTS (BEARINGS).

**REACTIONS.** (size) 2=0-3-1, 12=0-3-8, 13=0-3-8
Max Horz 2=304(LC 11)
Max Uplift 2=-136(LC 12), 12=-123(LC 12), 13=-64(LC 9)
Max Grav 2=273(LC 1), 12=1277(LC 1), 13=749(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-251/354, 3-4=-620/81, 4-5=-712/103, 5-6=-623/96, 6-7=-623/96, 8-13=-749/96, 7-8=-681/154
BOT CHORD 2-12=-257/38, 11-12=-290/55, 10-11=-213/532, 9-10=-224/599
WEBS 3-12=-1074/251, 3-11=-77/777, 4-11=-394/150, 6-9=-347/119, 7-9=-168/796

**NOTES-**

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 19-0-0, Exterior(2R) 19-0-0 to 23-2-15, Interior(1) 23-2-15 to 29-7-12 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 13. This connection is for uplift only and does not consider lateral forces.
8) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12. This connection is for uplift only and does not consider lateral forces.

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Date:

May 4,2021



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Tampa, FL 33610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | T23820474 |
|---|---|---|---|---|---|---|
| 613090 | A18 | Half Hip | 1 | 1 | Job Reference (optional) | |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:32:06 2021 Page 1
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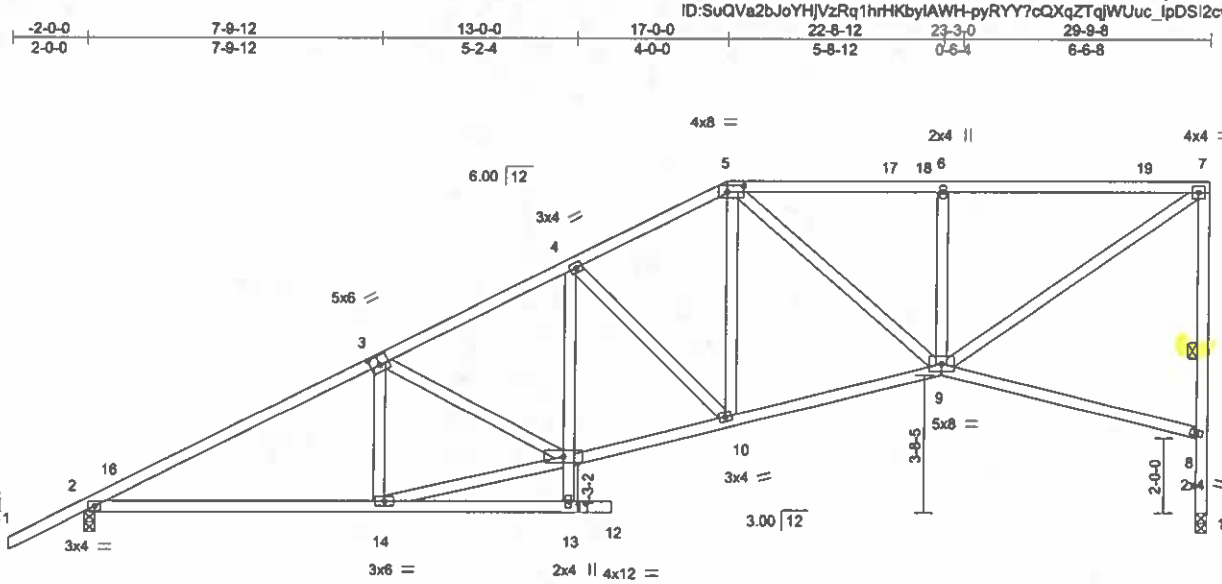



Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [5:0-5-4,0-2-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.76 | Vert(LL) | -0.12 | 2-14 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.72 | Vert(CT) | -0.27 | 2-14 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.40 | Horz(CT) | 0.15 | 15 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.06 | 12 | >999 | 240 | Weight: 186 lb | FT = 20% |

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

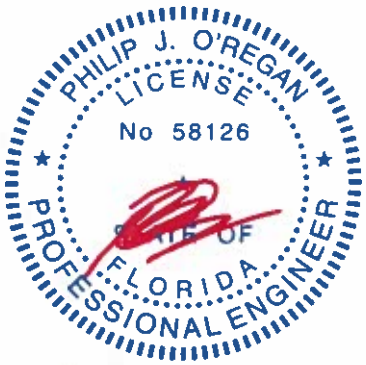
**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 10-0-0 oc bracing: 11-13
WEBS 1 Row at midpt 7-15

VERTICAL LEGS ARE NOT DESIGNED FOR LATERAL LOADS IMPOSED BY SUPPORTS (BEARINGS).

**REACTIONS.** (size) 2=0-3-8, 15=0-3-8
Max Horz 2=274(LC 11)
Max Uplift 2=-103(LC 12), 15=-63(LC 9)
Max Grav 2=1224(LC 1), 15=1098(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1953/109, 3-4=-1786/139, 4-5=-1479/137, 5-6=-1254/145, 6-7=-1254/146, 8-15=-1098/120, 7-8=-1031/178
BOT CHORD 2-14=-304/1658, 10-11=-318/1599, 9-10=-284/1338
WEBS 11-14=-295/1641, 4-10=-365/77, 5-10=-1/464, 6-9=-395/128, 7-9=-230/1509

**NOTES-**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 17-0-0, Exterior(2R) 17-0-0 to 21-2-15, Interior(1) 21-2-15 to 29-7-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 15. This connection is for uplift only and does not consider lateral forces.

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Date:
May 4,2021



MiTek
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Tampa, FL 33610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | T23820475 |
|---|---|---|---|---|---|---|
| 613090 | A19 | Half Hip | 1 | 1 | Job Reference (optional) | |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:32:08 2021 Page 1
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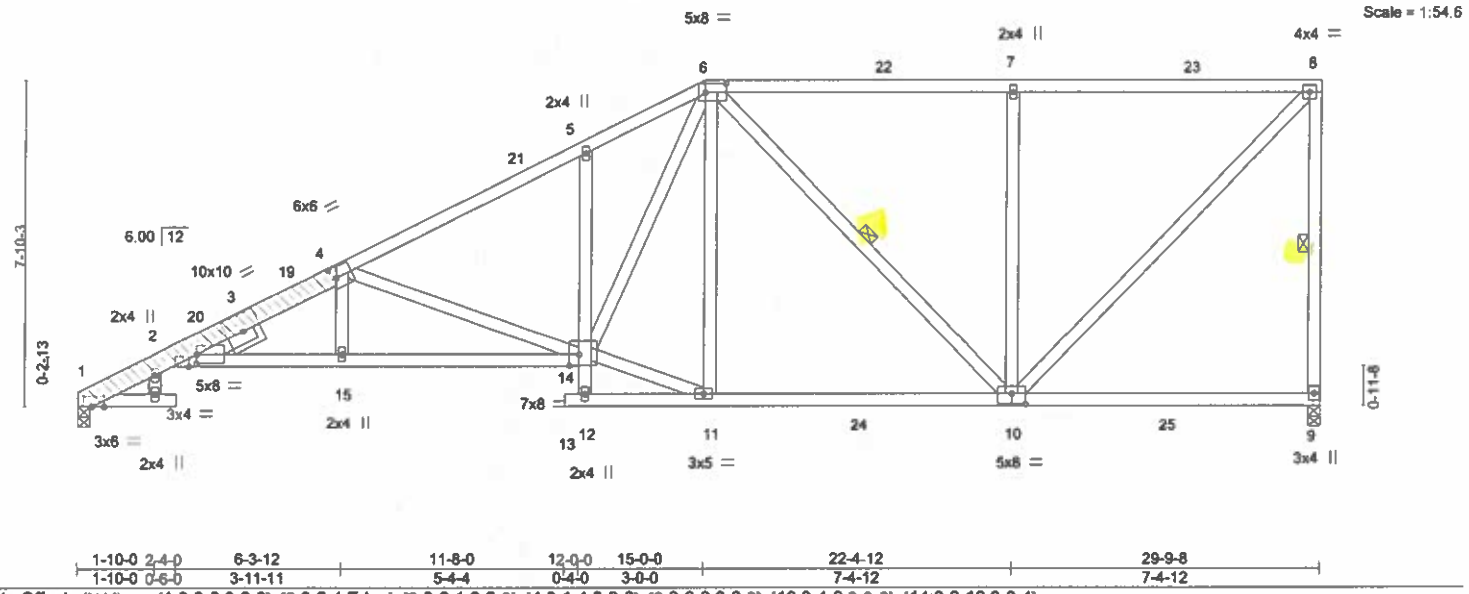





Plate Offsets (X,Y)-- [1:0-3-8,0-0-0], [2:0-2-4,Edge], [2:0-0-1,0-2-8], [4:0-1-4,0-3-0], [6:0-6-0,0-2-8], [10:0-4-0,0-3-0], [14:0-2-12,0-3-4]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.67 | Vert(LL) | -0.22 | 14-15 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.88 | Vert(CT) | -0.40 | 14-15 | >888 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.87 | Horz(CT) | 0.19 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.11 | 14-15 | >999 | 240 | Weight: 214 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 *Except* 1-4: 2x6 SP DSS |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.2 |
| OTHERS | 2x6 SP DSS |
| LBR SCAB | 1-4 2x6 SP DSS one side |
| SLIDER | Left 2x4 SP No.2 -t 1-6-0 |

**BRACING-**

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

**REACTIONS.** (size) 1=0-3-8, 9=0-3-8
Max Horz 1=228(LC 11)
Max Uplift 1=-43(LC 12), 9=-55(LC 9)
Max Grav 1=1240(LC 17), 9=1293(LC 17)

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

| | |
|---|---|
| TOP CHORD | 1-2=-611/54, 2-4=-3130/202, 4-5=-2083/168, 5-6=-2031/217, 6-7=-972/160, 7-8=-972/160, 8-9=-1145/158 |
| BOT CHORD | 2-15=-468/3077, 14-15=-463/3092, 10-11=-209/1323 |
| WEBS | 4-14=-1313/176, 11-14=-181/1364, 6-14=-205/1272, 6-10=-454/79, 7-10=-460/151, 8-10=-142/1404 |

**NOTES-**

1) Attached 7-0-9 scab 1 to 4, front face(s) 2x6 SP DSS with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 1-5-9 from end at joint 1, nail 2 row(s) at 4" o.c. for 5-5-6.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 15-0-0, Exterior(2R) 15-0-0 to 19-2-15, Interior(1) 19-2-15 to 29-7-12 zone; cantilever left and right exposed ; end vertical 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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 9. This connection is for uplift only and does not consider lateral forces.


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6904 Parke East Blvd. Tampa FL 33610
Date:
May 4,2021



MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | T23820476 |
|---|---|---|---|---|---|---|
| 613090 | A20 | Half Hip | 1 | 1 | Job Reference (optional) | |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:32:11 2021 Page 1
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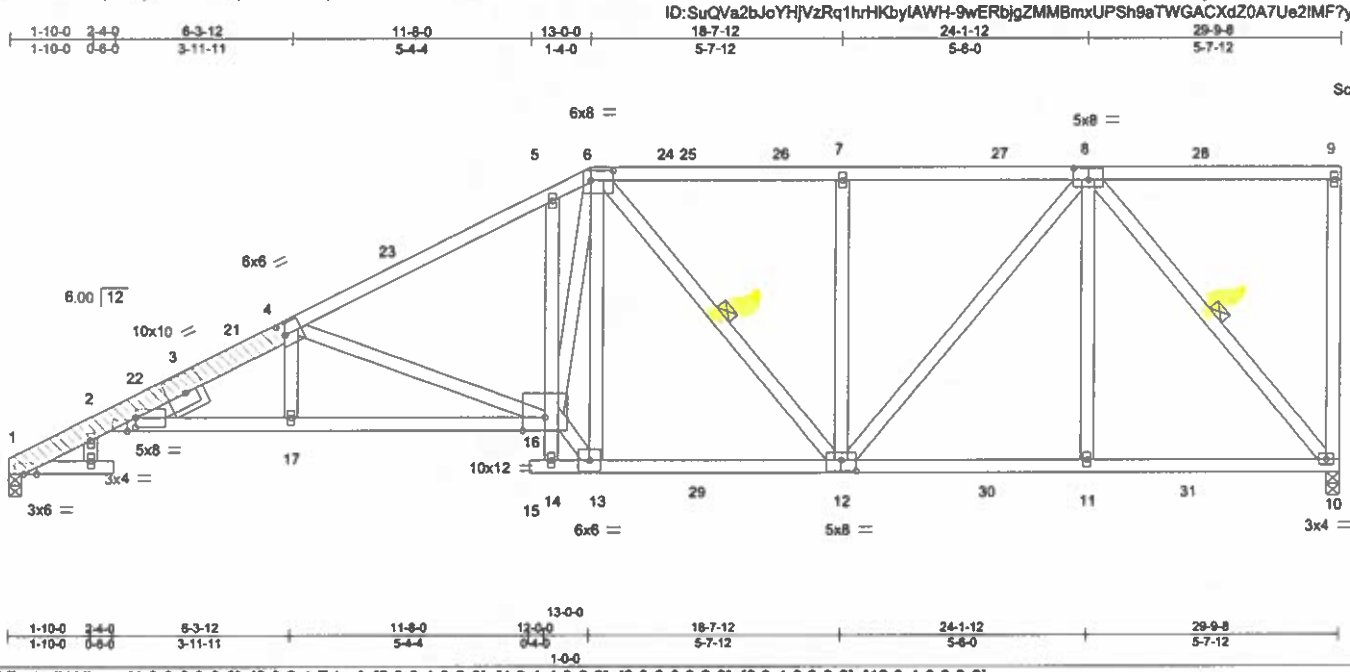






Plate Offsets (X,Y)-- [1:0-3-8,0-0-0], [2:0-2-4,Edge], [2:0-0-1,0-2-8], [4:0-1-4,0-3-0], [6:0-6-0,0-2-8], [8:0-4-0,0-3-0], [12:0-4-0,0-3-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | -0.24 | 16-17 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.91 | Vert(CT) | -0.42 | 16-17 | >836 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.88 | Horz(CT) | 0.22 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.11 | 16-17 | >999 | 240 | Weight: 221 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 *Except* 1-4: 2x6 SP DSS |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.2 |
| OTHERS | 2x6 SP DSS |
| LBR SCAB | 1-4 2x6 SP DSS one side |
| SLIDER | Left 2x4 SP No.2 -t 1-6-0 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 3-11-3 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-9-10 oc bracing: 2-17 8-10-5 oc bracing: 16-17. 6-0-0 oc bracing: 14-16 |
| WEBS | 1 Row at midpt 6-12, 8-10 |

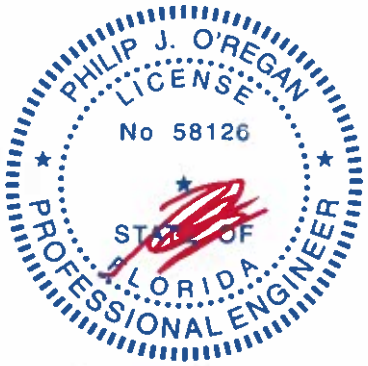
**REACTIONS.** (size) 1=0-3-8, 10=0-3-8
Max Horz 1=198(LC 11)
Max Uplift 1=-44(LC 12), 10=-53(LC 12)
Max Grav 1=1240(LC 17), 10=1275(LC 17)

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

| | |
|---|---|
| TOP CHORD | 1-2=-593/53, 2-4=-3133/224, 4-5=-2075/172, 5-6=-1954/214, 6-7=-1363/172, 7-8=-1363/172 |
| BOT CHORD | 2-17=-447/3068, 16-17=-443/3084, 12-13=-212/1490, 11-12=-127/934, 10-11=-127/934 |
| WEBS | 4-16=-1325/181, 13-16=-220/1926, 6-16=-314/1873, 6-13=-1056/218, 7-12=-307/108, 8-12=-82/715, 8-11=0/321, 8-10=-1413/123 |

**NOTES-**

1) Attached 7-0-9 scab 1 to 4, front face(s) 2x6 SP DSS with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 1-5-9 from end at joint 1, nail 2 row(s) at 4" o.c. for 5-5-6.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 13-0-0, Exterior(2R) 13-0-0 to 17-2-15, Interior(1) 17-2-15 to 29-7-12 zone; cantilever left and right exposed ; end vertical 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) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 10. This connection is for uplift only and does not consider lateral forces.

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6904 Parke East Blvd. Tampa FL 33610
Date:

May 4,2021



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Tampa, FL 33610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | |
|---|---|---|---|---|---|---|
| 613090 | A21 | Half Hip | 1 | 1 | Job Reference (optional) | T23820477 |

Tibbetts Lumber Co., LLC. Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:32:13 2021 Page 1
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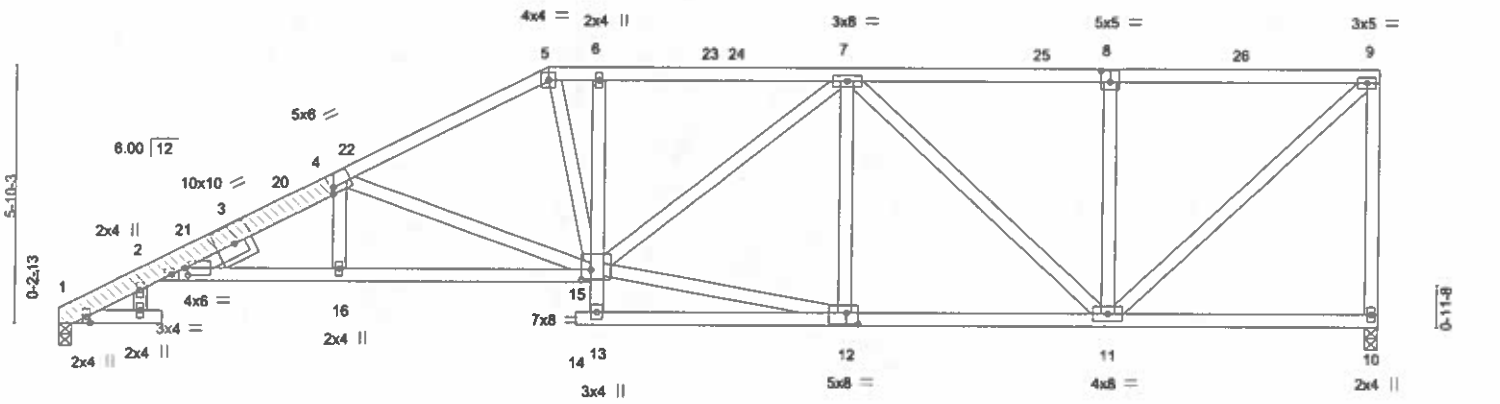
| 1-10-0 | 2-4-0 | 6-3-13 | 11-0-0 | 11-8-0 | 17-9-1 | 23-8-7 | 29-9-8 |
|---|---|---|---|---|---|---|---|
| 1-10-0 | 0-6-0 | 3-11-12 | 4-8-3 | 0-8-0 | 6-1-1 | 5-11-5 | 6-1-1 |

Scale = 1:51.4




| 1-10-0 | 2-4-0 | 6-3-13 | 11-8-0 | 12-0-0 | 17-9-1 | 23-8-7 | 29-9-8 |
|---|---|---|---|---|---|---|---|
| 1-10-0 | 0-6-0 | 3-11-12 | 5-4-4 | 0-4-0 | 5-9-1 | 5-11-5 | 6-1-1 |

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.55 | Vert(LL) | -0.18 | 15-16 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.77 | Vert(CT) | -0.36 | 15-16 | >996 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.72 | Horz(CT) | 0.18 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.11 | 15-16 | >999 | 240 | Weight: 207 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 *Except* 1-4: 2x6 SP DSS |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.2 |
| OTHERS | 2x6 SP DSS |
| LBR SCAB | 1-4 2x6 SP DSS one side |
| SLIDER | Left 2x4 SP No.2 -t 1-6-0 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 4-2-3 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 9-1-14 oc bracing. Except: 10-0-0 oc bracing: 13-15 |

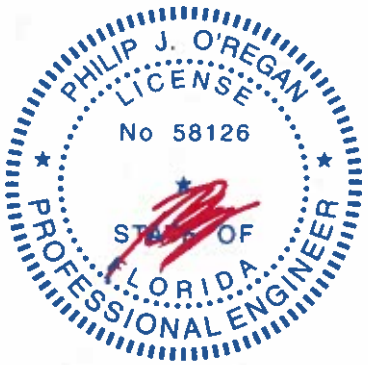
**REACTIONS.** (size) 1=0-3-8, 10=0-3-8
Max Horz 1=167(LC 11)
Max Uplift 1=-45(LC 12), 10=-52(LC 12)
Max Grav 1=1101(LC 1), 10=1095(LC 1)

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

| | |
|---|---|
| TOP CHORD | 1-2=-482/53, 2-4=-2689/231, 4-5=-1818/174, 5-6=-1726/184, 6-7=-1719/188, 7-8=-980/138, 8-9=-980/138, 9-10=-1042/133 |
| BOT CHORD | 2-16=-412/2563, 15-16=-407/2572, 11-12=-183/1439 |
| WEBS | 4-15=-1074/169, 5-15=-41/686, 12-15=-187/1357, 7-15=-90/361, 7-11=-627/72, 8-11=-348/116, 9-11=-122/1323 |

**NOTES-**

1) Attached 7-0-10 scab 1 to 4, front face(s) 2x6 SP DSS with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 1-5-9 from end at joint 1, nail 2 row(s) at 4" o.c. for 5-5-7.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 11-0-0, Exterior(2R) 11-0-0 to 15-2-15, Interior(1) 15-2-15 to 29-7-12 zone; cantilever left and right exposed ; end vertical 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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 10. This connection is for uplift only and does not consider lateral forces.

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Date:

May 4,2021




6904 Parke East Blvd.
Tampa, FL 33610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | |
|---|---|---|---|---|---|---|
| 613090 | A22 | Half Hip | 1 | 1 | Job Reference (optional) | T23820478 |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:32:15 2021 Page 1
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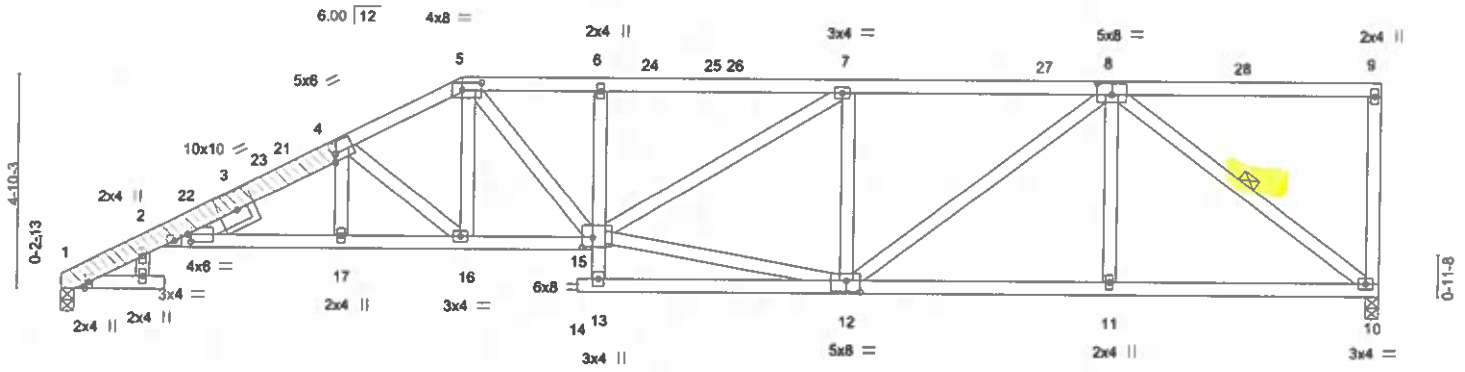
| 1-10-0 | 2-4-0 | 6-3-12 | 9-0-0 | 11-8-0 | 17-9-1 | 23-8-7 | 29-9-8 |
|---|---|---|---|---|---|---|---|
| 1-10-0 | 0-6-0 | 3-11-12 | 2-8-4 | 2-8-0 | 6-1-1 | 5-11-5 | 6-1-1 |

Scale = 1:51.4




| 1-10-0 | 2-4-0 | 6-3-12 | 9-0-0 | 11-8-0 | 12-0-0 | 17-9-1 | 23-8-7 | 29-9-8 |
|---|---|---|---|---|---|---|---|---|
| 1-10-0 | 0-6-0 | 3-11-12 | 2-8-4 | 2-8-0 | 0-4-0 | 5-9-1 | 5-11-5 | 6-1-1 |

Plate Offsets (X,Y)-- [2:0-0-15,0-2-0], [4:Edge,0-2-0], [5:0-5-4,0-2-0], [8:0-4-0,0-3-0], [12:0-3-12,0-3-0], [15:0-2-12,0-2-12]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.42 | Vert(LL) | -0.19 | 14 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.76 | Vert(CT) | -0.34 | 14 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.40 | Horz(CT) | 0.19 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.11 | 14 | >999 | 240 | Weight: 199 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 *Except* 1-4: 2x6 SP DSS |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.2 |
| OTHERS | 2x6 SP DSS |
| LBR SCAB | 1-4 2x6 SP DSS one side |
| SLIDER | Left 2x4 SP No.2 -t 1-6-0 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 3-8-8 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 9-8-14 oc bracing. Except: 10-0-0 oc bracing: 13-15 |
| WEBS | 1 Row at midpt 8-10 |

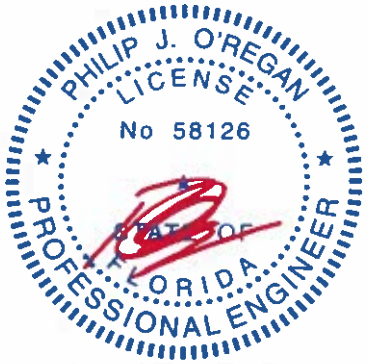
**REACTIONS.** (size) 10=0-3-8, 1=0-3-8
Max Horz 1=137(LC 11)
Max Uplift 10=-52(LC 12), 1=-45(LC 12)
Max Grav 10=1095(LC 1), 1=1101(LC 1)

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

| | |
|---|---|
| TOP CHORD | 1-2=-463/53, 2-4=-2655/235, 4-5=-2176/203, 5-6=-2193/209, 6-7=-2178/211, 7-8=-1752/180 |
| BOT CHORD | 2-17=-369/2529, 16-17=-366/2535, 15-16=-260/1911, 11-12=-132/1196, 10-11=-132/1196 |
| WEBS | 4-16=-793/132, 5-16=-45/544, 5-15=-38/427, 12-15=-194/1589, 7-15=-94/506, 7-12=-588/144, 8-12=-67/701, 8-11=0/259, 8-10=-1483/123 |

**NOTES-**

1) Attached 7-0-9 scab 1 to 4, front face(s) 2x6 SP DSS with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 0-0-4 from end at joint 4, nail 2 row(s) at 4" o.c. for 5-5-6.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 29-7-12 zone; cantilever left and right exposed ; end vertical 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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10 and 1. This connection is for uplift only and does not consider lateral forces.

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Date:

May 4,2021




MiTek
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Tampa, FL 33610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | T23820479 |
|---|---|---|---|---|---|---|
| 613090 | A23 | Half Hip Girder | 1 | 2 | Job Reference (optional) | |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:32:17 2021 Page 1
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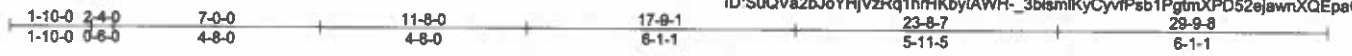


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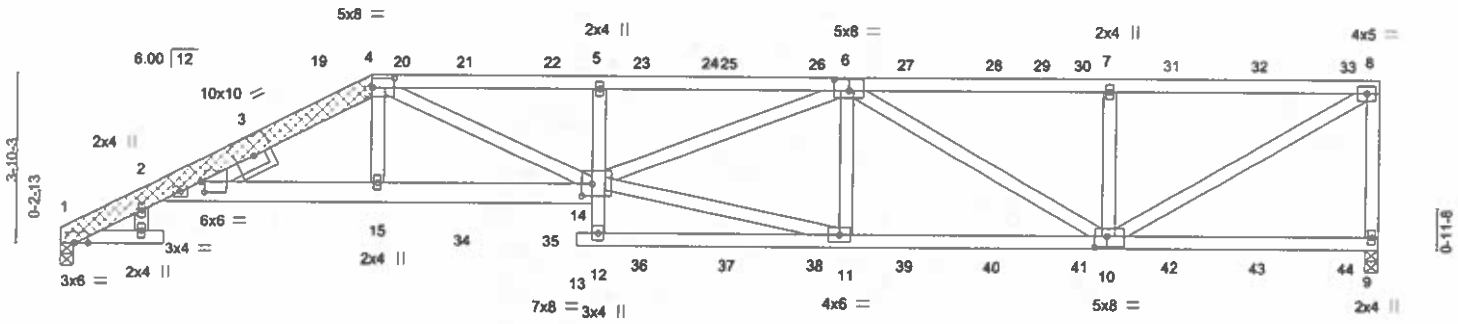


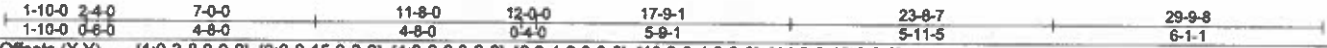




Plate Offsets (X,Y)-- [1:0-3-8,0-0-0], [2:0-0-15,0-3-0], [4:0-6-0,0-2-8], [6:0-4-0,0-3-0], [10:0-3-4,0-3-0], [14:0-2-12,0-3-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.52 | Vert(LL) | -0.25 | 13 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.83 | Vert(CT) | -0.48 | 13 | >741 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.51 | Horz(CT) | 0.20 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.15 | 13 | >999 | 240 | Weight: 424 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 *Except* 1-4: 2x6 SP DSS |
| BOT CHORD | 2x4 SP No.2 *Except* 2-14: 2x6 SP No.2 |
| WEBS | 2x4 SP No.2 |
| OTHERS | 2x6 SP DSS |
| LBR SCAB | 1-4 2x6 SP DSS both sides |
| SLIDER | Left 2x4 SP No.2 -t 1-7-0 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 4-4-8 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 10-0-0 oc bracing: 12-14 |

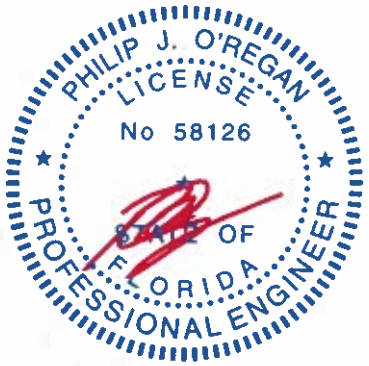
**REACTIONS.** (size) 1=0-3-8, 9=0-3-8
Max Horz 1=107(LC 5)
Max Uplift 1=-26(LC 8), 9=-147(LC 8)
Max Grav 1=2096(LC 1), 9=2346(LC 1)

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

| | |
|---|---|
| TOP CHORD | 1-2=-911/18, 2-4=-5619/54, 4-5=-6608/255, 5-6=-6527/265, 6-7=-3226/221, 7-8=-3233/223, 8-9=-2210/223 |
| BOT CHORD | 2-15=-34/5263, 14-15=-22/5311, 12-14=0/276, 5-14=-481/192, 11-12=0/657, 10-11=-219/4736 |
| WEBS | 4-15=0/851, 4-14=-216/1435, 11-14=-239/4143, 6-14=0/1967, 6-11=-532/198, 6-10=-1764/56, 7-10=-695/255, 8-10=-213/3693 |

**NOTES-**

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Attached 7-11-12 scab 1 to 4, both face(s) 2x6 SP DSS with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 1-6-0 from end at joint 1, nail 3 row(s) at 7" o.c. for 2-0-0; starting at 4-0-1 from end at joint 1, nail 2 row(s) at 7" o.c. for 3-10-2.
4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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**NOTES-**

9) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 9. This connection is for uplift only and does not consider lateral forces.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 94 lb down and 60 lb up at 7-0-0, 94 lb down and 57 lb up at 9-0-12, 94 lb down and 57 lb up at 11-0-12, 111 lb down and 77 lb up at 13-0-12, 111 lb down and 77 lb up at 15-0-12, 111 lb down and 77 lb up at 17-0-12, 111 lb down and 77 lb up at 19-0-12, 111 lb down and 77 lb up at 21-0-12, 111 lb down and 77 lb up at 23-0-12, 111 lb down and 77 lb up at 25-0-12, and 111 lb down and 77 lb up at 27-0-12, and 122 lb down and 74 lb up at 29-0-12 on top chord, and 383 lb down at 7-0-0, 79 lb down at 9-0-12, 79 lb down at 11-0-12, 96 lb down at 13-0-12, 96 lb down at 15-0-12, 96 lb down at 17-0-12, 96 lb down at 19-0-12, 96 lb down at 21-0-12, 96 lb down at 23-0-12, 96 lb down at 25-0-12, and 96 lb down at 27-0-12, and 104 lb down at 29-0-12 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=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-76, 2-4=-54, 4-8=-54, 2-14=-20, 12-13=-20, 9-12=-20
Concentrated Loads (lb)
Vert: 4=-94(B) 15=-381(B) 21=-94(B) 22=-94(B) 23=-111(B) 25=-111(B) 26=-111(B) 27=-111(B) 28=-111(B) 30=-111(B) 31=-111(B) 32=-111(B) 33=-122(B) 34=-68(B) 35=-68(B) 36=-48(B) 37=-48(B) 38=-48(B) 39=-48(B) 40=-48(B) 41=-48(B) 42=-48(B) 43=-48(B) 44=-52(B)

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame |
|---|---|---|---|---|---|
| 613090 . | B01 | HIP GIRDER | 1 | 2 | T23820480 |

Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:32:22 2021 Page 1

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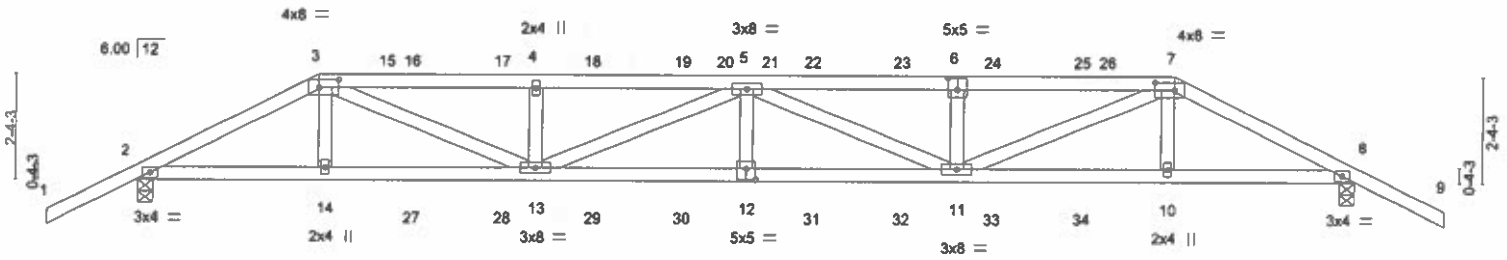
| -2-0-0 | 4-0-0 | 8-9-14 | 13-6-0 | 18-2-2 | 23-0-0 | 27-0-0 | 29-0-0 |
|---|---|---|---|---|---|---|---|
| 2-0-0 | 4-0-0 | 4-9-14 | 4-8-2 | 4-8-2 | 4-9-14 | 4-0-0 | 2-0-0 |

Scale = 1:50.5




| 4-0-0 | 8-9-14 | 13-6-0 | 18-2-2 | 23-0-0 | 27-0-0 |
|---|---|---|---|---|---|
| 4-0-0 | 4-9-14 | 4-8-2 | 4-8-2 | 4-9-14 | 4-0-0 |

Plate Offsets (X,Y)-- [3:0-5-4,0-2-0], [6:0-2-8,0-3-0], [7:0-5-4,0-2-0], [12:0-2-8,0-3-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.26 | Vert(LL) | -0.14 | 12 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.58 | Vert(CT) | -0.28 | 12 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.21 | Horz(CT) | 0.06 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.17 | 12 | >999 | 240 | Weight: 260 lb | FT = 20% |

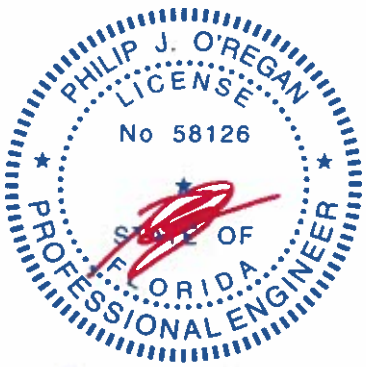
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

**REACTIONS.** (size) 2=0-4-0, 8=0-4-0
Max Horz 2=-50(LC 30)
Max Uplift 2=-439(LC 8), 8=-443(LC 8)
Max Grav 2=1326(LC 1), 8=1351(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2285/692, 3-4=-3548/1085, 4-5=-3548/1085, 5-6=-3570/1089, 6-7=-3570/1089, 7-8=-2337/701
BOT CHORD 2-14=-538/1967, 13-14=-543/1977, 12-13=-1146/4051, 11-12=-1146/4051, 10-11=-561/2022, 8-10=-556/2012
WEBS 3-14=-69/276, 3-13=-497/1722, 4-13=-312/94, 5-13=-560/163, 5-12=-38/288, 5-11=-526/155, 6-11=-312/94, 7-11=-493/1687, 7-10=-69/276

**NOTES-**
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.

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May 4,2021



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**NOTES-**

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 51 lb down and 38 lb up at 4-0-0, 51 lb down and 34 lb up at 6-0-12, 51 lb down and 34 lb up at 8-0-12, 51 lb down and 34 lb up at 10-0-12, 51 lb down and 34 lb up at 12-0-12, 51 lb down and 34 lb up at 13-6-0, 51 lb down and 34 lb up at 14-11-4, 51 lb down and 34 lb up at 16-11-4, 51 lb down and 34 lb up at 18-11-4, and 51 lb down and 34 lb up at 20-11-4, and 98 lb down and 90 lb up at 23-0-0 on top chord, and 151 lb down and 65 lb up at 4-0-0, 36 lb down and 13 lb up at 6-0-12, 36 lb down and 13 lb up at 8-0-12, 36 lb down and 13 lb up at 10-0-12, 36 lb down and 13 lb up at 12-0-12, 36 lb down and 13 lb up at 13-6-0, 36 lb down and 13 lb up at 14-11-4, 36 lb down and 13 lb up at 16-11-4, 36 lb down and 13 lb up at 18-11-4, and 36 lb down and 13 lb up at 20-11-4, and 151 lb down and 65 lb up at 22-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-54, 3-7=-54, 7-9=-54, 2-8=-20
   Concentrated Loads (lb)
   Vert: 3=-17(F) 7=-51(F) 14=-43(F) 12=-18(F) 5=-17(F) 10=-43(F) 16=-17(F) 17=-17(F) 18=-17(F) 19=-17(F) 22=-17(F) 23=-17(F) 24=-17(F) 25=-17(F) 27=-18(F) 28=-18(F) 29=-18(F) 30=-18(F) 31=-18(F) 32=-18(F) 33=-18(F) 34=-18(F)

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | |
|---|---|---|---|---|---|---|
| 613090 * | C1 | Corner Jack | 16 | 1 | Job Reference (optional) | T23820481 |

Tibbetts Lumber Co., LLC. Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:32:23 2021 Page 1
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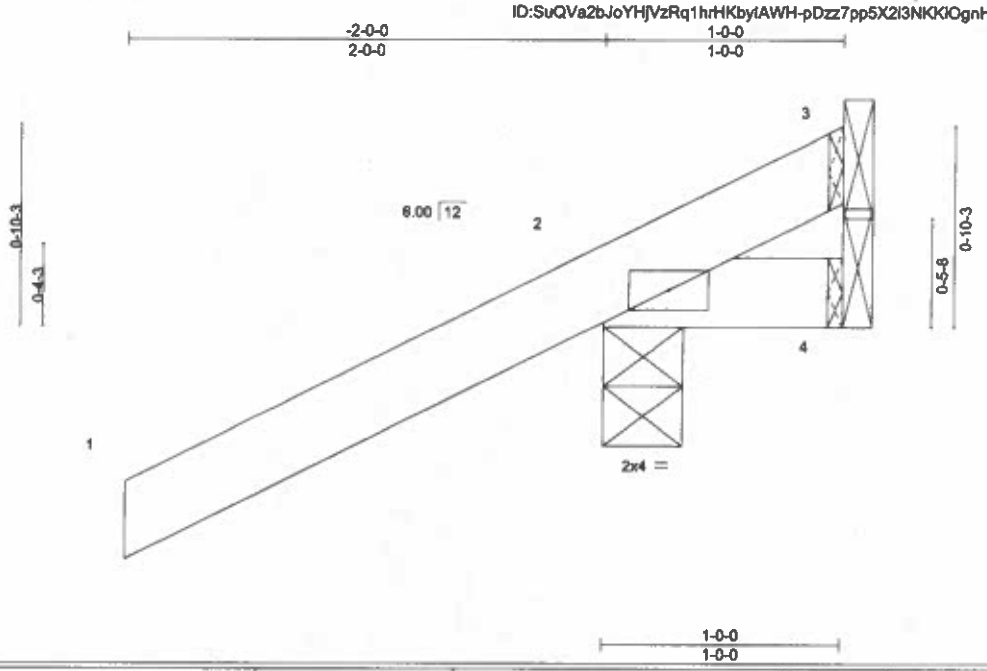



| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.26 | Vert(LL) | -0.00 | 2 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.01 | Vert(CT) | -0.00 | 2 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-P | | Wind(LL) | 0.00 | 2 | **** | 240 | Weight: 7 lb | FT = 20% |

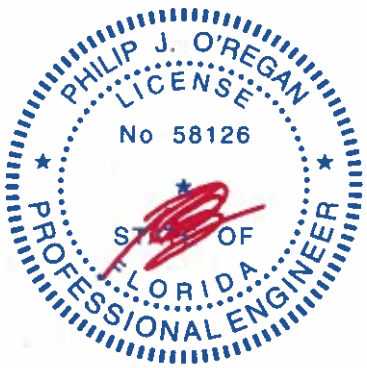
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 3=Mechanical, 2=0-4-0, 4=Mechanical
Max Horz 2=48(LC 12)
Max Uplift 3=-91(LC 1), 2=-135(LC 12)
Max Grav 3=68(LC 12), 2=262(LC 1), 4=19(LC 3)

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

**NOTES-**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
7) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.

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| Job | Truss | Truss Type | Qty | Ply | 2169-A Tray Frame | T23820482 |
|---|---|---|---|---|---|---|
| 613090 | C3 | Corner Jack | 12 | 1 | Job Reference (optional) | |

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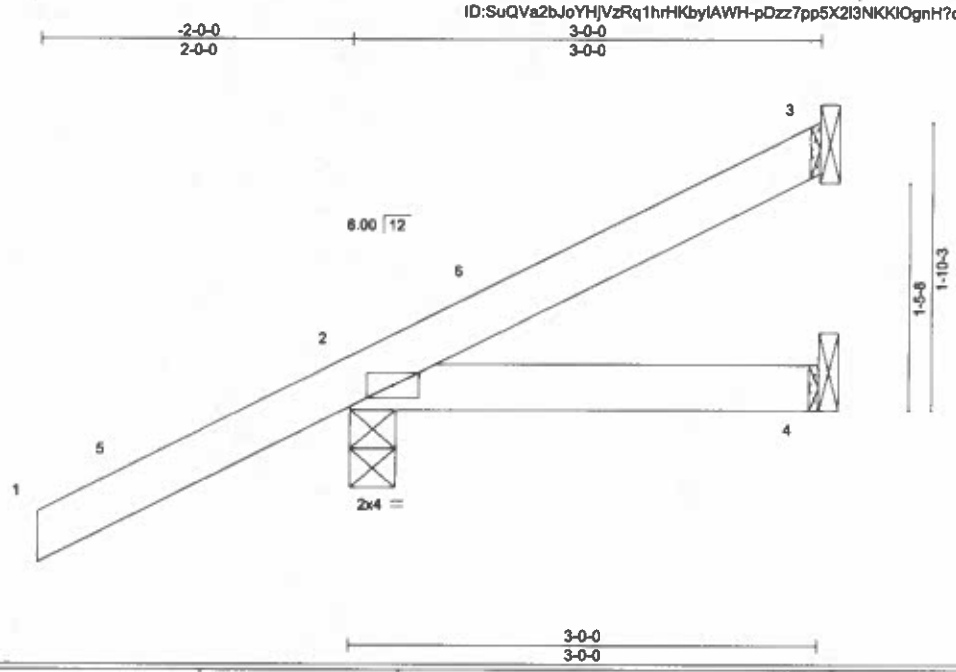



| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.27 | Vert(LL) | -0.00 | 2-4 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.09 | Vert(CT) | -0.01 | 2-4 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-P | | Wind(LL) | 0.00 | 2 | **** | 240 | Weight: 13 lb | FT = 20% |

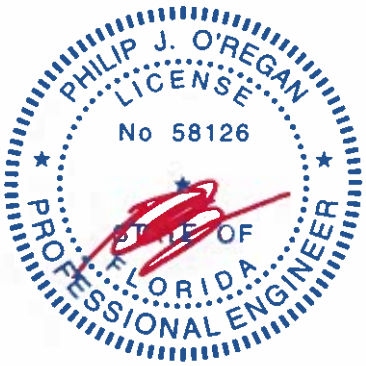
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

**REACTIONS.** (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=71(LC 12)
Max Uplift 3=-14(LC 9), 2=-85(LC 12)
Max Grav 3=33(LC 17), 2=264(LC 1), 4=56(LC 3)

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

**NOTES-**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 2-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
7) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.

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Date:
May 4,2021



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Tampa, FL 33610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | |
|---|---|---|---|---|---|---|
| 613090 | C3A | Corner Jack | 2 | 1 | Job Reference (optional) | T23820483 |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:32:24 2021 Page 1
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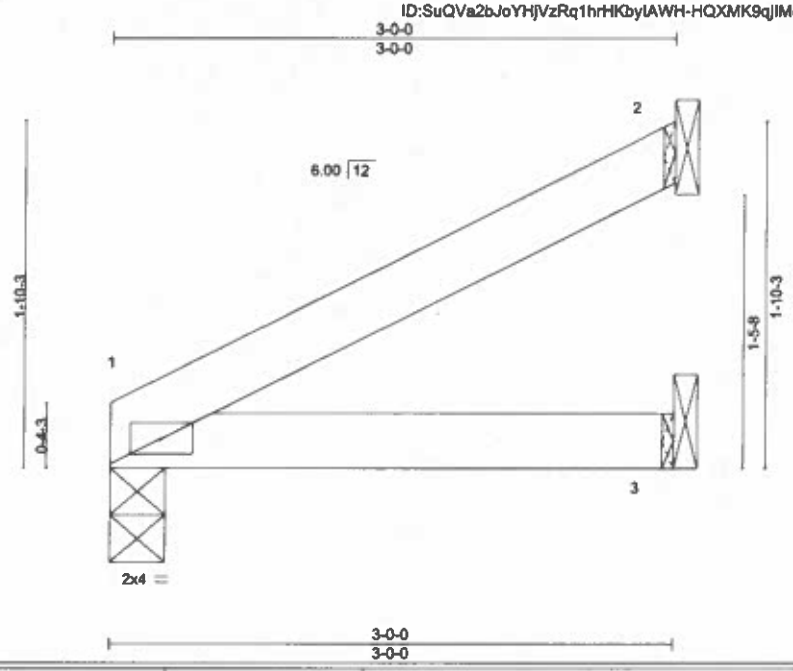



| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.13 | Vert(LL) | -0.00 | 1-3 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.09 | Vert(CT) | -0.01 | 1-3 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-P | | Wind(LL) | 0.00 | 1 | **** | 240 | Weight: 10 lb | FT = 20% |

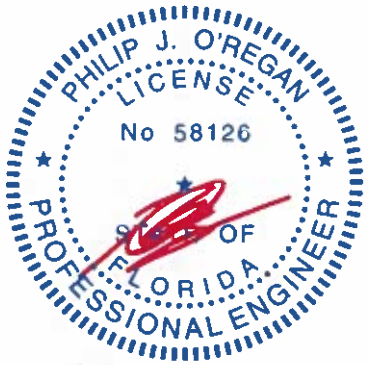
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

**REACTIONS.** (size) 1=0-3-8, 2=Mechanical, 3=Mechanical
Max Horz 1=36(LC 12)
Max Uplift 2=-31(LC 12)
Max Grav 1=103(LC 1), 2=75(LC 1), 3=56(LC 3)

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

**NOTES-**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
7) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 3. This connection is for uplift only and does not consider lateral forces.

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Date:
May 4,2021



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Tampa, FL 33610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | T23820484 |
|---|---|---|---|---|---|---|
| 613090 | C3T | Corner Jack | 2 | 1 | Job Reference (optional) | |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:32:25 2021 Page 1
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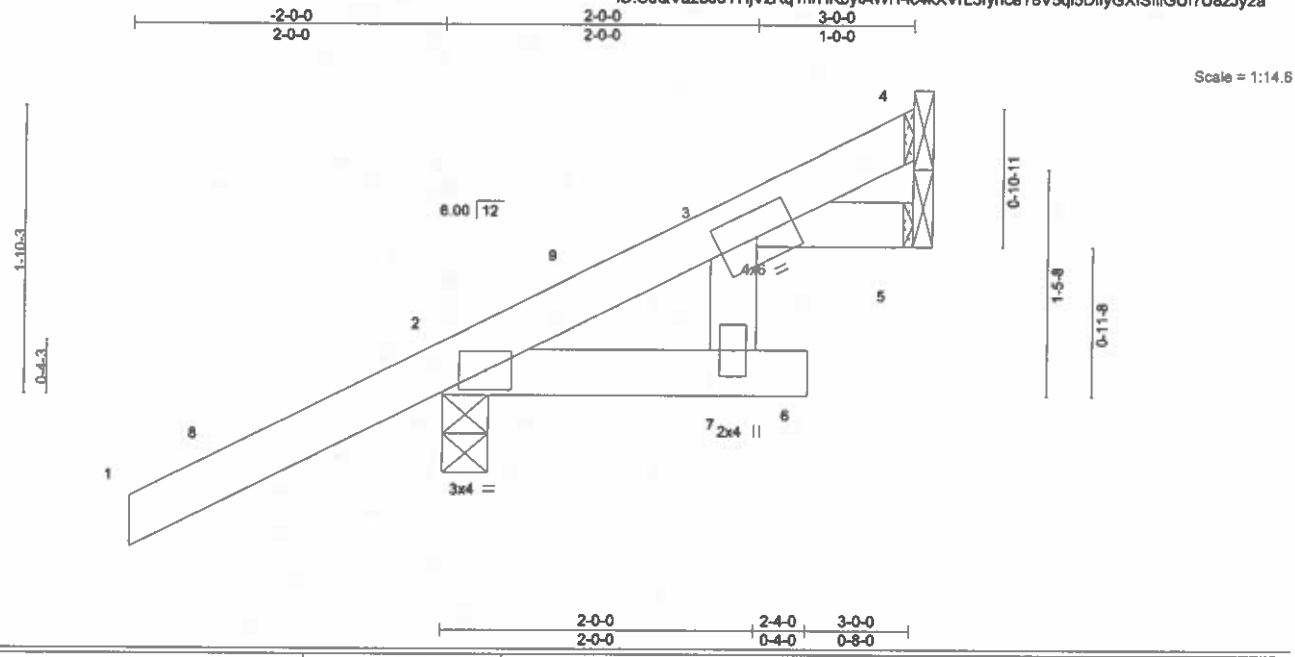



| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.27 | Vert(LL) | -0.00 | 7 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.14 | Vert(CT) | -0.01 | 6 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-R | | Wind(LL) | -0.01 | 6 | >999 | 240 | Weight: 15 lb | FT = 20% |

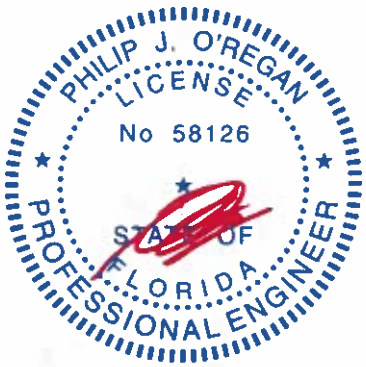
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

**REACTIONS.** (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=71(LC 12)
Max Uplift 4=-2(LC 9), 2=-83(LC 12)
Max Grav 4=39(LC 17), 2=267(LC 1), 5=45(LC 3)

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

**NOTES-**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 2-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
7) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.

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Date:
May 4,2021





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| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | |
|---|---|---|---|---|---|---|
| 613090 | C5 | Jack-Open | 7 | 1 | Job Reference (optional) | T23820485 |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:32.26 2021 Page 1
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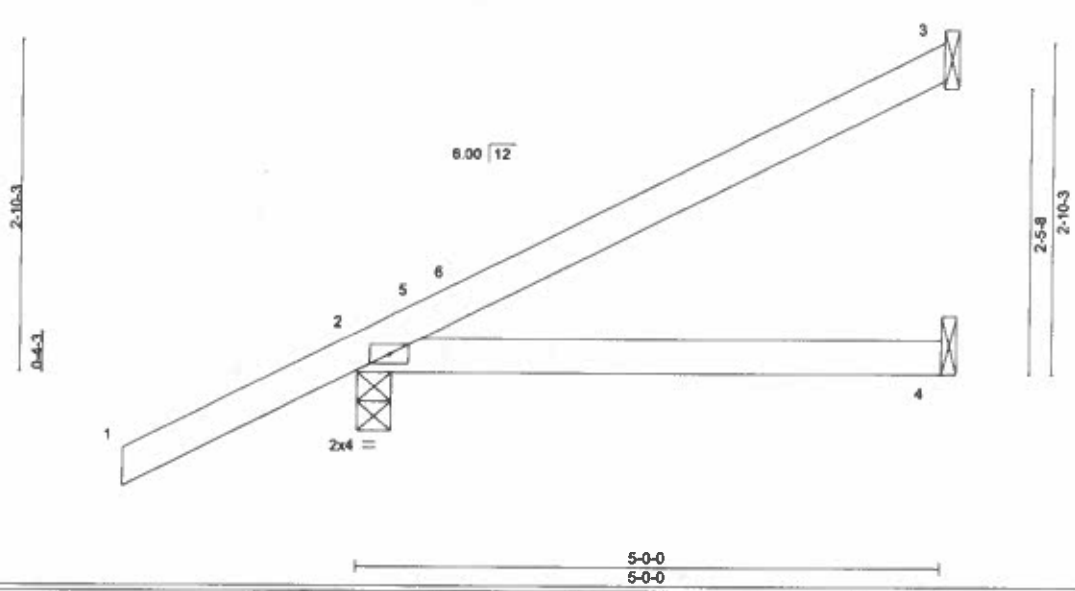


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.29 | Vert(LL) | -0.03 | 2-4 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.28 | Vert(CT) | -0.06 | 2-4 | >909 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-P | | Wind(LL) | 0.00 | 2 | **** | 240 | Weight: 19 lb | FT = 20% |

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

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

**REACTIONS.** (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=95(LC 12)
Max Uplift 3=-36(LC 12), 2=-71(LC 12)
Max Grav 3=103(LC 1), 2=319(LC 1), 4=96(LC 3)

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

**NOTES-**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
7) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.


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May 4,2021




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Tampa, FL 33610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | |
|---|---|---|---|---|---|---|
| 613090 | C5A | Corner Jack | 1 | 1 | Job Reference (optional) | T23820486 |

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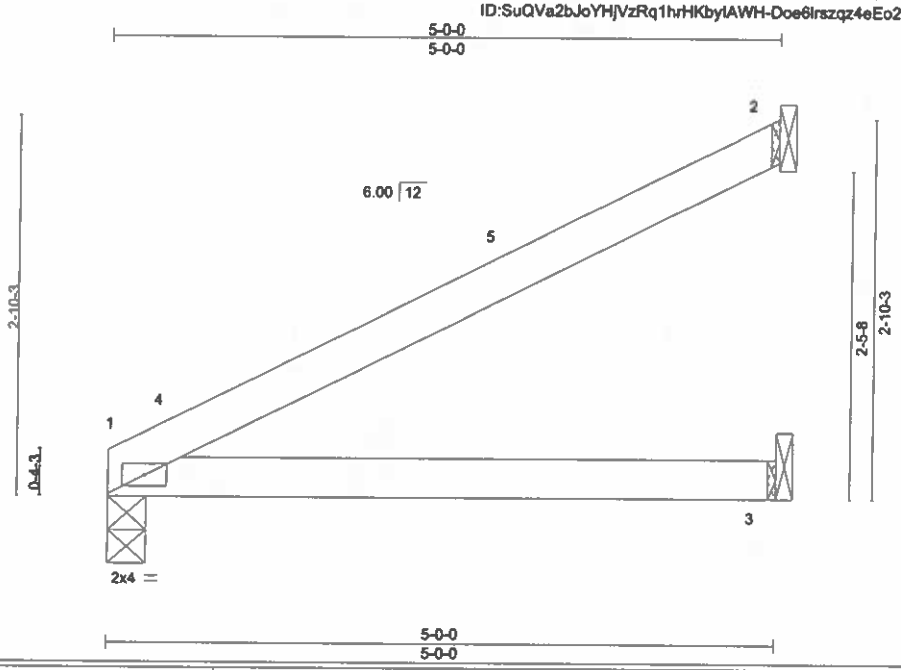


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.41 | Vert(LL) | -0.03 | 1-3 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.28 | Vert(CT) | -0.06 | 1-3 | >908 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-P | | Wind(LL) | 0.00 | 1 | **** | 240 | Weight: 16 lb | FT = 20% |

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

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

**REACTIONS.** (size) 1=0-3-7, 2=Mechanical, 3=Mechanical
Max Horz 1=60(LC 12)
Max Uplift 2=-53(LC 12)
Max Grav 1=177(LC 1), 2=129(LC 1), 3=96(LC 3)

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

**NOTES-**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
7) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 3. This connection is for uplift only and does not consider lateral forces.


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| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | T23820487 |
|---|---|---|---|---|---|---|
| 613090 | C5T | Corner Jack | 2 | 1 | Job Reference (optional) | |

Tibbetts Lumber Co., LLC. Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:32:27 2021 Page 1
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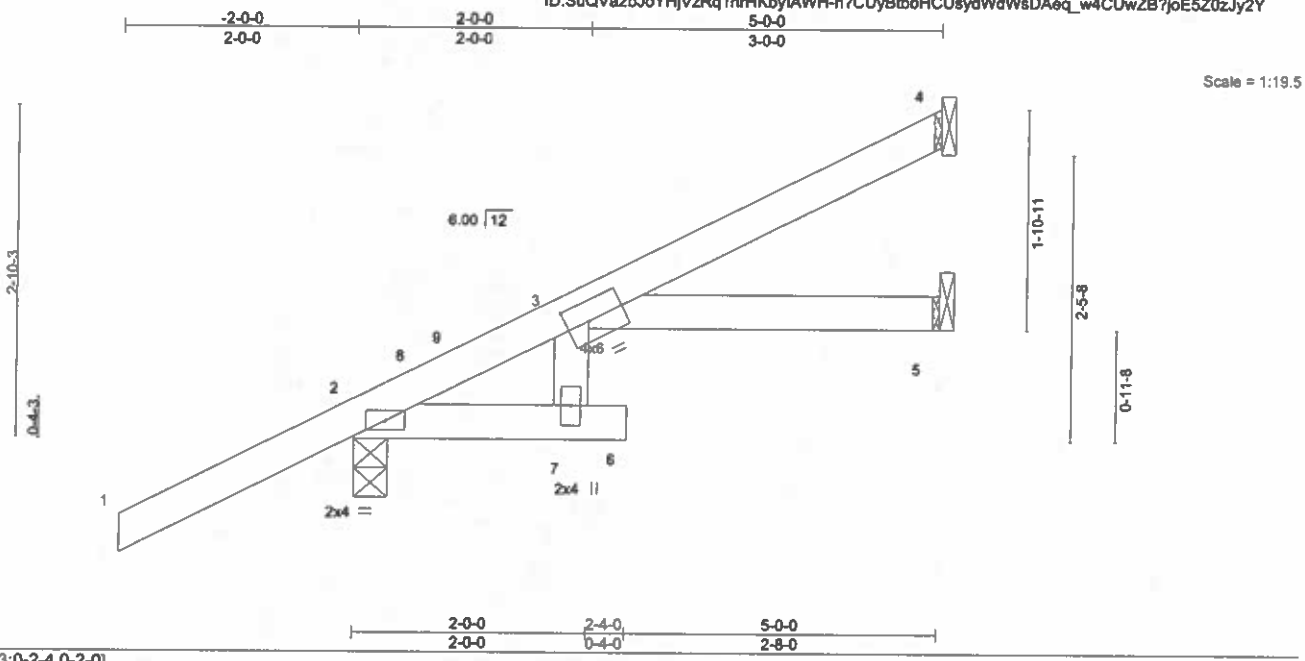


Plate Offsets (X,Y)-- [3:0-2-4,0-2-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.30 | Vert(LL) | -0.03 | 6 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.22 | Vert(CT) | -0.06 | 6 | >915 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.03 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-R | | Wind(LL) | 0.04 | 6 | >999 | 240 | Weight: 21 lb | FT = 20% |

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

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

**REACTIONS.** (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=95(LC 12)
Max Uplift 4=-22(LC 12), 2=-67(LC 12)
Max Grav 4=95(LC 1), 2=325(LC 1), 5=82(LC 3)

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

**NOTES-**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
7) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.


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May 4,2021



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| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | |
|---|---|---|---|---|---|---|
| 613090 | D01 | Common Girder | 1 | 2 | Job Reference (optional) | T23820488 |

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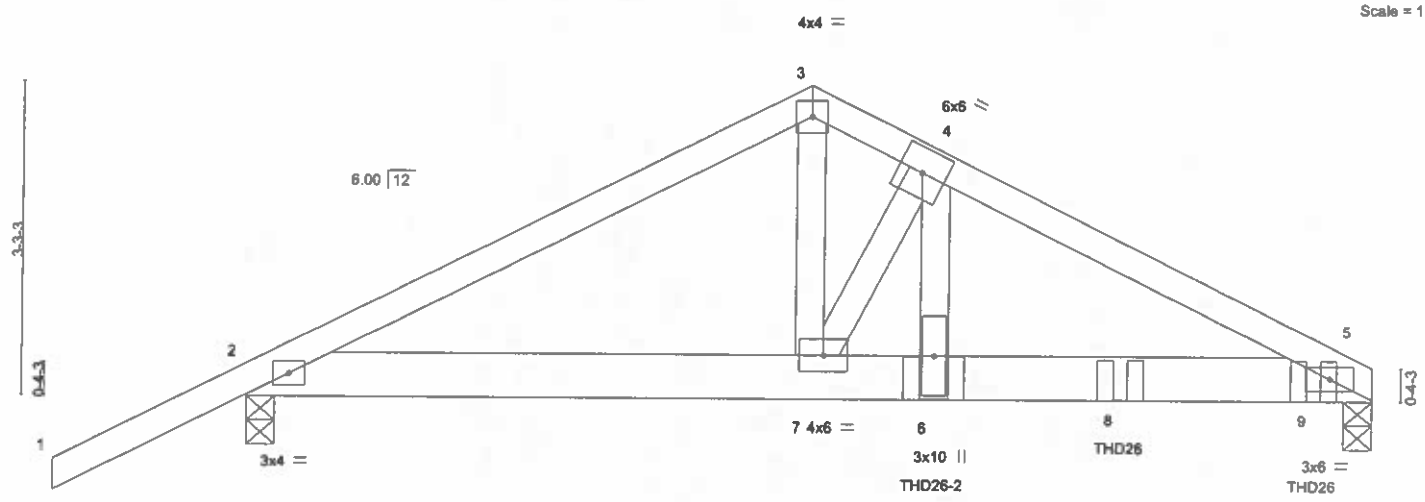
Scale = 1:23.6




5-10-0 5-10-0 | 7-1-8 1-3-8 | 11-8-0 4-6-8

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.50 | Vert(LL) | -0.07 | 5-6 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.63 | Vert(CT) | -0.12 | 5-6 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.59 | Horz(CT) | 0.02 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.04 | 5-6 | >999 | 240 | Weight: 120 lb | FT = 20% |

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

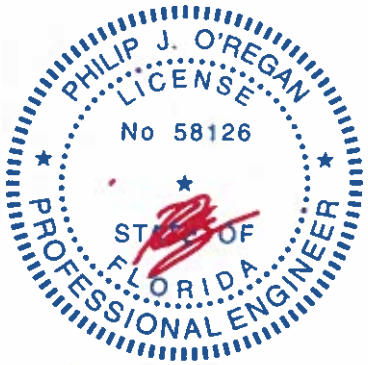
**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-4-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 5=0-3-8, 2=0-3-8
Max Horz 2=61(LC 24)
Max Uplift 5=-335(LC 8), 2=-222(LC 8)
Max Grav 5=5110(LC 1), 2=2225(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4260/309, 3-4=-4165/326, 4-5=-6675/495
BOT CHORD 2-7=-227/3735, 6-7=-408/5923, 5-6=-408/5923
WEBS 3-7=-235/3541, 4-7=-4405/361, 4-6=-346/4801

**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: 2x6 - 2 rows staggered at 0-2-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) 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) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5 and 2. This connection is for uplift only and does not consider lateral forces.
9) Use MiTek THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent at 7-1-8 from the left end to connect truss(es) to back face of bottom chord.
10) Use MiTek THD26 (With 18-16d nails into Girder & 12-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 9-0-12 from the left end to 11-0-12 to connect truss(es) to back face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.

**LOAD CASE(S)** Standard

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Date:

May 4,2021



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**LOAD CASE(S)** Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-54, 3-5=-54, 2-5=-20
   Concentrated Loads (lb)
   Vert: 6=-3331(B) 8=-1520(B) 9=-1526(B)

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | T23820489 |
|---|---|---|---|---|---|---|
| 613090 | D02 | Common | 1 | 1 | Job Reference (optional) | |

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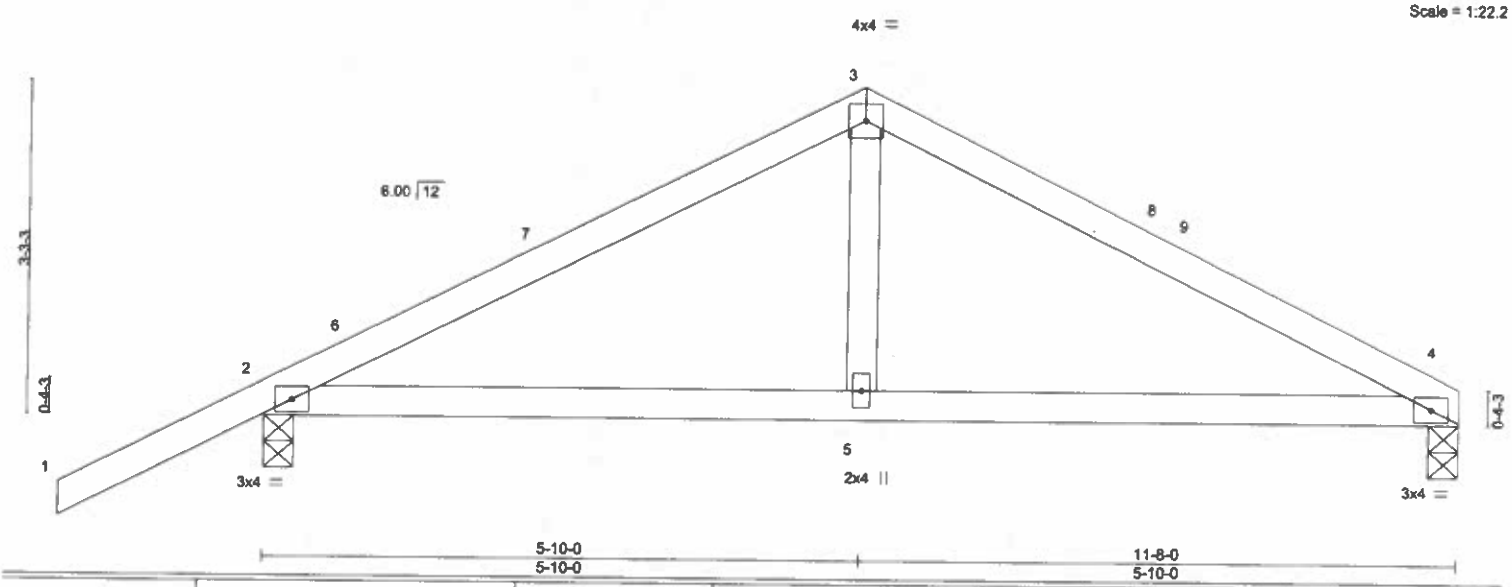
-2-0-0 2-0-0 | 5-10-0 5-10-0 | 11-8-0 5-10-0

Scale = 1:22.2




5-10-0 5-10-0 | 11-8-0 5-10-0

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | -0.03 | 4-5 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.36 | Vert(CT) | -0.06 | 4-5 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.06 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.02 | 4-5 | >999 | 240 | Weight: 44 lb | FT = 20% |

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

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

**REACTIONS.** (size) 4=0-3-8, 2=0-3-8
Max Horz 2=61(LC 11)
Max Uplift 4=-13(LC 12), 2=-88(LC 12)
Max Grav 4=410(LC 1), 2=548(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-575/151, 3-4=-568/160
BOT CHORD 2-5=-73/445, 4-5=-73/445
WEBS 3-5=0/272

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 5-10-0, Exterior(2R) 5-10-0 to 8-10-0, Interior(1) 8-10-0 to 11-6-4 zone; cantilever left and right exposed ; end vertical 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) 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) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4 and 2. This connection is for uplift only and does not consider lateral forces.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Date:
May 4,2021



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| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | T23820490 |
|---|---|---|---|---|---|---|
| 613090 | D03 | Hip Girder | 1 | 1 | Job Reference (optional) | |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:32:32 2021 Page 1
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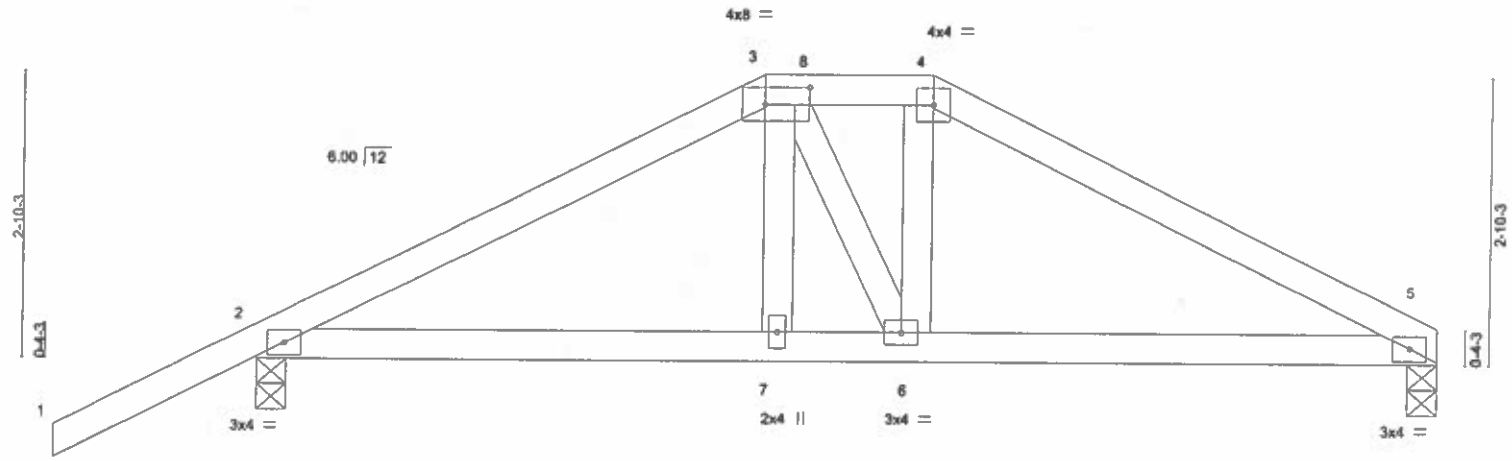
-2-0-0 2-0-0 | 5-0-0 5-0-0 | 6-8-0 1-8-0 | 11-8-0 5-0-0

Scale = 1:22.5




5-0-0 5-0-0 | 6-8-0 1-8-0 | 11-8-0 5-0-0

Plate Offsets (X,Y)— [3:0-5-4,0-2-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.40 | Vert(LL) | -0.03 | 2-7 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.38 | Vert(CT) | -0.06 | 5-6 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.06 | Horz(CT) | 0.01 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.01 | 6 | >999 | 240 | Weight: 51 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-3-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 5=0-3-8, 2=0-3-8
Max Horz 2=54(LC 24)
Max Uplift 5=-47(LC 8), 2=-119(LC 8)
Max Grav 5=585(LC 1), 2=718(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-966/82, 3-4=-845/103, 4-5=-972/95
BOT CHORD 2-7=-39/824, 6-7=-37/837, 5-6=-45/830
WEBS 3-7=0/252, 4-6=0/255

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5 and 2. This connection is for uplift only and does not consider lateral forces.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 68 lb down and 54 lb up at 5-0-0, and 133 lb down and 119 lb up at 6-8-0 on top chord, and 184 lb down and 23 lb up at 5-0-0, and 184 lb down and 23 lb up at 6-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-54, 3-4=-54, 4-5=-54, 2-5=-20
Concentrated Loads (lb)
Vert: 3=-49(F) 4=-86(F) 7=-105(F) 6=-105(F)

PHILIP J. O'REGAN LICENSE No 58126 STATE OF FLORIDA PROFESSIONAL ENGINEER

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MiTek USA, Inc. FL Cert 6634
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Date:

May 4,2021



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6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | T23820491 |
|---|---|---|---|---|---|---|
| 613090 | E4 | JACK-OPEN | 11 | 1 | Job Reference (optional) | |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:32:32 2021 Page 1
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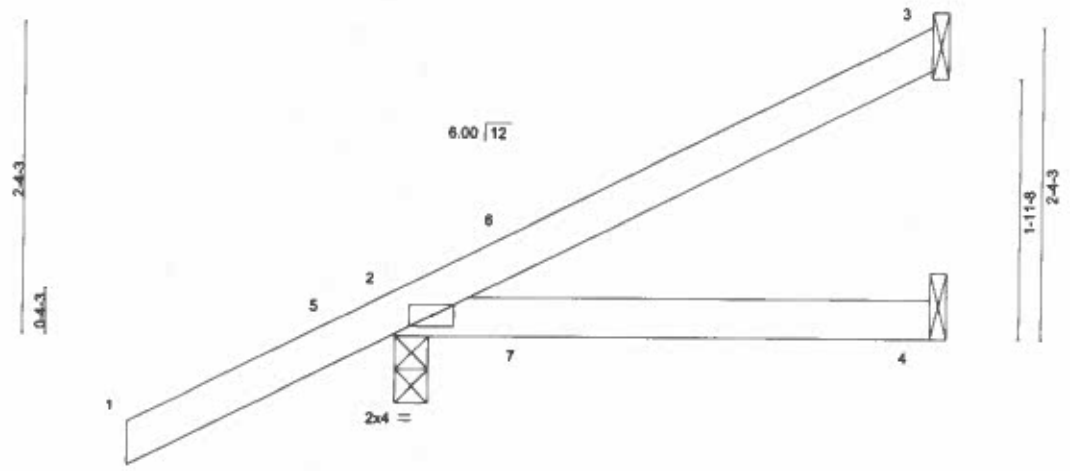
Scale = 1:17.0




4-0-0 / 4-0-0

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.26 | Vert(LL) | -0.01 | 2-4 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.17 | Vert(CT) | -0.03 | 2-4 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-P | | Wind(LL) | 0.03 | 2-4 | >999 | 240 | Weight: 16 lb | FT = 20% |

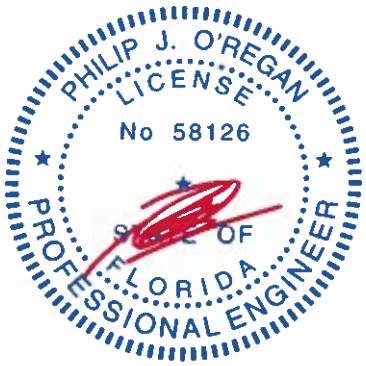
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

**REACTIONS.** (size) 3=Mechanical, 2=0-3-0, 4=Mechanical
Max Horz 2=83(LC 12)
Max Uplift 3=-22(LC 9), 2=-108(LC 12), 4=-10(LC 8)
Max Grav 3=71(LC 1), 2=288(LC 1), 4=76(LC 3)

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

**NOTES-**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 3-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
7) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.

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Date:

May 4,2021





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Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | T23820492 |
|---|---|---|---|---|---|---|
| 613090 , | E7 | Jack-Open | 32 | 1 | Job Reference (optional) | |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:32:33 2021 Page 1
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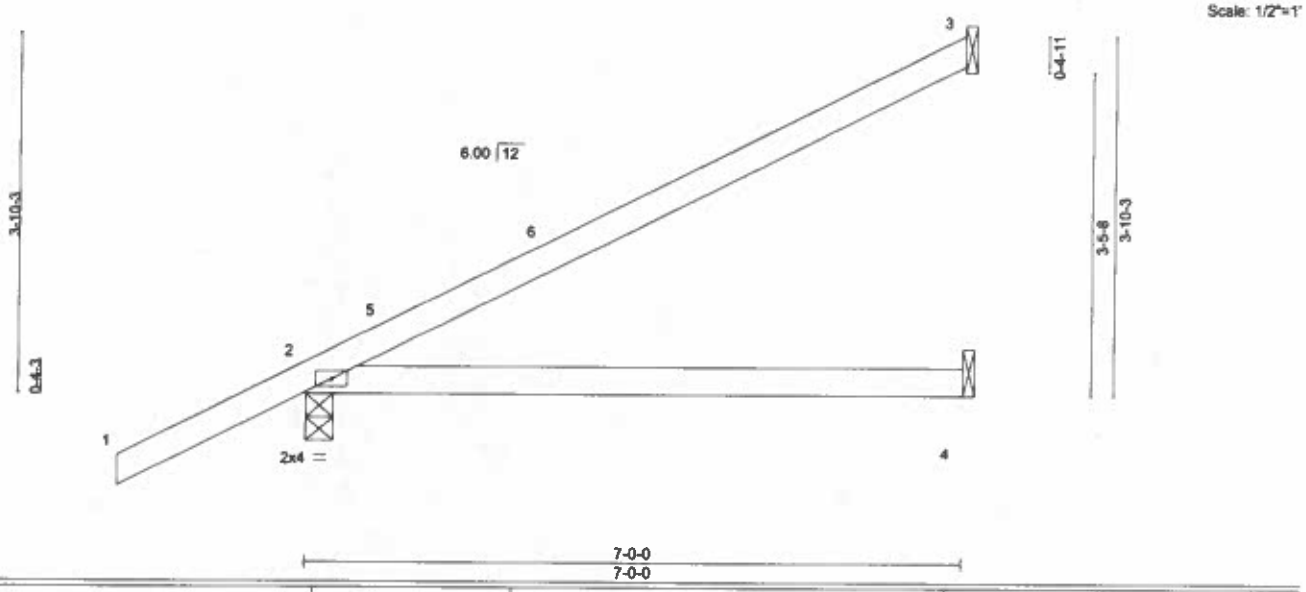



| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.70 | Vert(LL) | -0.13 | 2-4 | >639 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.60 | Vert(CT) | -0.26 | 2-4 | >319 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-P | | Wind(LL) | 0.00 | 2 | **** | 240 | Weight: 26 lb | FT = 20% |

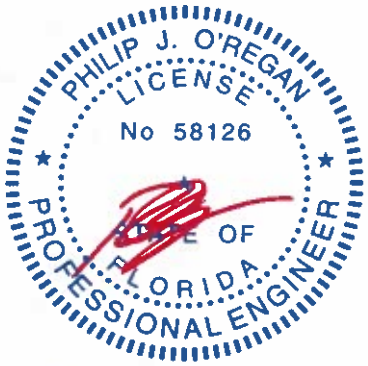
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

**REACTIONS.** (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=119(LC 12)
Max Uplift 3=-62(LC 12), 2=-63(LC 12)
Max Grav 3=165(LC 1), 2=385(LC 1), 4=136(LC 3)

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

**NOTES-**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 6-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
7) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.

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Date:
May 4,2021



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Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame |
|---|---|---|---|---|---|
| 613090 | E7T | Jack-Open | 3 | 1 | T23820493 |

Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:32:34 2021 Page 1
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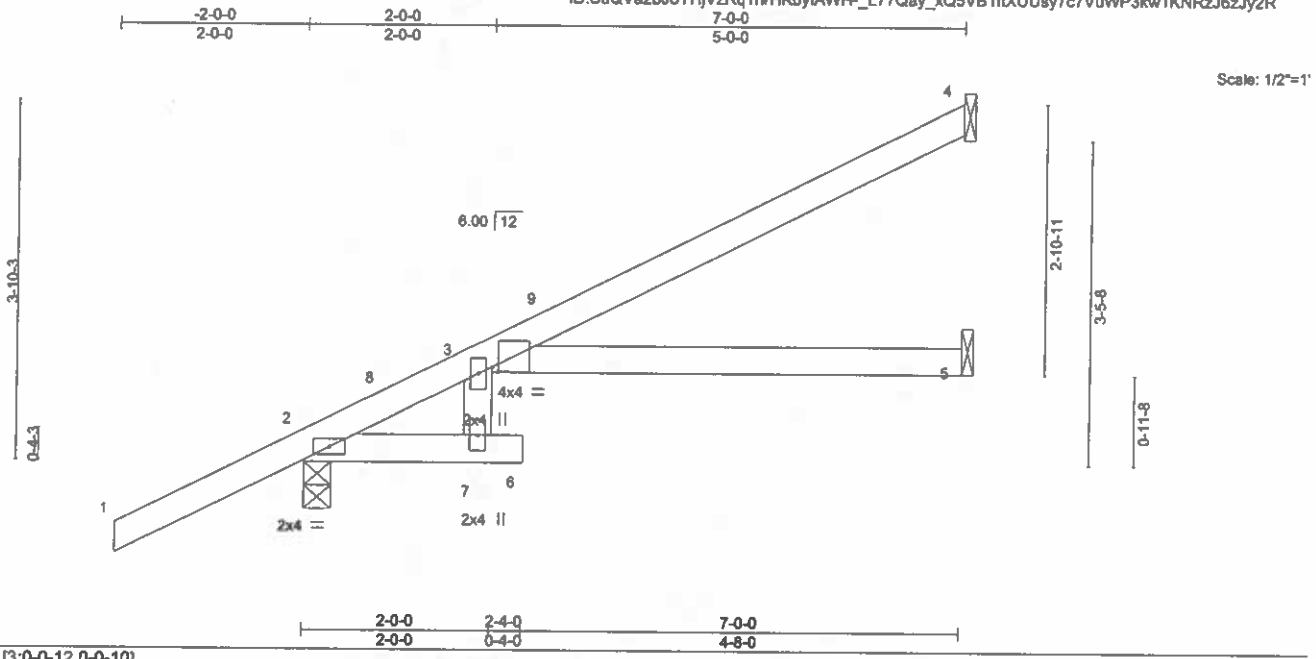



Plate Offsets (X,Y)-- [3:0-0-12,0-0-10]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.54 | Vert(LL) | -0.10 | 6 | >824 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.53 | Vert(CT) | -0.21 | 3-5 | >379 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.09 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-R | | Wind(LL) | 0.12 | 6 | >692 | 240 | Weight: 27 lb | FT = 20% |

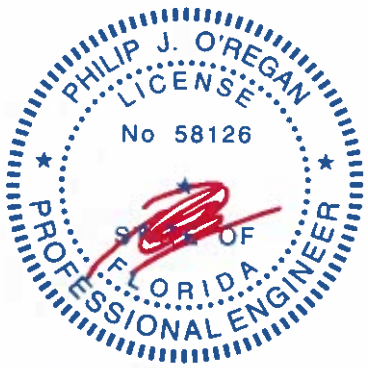
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

**REACTIONS.** (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=119(LC 12)
Max Uplift 4=-42(LC 12), 2=-59(LC 12)
Max Grav 4=148(LC 1), 2=392(LC 1), 5=119(LC 3)

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

**NOTES-**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 6-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
7) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.

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Date:

May 4,2021



MiTek
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Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | |
|---|---|---|---|---|---|---|
| 613090 | G01 | Half Hip | 1 | 1 | Job Reference (optional) | T23820494 |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:32:37 2021 Page 1
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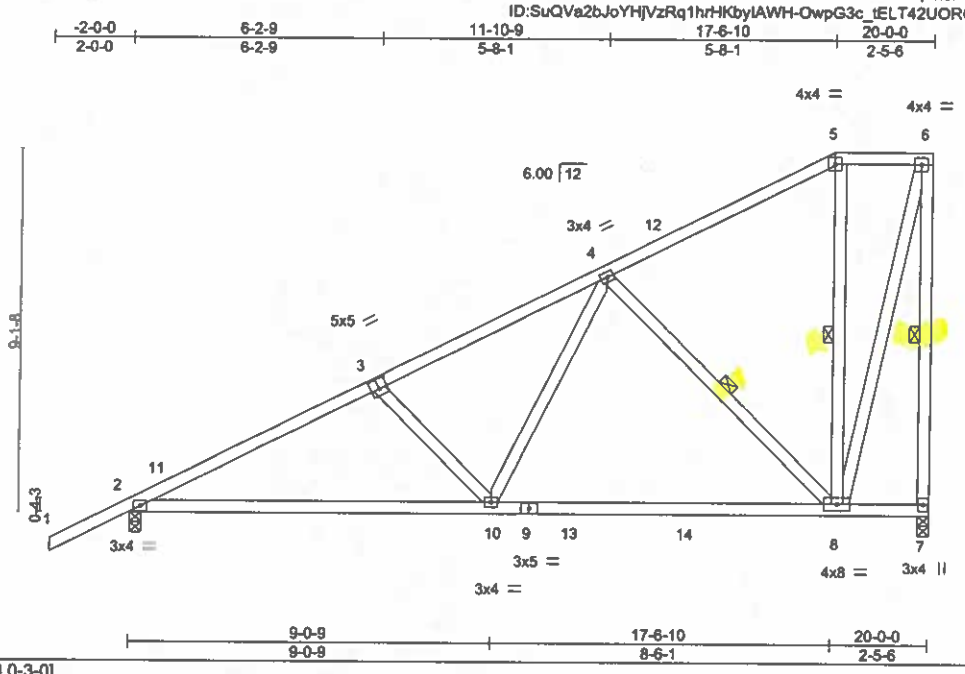



Plate Offsets (X,Y)-- [3:0-2-8,0-3-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | -0.16 | 8-10 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.91 | Vert(CT) | -0.32 | 2-10 | >748 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.23 | Horz(CT) | 0.02 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.02 | 10 | >999 | 240 | Weight: 132 lb | FT = 20% |

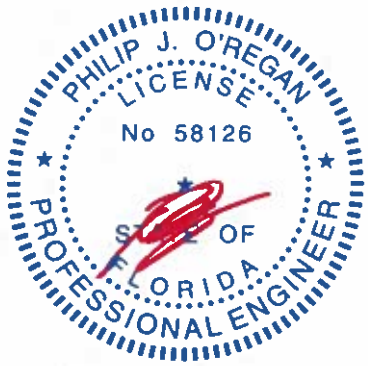
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-9-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-7, 4-8, 5-8

**REACTIONS.** (size) 7=0-3-8, 2=0-3-8
Max Horz 2=279(LC 9)
Max Uplift 7=-49(LC 9), 2=-91(LC 12)
Max Grav 7=869(LC 17), 2=939(LC 17)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1308/95, 3-4=-1108/88, 4-5=-351/118, 6-7=-905/131
BOT CHORD 2-10=-266/1200, 8-10=-198/732
WEBS 3-10=-289/118, 4-10=0/643, 4-8=-708/129, 6-8=-148/910

**NOTES-**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 17-6-10, Exterior(2E) 17-6-10 to 19-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
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) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 2. This connection is for uplift only and does not consider lateral forces.

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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
May 4,2021





6904 Parke East Blvd.
Tampa, FL 33610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | T23820495 |
|---|---|---|---|---|---|---|
| 613090 | G02 | Half Hip | 1 | 1 | Job Reference (optional) | |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:32:38 2021 Page 1
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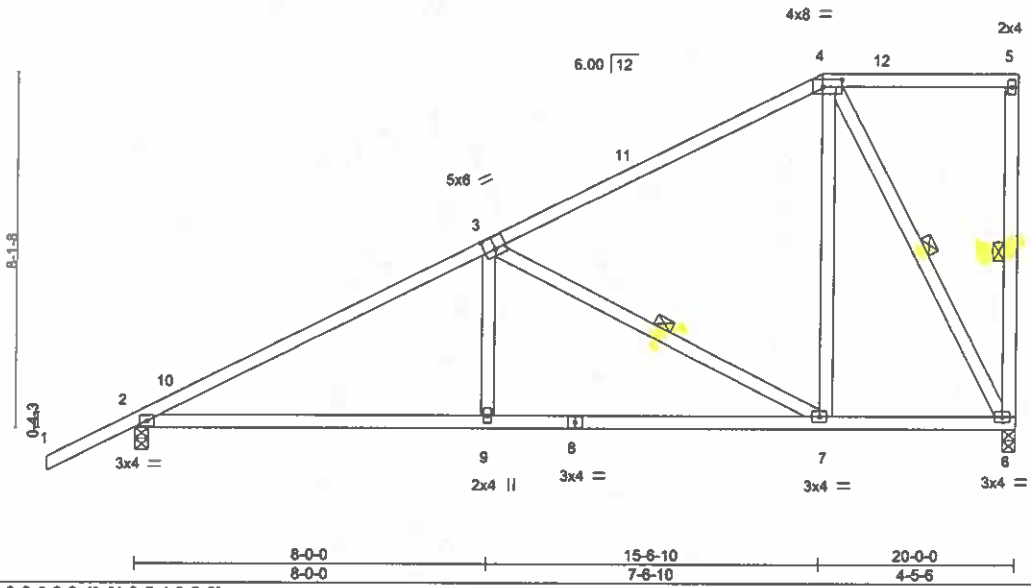



Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [4:0-5-4,0-2-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.72 | Vert(LL) | -0.10 | 2-9 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.66 | Vert(CT) | -0.22 | 2-9 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.25 | Horz(CT) | 0.03 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.03 | 2-9 | >999 | 240 | Weight: 119 lb | FT = 20% |

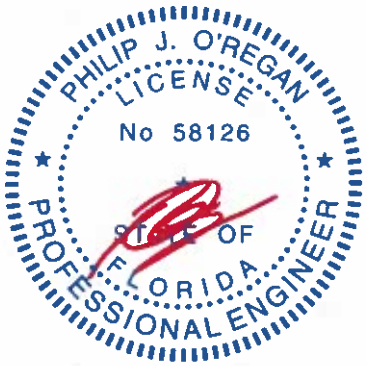
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-6-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-6, 3-7, 4-6

**REACTIONS.** (size) 6=0-3-8, 2=0-3-8
Max Horz 2=249(LC 9)
Max Uplift 6=-51(LC 9), 2=-93(LC 12)
Max Grav 6=723(LC 1), 2=851(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1149/82, 3-4=-466/112
BOT CHORD 2-9=-242/944, 7-9=-244/940, 6-7=-135/337
WEBS 3-9=0/350, 3-7=-699/123, 4-7=0/497, 4-6=-682/151

**NOTES-**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 15-6-10, Exterior(2E) 15-6-10 to 19-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
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) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6 and 2. This connection is for uplift only and does not consider lateral forces.

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Date:
May 4,2021



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Tampa, FL 33610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | T23820496 |
|---|---|---|---|---|---|---|
| 613090 | G03 | Half Hip | 1 | 1 | Job Reference (optional) | |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:32:40 2021 Page 1
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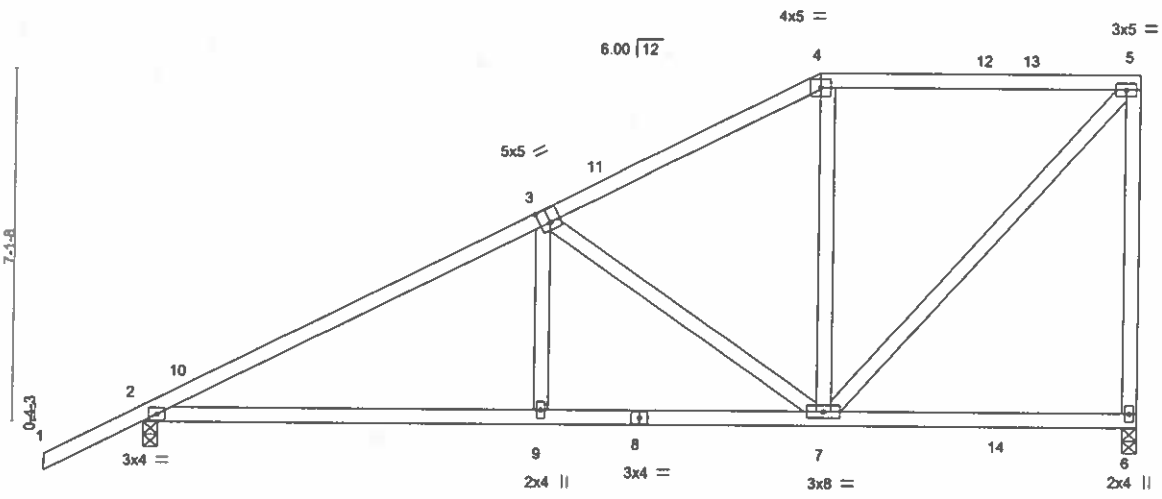



Scale = 1:45.8

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.66 | Vert(LL) | -0.13 | 2-9 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.75 | Vert(CT) | -0.27 | 2-9 | >889 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.55 | Horz(CT) | 0.02 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.03 | 2-9 | >999 | 240 | Weight: 113 lb | FT = 20% |

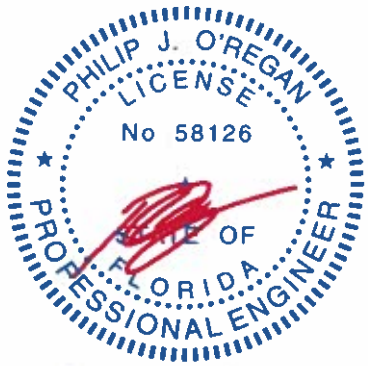
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

**REACTIONS.** (size) 6=0-3-8, 2=0-3-8
Max Horz 2=219(LC 9)
Max Uplift 6=-52(LC 9), 2=-95(LC 12)
Max Grav 6=854(LC 17), 2=929(LC 17)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1241/86, 3-4=-650/121, 4-5=-528/128, 5-6=-722/166
BOT CHORD 2-9=-236/1101, 7-9=-238/1096
WEBS 3-9=0/303, 3-7=-663/107, 5-7=-138/788

**NOTES-**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 13-6-10, Exterior(2R) 13-6-10 to 17-9-9, Interior(1) 17-9-9 to 19-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
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) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6 and 2. This connection is for uplift only and does not consider lateral forces.

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Date:

May 4,2021



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Tampa, FL 33610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | |
|---|---|---|---|---|---|---|
| 613090 | G04 | Half Hip | 1 | 1 | Job Reference (optional) | T23820497 |

Tibbetts Lumber Co., LLC. Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:32:44 2021 Page 1
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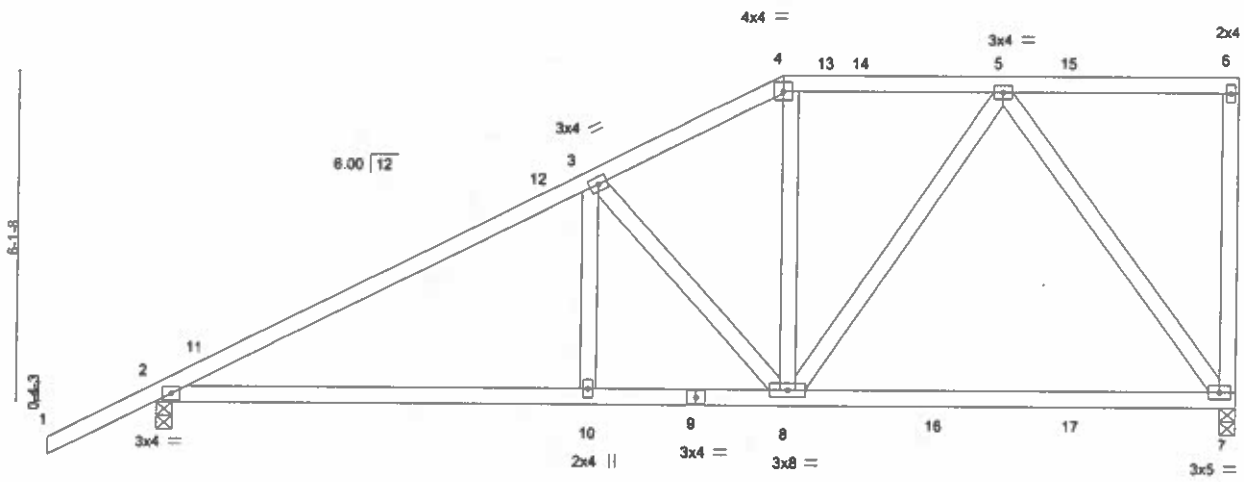
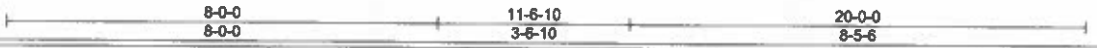



| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.66 | Vert(LL) | -0.21 | 7-8 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.78 | Vert(CT) | -0.35 | 7-8 | >676 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.67 | Horz(CT) | 0.02 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.03 | 2-10 | >999 | 240 | Weight: 115 lb | FT = 20% |

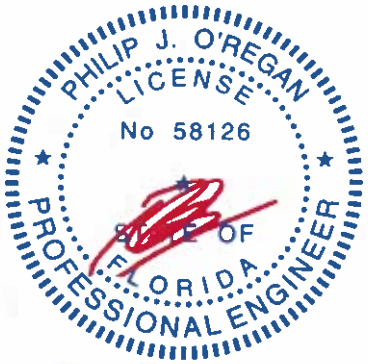
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

**REACTIONS.** (size) 7=0-3-8, 2=0-3-8
Max Horz 2=189(LC 9)
Max Uplift 7=-52(LC 9), 2=-96(LC 12)
Max Grav 7=836(LC 17), 2=933(LC 17)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1245/93, 3-4=-847/123, 4-5=-709/118
BOT CHORD 2-10=-230/1095, 8-10=-230/1095, 7-8=-134/474
WEBS 3-8=-540/117, 4-8=0/260, 5-8=-30/470, 5-7=-751/157

**NOTES-**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 11-6-10, Exterior(2R) 11-6-10 to 15-7-9, Interior(1) 15-7-9 to 19-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
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) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 2. This connection is for uplift only and does not consider lateral forces.

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Date:
May 4,2021





6904 Parke East Blvd.
Tampa, FL 33610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | T23820498 |
|---|---|---|---|---|---|---|
| 613090 | G05 | Half Hip | 1 | 1 | Job Reference (optional) | |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:32:47 2021 Page 1
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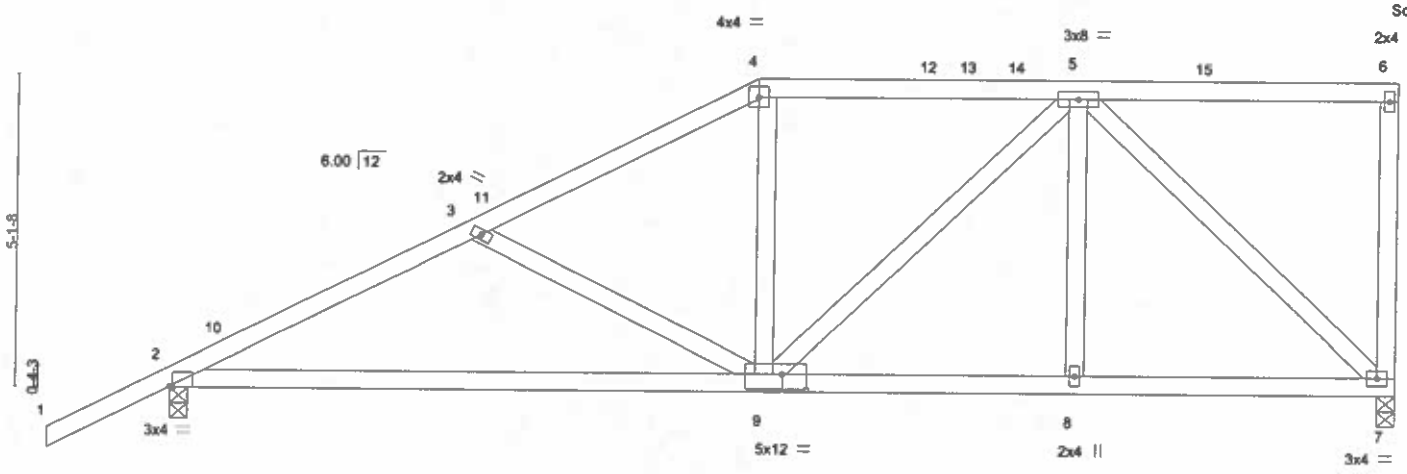
| -2-0-0 | 5-0-9 | 9-6-10 | 14-9-5 | 20-0-0 |
|---|---|---|---|---|
| 2-0-0 | 5-0-9 | 4-6-1 | 5-2-11 | 5-2-11 |

Scale = 1:37.2




| 9-6-10 | 14-9-5 | 20-0-0 |
|---|---|---|
| 9-6-10 | 5-2-11 | 5-2-11 |

Plate Offsets (X,Y)-- [2:0-0-8,Edge], [9:0-4-12,0-3-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.32 | Vert(LL) | -0.23 | 2-9 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.83 | Vert(CT) | -0.46 | 2-9 | >509 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.68 | Horz(CT) | 0.03 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.02 | 9 | >999 | 240 | Weight: 112 lb | FT = 20% |

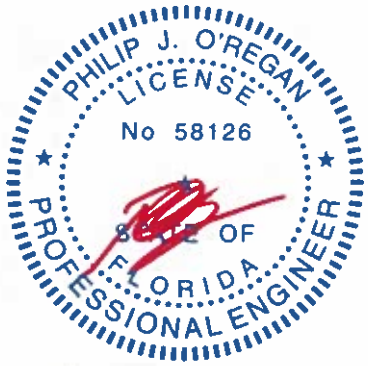
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

**REACTIONS.** (size) 7=0-3-8, 2=0-3-8
Max Horz 2=158(LC 9)
Max Uplift 7=-49(LC 9), 2=-97(LC 12)
Max Grav 7=723(LC 1), 2=851(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1198/131, 3-4=-915/99, 4-5=-767/110
BOT CHORD 2-9=-279/1013, 8-9=-127/598, 7-8=-127/598
WEBS 3-9=-282/137, 5-7=-809/120

**NOTES-**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 9-6-10, Exterior(2R) 9-6-10 to 13-9-9, Interior(1) 13-9-9 to 19-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
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) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 2. This connection is for uplift only and does not consider lateral forces.

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Date:
May 4,2021




6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame |
|---|---|---|---|---|---|
| 613090 | G06 | Roof Special | 1 | 1 | T23820499 |

Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:32:48 2021 Page 1

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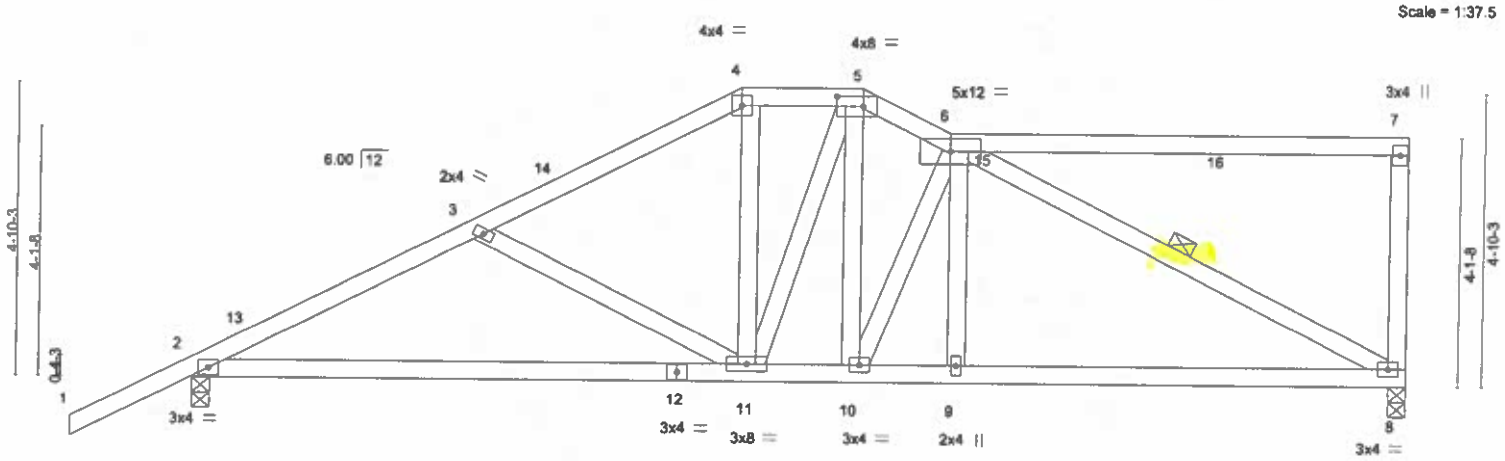
-2-0-0 2-0-0 | 4-9-4 4-9-4 | 9-0-0 4-2-12 | 11-0-0 2-0-0 | 12-5-6 1-5-6 | 20-0-0 7-6-10

Scale = 1:37.5




9-0-0 9-0-0 | 11-0-0 2-0-0 | 12-5-6 1-5-6 | 20-0-0 7-6-10

Plate Offsets (X,Y)— [5:0-5-4,0-2-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.67 | Vert(LL) | -0.17 | 2-11 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.78 | Vert(CT) | -0.34 | 2-11 | >700 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.31 | Horz(CT) | 0.03 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.02 | 10 | >999 | 240 | Weight: 119 lb | FT = 20% |

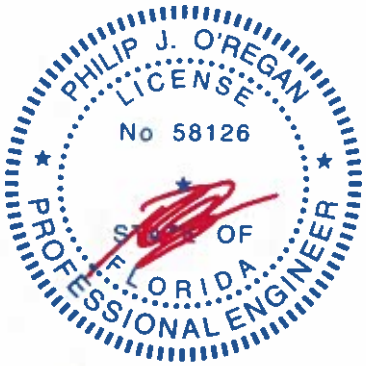
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

**REACTIONS.** (size) 8=0-3-7, 2=0-3-8
Max Horz 2=140(LC 11)
Max Uplift 8=-35(LC 9), 2=-98(LC 12)
Max Grav 8=723(LC 1), 2=851(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1215/204, 3-4=-953/139, 4-5=-806/151, 5-6=-897/200
BOT CHORD 2-11=-320/1029, 10-11=-203/755, 9-10=-208/923, 8-9=-203/929
WEBS 3-11=-265/144, 4-11=0/276, 5-10=-161/278, 6-10=-461/61, 6-9=0/355, 6-8=-995/184

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 9-0-0, Exterior(2E) 9-0-0 to 12-5-6, Interior(1) 12-5-6 to 19-10-4 zone; cantilever left and right exposed ; end vertical 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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 2. This connection is for uplift only and does not consider lateral forces.

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6904 Parke East Blvd. Tampa FL 33610
Date:

May 4,2021



MiTek
6904 Parke East Blvd.
Tampa, FL 33610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | T23820500 |
|---|---|---|---|---|---|---|
| 613090 | G07 | Hip Girder | 1 | 1 | Job Reference (optional) | |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472

8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:32:50 2021 Page 1
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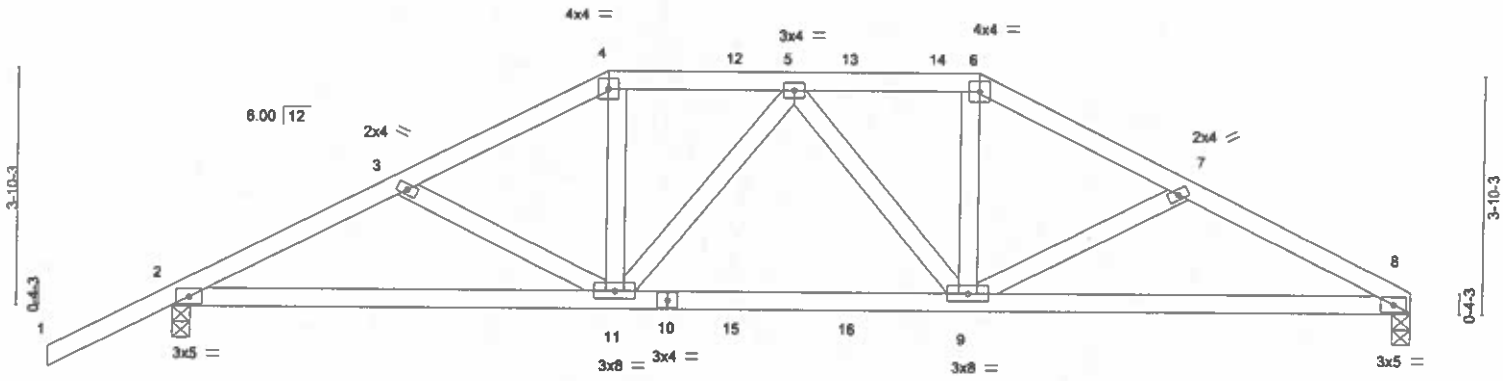
| -2-0-0 | 3-9-4 | 7-0-0 | 10-0-0 | 13-0-0 | 16-2-12 | 20-0-0 |
|---|---|---|---|---|---|---|
| 2-0-0 | 3-9-4 | 3-2-12 | 3-0-0 | 3-0-0 | 3-2-12 | 3-9-4 |

Scale = 1:36.7




| 7-0-0 | 13-0-0 | 20-0-0 |
|---|---|---|
| 7-0-0 | 6-0-0 | 7-0-0 |

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.53 | Vert(LL) | -0.09 | 9-11 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.85 | Vert(CT) | -0.20 | 9-11 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.17 | Horz(CT) | 0.07 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.06 | 9-11 | >999 | 240 | Weight: 99 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-5-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 8=0-3-8, 2=0-3-8
Max Horz 2=71(LC 7)
Max Uplift 8=-103(LC 8), 2=-164(LC 8)
Max Grav 8=1320(LC 1), 2=1430(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2471/198, 3-4=-2318/184, 4-5=-2075/179, 5-6=-2120/201, 6-7=-2382/211, 7-8=-2543/244
BOT CHORD 2-11=-137/2134, 9-11=-155/2231, 8-9=-187/2218
WEBS 4-11=0/728, 5-11=-303/110, 6-9=0/717

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 2. This connection is for uplift only and does not consider lateral forces.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 130 lb down and 81 lb up at 7-0-0, 111 lb down and 77 lb up at 9-0-12, and 111 lb down and 77 lb up at 10-11-4, and 217 lb down and 155 lb up at 13-0-0 on top chord, and 312 lb down and 9 lb up at 7-0-0, 96 lb down at 9-0-12, and 96 lb down at 10-11-4, and 312 lb down and 9 lb up at 12-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-54, 4-6=-54, 6-8=-54, 2-8=-20
Concentrated Loads (lb)
Vert: 4=-111(B) 6=-170(B) 11=-288(B) 9=-288(B) 12=-111(B) 13=-111(B) 15=-48(B) 16=-48(B)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Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | |
|---|---|---|---|---|---|---|
| 613090 | H4 | DIAGONAL HIP GIRDER | 2 | 1 | Job Reference (optional) | T23820501 |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:32:51 2021 Page 1
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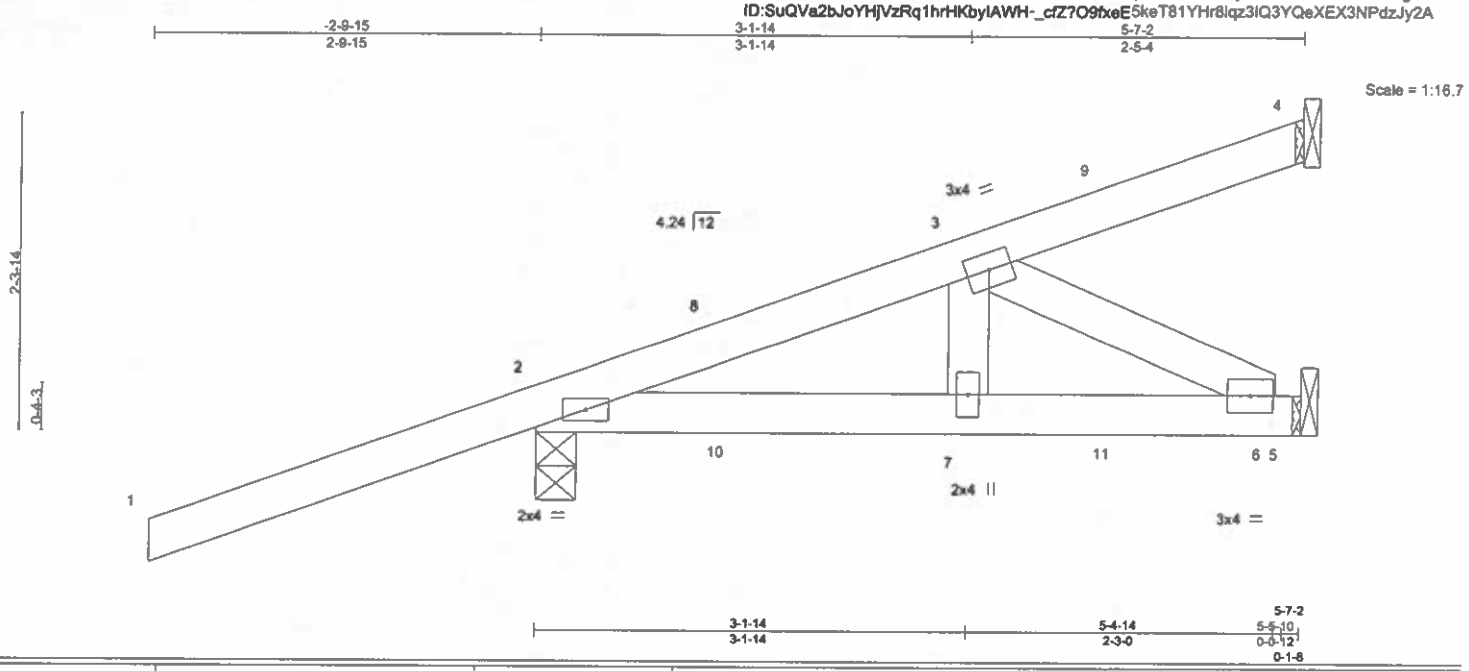



| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.80 | Vert(LL) | -0.00 | 2-7 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.10 | Vert(CT) | -0.01 | 2-7 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.03 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-P | | Wind(LL) | -0.00 | 7 | >999 | 240 | Weight: 27 lb | FT = 20% |

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

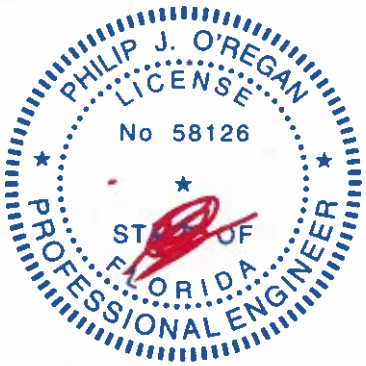
**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-7-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=83(LC 8)
Max Uplift 4=-27(LC 8), 2=-200(LC 8), 5=-51(LC 13)
Max Grav 4=111(LC 17), 2=360(LC 28), 5=119(LC 24)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-292/146
WEBS 3-6=-251/132

**NOTES-**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
7) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 97 lb down and 168 lb up at 1-4-15, 97 lb down and 168 lb up at 1-4-15, and 52 lb down and 23 lb up at 4-2-15, and 52 lb down and 23 lb up at 4-2-15 on top chord, and at 1-4-15, at 1-4-15, and 12 lb down at 4-2-15, and 12 lb down at 4-2-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-54, 2-5=-20
Concentrated Loads (lb)
Vert: 8=87(F=43, B=43) 11=-2(F=-1, B=-1)

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Date:
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Tampa, FL 33610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | |
|---|---|---|---|---|---|---|
| 613090 | H5 | Diagonal Hip Girder | 2 | 1 | Job Reference (optional) | T23820502 |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:32:52 2021 Page 1
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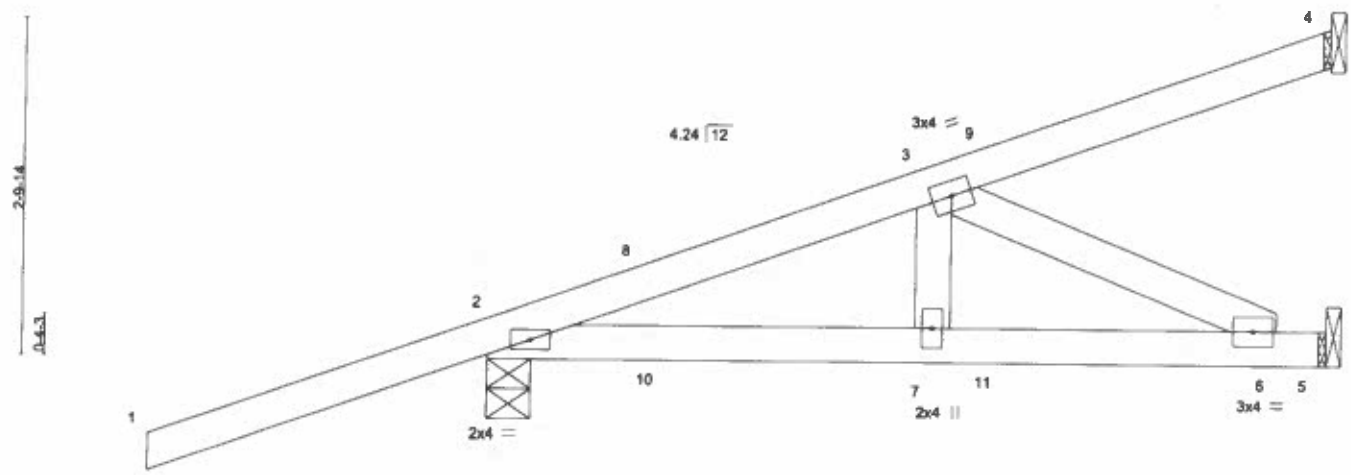


3-8-10 / 3-8-10 | 6-10-10 / 3-2-0 | 7-0-2 / 0-1-8

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.92 | Vert(LL) | -0.01 | 6-7 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.16 | Vert(CT) | -0.01 | 6-7 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.06 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-P | | Wind(LL) | -0.01 | 6-7 | >999 | 240 | Weight: 32 lb | FT = 20% |

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

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

**REACTIONS.** (size) 4=Mechanical, 2=0-4-6, 5=Mechanical
Max Horz 2=95(LC 8)
Max Uplift 4=-35(LC 24), 2=-157(LC 8), 5=-4(LC 5)
Max Grav 4=113(LC 17), 2=441(LC 28), 5=156(LC 29)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-407/22
BOT CHORD 2-7=-42/313, 6-7=-42/313
WEBS 3-6=-346/47

**NOTES-**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
7) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 97 lb down and 168 lb up at 1-4-15, 97 lb down and 168 lb up at 1-4-15, and 56 lb down and 48 lb up at 4-2-15, and 54 lb down and 23 lb up at 4-2-15 on top chord, and at 1-4-15, at 1-4-15, and 11 lb down at 4-2-15, and 11 lb down at 4-2-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-54, 2-5=-20


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May 4,2021



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Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame |
|---|---|---|---|---|---|
| 613090 r | H5 | Diagonal Hip Girder | 2 | 1 | T23820502 |
| | | | | | Job Reference (optional) |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:32:52 2021 Page 2
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**LOAD CASE(S)** Standard
Concentrated Loads (lb)
Vert: 8=87(F=43, B=43)

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame |
|---|---|---|---|---|---|
| 613090 , | H7 | Diagonal Hip Girder | 3 | 1 | T23820503 |

Job Reference (optional)

Tibbetts Lumber Co., LLC. Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:32:53 2021 Page 1
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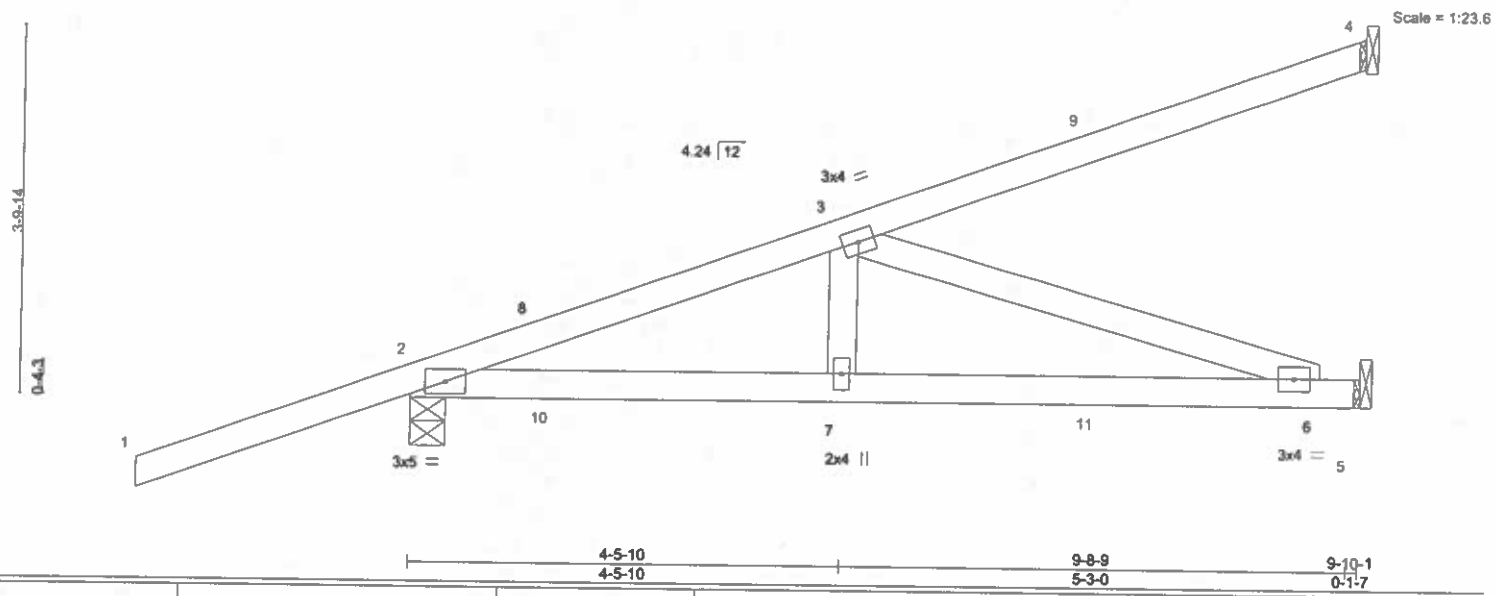


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.81 | Vert(LL) | -0.06 | 6-7 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.65 | Vert(CT) | -0.13 | 6-7 | >860 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.34 | Horz(CT) | 0.01 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | -0.03 | 2-7 | >999 | 240 | Weight: 44 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-6-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 4=Mechanical, 2=0-4-6, 5=Mechanical
Max Horz 2=119(LC 24)
Max Uplift 4=-58(LC 8), 2=-162(LC 8)
Max Grav 4=158(LC 1), 2=560(LC 28), 5=267(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-782/51
BOT CHORD 2-7=-88/664, 6-7=-88/664
WEBS 3-7=0/294, 3-6=-698/92

**NOTES-**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
7) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 97 lb down and 168 lb up at 1-4-15, 97 lb down and 168 lb up at 1-4-15, 56 lb down and 48 lb up at 4-2-15, 54 lb down and 23 lb up at 4-2-15, and 80 lb down and 77 lb up at 7-0-14, and 72 lb down and 57 lb up at 7-0-14 on top chord, and at 1-4-15, at 1-4-15, 11 lb down at 4-2-15, 11 lb down at 4-2-15, and 39 lb down at 7-0-14, and 39 lb down at 7-0-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-54, 2-5=-20


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May 4,2021



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Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame |
|---|---|---|---|---|---|
| 613090 , | H7 | Diagonal Hip Girder | 3 | 1 | T23820503 |
| | | | | | Job Reference (optional) |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:32:53 2021 Page 2
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**LOAD CASE(S)** Standard
Concentrated Loads (lb)
Vert: 8=87(F=43, B=43) 9=-80(F=-27, B=-53) 11=-39(F=-20, B=-20)

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | T23820504 |
|---|---|---|---|---|---|---|
| 613090 | H7T | Diagonal Hip Girder | 1 | 1 | Job Reference (optional) | |

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:32:54 2021 Page 1
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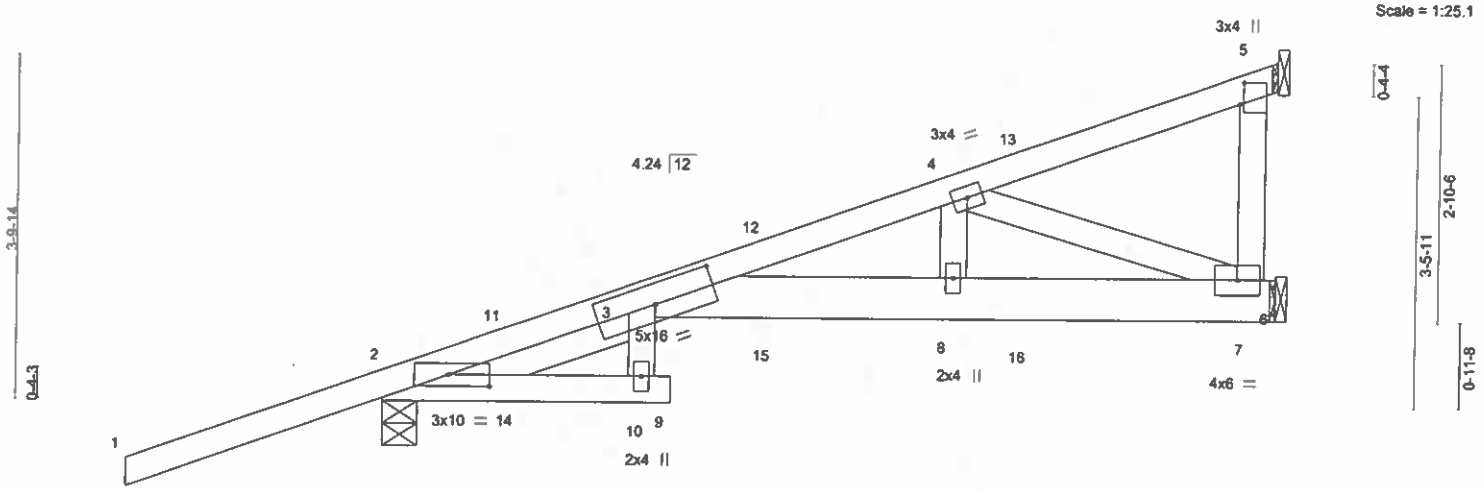
| -2-9-15 | 3-0-0 | 6-3-6 | 9-10-1 |
|---|---|---|---|
| 2-9-15 | 3-0-0 | 3-3-6 | 3-6-10 |

Scale = 1:25.1




| 3-0-0 | 3-2-2 | 6-3-6 | 9-10-1 |
|---|---|---|---|
| 3-0-0 | 0-2-2 | 3-1-5 | 3-6-10 |

Plate Offsets (X,Y)— [2:0-5-8,0-1-8], [3:0-8-0,0-2-11], [5:0-2-14,0-0-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.69 | Vert(LL) | -0.08 | 9 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.56 | Vert(CT) | -0.15 | 9 | >762 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.18 | Horz(CT) | 0.07 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | -0.12 | 9 | >947 | 240 | Weight: 54 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-6: 2x6 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -t 2-1-5

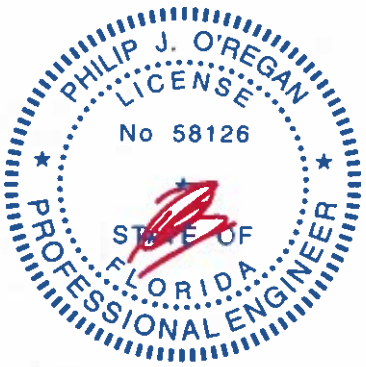
**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-7-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-10.

**REACTIONS.** (size) 5=Mechanical, 7=Mechanical, 2=0-4-9
Max Horz 2=102(LC 5)
Max Uplift 5=-22(LC 5), 2=-154(LC 8)
Max Grav 5=74(LC 17), 7=342(LC 30), 2=562(LC 28)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-903/0
BOT CHORD 3-8=-28/835, 7-8=-28/836
WEBS 4-8=0/310, 4-7=-870/12

**NOTES-**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 2. This connection is for uplift only and does not consider lateral forces.
8) n/a
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 97 lb down and 168 lb up at 1-4-15, 97 lb down and 168 lb up at 1-4-15, 50 lb down and 18 lb up at 4-2-15, 50 lb down and 18 lb up at 4-2-15, and 74 lb down and 46 lb up at 7-0-14, and 74 lb down and 46 lb up at 7-0-14 on top chord, and at 1-4-15, at 1-4-15, 17 lb down at 4-2-15, 17 lb down at 4-2-15, and 33 lb down at 7-0-14, and 33 lb down at 7-0-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) 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

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

May 4,2021



MiTek
6904 Parke East Blvd.
Tampa, FL 33610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame |
|---|---|---|---|---|---|
| 613090 | H7T | Diagonal Hip Girder | 1 | 1 | T23820504 |

Job Reference (optional)

Tibbetts Lumber Co., LLC, Ocala, FL - 34472, 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 07:32:54 2021 Page 2

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**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-3=-54, 3-5=-54, 2-10=-20, 9-10=-20, 3-6=-20

Concentrated Loads (lb)

Vert: 11=87(F=43, B=43) 13=-38(F=-19, B=-19) 15=-7(F=-3, B=-3) 16=-63(F=-32, B=-32)

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | T23820505 |
|---|---|---|---|---|---|---|
| 613090 | PB1 | Piggyback | 2 | 1 | Job Reference (optional) | |

Tibbetts Lumber Co LLC, Crystal River 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 17:59:54 2021 Page 1

ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-YOvZeun1Rozoi?wrwOWWQjSPMdQMhyWQpKDC26zJpkZ

13-2-8

13-2-8

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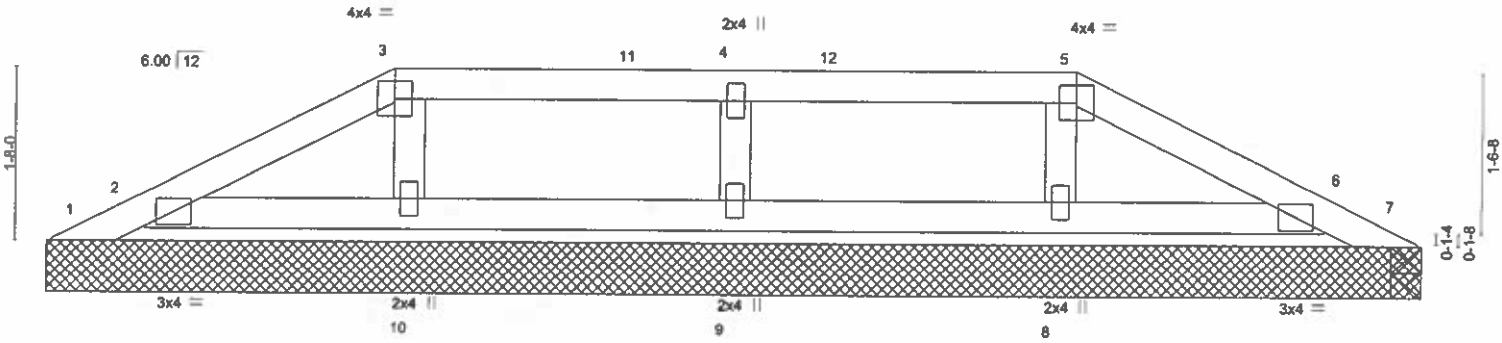



13-2-8

13-2-8

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.13 | Vert(LL) | -0.00 | 9-10 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.07 | Vert(CT) | -0.00 | 9-10 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.02 | Horz(CT) | 0.00 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.00 | 8 | >999 | 240 | Weight: 42 lb | FT = 20% |

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.** All bearings 13-2-8.

(lb) - Max Horz 1=-25(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 7, 2, 6, 9

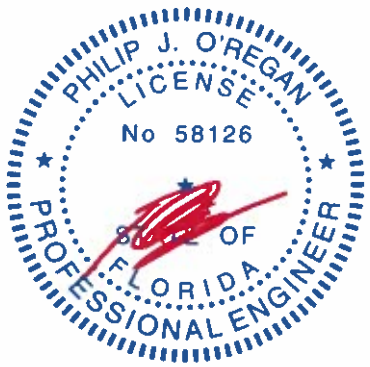
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 2, 6, 10, 8 except 9=269(LC 21)

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

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-3 to 3-3-15, Exterior(2R) 3-3-15 to 7-6-14, Interior(1) 7-6-14 to 9-10-9, Exterior(2E) 9-10-9 to 13-0-4 zone; cantilever left and right exposed ; end vertical 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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7.
8) N/A
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard

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

May 4,2021





6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | T23820506 |
|---|---|---|---|---|---|---|
| 613090 | PB2 | Piggyback | 1 | 1 | Job Reference (optional) | |

Tibbetts Lumber Co, LLC, Crystal River

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20-2-8

20-2-8

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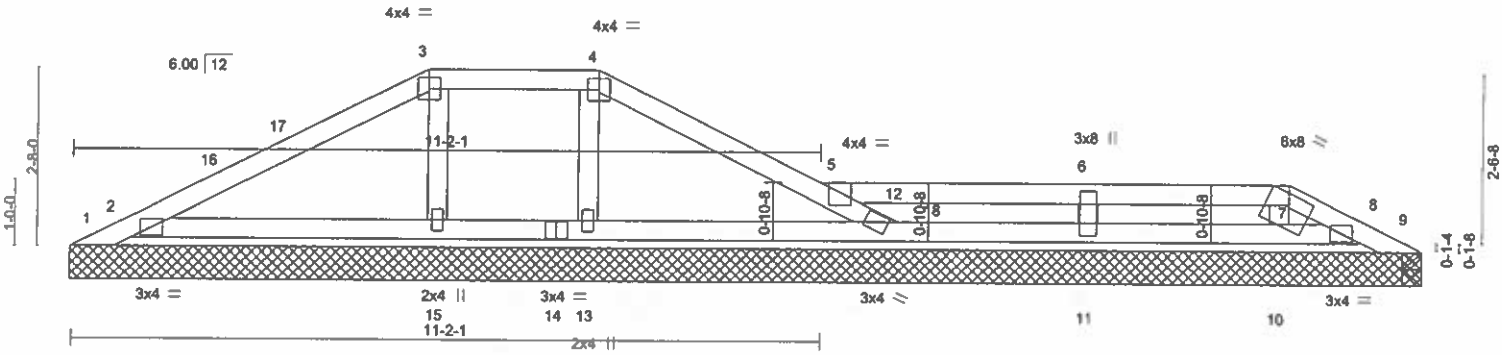



20-2-8

20-2-8

Plate Offsets (X,Y)— [7:0-4-0,0-1-15]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.29 | Vert(LL) | -0.02 | 12-13 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.14 | Vert(CT) | -0.04 | 12-13 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.05 | Horz(CT) | -0.01 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.01 | 12-13 | >999 | 240 | Weight: 68 lb | FT = 20% |

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

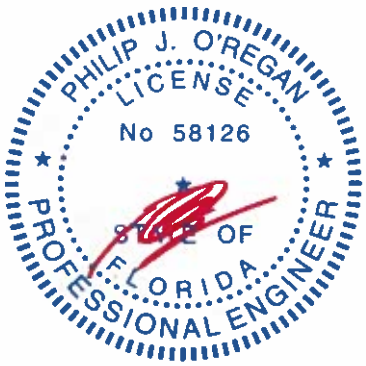
**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** All bearings 20-2-8.
(lb) - Max Horz 1=-42(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 15, 13, 11, 10 except 1=-174(LC 17)
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 9, 10 except 2=293(LC 21), 15=417(LC 1), 13=488(LC 22), 11=344(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-16=-64/421, 16-17=-55/433, 3-17=-55/475, 3-4=-25/405, 4-5=-60/475
BOT CHORD 2-15=-386/108, 14-15=-405/114, 13-14=-405/114, 12-13=-381/107
WEBS 3-15=-362/120, 4-13=-385/108

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-3 to 3-4-3, Interior(1) 3-4-3 to 5-3-15, Exterior(2E) 5-3-15 to 11-2-3, Interior(1) 11-2-3 to 18-2-9, Exterior(2E) 18-2-9 to 20-0-4 zone; cantilever left and right exposed ; end vertical 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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=174.
8) N/A
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
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

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Date:
May 4,2021



MiTek
6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | T23820507 |
|---|---|---|---|---|---|---|
| 613090 | PB3 | Piggyback | 1 | 1 | Job Reference (optional) | |

Tibbetts Lumber Co. LLC, Crystal River

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20-2-8
20-2-8

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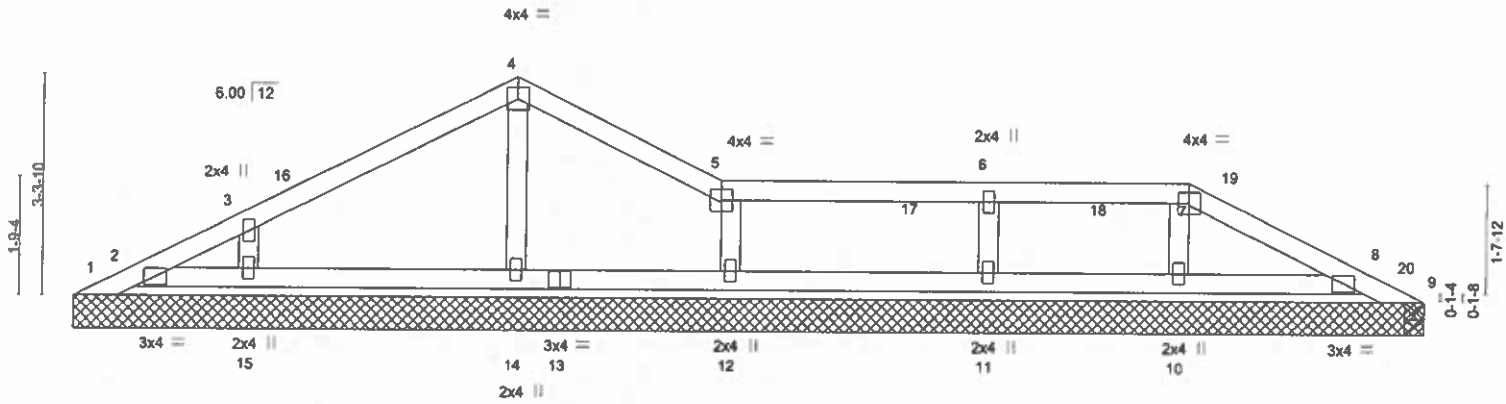


20-2-8
20-2-8

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.17 | Vert(LL) | -0.00 | 14-15 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.09 | Vert(CT) | -0.01 | 14-15 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.00 | 10 | >999 | 240 | Weight: 69 lb | FT = 20% |

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

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

**REACTIONS.** All bearings 20-2-8.
(lb) - Max Horz 1=-52(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 9, 8, 15, 12, 10, 11
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 2, 8, 14, 10 except 15=285(LC 21), 12=264(LC 22), 11=289(LC 1)

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-3 to 3-4-3, Interior(1) 3-4-3 to 6-7-4, Exterior(2E) 6-7-4 to 9-8-1, Interior(1) 9-8-1 to 16-8-1, Exterior(2R) 16-8-1 to 19-8-1, Interior(1) 19-8-1 to 20-0-4 zone; cantilever left and right exposed ; end vertical 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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9.
8) N/A

9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard


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Date:

May 4,2021




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6904 Parke East Blvd.
Tampa, FL 33610

| Job | Truss | Truss Type | Qty | Ply | 2189-A-Tray Frame | T23820508 |
|---|---|---|---|---|---|---|
| 613090 | PB4 | Piggyback | 1 | 1 | Job Reference (optional) | |

Tibbetts Lumber Co. LLC, Crystal River

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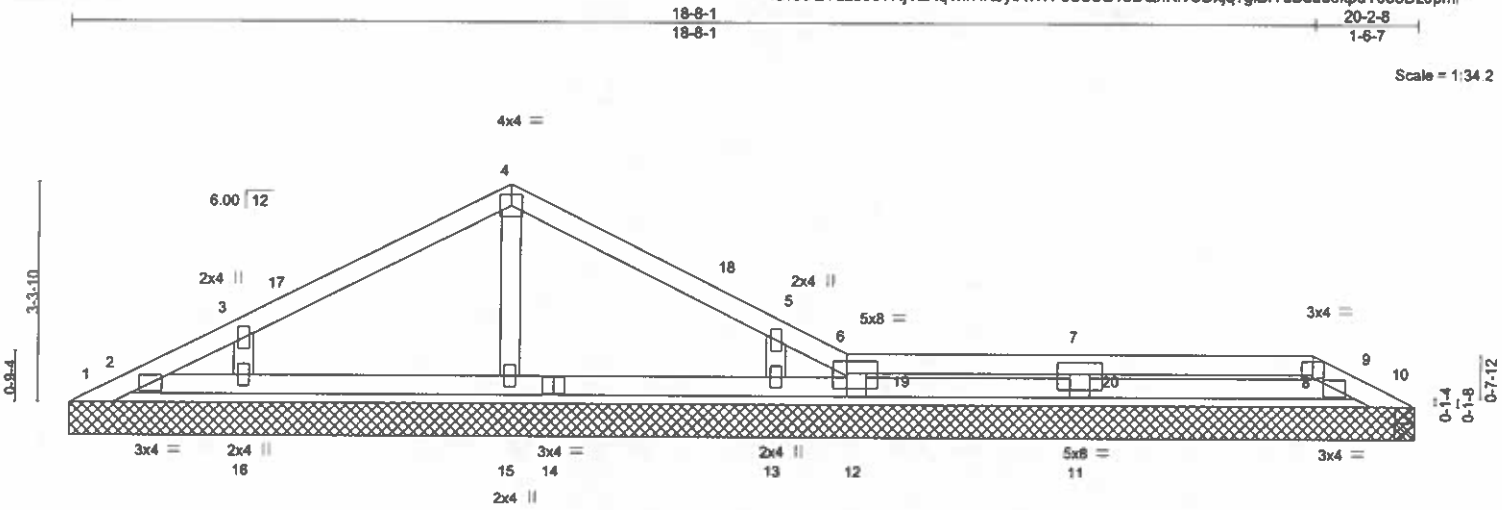


20-2-8

20-2-8

Plate Offsets (X,Y)— [6:0-2-8,0-2-12], [8:0-2-0,0-2-8], [11:0-4-0,0-0-12]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.25 | Vert(LL) | -0.02 | 9-11 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.18 | Vert(CT) | -0.04 | 9-11 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.02 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.01 | 9-11 | >999 | 240 | Weight: 66 lb | FT = 20% |

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

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

**REACTIONS.** All bearings 20-2-8.
(lb) - Max Horz 1=-52(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 10, 12, 11, 13, 16
Max Grav All reactions 250 lb or less at joint(s) 1, 10, 10, 2, 12, 15 except 11=375(LC 22), 13=291(LC 22), 16=280(LC 21)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 7-11=-271/119

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-3 to 3-4-3, Interior(1) 3-4-3 to 6-7-4, Exterior(2R) 6-7-4 to 9-7-4, Interior(1) 9-7-4 to 18-8-1, Exterior(2E) 18-8-1 to 20-0-4 zone; cantilever left and right exposed ; end vertical 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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 12, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 10.
9) N/A
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard


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Date:

May 4,2021



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Tampa, FL 33610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | T23820509 |
|---|---|---|---|---|---|---|
| 613090 | PB5 | Piggyback | 3 | 1 | Job Reference (optional) | |

Tibbetts Lumber Co. LLC, Crystal River

8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 17:57:36 2021 Page 1
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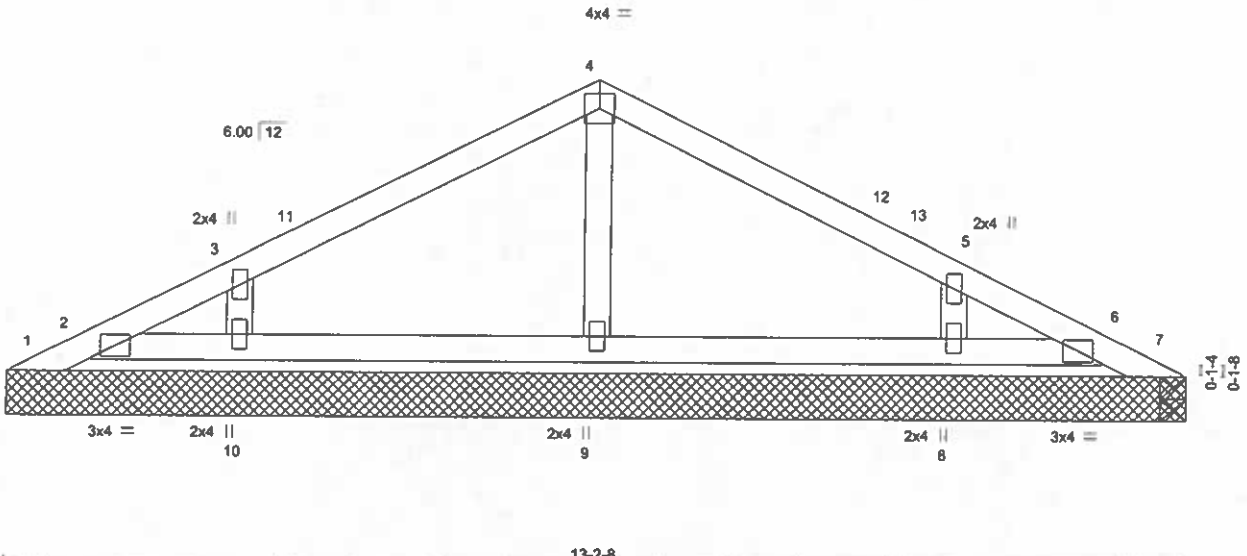



| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.17 | Vert(LL) | -0.00 | 8-9 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.12 | Vert(CT) | -0.01 | 8-9 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | -0.00 | 8 | >999 | 240 | Weight: 44 lb | FT = 20% |

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

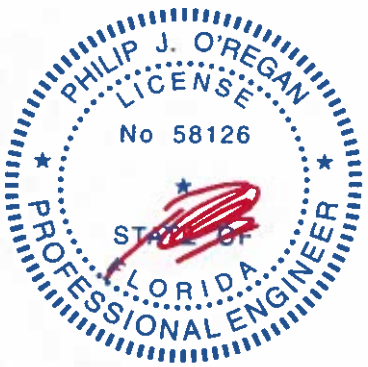
**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** All bearings 13-2-8.
(lb) - Max Horz 1=-52(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 10, 8
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 7, 2, 6 except 9=267(LC 1), 10=281(LC 21), 8=279(LC 22)

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-3 to 3-4-3, Interior(1) 3-4-3 to 6-7-4, Exterior(2R) 6-7-4 to 9-7-4, Interior(1) 9-7-4 to 13-0-4 zone; cantilever left and right exposed ; end vertical 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7.
7) N/A
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard




Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
May 4,2021



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6904 Parke East Blvd.
Tampa, FL 36610

| Job | Truss | Truss Type | Qty | Ply | 2169-A-Tray Frame | T23820510 |
|---|---|---|---|---|---|---|
| 613090 | P86 | Piggyback | 1 | 1 | Job Reference (optional) | |

Tibbetts Lumber Co. LLC, Crystal River 8.500 s Feb 23 2021 MiTek Industries, Inc. Tue May 4 17:57:37 2021 Page 1

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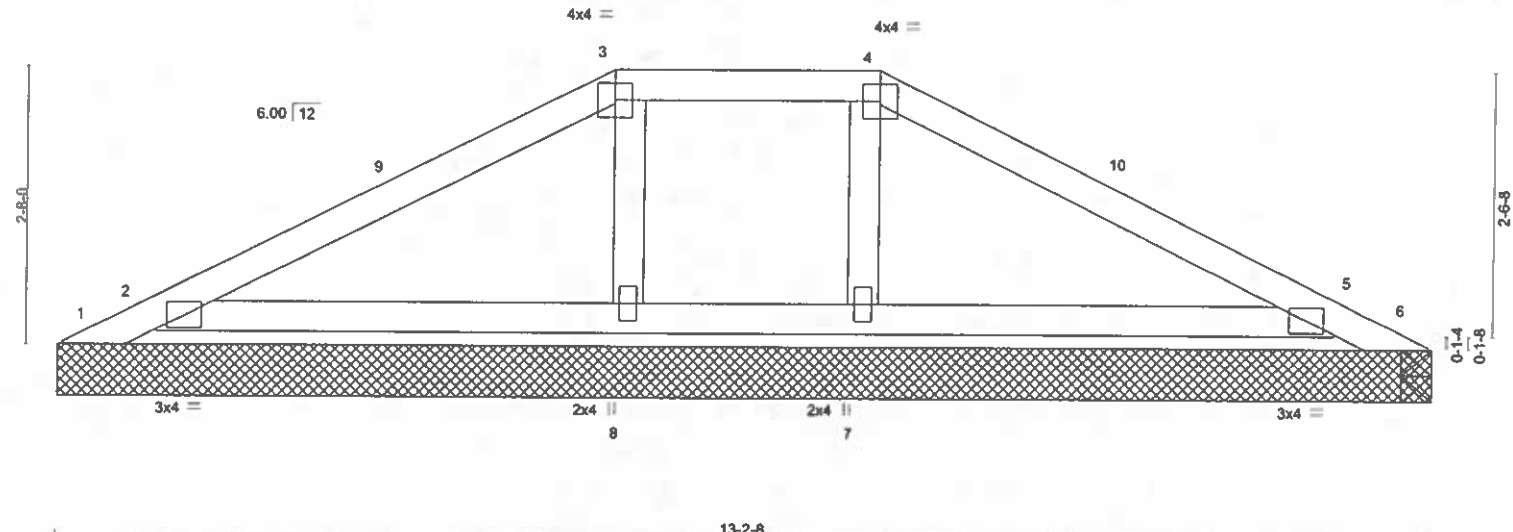



| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.25 | Vert(LL) | -0.01 | 5-7 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.14 | Vert(CT) | -0.02 | 5-7 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.02 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | Wind(LL) | 0.00 | 5-7 | >999 | 240 | Weight: 44 lb | FT = 20% |

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

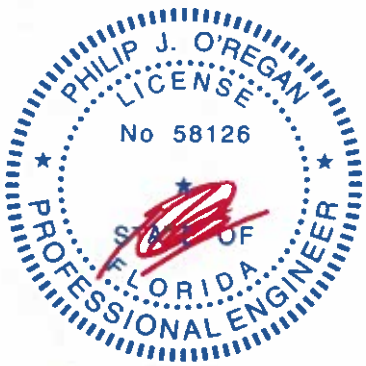
**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** All bearings 13-2-8.
(lb) - Max Horz 1=-42(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 5 except 1=-170(LC 17), 6=-111(LC 1), 6=-111(LC 1)
Max Grav All reactions 250 lb or less at joint(s) 1, 6, 8 except 2=389(LC 1), 5=348(LC 1), 7=251(LC 22)

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-3 to 3-4-3, Interior(1) 3-4-3 to 5-3-15, Exterior(2E) 5-3-15 to 7-10-9, Exterior(2R) 7-10-9 to 12-3-3, Interior(1) 12-3-3 to 13-0-4 zone; cantilever left and right exposed ; end vertical 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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=170, 6=111.
8) N/A
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard

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Date:
May 4,2021

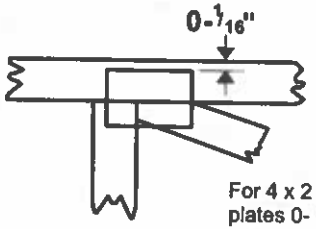


MiTek
6904 Parke East Blvd.
Tampa, FL 33610

# Symbols

## PLATE LOCATION AND ORIENTATION


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




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

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

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

## PLATE SIZE

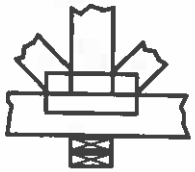
4 x 4

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

## LATERAL BRACING LOCATION

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

## BEARING

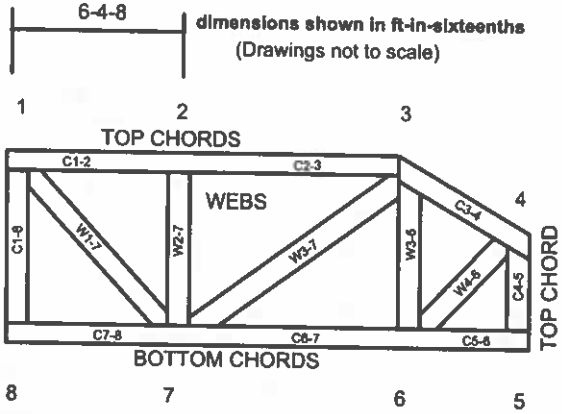


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

**Industry Standards:**

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System




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

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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



MiTek



# 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 T or 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.