# SWEENEY RESIDENCE

# SUMMER'S ACRES - LOT 2
# JACKSONVILLE, FL

## TRUSS INDEX SHEET

### GENERAL NOTES AND DESIGN PARAMETERS

1. A SIGNED AND SEALED TRUSS SUMMARY HAS BEEN INCLUDED TO PROVIDE AS AN INDEX OF TRUSS DRAWINGS
2. REFER TO CONSTRUCTION DOCUMENTS FOR TRUSS PLACEMENT
3. DESIGN LOADS:

ROOF: 37 PSF (SHINGLE)
45 PSF (TILE)
FLOOR: 55 PSF

4. WIND DESIGN LOAD INFORMATION-
(PER 2007 FBC CHAPTER 16 SECTION 1609, REF. ASCE 7-05 CHAPTER 6)

A) BASIC WIND SPEED = 110 MPH(3 SECOND GUST)
B) WIND IMPORTANCE FACTOR = 1.00
C) BUILDING CATEGORY = II
D) WIND EXPOSURE(ALL SIDES) =B
E) INTERNAL PRESSURE COEFFICIENTS
ENCLOSED BUILDINGS = +/- 0.18
PARTIALLY ENCLOSED BUILDINGS = +/- 0.55
(NOTE: COEFFICIENTS FOR PARTIALLY ENCLOSED STRUCTURES ARE APPLIED WHEN DESIGN OF MEMBER(S) FALLS UNDER ASCE 7-05 DEFINITIONS CLASSIFYING AS SUCH)

5. REFER TO ROOF AND FLOOR DETAILS AT THE END OF THIS BOOK FOR TYPICAL CONNECTIONS
6. PROFESSIONAL OF RECORD: NOT AVAILABLE AT THIS TIME.

COLUMBIA COUNTY BUILDING DEPARTMENT
Received for FILE COPY
Code Compliance
PLANS EXAMINER

OCT 0 5 2010

WILLIAM M. RANIERI
LICENSE
No. 42704
STATE OF
FLORIDA
PROFESSIONAL ENGINEER



**ProBuild**

Lady Lake, FL

MCD "STRENGTH BY DESIGN"
MONTA CONSULTING & DESIGN
OF WMR & ASSOCAITES, INC.
CERT. OF AUTHORIZATION NO. 91277
222 S. WESTMONTE DRIVE, SUITE 112
ALTAMONTE SPRINGS, FL. 32714
PHONE: (407)681-1917

WILLIAM M. RANIERI, P.E.
FLA. REGIST. NO. 42704

project no.
checked:
drawn:
date:
scale:

William M. Ranieri, PE FL Lic # 42704

PRCBuild

MCD

Digitally signed by William Michael Ranieri
Date: 2010.10.05 09:55:46 -04'00'

| | | | |
|---|---|---|---|
| REQ. QUOTE DATE | 09/01/10 | ORDER # | |
| ORDER DATE | / / | QUOTE # | 10589046 80 |
| DELIVERY DATE | / / | CUSTOMER ACCT # | 67704 |
| DATE OF INVOICE | / / | CUSTOMER PO # | 1111313 |
| ORDERED BY | | INVOICE # | |
| | | TERMS | |
| SUPERINTENDANT | Malloy, Ms. Brande K | | |
| JOBSITE PHONE # | | Designer | James Jonas Jr. |

SHIP TO

SWEENEY RESIDENCE

,

SOLD TO

**JOB NAME:** SUTTON FAMILY HOMES & MGMT CON **LOT #** 2 **SUBDIV:** SUMMER'S ACRES
**MODEL:** SWEENEY/CUSTO **TAG:** JACKSONVILLE **JOB CATEGORY:** ROOF

**DELIVERY INSTRUCTIONS:**

**SPECIAL INSTRUCTIONS:**

| Engineer of Record | License # | Address1 | Address2 | City, ST Zip |
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| EOR Test 1 | | | | , |

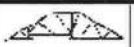
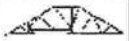
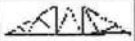
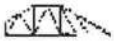
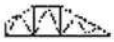
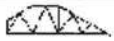
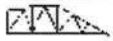
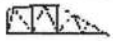
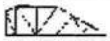
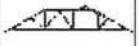
| Bldg Code: FRC2007/TPI2002 | Wind Des Method | Exposure Cat | Occupancy Cat | Velocity / TC Dead / BC Dead |
|---|---|---|---|---|
| Bldg Cat: Residential | MWFRS(all heights)/C-C hybrid Wind ASCE 7-05 | B | II | 110.000 / 4.200 / 4.200 |

## *ROOF TRUSSES*

LOADING INFORMATION

| TCLL-TCDL-BCLL-BCDL | STRESS INCR. |
|---|---|
| 20.0-7.0-0.0-10.0 | 1.15 |

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

| PROFILE | QTY | PITCH | | TYPE | BASE | LUMBER | | OVERHANG | | REACTIONS | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PLY | TOP | BOT | ID | O/A | TOP | BOT | LEFT | RIGHT | | | |
|  | 2 | 7.00 | 0.00 | PIGGYBACK **A** | 47-08-00<br>47-08-00 | 2 X 4 | 2 X 4 | 02-00-00 | | Joint 24<br>2095.0 lbs.<br>-235.8 lbs. | Joint 25<br>399.3 lbs.<br>-171.3 lbs. | Joint 28<br>1633.7 lbs.<br>-258.2 lbs. |
|  | 3 | 7.00 | 5.14 | PIGGYBACK **A1** | 47-07-00<br>47-07-00 | 2 X 4 | 2 X 4 | 02-00-00 | | Joint 26<br>2073.9 lbs.<br>-239.4 lbs. | Joint 27<br>373.3 lbs.<br>-166.4 lbs. | Joint 30<br>1517.8 lbs.<br>-250.9 lbs. |
|  | 2 | 7.00 | 0.00 | PIGGYBACK **A2** | 47-07-00<br>47-07-00 | 2 X 4 | 2 X 4 | 02-00-00 | | Joint 26<br>2020.4 lbs.<br>-226.6 lbs. | Joint 27<br>376.9 lbs.<br>-182.2 lbs. | Joint 30<br>1619.9 lbs.<br>-256.3 lbs. |
|  | 2 | 7.00 | 5.14 | Piggyback Base **A3** | 47-08-00<br>47-08-00 | 2 X 4 | 2 X 4 | | | Joint 20<br>2959.5 lbs.<br>-427.2 lbs. | Joint 21<br>49.7 lbs.<br>-404.6 lbs. | Joint 24<br>1449.5 lbs.<br>-219.4 lbs. |
|  | 2 | 7.00 | 5.14 | Piggyback Base **A4** | 39-03-08<br>39-03-08 | 2 X 4 | 2 X 4 | | | Joint 18<br>1820.8 lbs.<br>-258.9 lbs. | Joint 19<br>1655.8 lbs.<br>-238.6 lbs. | |
|  | 1 | 7.00 | 0.00 | PIGGYBACK **A5** | 39-03-08<br>39-03-08 | 2 X 4 | 2 X 4 | | | Joint 15<br>1836.9 lbs.<br>-260.8 lbs. | Joint 16<br>1690.8 lbs.<br>-241.9 lbs. | |
|  | 4 | 7.00 | 0.00 | PIGGYBACK **A6** | 39-04-08<br>39-04-08 | 2 X 4 | 2 X 4 | | 02-00-00 | Joint 16<br>1836.4 lbs.<br>-260.4 lbs. | Joint 17<br>1805.5 lbs.<br>-317.2 lbs. | |
|  | 1 | 7.00 | 0.00 | Piggyback Base **A7** | 38-09-00<br>38-09-00 | 2 X 4 | 2 X 4 | | 02-00-00 | Joint 17<br>1818.8 lbs.<br>-275.8 lbs. | Joint 18<br>1781.7 lbs.<br>-293.8 lbs. | |
|  | 1 | 7.00 | 0.00 | PIGGYBACK **A8** | 38-09-00<br>38-09-00 | 2 X 4 | 2 X 4 | | 02-00-00 | Joint 17<br>1845.3 lbs.<br>-275.7 lbs. | Joint 18<br>1784.6 lbs.<br>-293.8 lbs. | |
|  | 1 | 7.00 | 0.00 | Piggyback Base **A9** | 38-09-00<br>38-09-00 | 2 X 4 | 2 X 4 | | | Joint 18<br>1850.9 lbs.<br>-271.1 lbs. | Joint 19<br>1683.8 lbs.<br>-224.6 lbs. | |
|  | 1 | 7.00 | 0.00 | ATTIC TRUSS **B11** | 38-06-00<br>38-06-00 | 2 X 4 | 2 X 6 | 02-00-00 | 02-00-00 | Joint 2<br>1532.5 lbs.<br>-321.0 lbs. | Joint 14<br>1601.0 lbs.<br>-321.0 lbs. | |
|  | 1 | 7.00 | 0.00 | ATTIC TRUSS **B13** | 38-06-00<br>38-06-00 | 2 X 4 | 2 X 6 | 02-00-00 | | Joint 2<br>1535.3 lbs.<br>-323.8 lbs. | Joint 11<br>1514.5 lbs.<br>-244.5 lbs. | |

WILLIAM M. RANIERI LICENSE No. 42704 STATE OF FLORIDA PROFESSIONAL ENGINEER

OCT 0 5 2010

PRO Build

| | | | |
|---|---|---|---|
| REQ. QUOTE DATE | 09/01/10 | ORDER # | |
| ORDER DATE | / / | QUOTE # | 10589046 |
| DELIVERY DATE | / / | CUSTOMER ACCT # | 67704 |
| DATE OF INVOICE | / / | CUSTOMER PO # | 1111313 |
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| | | TERMS | |
| SUPERINTENDANT | Malloy, Ms. Brande K | | |
| JOBSITE PHONE # | | Designer | James Jonas Jr. |

SHIP TO: SWEENEY RESIDENCE ,

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**JOB NAME:** SUTTON FAMILY HOMES & MGMT CON **LOT #** 2 **SUBDIV:** SUMMER'S ACRES
**MODEL:** SWEENEY/CUSTO **TAG:** JACKSONVILLE **JOB CATEGORY:** ROOF

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**SPECIAL INSTRUCTIONS:**

| Engineer of Record | License # | Address1 | Address2 | City, ST Zip |
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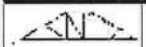
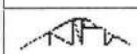
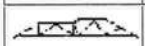
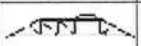
|---|---|---|---|---|
| Bldg Cat: Residential | MWFRS(all heights)/C-C hybrid Wind ASCE 7-05 | B | II | 110.000 / 4.200 / 4.200 |

## *ROOF TRUSSES*

LOADING INFORMATION

| TCLL-TCDL-BCLL-BCDL | STRESS INCR. |
|---|---|
| 20.0-7.0-0.0-10.0 | 1.15 |

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

| PROFILE | QTY / PLY | PITCH TOP | PITCH BOT | TYPE ID | BASE O/A | LUMBER TOP | LUMBER BOT | OVERHANG LEFT | OVERHANG RIGHT | REACTIONS |
|---|---|---|---|---|---|---|---|---|---|---|
|  | 1 | 7.00 | 0.00 | ATTIC TRUSS **B15** | 38-04-00<br>38-04-00 | 2 X 4 | 2 X 6 | 02-00-00 | | Joint 2 1551.8 lbs. -319.5 lbs.<br>Joint 20 1536.2 lbs. -246.6 lbs. |
|  | 1 | 7.00 | 0.00 | ATTIC TRUSS **B17** | 38-04-00<br>38-04-00 | 2 X 4 | 2 X 6 | 02-00-00 | | Joint 2 1544.6 lbs. -317.6 lbs.<br>Joint 20 1540.9 lbs. -248.5 lbs. |
|  | 1<br>2 Ply | 7.00 | 0.00 | Special Truss **B5** | 38-06-00<br>38-06-00 | 2 X 4 | 2 X 4 | 02-00-00 | 02-00-00 | Joint 17 2588.8 lbs. -681.3 lbs.<br>Joint 20 2771.8 lbs. -731.9 lbs. |
|  | 1 | 7.00 | 0.00 | Special Truss **B7** | 38-06-00<br>38-06-00 | 2 X 4 | 2 X 4 | 02-00-00 | 02-00-00 | Joint 18 1565.4 lbs. -323.8 lbs.<br>Joint 21 1588.5 lbs. -318.2 lbs. |
|  | 1 | 7.00 | 0.00 | ATTIC TRUSS **B9** | 38-06-00<br>38-06-00 | 2 X 4 | 2 X 6 | 02-00-00 | 02-00-00 | Joint 2 1532.5 lbs. -321.0 lbs.<br>Joint 14 1584.9 lbs. -321.0 lbs. |
|  | 22 | 7.00 | 0.00 | JACK-OPEN **C1** | 00-11-11<br>00-11-11 | 2 X 4 | 2 X 4 | 02-00-00 | | Joint 3 22.5 lbs. -16.3 lbs.<br>Joint 4 39.5 lbs. -32.6 lbs.<br>Joint 5 228.1 lbs. -148.2 lbs. |
|  | 16 | 7.00 | 0.00 | JACK-OPEN **C3** | 02-11-11<br>02-11-11 | 2 X 4 | 2 X 4 | 02-00-00 | | Joint 3 53.2 lbs. -26.1 lbs.<br>Joint 4 43.6 lbs. 7.5 lbs.<br>Joint 5 248.8 lbs. -96.9 lbs. |
|  | 2 | 7.00 | 0.00 | Jack-Open **C3S** | 02-11-11<br>02-11-11 | 2 X 4 | 2 X 4 | | | Joint 2 61.0 lbs. -33.0 lbs.<br>Joint 3 46.2 lbs. 3.7 lbs.<br>Joint 4 123.9 lbs. -8.1 lbs. |
|  | 10 | 7.00 | 0.00 | Jack-Open **C5** | 04-11-11<br>04-11-11 | 2 X 4 | 2 X 4 | 02-00-00 | | Joint 3 98.7 lbs. -53.7 lbs.<br>Joint 4 75.3 lbs. 12.7 lbs.<br>Joint 5 330.7 lbs. -96.6 lbs. |
|  | 2 | 7.00 | 0.00 | Jack-Open **C5S** | 04-11-11<br>04-11-11 | 2 X 4 | 2 X 4 | | | Joint 2 101.9 lbs. -56.6 lbs.<br>Joint 3 76.5 lbs. 10.0 lbs.<br>Joint 4 215.4 lbs. -16.5 lbs. |
|  | 9 | 7.00 | 0.00 | Jack-Open **E2** | 02-00-00<br>02-00-00 | 2 X 4 | 2 X 4 | 02-00-00 | | Joint 3 27.8 lbs. -11.2 lbs.<br>Joint 4 27.5 lbs. 6.2 lbs.<br>Joint 5 220.7 lbs. -105.[illegible] lbs. |
|  | 6 | 7.00 | 0.00 | Jack-Open **E47** | 04-07-08<br>04-07-08 | 2 X 4 | 2 X 4 | 02-00-00 | | Joint 3 91.1 lbs. -49.2 lbs.<br>Joint 4 69.9 lbs. 11.7 lbs.<br>Joint 5 [illegible] lbs. [illegible] lbs. |

WILLIAM M. RANIERI LICENSE No. 42704 STATE OF FLORIDA PROFESSIONAL ENGINEER

OCT 05 2010



William M. Ranieri, PE, FL Lic # 42704

PRO Build

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| ORDER DATE | / / | QUOTE # | 10589046 |
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| SUPERINTENDANT | Malloy, Ms. Brande K | | |
| JOBSITE PHONE # | | Designer | James Jonas Jr. |

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SOLD TO:

**JOB NAME:** SUTTON FAMILY HOMES & MGMT CON **LOT #** 2 **SUBDIV:** SUMMER'S ACRES
**MODEL:** SWEENEY/CUSTO **TAG:** JACKSONVILLE **JOB CATEGORY:** ROOF

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**ROOF TRUSS SPACING:** 24.0 IN. O.C. (TYP.)

| PROFILE | QTY | PITCH | | TYPE | BASE | LUMBER | | OVERHANG | | REACTIONS | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PLY | TOP | BOT | ID | O/A | TOP | BOT | LEFT | RIGHT | | | |
| | 1 | 7.00 | 0.00 | Jack-Open **E48** | 04-08-00<br>04-08-00 | 2 X 4 | 2 X 4 | 02-00-00 | | Joint 3<br>92.0 lbs.<br>-49.7 lbs. | Joint 4<br>70.5 lbs.<br>11.8 lbs. | Joint 5<br>317.3 lbs.<br>-96.0 lbs. |
| | 7 | 7.00 | 0.00 | Jack-Open **E4T** | 04-08-00<br>04-08-00 | 2 X 4 | 2 X 4 | 02-00-00 | | Joint 4<br>78.3 lbs.<br>-30.2 lbs. | Joint 5<br>79.7 lbs.<br>-5.4 lbs. | Joint 9<br>311.0 lbs.<br>-91.9 lbs. |
| | 3 | 7.00 | 0.00 | Jack-Open **E5** | 05-00-00<br>05-00-00 | 2 X 4 | 2 X 4 | 02-00-00 | | Joint 3<br>99.2 lbs.<br>-54.0 lbs. | Joint 4<br>75.7 lbs.<br>12.8 lbs. | Joint 5<br>331.8 lbs.<br>-96.6 lbs. |
| | 1 | 7.00 | 0.00 | Jack-Open **E5G** | 05-00-00<br>05-00-00 | 2 X 4 | 2 X 4 | | | Joint 2<br>122.3 lbs.<br>-64.5 lbs. | Joint 3<br>204.7 lbs.<br>-45.3 lbs. | Joint 4<br>575.4 lbs.<br>-162.3 lbs. |
| | 23 | 7.00 | 0.00 | Jack-Open **E7** | 07-00-00<br>07-00-00 | 2 X 4 | 2 X 4 | 02-00-00 | | Joint 3<br>141.3 lbs.<br>-78.8 lbs. | Joint 4<br>106.3 lbs.<br>18.2 lbs. | Joint 5<br>420.8 lbs.<br>-102.4 lbs. |
| | 1 | 7.00 | 0.00 | Special Truss **F** | 41-00-08<br>41-00-08 | 2 X 4 | 2 X 4 | | | Joint 15<br>1955.2 lbs.<br>-279.9 lbs. | Joint 16<br>1844.1 lbs.<br>-245.2 lbs. | |
| | 1 | 7.00 | 0.00 | Hip Truss **F1** | 41-00-08<br>41-00-08 | 2 X 4 | 2 X 4 | | | Joint 15<br>1936.2 lbs.<br>-281.5 lbs. | Joint 16<br>1805.4 lbs.<br>-243.6 lbs. | |
| | 1 | 7.00 | 0.00 | ATTIC TRUSS **F11** | 53-08-08<br>53-08-08 | 2 X 4 | 2 X 6 | 02-00-00 | 02-00-00 | Joint 2<br>1605.5 lbs.<br>-278.2 lbs. | Joint 13<br>428.0 lbs.<br>-144.5 lbs. | Joint 17<br>3327.9 lbs.<br>-578.1 lbs. |
| | 1 | 7.00 | 0.00 | Attic Truss **F13** | 53-08-08<br>53-08-08 | 2 X 4 | 2 X 6 | 02-00-00 | 02-00-00 | Joint 2<br>1593.1 lbs.<br>-276.9 lbs. | Joint 13<br>223.4 lbs.<br>-77.2 lbs. | Joint 17<br>3074.1 lbs.<br>-483.3 lbs. |
| | 1 | 7.00 | 0.00 | Special Truss **F15** | 53-08-08<br>53-08-08 | 2 X 4 | 2 X 4 | 02-00-00 | 02-00-00 | Joint 14<br>2971.2 lbs.<br>-416.3 lbs. | Joint 21<br>312.5 lbs.<br>-124.3 lbs. | Joint 24<br>1545.2 lbs.<br>-296.8 lbs. |
| | 1 | 7.00 | 0.00 | Special Truss **F17** | 53-08-08<br>53-08-08 | 2 X 4 | 2 X 4 | 02-00-00 | 02-00-00 | Joint 21<br>2364.7 lbs.<br>-418.5 lbs. | Joint 24<br>2563.7 lbs.<br>-527.1 lbs. | |
| | 1 | 7.00 | 0.00 | Special Truss **F19** | 53-08-08<br>53-08-08 | 2 X 4 | 2 X 4 | 02-00-00 | | Joint 20<br>2259.9 lbs.<br>-344.8 lbs. | Joint 23<br>2410.0 lbs.<br>-418.7 lbs. | |

WILLIAM M. RANIERI LICENSE No. 42704 STATE OF FLORIDA PROFESSIONAL ENGINEER

OCT 05 2010



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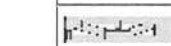
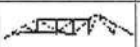
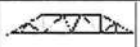
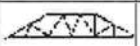
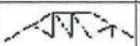
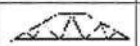
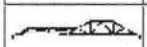
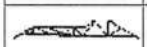
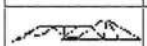
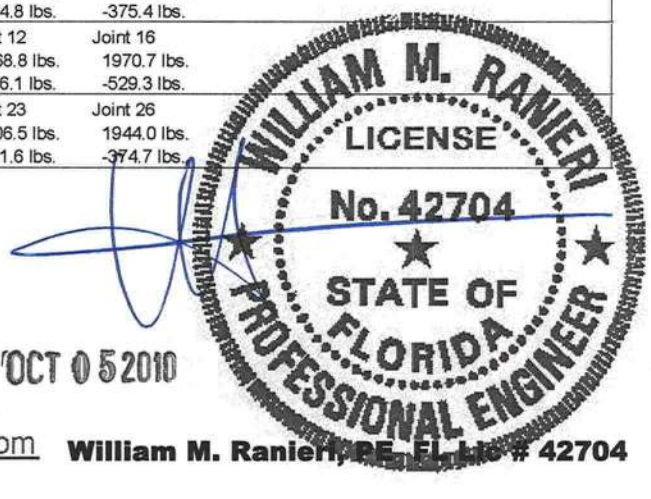
## *ROOF TRUSSES*

LOADING INFORMATION

| TCLL-TCDL-BCLL-BCDL | STRESS INCR. |
|---|---|
| 20.0-7.0-0.0-10.0 | 1.15 |

**ROOF TRUSS SPACING:** 24.0 IN. O.C. (TYP.)

| PROFILE | QTY / PLY | PITCH TOP | PITCH BOT | TYPE ID | BASE O/A | LUMBER TOP | LUMBER BOT | OVERHANG LEFT | OVERHANG RIGHT | REACTIONS |
|---|---|---|---|---|---|---|---|---|---|---|
|  | 1 | 7.00 | 0.00 | Special Truss **F21** | 53-08-08<br>53-08-08 | 2 X 4 | 2 X 4 | 02-00-00 | | Joint 24<br>2316.1 lbs.<br>-420.0 lbs.<br>Joint 27<br>2286.3 lbs.<br>-343.5 lbs. |
|  | 1<br>2 Ply | -7.00 | 0.00 | Half Hip Truss **FG** | 19-00-08<br>19-00-08 | 2 X 4 | 2 X 8 | | | Joint 8<br>7681.7 lbs.<br>-1175.2 lbs.<br>Joint 9<br>152.0 lbs.<br>-484.0 lbs.<br>Joint 10<br>5352.7 lbs.<br>-741.4 lbs. |
|  | 1<br>2 Ply | 0.00 | 0.00 | Flat Truss **FG1** | 05-00-00<br>05-00-00 | 2 X 4 | 2 X 4 | | | Joint 5<br>2555.2 lbs.<br>-571.8 lbs.<br>Joint 8<br>2033.3 lbs.<br>-412.5 lbs. |
|  | 1 | 7.00 | 0.00 | Special Truss **G10** | 47-08-00<br>47-08-00 | 2 X 4 | 2 X 4 | 02-00-00 | | Joint 26<br>3881.1 lbs.<br>-537.4 lbs.<br>Joint 27<br>1829.5 lbs.<br>-278.4 lbs.<br>Joint 30<br>151.9 lbs.<br>-1655.9 lbs. |
|  | 1 | 7.00 | 0.00 | Hip Truss **G12** | 47-08-00<br>47-08-00 | 2 X 4 | 2 X 4 | 02-00-00 | | Joint 19<br>2561.8 lbs.<br>-348.4 lbs.<br>Joint 20<br>1755.9 lbs.<br>-276.1 lbs.<br>Joint 23<br>-22.7 lbs.<br>-277.5 lbs. |
|  | 1 | 7.00 | 0.00 | Hip Truss **G14** | 47-08-00<br>47-08-00 | 2 X 4 | 2 X 4 | 02-00-00 | | Joint 19<br>2576.2 lbs.<br>-354.2 lbs.<br>Joint 20<br>-18.6 lbs.<br>-137.3 lbs.<br>Joint 23<br>1726.9 lbs.<br>-260.5 lbs. |
|  | 1 | 7.00 | 0.00 | Hip Truss **G16** | 47-08-00<br>47-08-00 | 2 X 4 | 2 X 4 | 02-00-00 | | Joint 17<br>2455.9 lbs.<br>-331.9 lbs.<br>Joint 18<br>168.6 lbs.<br>-105.6 lbs.<br>Joint 21<br>1659.4 lbs.<br>-248.5 lbs. |
|  | 1 | 7.00 | 0.00 | Hip Truss **G18** | 47-08-00<br>47-08-00 | 2 X 4 | 2 X 4 | 02-00-00 | | Joint 18<br>2570.6 lbs.<br>-374.8 lbs.<br>Joint 19<br>44.7 lbs.<br>-70.8 lbs.<br>Joint 22<br>1608.0 lbs.<br>-240.4 lbs. |
|  | 1 | 7.00 | 4.00 | Special Truss **G4** | 47-08-00<br>47-08-00 | 2 X 4 | 2 X 4 | 02-00-00 | 02-00-00 | Joint 20<br>2499.2 lbs.<br>-501.9 lbs.<br>Joint 28<br>1054.0 lbs.<br>-288.3 lbs.<br>Joint 31<br>1020.9 lbs.<br>-224.1 lbs. |
|  | 1 | 7.00 | 4.00 | Special Truss **G6** | 47-08-00<br>47-08-00 | 2 X 4 | 2 X 6 | 02-00-00 | 02-00-00 | Joint 26<br>1931.5 lbs.<br>-374.8 lbs.<br>Joint 29<br>1981.2 lbs.<br>-375.4 lbs. |
|  | 1 | 7.00 | 0.00 | Hip Truss **G7** | 27-02-00<br>27-02-00 | 2 X 4 | 2 X 4 | | 02-00-00 | Joint 12<br>1868.8 lbs.<br>-456.1 lbs.<br>Joint 16<br>1970.7 lbs.<br>-529.3 lbs. |
|  | 1 | 7.00 | 4.00 | Special Truss **G8** | 47-08-00<br>47-08-00 | 2 X 4 | 2 X 6 | 02-00-00 | | Joint 23<br>1906.5 lbs.<br>-301.6 lbs.<br>Joint 26<br>1944.0 lbs.<br>-374.7 lbs. |




OCT 0 5 2010



William M. Ranieri PE, FL Lic # 42704

PROBuild

| | | | |
|---|---|---|---|
| REQ. QUOTE DATE | 09/01/10 | ORDER # | |
| ORDER DATE | / / | QUOTE # | 10589046 |
| DELIVERY DATE | / / | CUSTOMER ACCT # | 67704 |
| DATE OF INVOICE | / / | CUSTOMER PO # | 1111313 |
| ORDERED BY | | INVOICE # | |
| | | TERMS | |
| SUPERINTENDANT | Malloy, Ms. Brande K | | |
| JOBSITE PHONE # | | Designer | James Jonas Jr. |

SHIP TO: SWEENEY RESIDENCE ,

SOLD TO:

**JOB NAME:** SUTTON FAMILY HOMES & MGMT CON **LOT #** 2 **SUBDIV:** SUMMER'S ACRES
**MODEL:** SWEENEY/CUSTO **TAG:** JACKSONVILLE **JOB CATEGORY:** ROOF

**DELIVERY INSTRUCTIONS:**

**SPECIAL INSTRUCTIONS:**

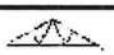
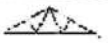
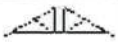
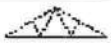
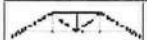
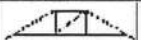
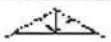
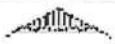
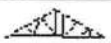
| Engineer of Record | License # | Address1 | Address2 | City, ST Zip |
|---|---|---|---|---|
| EOR Test 1 | | | | , |

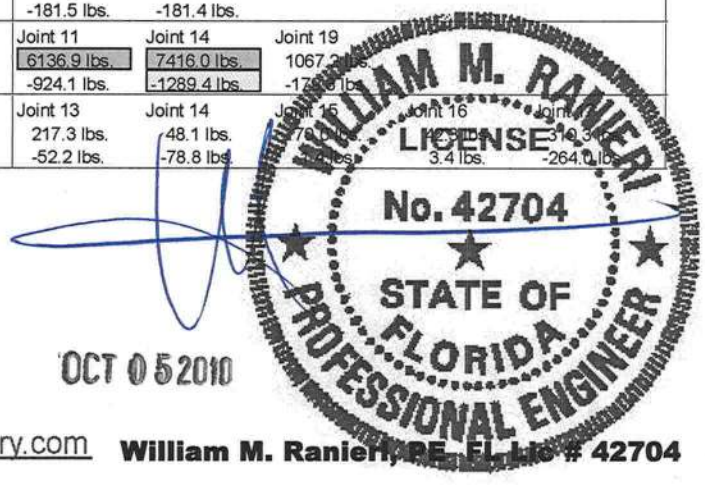
| Bldg Code: FRC2007/TPI2002 | Wind Des Method | Exposure Cat | Occupancy Cat | Velocity / TC Dead / BC Dead |
|---|---|---|---|---|
| Bldg Cat: Residential | MWFRS(all heights)/C-C hybrid Wind ASCE 7-05 | B | II | 110.000 / 4.200 / 4.200 |

## *ROOF TRUSSES*

LOADING INFORMATION: TCLL-TCDL-BCLL-BCDL 20.0-7.0-0.0-10.0; STRESS INCR. 1.15

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

| PROFILE | QTY / PLY | PITCH TOP | PITCH BOT | TYPE / ID | BASE O/A | LUMBER TOP | LUMBER BOT | OVERHANG LEFT | OVERHANG RIGHT | REACTIONS |
|---|---|---|---|---|---|---|---|---|---|---|
|  | 1 | 7.00 | 0.00 | Common Truss H | 25-00-08 25-00-08 | 2 X 4 | 2 X 4 | | 02-00-00 | Joint 10 995.4 lbs. -159.9 lbs. Joint 13 1105.6 lbs. -235.6 lbs. |
|  | 3 | 7.00 | 0.00 | Common Truss H1 | 25-00-08 25-00-08 | 2 X 4 | 2 X 4 | | 02-00-00 | Joint 10 999.5 lbs. -159.9 lbs. Joint 13 1109.7 lbs. -235.6 lbs. |
|  | 1 | 7.00 | 0.00 | Hip Truss H11 | 25-00-08 25-00-08 | 2 X 4 | 2 X 4 | 02-00-00 | 02-00-00 | Joint 11 1091.6 lbs. -234.5 lbs. Joint 14 1091.7 lbs. -234.7 lbs. |
|  | 1 | 7.00 | 0.00 | Common Truss H2 | 25-00-08 25-00-08 | 2 X 4 | 2 X 4 | | | Joint 9 1000.6 lbs. -160.8 lbs. Joint 12 1000.6 lbs. -160.8 lbs. |
|  | 2 | 7.00 | 0.00 | Common Truss H3 | 25-00-08 25-00-08 | 2 X 4 | 2 X 4 | | | Joint 9 996.5 lbs. -160.8 lbs. Joint 12 996.5 lbs. -160.8 lbs. |
|  | 1 | 7.00 | 0.00 | Common Truss H4 | 25-00-08 25-00-08 | 2 X 4 | 2 X 4 | | | Joint 8 1109.6 lbs. -207.1 lbs. Joint 9 300.0 lbs. -34.9 lbs. Joint 12 538.9 lbs. -79.5 lbs. |
|  | 1 | 7.00 | 0.00 | Hip Truss H7 | 25-00-08 25-00-08 | 2 X 4 | 2 X 4 | 02-00-00 | 02-00-00 | Joint 12 1824.1 lbs. -491.9 lbs. Joint 15 1839.6 lbs. -497.2 lbs. |
|  | 1 | 7.00 | 0.00 | Hip Truss H9 | 25-00-08 25-00-08 | 2 X 4 | 2 X 4 | 02-00-00 | 02-00-00 | Joint 10 1172.0 lbs. -234.7 lbs. Joint 13 1186.3 lbs. -234.6 lbs. |
|  | 2 | 7.00 | 0.00 | Common Truss L | 20-00-00 20-00-00 | 2 X 4 | 2 X 4 | 02-00-00 | 02-00-00 | Joint 9 848.0 lbs. -202.3 lbs. Joint 12 848.0 lbs. -202.3 lbs. |
|  | 1 | 7.00 | 0.00 | GABLE LX | 20-00-00 20-00-00 | 2 X 4 | 2 X 4 | 02-00-00 | 02-00-00 | Joint 30 613.4 lbs. -181.5 lbs. Joint 33 613.6 lbs. -181.4 lbs. |
|  | 1 / 2 Ply | 7.00 | 0.00 | Special Truss MG | 34-04-00 34-04-00 | 2 X 4 | 2 X 4 | 02-00-00 | | Joint 11 6136.9 lbs. -924.1 lbs. Joint 14 7416.0 lbs. -1289.4 lbs. Joint 19 1067.2 lbs. -178.6 lbs. |
|  | 1 | 7.00 | 0.00 | GABLE MX | 34-04-00 34-04-00 | 2 X 4 | 2 X 4 | 02-00-00 | | Joint 13 217.3 lbs. -52.2 lbs. Joint 14 48.1 lbs. -78.8 lbs. Joint 15 78.0 lbs. -3.4 lbs. Joint 16 [illegible] Joint [illegible] -264.0 lbs. |




OCT 0 5 2010



William M. Ranieri, PE, FL Lic # 42704

PROBuild

| | | | |
|---|---|---|---|
| REQ. QUOTE DATE | 09/01/10 | ORDER # | |
| ORDER DATE | / / | QUOTE # | 10589046 |
| DELIVERY DATE | / / | CUSTOMER ACCT # | 67704 |
| DATE OF INVOICE | / / | CUSTOMER PO # | 1111313 |
| ORDERED BY | | INVOICE # | |
| | | TERMS | |
| SUPERINTENDANT | Malloy, Ms. Brande K | | |
| JOBSITE PHONE # | | Designer | James Jonas Jr. |

SHIP TO: SWEENEY RESIDENCE ,

SOLD TO:

JOB NAME: SUTTON FAMILY HOMES & MGMT CON LOT # 2 SUBDIV: SUMMER'S ACRES
MODEL: SWEENEY/CUSTO TAG: JACKSONVILLE JOB CATEGORY: ROOF

DELIVERY INSTRUCTIONS:

SPECIAL INSTRUCTIONS:

| Engineer of Record | License # | Address1 | Address2 | City, ST Zip |
|---|---|---|---|---|
| EOR Test 1 | | | | , |

| Bldg Code: FRC2007/TPI2002 | Wind Des Method | Exposure Cat | Occupancy Cat | Velocity / TC Dead / BC Dead |
|---|---|---|---|---|
| Bldg Cat: Residential | MWFRS(all heights)/C-C hybrid Wind ASCE 7-05 | B | II | 110.000 / 4.200 / 4.200 |

## ROOF TRUSSES

LOADING INFORMATION

| TCLL-TCDL-BCLL-BCDL | STRESS INCR. |
|---|---|
| 20.0-7.0-0.0-10.0 | 1.15 |

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

| PROFILE | QTY / PLY | PITCH TOP | PITCH BOT | TYPE ID | BASE O/A | LUMBER TOP | LUMBER BOT | OVERHANG LEFT | OVERHANG RIGHT | REACTIONS |
|---|---|---|---|---|---|---|---|---|---|---|
| | 15 | 7.00 | 0.00 | Piggyback PB | 08-07-11 08-07-11 | 2 X 4 | 2 X 4 | | | Joint 1 117.1 lbs. -188.6 lbs. Joint 2 414.1 lbs. -182.4 lbs. Joint 4 414.1 lbs. -182.4 lbs. Joint 5 117.1 lbs. -188.6 lbs. Joint 6 270.9 lbs. 6.8 lbs. |
| | 1 | 7.00 | 0.00 | Piggyback PB1 | 08-07-11 08-07-11 | 2 X 4 | 2 X 4 | | | Joint 1 191.4 lbs. -47.7 lbs. Joint 2 82.9 lbs. -82.9 lbs. Joint 7 191.4 lbs. -40.3 lbs. Joint 8 338.9 lbs. -43.2 lbs. |
| | 1 | 7.00 | 0.00 | Piggyback PB2 | 08-07-11 08-07-11 | 2 X 4 | 2 X 4 | | | Joint 1 190.4 lbs. -46.2 lbs. Joint 2 78.9 lbs. -78.9 lbs. Joint 7 190.3 lbs. -39.8 lbs. Joint 8 341.1 lbs. -44.1 lbs. |
| | 1 | 7.00 | 0.00 | Piggyback PB3 | 08-07-11 08-07-11 | 2 X 4 | 2 X 4 | | | Joint 1 58.2 lbs. -87.4 lbs. Joint 2 267.9 lbs. -106.2 lbs. Joint 5 267.9 lbs. -106.2 lbs. Joint 6 58.2 lbs. -87.4 lbs. Joint 7 180.4 lbs. -13.9 lbs. |
| | 1 | 7.00 | 0.00 | Piggyback PB4 | 08-07-11 08-07-11 | 2 X 4 | 2 X 4 | | | Joint 1 56.5 lbs. -84.5 lbs. Joint 2 263.3 lbs. -104.0 lbs. Joint 5 263.3 lbs. -104.0 lbs. Joint 6 56.5 lbs. -84.5 lbs. Joint 7 182.0 lbs. -14.4 lbs. |
| | 2 | 4.95 | 0.00 | Jack-Open R2 | 02-09-03 02-09-03 | 2 X 4 | 2 X 4 | 02-09-15 | | Joint 3 19.3 lbs. -21.2 lbs. Joint 4 12.5 lbs. -11.5 lbs. Joint 5 263.8 lbs. -179.6 lbs. |
| | 1 | 4.95 | 0.00 | Jack-Open R47 | 06-05-12 06-05-12 | 2 X 4 | 2 X 4 | 02-10-11 | | Joint 3 124.0 lbs. -67.0 lbs. Joint 4 96.0 lbs. 14.3 lbs. Joint 5 375.6 lbs. -197.0 lbs. |
| | 1 | 4.95 | 0.00 | Jack-Open R4T | 06-06-07 06-06-07 | 2 X 4 | 2 X 4 | 02-09-15 | | Joint 4 111.4 lbs. -40.7 lbs. Joint 5 106.9 lbs. -8.9 lbs. Joint 9 370.1 lbs. -188.3 lbs. |
| | 1 | 4.95 | 0.00 | Jack-Open R5 | 07-00-02 07-00-02 | 2 X 4 | 2 X 4 | 02-09-15 | | Joint 3 136.5 lbs. -71.8 lbs. Joint 4 104.7 lbs. 16.0 lbs. Joint 5 393.4 lbs. -197.7 lbs. |
| | 6 | 4.95 | 0.00 | Jack-Open R7 | 09-10-01 09-10-01 | 2 X 4 | 2 X 4 | 02-09-15 | | Joint 4 113.0 lbs. -56.3 lbs. Joint 5 315.3 lbs. -66.2 lbs. Joint 8 500.6 lbs. -214.6 lbs. |
| | 1 / 2 Ply | 7.00 | 0.00 | Common Truss TG | 09-00-00 09-00-00 | 2 X 4 | 2 X 6 | | | Joint 1 5300.5 lbs. -813.3 lbs. Joint 3 3352.6 lbs. -495.1 lbs. |
| | 1 | 7.00 | 0.00 | Common Truss TX | 09-00-00 09-00-00 | 2 X 4 | 2 X 4 | 02-00-00 | 02-00-00 | Joint 2 245.3 lbs. -145.1 lbs. Joint 8 245.3 lbs. -145.1 lbs. Joint 10 [illegible] Joint 11 [illegible] -8.8 lbs. Joint [illegible] -16.5 lbs. |

WILLIAM M. RANIERI LICENSE No. 42704 STATE OF FLORIDA PROFESSIONAL ENGINEER

OCT 0 5 2010



William M. Ranieri, PE, FL Lic # 42704

PRO Build

| | | | |
|---|---|---|---|
| REQ. QUOTE DATE | 09/01/10 | ORDER # | |
| ORDER DATE | / / | QUOTE # | 10589046 |
| DELIVERY DATE | / / | CUSTOMER ACCT # | 67704 |
| DATE OF INVOICE | / / | CUSTOMER PO # | 1111313 |
| ORDERED BY | | INVOICE # | |
| | | TERMS | |
| SUPERINTENDANT | Malloy, Ms. Brande K | | |
| JOBSITE PHONE # | | Designer | James Jonas Jr. |

SHIP TO: SWEENEY RESIDENCE ,

SOLD TO:

**JOB NAME:** SUTTON FAMILY HOMES & MGMT CON **LOT #** 2 **SUBDIV:** SUMMER'S ACRES
**MODEL:** SWEENEY/CUSTO **TAG:** JACKSONVILLE **JOB CATEGORY:** ROOF

**DELIVERY INSTRUCTIONS:**

**SPECIAL INSTRUCTIONS:**

| Engineer of Record | License # | Address1 | Address2 | City, ST Zip |
|---|---|---|---|---|
| EOR Test 1 | | | | , |

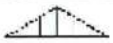
| Bldg Code: FRC2007/TPI2002 | Wind Des Method | Exposure Cat | Occupancy Cat | Velocity / TC Dead / BC Dead |
|---|---|---|---|---|
| Bldg Cat: Residential | MWFRS(all heights)/C-C hybrid Wind ASCE 7-05 | B | II | 110.000 / 4.200 / 4.200 |

## ROOF TRUSSES

LOADING INFORMATION

| TCLL-TCDL-BCLL-BCDL | STRESS INCR. |
|---|---|
| 20.0-7.0-0.0-10.0 | 1.15 |

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

| PROFILE | QTY | PITCH | | TYPE ID | BASE O/A | LUMBER | | OVERHANG | | REACTIONS | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PLY | TOP | BOT | | | TOP | BOT | LEFT | RIGHT | | | | | |
|  | 1 | 7.00 | 0.00 | Valley Truss VT1 | 32-03-09 32-03-09 | 2 X 4 | 2 X 4 | | | Joint 1 118.9 lbs. -34.8 lbs. | Joint 11 117.5 lbs. 6.9 lbs. | Joint 12 305.6 lbs. -98.1 lbs. | Joint 13 369.8 lbs. -88.7 lbs. | Joint 14 474.8 lbs. -99.4 lbs. |
|  | 1 | 7.00 | 0.00 | Valley Truss VT2 | 28-03-09 28-03-09 | 2 X 4 | 2 X 4 | | | Joint 1 181.2 lbs. -5.2 lbs. | Joint 7 178.9 lbs. -5.9 lbs. | Joint 8 469.7 lbs. -132.3 lbs. | Joint 9 421.6 lbs. -84.4 lbs. | Joint 10 425.7 lbs. 27.4 lbs. |
|  | 1 | 7.00 | 0.00 | Valley Truss VT3 | 24-03-09 24-03-09 | 2 X 4 | 2 X 4 | | | Joint 1 118.9 lbs. -12.6 lbs. | Joint 7 118.9 lbs. 6.6 lbs. | Joint 8 302.6 lbs. -96.2 lbs. | Joint 9 381.6 lbs. -97.1 lbs. | Joint 10 431.9 lbs. 29.0 lbs. |
|  | 1 | 7.00 | 0.00 | Valley Truss VT4 | 20-03-09 20-03-09 | 2 X 4 | 2 X 4 | | | Joint 1 174.3 lbs. -18.8 lbs. | Joint 5 174.3 lbs. -18.8 lbs. | Joint 6 484.8 lbs. -140.4 lbs. | Joint 7 349.5 lbs. 15.1 lbs. | Joint 9 484.8 lbs. -140.4 lbs. |
|  | 1 | 7.00 | 0.00 | Valley Truss VT5 | 16-03-09 16-03-09 | 2 X 4 | 2 X 4 | | | Joint 1 113.9 lbs. -7.8 lbs. | Joint 5 113.9 lbs. -7.8 lbs. | Joint 6 329.2 lbs. -105.3 lbs. | Joint 7 240.0 lbs. 30.7 lbs. | Joint 8 329.2 lbs. -105.3 lbs. |
|  | 1 | 7.00 | 0.00 | Valley Truss VT6 | 12-03-09 12-03-09 | 2 X 4 | 2 X 4 | | | Joint 1 190.3 lbs. -43.6 lbs. | Joint 3 190.3 lbs. -43.6 lbs. | Joint 4 449.6 lbs. -56.9 lbs. | | |
|  | 1 | 7.00 | 0.00 | Valley Truss VT7 | 08-03-09 08-03-09 | 2 X 4 | 2 X 4 | | | Joint 1 137.6 lbs. -38.3 lbs. | Joint 3 137.6 lbs. -38.3 lbs. | Joint 4 258.9 lbs. -16.1 lbs. | | |
|  | 1 | 7.00 | 0.00 | Valley Truss VT8 | 04-03-09 04-03-09 | 2 X 4 | 2 X 4 | | | Joint 1 119.1 lbs. -20.7 lbs. | Joint 3 119.1 lbs. -20.7 lbs. | | | |

## ITEMS

| QTY | ITEM TYPE | SIZE | LENGTH FT-IN-16 | PART NUMBER | NOTES |
|---|---|---|---|---|---|
| 3 | Lady Lake EWP | 1 3/4 X 14 LVL 2.0E | 25-00-00 | | |
| 4 | Lady Lake EWP | 1 3/4 X 14 LVL 2.0E | 14-00-00 | | |
| 3 | Lady Lake EWP | 1 3/4 X 14 LVL 2.0E | 25-00-00 | | |
| 2 | Lady Lake EWP | 1 3/4 X 16 LVL 2.0E | 18-00-00 | | |
| 5 | Lady Lake Valley | 2x6x10 SYP #2 | | | |
| 8 | Lady Lake Valley | 2x6x12 SYP #2 | | | |

WILLIAM M. RANIERI LICENSE No. 42704 STATE OF FLORIDA PROFESSIONAL ENGINEER

OCT 05 2010



William M. Ranieri, PE, FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | A | PIGGYBACK BASE TRUSS | 2 | 1 | Job Reference (optional) |

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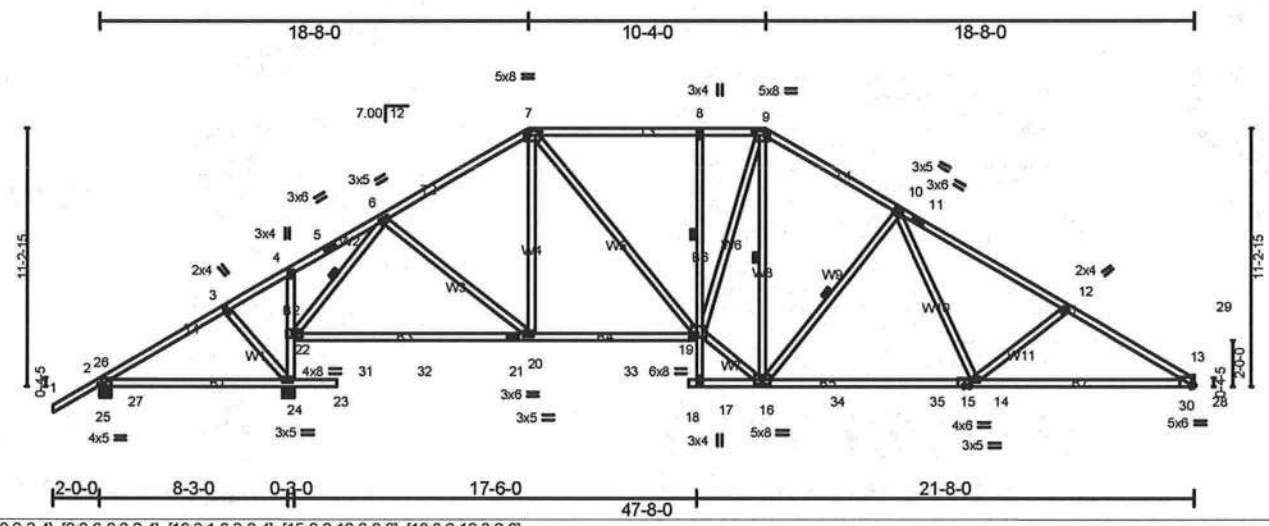


Plate Offsets (X,Y): [2:0-1-1,0-0-2], [7:0-6-0,0-2-4], [9:0-6-0,0-2-4], [13:0-1-3,0-0-4], [15:0-2-12,0-0-0], [19:0-2-12,0-2-0]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.46 | Vert(LL) | -0.35 | 14-16 | >999 | 360 | | |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.86 | Vert(TL) | -0.67 | 20-22 | >706 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.62 | Horz(TL) | 0.11 | 13 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.08 | 14-16 | >999 | 240 | Weight: 304 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B2: 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3 *Except*
W5,W8: 2 X 4 SYP No.2

**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 3-5-8 oc purlins, except
2-0-0 oc purlins (4-1-0 max.): 7-9.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 16-17.
1 Row at midpt 8-19
3-7-0 oc bracing: 22-24
6-0-0 oc bracing: 17-19
WEBS
1 Row at midpt 6-22, 9-16, 10-16

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

**REACTIONS** (lb/size)
25 = 399/0-6-0 (min. 0-1-8)
24 = 2095/0-6-0 (min. 0-2-8)
28 = 1634/Mechanical
Max Horz
25 = 270(LC 6)
Max Uplift
25 = -171(LC 7)
24 = -236(LC 7)
28 = -258(LC 7)
Max Grav
25 = 399(LC 1)
24 = 2095(LC 1)
28 = 1634(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-26=-663/0, 6-7=-1820/370, 7-8=-1864/422, 8-9=-1853/420, 9-10=-1866/420, 10-11=-2408/457, 11-12=-2589/441, 12-29=-2836/492, 13-29=-1451/157
BOT CHORD
25-27=-27/891, 22-24=-1824/204, 22-31=-103/1114, 31-32=-103/1114, 21-32=-103/1114, 20-21=-103/1114, 20-33=-36/1496, 19-33=-36/1496, 8-19=-342/132, 16-34=-208/1937, 34-35=-208/1937, 15-35=-208/1937, 14-15=-208/1937, 14-30=-368/2394, 28-30=-170/1584
WEBS
6-22=-1910/219, 6-20=0/492, 7-19=-99/574, 16-19=-72/1918, 9-19=-86/1090, 9-16=-290/64, 10-16=-670/225, 10-14=-39/535, 12-14=-310/186, 2-25=-612/149, 26-27=-9/296, 25-26=-33/802, 2-27=-1266/0, 13-28=-1132/149, 29-30=-400/180, 28-29=-119/500, 13-30=-1135/0

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights); Lumber DOL=1.60 plate grip DOL=1.60
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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 25=171, 24=236, 28=258.
8) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
9) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

**LOAD CASE(S)**
Standard

WILLIAM M. RANIERI LICENSE No. 42704 STATE OF FLORIDA PROFESSIONAL ENGINEER



William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | A2 | PIGGYBACK BASE TRUSS | 2 | 1 | Job Reference (optional) |

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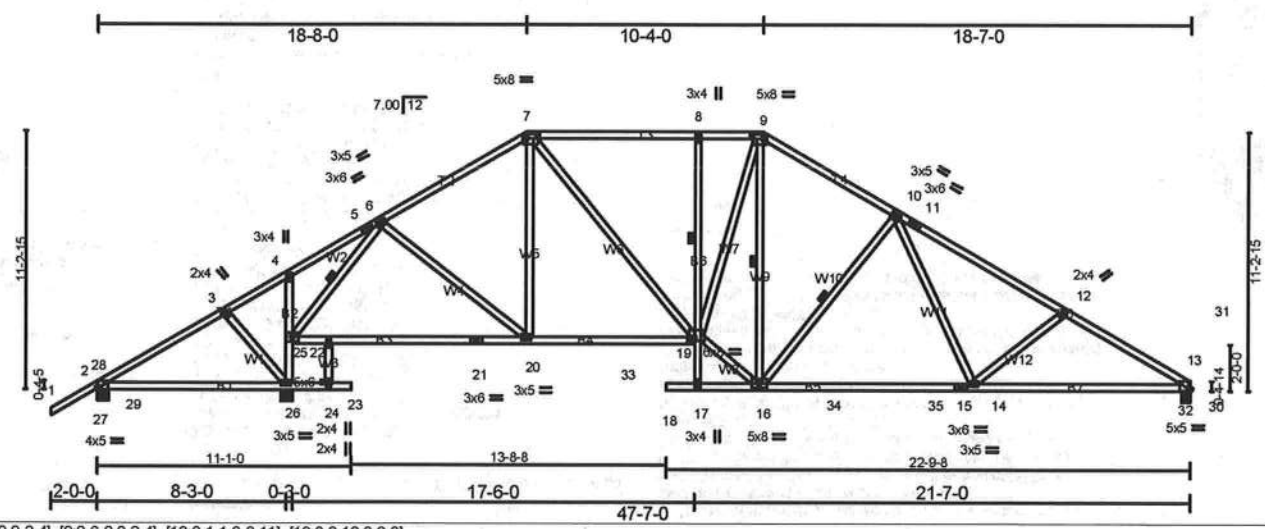


Plate Offsets (X,Y): [2:0-0-8,0-0-4], [7:0-6-0,0-2-4], [9:0-6-0,0-2-4], [13:0-1-1,0-0-11], [19:0-2-12,0-2-0]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.46 | Vert(LL) | -0.35 | 14-16 | >999 | 360 | | |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.85 | Vert(TL) | -0.63 | 14-16 | >750 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.62 | Horz(TL) | 0.11 | 13 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.08 | 14-16 | >999 | 240 | Weight: 309 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B2: 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3 *Except*
W6,W9: 2 X 4 SYP No.2

**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 3-5-11 oc purlins, except
2-0-0 oc purlins (4-1-5 max.): 7-9.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 26-29,16-17.
1 Row at midpt 8-19
6-0-0 oc bracing: 17-19
WEBS
1 Row at midpt 6-25, 9-16, 10-16
JOINTS
1 Brace at Jt(s): 25

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

**REACTIONS** (lb/size)
27 = 377/0-6-0 (min. 0-1-8)
26 = 2020/0-6-0 (min. 0-2-6)
30 = 1620/0-5-0 (min. 0-1-15)
Max Horz
27 = 269(LC 6)
Max Uplift
27 = -182(LC 7)
26 = -227(LC 7)
30 = -256(LC 7)
Max Uplift
27 = -182(LC 7)
26 = -227(LC 7)
30 = -256(LC 7)
Max Grav
27 = 377(LC 1)
26 = 2020(LC 1)
30 = 1620(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-28=-505/0, 6-7=-1760/374, 7-8=-1850/419, 8-9=-1838/416, 9-10=-1850/418, 10-11=-2390/453, 11-12=-2571/437, 12-31=-2818/487, 13-31=-1310/98
BOT CHORD
27-29=-62/701, 25-26=-1662/221, 22-25=-111/1066, 21-22=-111/1066, 20-21=-111/1066, 20-33=-40/1443, 19-33=-40/1443, 8-19=-342/132, 16-34=-207/1923, 34-35=-207/1923, 15-35=-207/1923, 14-15=-207/1923, 14-32=-365/2378, 30-32=-107/1517
WEBS
6-25=-1904/205, 6-20=0/488, 7-19=-88/634, 16-19=-67/1924, 9-19=-81/1087, 9-16=-295/60, 10-16=-669/224, 10-14=-37/533, 12-14=-308/185, 2-27=-561/165, 27-28=-55/684, 2-29=-1054/0, 13-30=-976/114, 31-32=-375/196, 30-31=-434/289, 13-32=-937/0

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights); Lumber DOL=1.60 plate grip DOL=1.60
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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 27=182, 26=227, 30=256.
7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
8) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

**LOAD CASE(S)**
Standard

WILLIAM M. RANIERI LICENSE No. 42704 STATE OF FLORIDA PROFESSIONAL ENGINEER



William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | A4 | Piggyback Base Truss | 2 | 1 | Job Reference (optional) |

ProBuild, Lady Lake, FL 32159, J. Jonas

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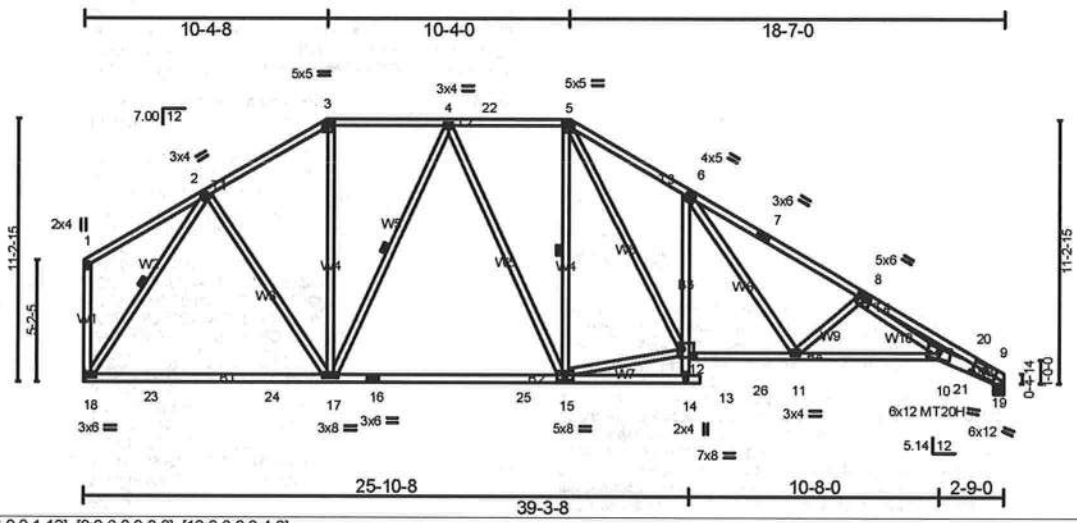


Plate Offsets (X,Y): [3:0-2-8,0-2-1], [5:0-2-8,0-2-1], [8:0-3-0,0-1-12], [9:0-6-0,0-3-3], [12:0-6-0,0-4-0]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.72 | Vert(LL) | -0.45 | 15-17 | >999 | 360 | | |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.98 | Vert(TL) | -0.80 | 15-17 | >587 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.92 | Horz(TL) | 0.31 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.18 | 10-11 | >999 | 240 | Weight: 287 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2 *Except*
T4: 2 X 4 SYP M 30
BOT CHORD 2 X 4 SYP No.2 *Except*
B3: 2 X 4 SYP No.3, B5: 2 X 6 SYP No.2
WEBS 2 X 4 SYP No.2 *Except*
W3,W7,W9,W10,W2,W8: 2 X 4 SYP No.3

**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 2-2-0 oc bracing. Except:
10-0-0 oc bracing: 12-14
WEBS
1 Row at midpt 4-17, 5-15, 2-18

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

**REACTIONS** (lb/size)
19 = 1656/0-5-0 (min. 0-1-12)
18 = 1821/Mechanical
Max Horz
18 = 200(LC 6)
Max Uplift
19 = -239(LC 7)
18 = -259(LC 7)
Max Grav
19 = 1656(LC 1)
18 = 1821(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-3=-1595/318, 3-4=-1315/305, 4-22=-1610/364, 5-22=-1610/364, 5-6=-2742/551, 6-7=-3166/510, 7-8=-3283/493, 8-20=-6486/884, 9-20=-2658/364
BOT CHORD
18-23=-19/1008, 23-24=-19/1008, 17-24=-19/1008, 16-17=-40/1535, 16-25=-40/1535, 15-25=-40/1535, 6-12=-767/285, 12-26=-184/2314, 11-26=-185/2309, 10-11=-447/3371, 10-21=-745/5873, 19-21=-332/2476
WEBS
2-17=-11/544, 3-17=-60/520, 4-17=-526/138, 12-15=-30/1627, 5-12=-297/1490, 8-11=-830/251, 8-10=-330/2858, 2-18=-1784/275, 6-11=-134/788, 9-19=-1146/169, 20-21=-655/120, 19-20=-1947/264, 9-21=-182/1401

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights); Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Bearing at joint(s) 19 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=239, 18=259.
10) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | A6 | PIGGYBACK BASE TRUSS | 4 | 1 | Job Reference (optional) |

ProBuild, Lady Lake, FL 32159, J. Jonas

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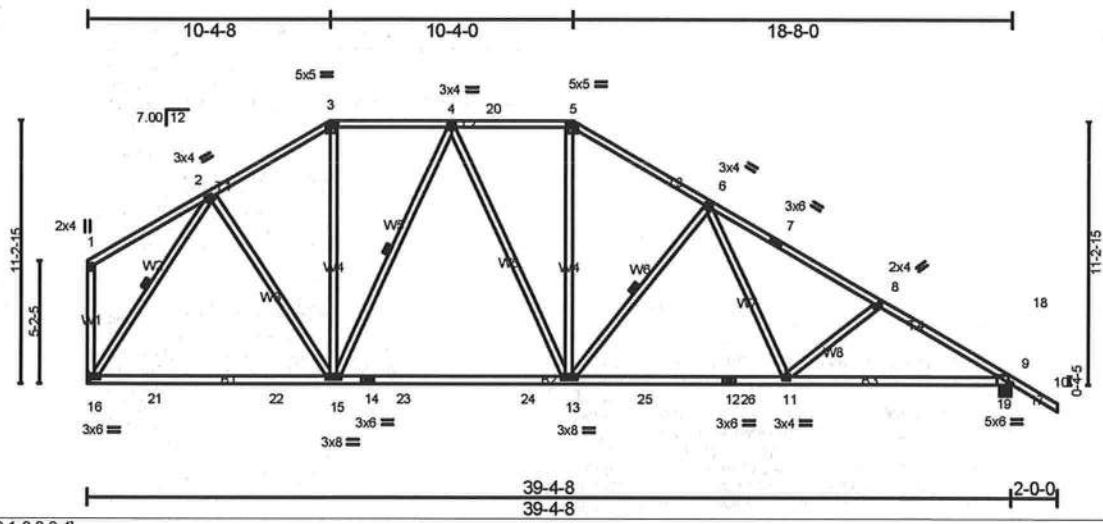


Plate Offsets (X,Y): [3:0-2-8,0-2-1], [5:0-2-8,0-2-1], [9:0-1-3,0-0-4]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.48 | Vert(LL) | -0.36 | 15-16 | >999 | 360 | | |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.87 | Vert(TL) | -0.73 | 15-16 | >645 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.76 | Horz(TL) | 0.11 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.08 | 11-13 | >999 | 240 | Weight: 262 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B1: 2 X 4 SYP M 30
WEBS 2 X 4 SYP No.2 *Except*
W3,W6,W7,W8,W2: 2 X 4 SYP No.3

**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 3-4-3 oc purlins, except end verticals, and 2-0-0 oc purlins (4-9-6 max.): 3-5.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS
1 Row at midpt 4-15, 6-13, 2-16

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

**REACTIONS** (lb/size)
16 = 1836/Mechanical
17 = 1805/0-6-0 (min. 0-2-2)
Max Horz
16 = -207(LC 5)
Max Uplift
16 = -260(LC 7)
17 = -317(LC 7)
Max Grav
16 = 1836(LC 1)
17 = 1805(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-3=-1610/320, 3-4=-1328/306,
4-20=-1652/367, 5-20=-1652/367,
5-6=-1998/387, 6-7=-2577/423,
7-8=-2699/407, 8-18=-2946/457,
9-18=-1326/0
BOT CHORD
16-21=0/1017, 21-22=0/1017, 15-22=0/1017,
14-15=0/1560, 14-23=0/1560, 23-24=0/1560,
13-24=0/1560, 13-25=-126/2042,
12-25=-126/2042, 12-26=-126/2042,
11-26=-126/2042, 11-19=-284/2488,
17-19=0/1522
WEBS
2-15=-12/551, 3-15=-60/526, 4-15=-557/138,
5-13=-92/714, 6-13=-651/223, 6-11=-38/512,
8-11=-308/184, 2-16=-1800/277,
9-17=-1269/166, 18-19=-354/215,
17-18=-351/486, 9-19=-1160/0

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights); Lumber DOL=1.60 plate grip DOL=1.60
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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=260, 17=317.
8) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
9) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | A8 | PIGGYBACK BASE TRUSS | 1 | 1 | Job Reference (optional) |

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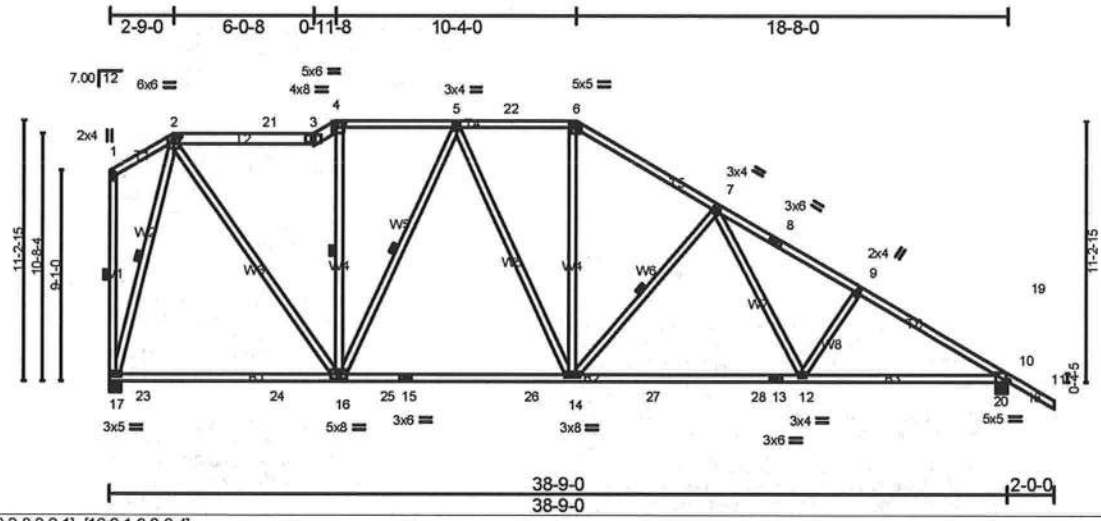


Plate Offsets (X,Y): [2:0-3-0,0-2-5], [4:0-4-0,0-2-4], [6:0-2-8,0-2-1], [10:0-1-3,0-0-4]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.59 | Vert(LL) | -0.38 | 12-14 | >999 | 360 | | |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.91 | Vert(TL) | -0.71 | 16-17 | >651 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.76 | Horz(TL) | 0.10 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.08 | 12-14 | >999 | 240 | Weight: 276 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2 *Except* T2,T3: 2 X 6 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2 *Except* W6,W7,W8: 2 X 4 SYP No.3

**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 3-6-0 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS
1 Row at midpt
4-16, 5-16, 7-14, 1-17, 2-17

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

**REACTIONS** (lb/size)
18 = 1785/0-6-0 (min. 0-2-2)
17 = 1845/0-6-0 (min. 0-2-3)
Max Horz
17 = -314(LC 7)
Max Uplift
18 = -294(LC 7)
17 = -276(LC 7)
Max Grav
18 = 1785(LC 1)
17 = 1845(LC 1)

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

TOP CHORD
2-21=-1269/227, 3-21=-1270/227, 3-4=-1028/172, 4-5=-1266/244, 5-22=-1607/322, 6-22=-1607/322, 6-7=-1945/330, 7-8=-2549/391, 8-9=-2700/377, 9-19=-2873/371, 10-19=-1296/21
BOT CHORD
17-23=-33/422, 23-24=-33/422, 16-24=-33/422, 16-25=0/1493, 15-25=0/1493, 15-26=0/1493, 14-26=0/1493, 14-27=-84/2007, 27-28=-84/2007, 13-28=-84/2007, 12-13=-84/2007, 12-20=-196/2406, 18-20=-48/1422
WEBS
2-16=-199/1494, 4-16=-274/118, 5-16=-544/151, 5-14=-36/275, 6-14=-50/653, 7-14=-635/216, 7-12=-60/572, 9-12=-263/159, 2-17=-1664/299, 10-18=-1326/247, 19-20=-468/232, 18-19=-156/388, 10-20=-989/37

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights); Lumber DOL=1.60 plate grip DOL=1.60
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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=294, 17=276.
7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | B5 | Special Truss | 1 | 2 | Job Reference (optional) |

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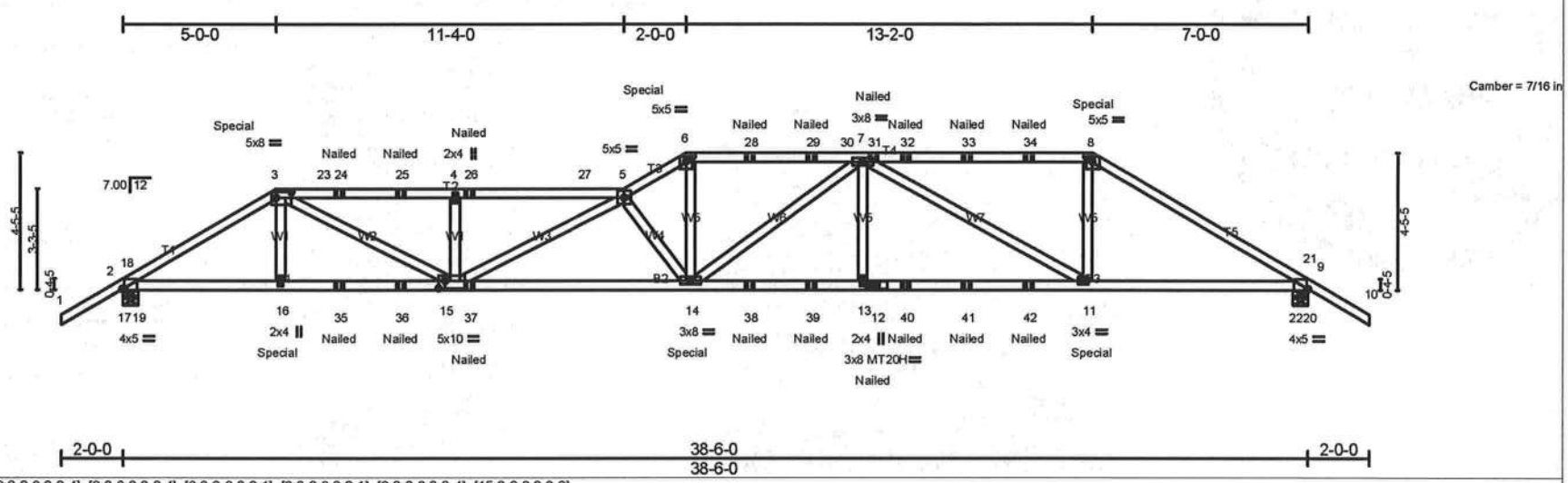


Plate Offsets (X,Y): [2:0-0-8,0-0-4], [3:0-6-0,0-2-4], [6:0-2-8,0-2-1], [8:0-2-8,0-2-1], [9:0-0-8,0-0-4], [15:0-2-8,0-3-0]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.81 | Vert(LL) | -0.33 | 14-15 | >999 | 360 | | |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.89 | Vert(TL) | -0.78 | 14-15 | >592 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.58 | Horz(TL) | 0.19 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.29 | 14-15 | >999 | 240 | Weight: 390 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2

**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 4-1-7 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 9-6-13 oc bracing.

**REACTIONS** (lb/size)
17 = 2589/0-6-0 (min. 0-1-8)
20 = 2772/0-6-0 (min. 0-1-10)
Max Horz
17 = 96(LC 6)
Max Uplift
17 = -681(LC 7)
20 = -732(LC 7)
Max Grav
17 = 2589(LC 1)
20 = 2772(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-18=-2774/555, 3-18=-4355/1076, 3-23=-6838/1748, 23-24=-6838/1748, 24-25=-6838/1748, 4-25=-6838/1748, 4-26=-6891/1772, 26-27=-6891/1772, 5-27=-6891/1772, 5-6=-7416/1908, 6-28=-6522/1696, 28-29=-6522/1696, 29-30=-6522/1696, 7-30=-6522/1696, 7-31=-4066/1072, 31-32=-4066/1072, 32-33=-4066/1072, 33-34=-4066/1072, 8-34=-4066/1072, 8-21=-4742/1183, 9-21=-2681/556
BOT CHORD
17-19=-596/2861, 16-19=-812/3679, 16-35=-807/3683, 35-36=-807/3683, 15-36=-807/3683, 15-37=-2063/8561, 14-37=-2063/8561, 14-38=-1478/6277, 38-39=-1478/6277, 13-39=-1478/6277, 12-13=-1478/6277, 12-40=-1478/6277, 40-41=-1478/6277, 41-42=-1478/6277, 11-42=-1478/6277, 11-22=-887/4004, 20-22=-566/2687
WEBS
3-16=0/256, 3-15=-911/3589, 4-15=-492/229, 5-15=-1876/484, 5-14=-3691/973, 6-14=-756/3319, 7-14=-53/306, 7-13=0/526, 7-11=-2544/668, 8-11=-297/1766, 2-17=-2159/574, 2-19=-933/195, 9-20=-2120/585, 21-22=-414/236, 20-21=-281/536, 9-22=-682/127

**NOTES**
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2 X 4 - 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) This truss has been checked for uniform roof live load only, except as noted.
4) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights); Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
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 1-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=681, 20=732.
10) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
11) "Nailed" indicates 3-10d or 3-12d common wire toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 128 lb down and 156 lb up at 5-0-0, and 146 lb down and 154 lb up at 18-4-0, and 146 lb down and 154 lb up at 31-6-0 on top chord, and 100 lb down at 5-0-0, and 335 lb down and 60 lb up at 18-4-0, and 335 lb down and 60 lb up at 31-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)**
Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-5=-54, 5-6=-54, 6-8=-54, 8-10=-54, 17-20=-20
Concentrated Loads (lb)
Vert: 3=-128(F) 6=-146(F) 15=-146(F) 16=-59(F) 11=-335(F) 11=-335(F) 24=-39(F) 25=-45(F) 26=-68(F) 28=-87(F) 29=-87(F) 30=-87(F) 31=-87(F) 32=-87(F) 33=-87(F) 34=-87(F) 35=-22(F) 36=-22(F) 37=-165(F) 38=-39(F) 39=-39(F) 40=-39(F) 41=-39(F) 42=-39(F)





William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | B9 | ATTIC TRUSS | 1 | 1 | Job Reference (optional) |

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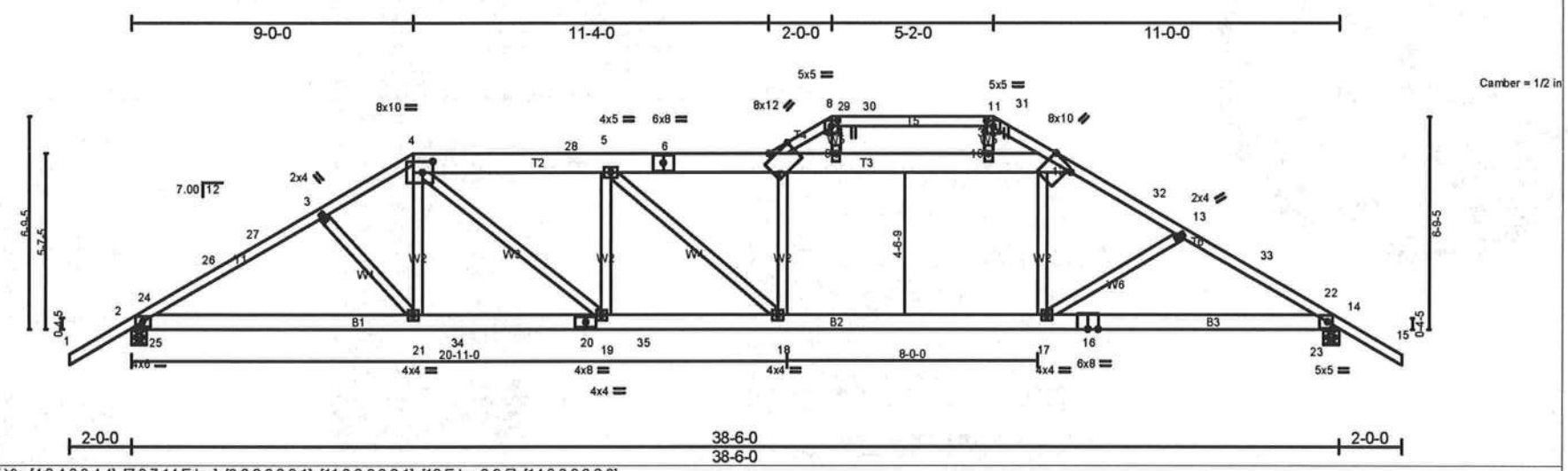


Plate Offsets (X,Y): [4:0-4-0,0-4-4], [7:0-7-14,Edge], [8:0-2-8,0-2-1], [11:0-2-8,0-2-1], [12:Edge,0-9-5], [14:0-2-0,0-2-8]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.80 | Vert(LL) | -0.44 | 18-19 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.89 | Vert(TL) | -0.92 | 18-19 | >504 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.63 | Horz(TL) | 0.09 | 14 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.42 | 18-19 | >999 | 240 | Weight: 272 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2 *Except*
T3: 2 X 8 SYP 2400F 2.0E, T2: 2 X 8 SYP No.2
BOT CHORD 2 X 6 SYP No.2 *Except*
B2: 2 X 6 SYP M 26
WEBS 2 X 4 SYP No.2

**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 2-7-9 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 9-5-3 oc bracing.
JOINTS
1 Brace at Jt(s): 10

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

**REACTIONS** (lb/size)
14 = 1585/0-6-0 (min. 0-1-14)
2 = 1499/0-6-0 (min. 0-1-13)
Max Horz
2 = -152(LC 8)
Max Uplift
14 = -321(LC 10)
2 = -321(LC 10)
Max Grav
14 = 1585(LC 1)
2 = 1533(LC 2)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-24=-2376/643, 24-26=-2442/790,
26-27=-2402/793, 3-27=-2377/804,
3-4=-2297/785, 4-28=-2843/1008,
5-28=-2844/1007, 5-6=-2375/798,
6-7=-2375/798, 7-9=-1374/409,
9-10=-1305/390, 10-12=-1362/402,
7-8=-1276/535, 8-29=-1070/479,
29-30=-1070/479, 30-31=-1070/479,
11-31=-1070/479, 11-12=-1207/514,
12-32=-2586/840, 13-32=-2667/828,
13-33=-2690/873, 22-33=-2764/857,
14-22=-2533/701
BOT CHORD
2-25=-540/2060, 21-25=-555/2075,
21-34=-450/1952, 20-34=-450/1952,
19-20=-450/1952, 19-35=-763/2839,
18-35=-763/2839, 17-18=-558/2375,
16-17=-643/2323, 16-23=-643/2323,
14-23=-630/2297
WEBS
4-21=-76/409, 7-18=-27/434, 4-19=-410/1162,
5-18=-774/317, 8-9=-193/622,
10-11=-120/435, 5-19=-471/237,
12-17=-72/690, 22-23=-491/375,
24-25=-239/318

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 2-9-10, Interior(1) 2-9-10 to 9-0-0, Exterior(2) 9-0-0 to 13-9-10, Interior(1) 20-9-4 to 27-6-0, Exterior(2) 27-6-0 to 32-3-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Bottom chord live load (30.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 17-18
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=321, 2=321.
9) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
10) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
11) Attic room checked for L/360 deflection.

**LOAD CASE(S)**
Standard

WILLIAM M. RANIERI LICENSE No. 42704 STATE OF FLORIDA PROFESSIONAL ENGINEER



William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | B13 | ATTIC TRUSS | 1 | 1 | Job Reference (optional) |

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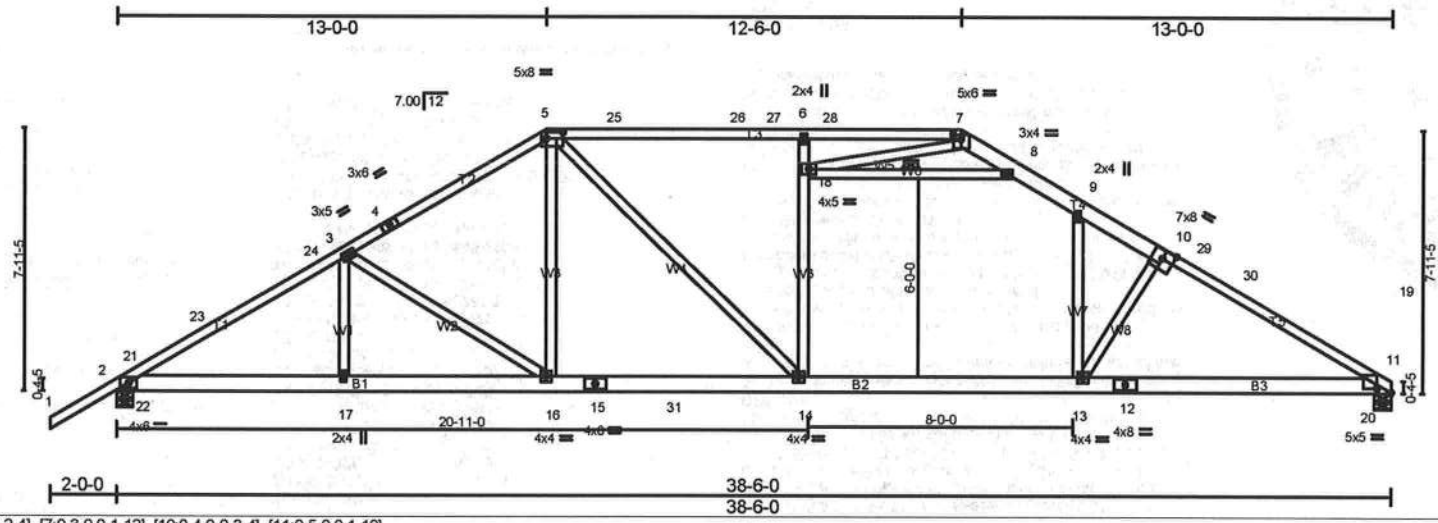


Plate Offsets (X,Y): [5:0-6-0,0-2-4], [7:0-3-0,0-1-12], [10:0-4-0,0-3-4], [11:0-5-0,0-1-10]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.74 | Vert(LL) | -0.21 | 13-14 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.62 | Vert(TL) | -0.38 | 13-14 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.42 | Horz(TL) | 0.09 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.15 | 13-20 | >999 | 240 | Weight: 246 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2 *Except*
T4: 2 X 6 SYP No.2
BOT CHORD 2 X 6 SYP No.2
WEBS 2 X 4 SYP No.2

**BRACING**
TOP CHORD
Structural wood sheathing directly applied.
BOT CHORD
Rigid ceiling directly applied or 9-8-1 oc bracing.
WEBS
1 Row at midpt 8-18

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

**REACTIONS** (lb/size)
11 = 1514/0-6-0 (min. 0-1-13)
2 = 1522/0-6-0 (min. 0-1-13)
Max Horz
2 = 194(LC 9)
Max Uplift
11 = -244(LC 10)
2 = -324(LC 10)
Max Grav
11 = 1514(LC 1)
2 = 1535(LC 2)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-21=-2397/650, 21-23=-2529/797,
23-24=-2468/812, 3-24=-2406/814,
3-4=-2108/715, 4-5=-2038/738,
5-25=-2076/769, 25-26=-2076/769,
26-27=-2076/769, 6-27=-2076/769,
6-28=-2071/764, 7-28=-2071/764,
7-8=-647/325, 8-9=-2115/748,
9-10=-2536/821, 10-29=-2578/828,
29-30=-2579/826, 19-30=-2686/814,
11-19=-2595/645
BOT CHORD
2-22=-613/2112, 17-22=-626/2132,
16-17=-626/2132, 15-16=-404/1765,
15-31=-404/1765, 14-31=-404/1765,
13-14=-474/2077, 12-13=-614/2285,
12-20=-614/2285, 11-20=-602/2268
WEBS
3-17=0/282, 3-16=-515/265, 5-16=-86/496,
5-14=-129/434, 6-18=-393/267,
9-13=-164/737, 10-13=-402/271,
8-18=-1677/515, 7-18=-516/1724,
19-20=-264/351, 21-22=-364/335

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 2-9-10, Interior(1) 2-9-10 to 13-0-0, Exterior(2) 13-0-0 to 32-3-7, Interior(1) 32-3-7 to 38-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Bottom chord live load (30.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 13-14
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=244, 2=324.
9) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
10) Attic room checked for L/360 deflection.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | B17 | ATTIC TRUSS | 1 | 1 | Job Reference (optional) |

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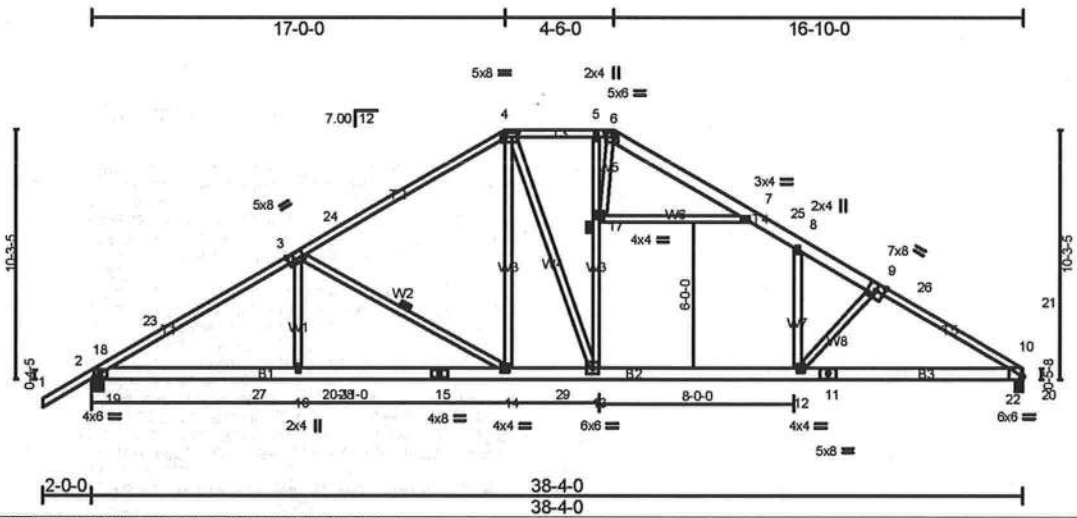


Plate Offsets (X,Y): [2:0-2-12,0-2-0], [3:0-3-4,0-3-0], [4:0-6-0,0-2-4], [6:0-4-0,0-2-4], [9:0-4-0,0-3-4], [10:0-0-14,Edge]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.81 | Vert(LL) | -0.53 | 12-13 | >872 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.62 | Vert(TL) | -1.07 | 12 | >431 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.68 | Horz(TL) | 0.06 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.53 | 12-22 | >867 | 240 | Weight: 261 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2 *Except*
T4: 2 X 6 SYP No.2
BOT CHORD 2 X 6 SYP M 26 *Except*
B1: 2 X 6 SYP No.2
WEBS 2 X 4 SYP No.2

**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 2-11-15 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
7-2-0 oc bracing: 20-22.
WEBS
1 Row at midpt 3-14
JOINTS
1 Brace at Jt(s): 17

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

**REACTIONS** (lb/size)
2 = 1545/0-6-0 (min. 0-1-13)
20 = 1541/0-4-0 (min. 0-1-8)
Max Horz
2 = 246(LC 9)
Max Uplift
2 = -318(LC 10)
20 = -248(LC 10)
Max Grav
2 = 1545(LC 1)
20 = 1541(LC 1)

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

TOP CHORD
2-18=-2389/549, 18-23=-2544/719, 3-23=-2393/743, 3-24=-1802/583, 4-24=-1692/617, 4-5=-1672/664, 5-6=-1545/611, 6-7=-1665/584, 7-25=-1920/640, 8-25=-1938/636, 8-9=-2115/602, 9-26=-2217/645, 21-26=-2324/633, 10-21=-3132/1097
BOT CHORD
2-19=-542/2117, 19-27=-557/2139, 16-27=-557/2139, 16-28=-555/2154, 15-28=-555/2154, 14-15=-555/2154, 14-29=-240/1462, 13-29=-240/1462, 12-13=-300/1700, 11-12=-466/1960, 11-22=-466/1960, 20-22=-1898/5046
WEBS
3-16=0/409, 3-14=-790/359, 4-14=-50/366, 4-13=-198/591, 13-17=-50/386, 5-17=-546/214, 8-12=0/280, 9-12=-390/243, 7-17=-270/101, 6-17=-236/934, 18-19=-423/394, 10-20=-2322/829, 21-22=0/359, 20-21=-810/1575, 10-22=-4103/1767

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 2-9-10, Interior(1) 2-9-10 to 17-0-0, Exterior(2) 17-0-0 to 21-6-0, Interior(1) 28-3-7 to 38-4-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Bottom chord live load (30.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 12-13
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=318, 20=248.
9) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
10) Attic room checked for L/360 deflection.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | C3 | JACK-OPEN TRUSS | 16 | 1 | Job Reference (optional) |

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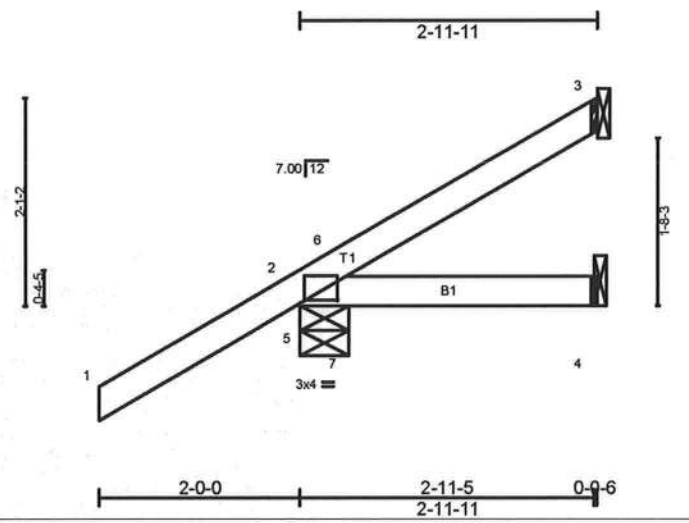


Plate Offsets (X,Y): [2:0-4-9,0-0-6]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.26 | Vert(LL) | -0.00 | 4-7 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.05 | Vert(TL) | -0.00 | 4-7 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(TL) | 0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | -0.00 | 7 | >999 | 240 | Weight: 13 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 2-11-11 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.

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

**REACTIONS** (lb/size)
3 = 53/Mechanical
5 = 249/0-6-0 (min. 0-1-8)
4 = 21/Mechanical
Max Horz
5 = 103(LC 9)
Max Uplift
3 = -26(LC 9)
5 = -97(LC 9)
Max Grav
3 = 53(LC 1)
5 = 249(LC 1)
4 = 44(LC 2)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-6=-299/98
BOT CHORD
5-7=-88/281

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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, 5.
7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | C5 | Jack-Open Truss | 10 | 1 | Job Reference (optional) |

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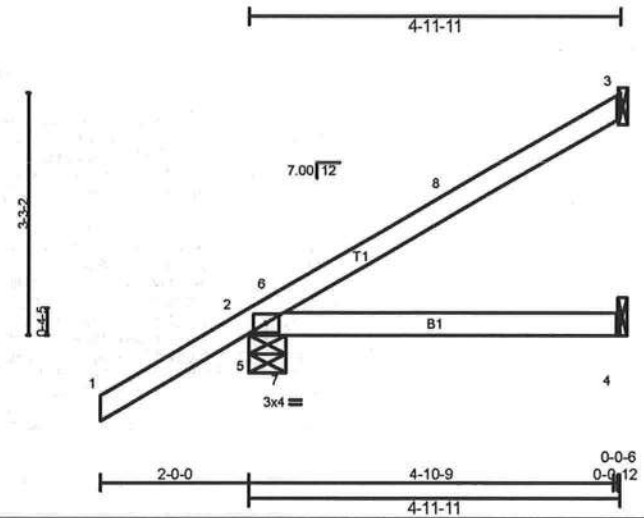


| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.26 | Vert(LL) | -0.01 | 4-7 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.13 | Vert(TL) | -0.04 | 4-7 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(TL) | 0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.01 | 4-7 | >999 | 240 | Weight: 20 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 4-11-11 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS** (lb/size)
3 = 99/Mechanical
5 = 331/0-6-0 (min. 0-1-8)
4 = 42/Mechanical
Max Horz
5 = 138(LC 9)
Max Uplift
3 = -54(LC 9)
5 = -97(LC 9)
Max Grav
3 = 99(LC 1)
5 = 331(LC 1)
4 = 75(LC 2)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-6=-305/30
BOT CHORD
5-7=-265/426
WEBS
2-5=-466/319, 5-6=-343/392, 2-7=-600/389

WEBS
2-5=-466/319, 5-6=-343/392, 2-7=-600/389

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 2-9-10, Interior(1) 2-9-10 to 4-10-15 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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, 5.
7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | E2 | Jack-Open Truss | 9 | 1 | Job Reference (optional) |

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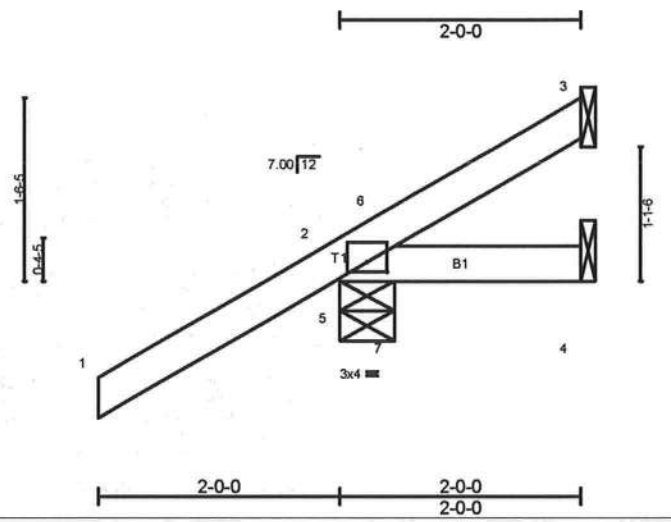


Plate Offsets (X,Y): [2:0-2-0,0-1-0]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.26 | Vert(LL) | 0.00 | 7 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.06 | Vert(TL) | -0.00 | 7 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(TL) | 0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | -0.00 | 7 | >999 | 240 | Weight: 10 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 2-0-0 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.

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

**REACTIONS** (lb/size)
5 = 221/0-5-8 (min. 0-1-8)
4 = 7/Mechanical
3 = 28/Mechanical
Max Horz
5 = 87(LC 9)
Max Uplift
5 = -105(LC 9)
3 = -11(LC 6)
Max Grav
5 = 221(LC 1)
4 = 28(LC 2)
3 = 28(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-6=-295/153
BOT CHORD
5-7=-171/310

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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 except (jt=lb) 5=105.
7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | E5 | Jack-Open Truss | 3 | 1 | Job Reference (optional) |

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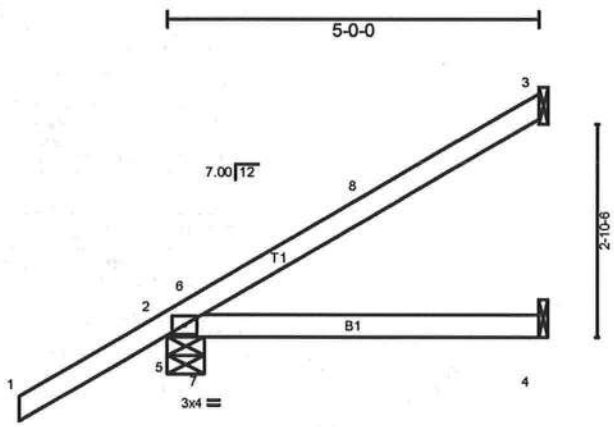


| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.26 | Vert(LL) | -0.01 | 4-7 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.14 | Vert(TL) | -0.04 | 4-7 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(TL) | 0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.01 | 4-7 | >999 | 240 | Weight: 20 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP 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.

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

**REACTIONS** (lb/size)
3 = 99/Mechanical
5 = 332/0-6-0 (min. 0-1-8)
4 = 42/Mechanical
Max Horz
5 = 138(LC 9)
Max Uplift
3 = -54(LC 9)
5 = -97(LC 9)
Max Grav
3 = 99(LC 1)
5 = 332(LC 1)
4 = 76(LC 2)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-6=-309/33
BOT CHORD
5-7=-271/432
WEBS
2-5=-470/321, 5-6=-349/399, 2-7=-609/397

WEBS
2-5=-470/321, 5-6=-349/399, 2-7=-609/397

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 2-9-10, Interior(1) 2-9-10 to 4-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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, 5.
7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | E7 | Jack-Open Truss | 23 | 1 | Job Reference (optional) |

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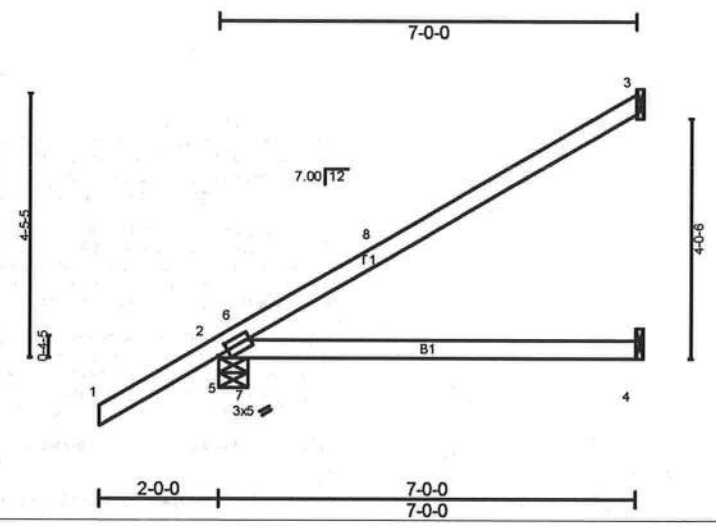


Plate Offsets (X,Y): [2:0-2-4,0-1-8]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.39 | Vert(LL) | -0.05 | 4-7 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.30 | Vert(TL) | -0.14 | 4-7 | >593 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(TL) | 0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.04 | 4-7 | >999 | 240 | Weight: 26 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 6-9-13 oc bracing.

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

**REACTIONS** (lb/size)

| | | |
|---|---|---|
| 3 | = | 141/Mechanical |
| 5 | = | 421/0-6-0 (min. 0-1-8) |
| 4 | = | 59/Mechanical |
| Max Horz | | |
| 5 | = | 173(LC 9) |
| Max Uplift | | |
| 3 | = | -79(LC 9) |
| 5 | = | -102(LC 9) |
| Max Grav | | |
| 3 | = | 141(LC 1) |
| 5 | = | 421(LC 1) |
| 4 | = | 106(LC 2) |

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-6=-705/362
BOT CHORD
5-7=-879/1132
WEBS
2-5=-835/511, 6-7=-206/405, 5-6=-927/1141,

WEBS
2-5=-835/511, 6-7=-206/405, 5-6=-927/1141,
2-7=-1667/1152

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 2-9-10, Interior(1) 2-9-10 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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 except (jt=lb) 5=102.
7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | E48 | Jack-Open Truss | 1 | 1 | Job Reference (optional) |

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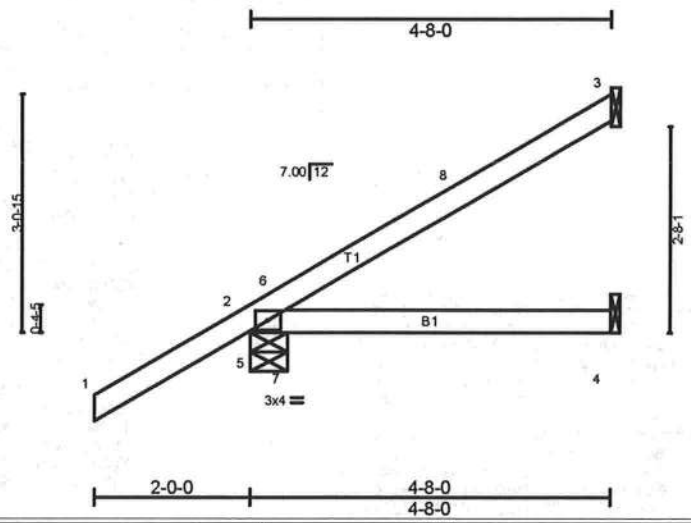


| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.26 | Vert(LL) | -0.01 | 4-7 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.12 | Vert(TL) | -0.03 | 4-7 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(TL) | 0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.01 | 4-7 | >999 | 240 | Weight: 19 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 4-8-0 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS** (lb/size)
3 = 92/Mechanical
5 = 317/0-6-0 (min. 0-1-8)
4 = 39/Mechanical
Max Horz
5 = 132(LC 9)
Max Uplift
3 = -50(LC 9)
5 = -96(LC 9)
Max Grav
3 = 92(LC 1)
5 = 317(LC 1)
4 = 71(LC 2)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-6=-257/0
BOT CHORD
5-7=-197/368
WEBS
2-5=-423/297, 5-6=-277/318, 2-7=-505/305

WEBS
2-5=-423/297, 5-6=-277/318, 2-7=-505/305

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 2-9-10, Interior(1) 2-9-10 to 4-7-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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, 5.
7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | F1 | Hip Truss | 1 | 1 | Job Reference (optional) |

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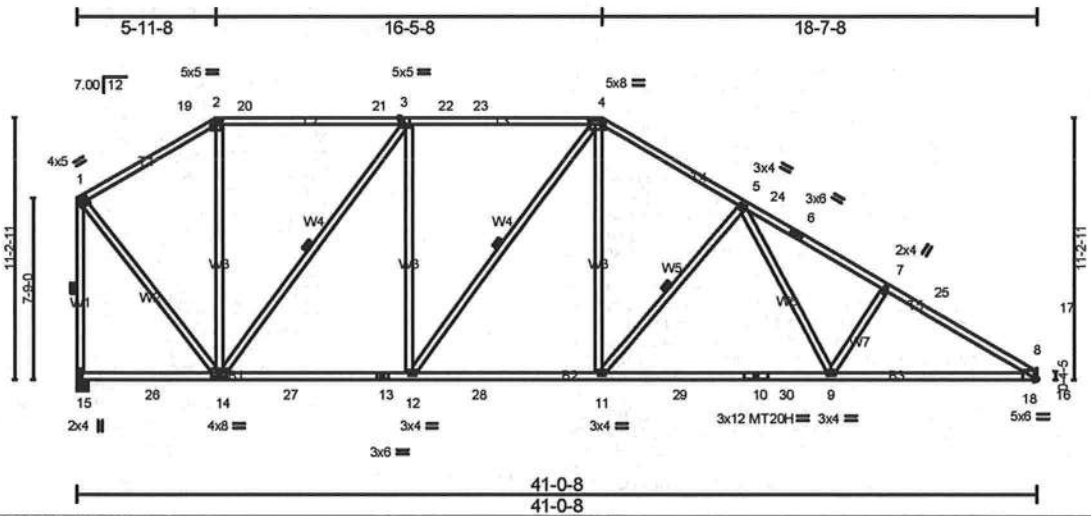


Plate Offsets (X,Y): [2:0-2-8,0-2-1], [3:0-2-4,0-3-4], [4:0-6-0,0-2-4], [8:0-1-3,Edge]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.80 | Vert(LL) | -0.43 | 9-11 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.94 | Vert(TL) | -0.79 | 9-11 | >624 | 180 | MT20H | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.95 | Horz(TL) | 0.12 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.11 | 9-11 | >999 | 240 | Weight: 272 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2 *Except*
W5,W6,W7,W2: 2 X 4 SYP No.3

**BRACING**
TOP CHORD
Structural wood sheathing directly applied.
BOT CHORD
Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS
1 Row at midpt 3-14, 4-12, 5-11, 1-15

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

**REACTIONS** (lb/size)
16 = 1805/Mechanical
15 = 1936/0-6-0 (min. 0-2-5)
Max Horz
15 = -222(LC 9)
Max Uplift
16 = -244(LC 9)
15 = -282(LC 9)
Max Grav
16 = 1805(LC 1)
15 = 1936(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-19=-1112/352, 2-19=-985/366,
2-20=-916/383, 20-21=-916/383,
3-21=-916/383, 3-22=-1689/598,
22-23=-1689/598, 4-23=-1689/598,
4-5=-2199/665, 5-24=-2821/778,
6-24=-2866/775, 6-7=-2971/764,
7-25=-2996/758, 17-25=-3142/746,
8-17=-1618/511
BOT CHORD
15-26=-173/279, 14-26=-173/279,
14-27=-175/1678, 13-27=-175/1678,
12-13=-175/1678, 12-28=-214/1834,
11-28=-214/1834, 11-29=-418/2229,
10-29=-418/2229, 10-30=-418/2229,
9-30=-418/2229, 9-18=-570/2639,
16-18=-700/1824
WEBS
3-14=-1305/369, 3-12=0/554, 4-11=-168/908,
5-11=-633/321, 5-9=-121/592, 7-9=-266/222,
1-15=-1824/569, 1-14=-386/1472,
8-16=-1282/430, 17-18=-561/338,
16-17=-271/359, 8-18=-932/503

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) 0-1-12 to 4-11-6, Interior(1) 4-11-6 to 5-11-8, Exterior(2) 5-11-8 to 29-2-7, Interior(1) 29-2-7 to 41-0-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=244, 15=282.
9) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard

WILLIAM M. RANIERI LICENSE No. 42704 STATE OF FLORIDA PROFESSIONAL ENGINEER



William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | F13 | Attic Truss | 1 | 1 | Job Reference (optional) |

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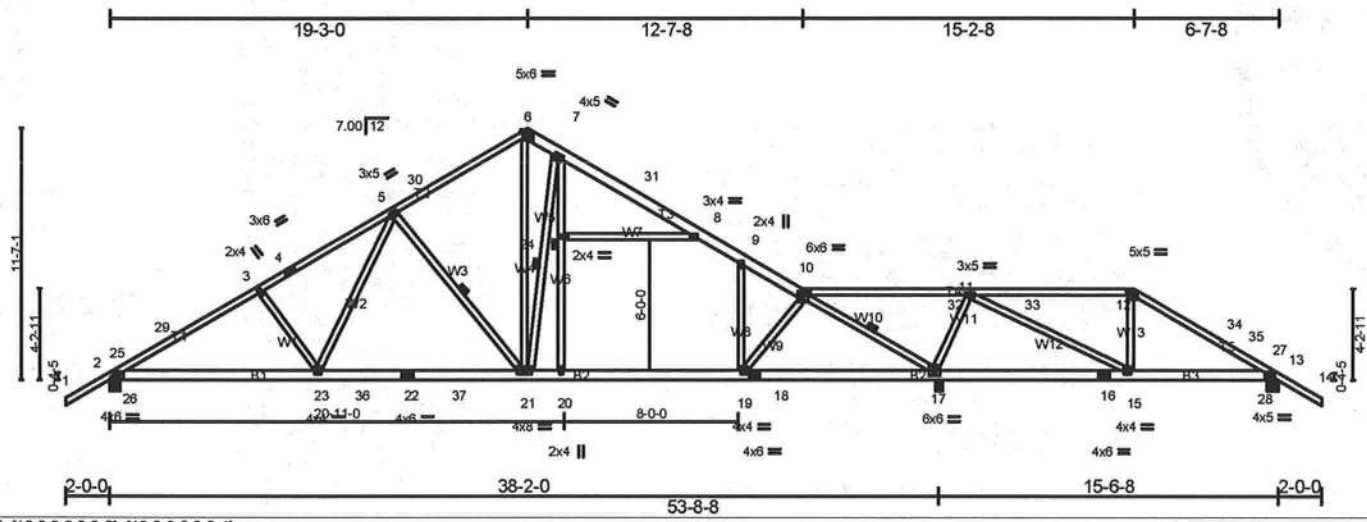


Plate Offsets (X,Y): [2:0-2-12,0-2-0], [10:0-3-8,0-2-0], [12:0-3-0,0-2-4]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.80 | Vert(LL) | -0.22 | 19-20 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.58 | Vert(TL) | -0.35 | 19-20 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.91 | Horz(TL) | 0.06 | 17 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.09 | 19-20 | >999 | 240 | Weight: 369 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2 *Except*
T3: 2 X 6 SYP No.2
BOT CHORD 2 X 6 SYP No.2
WEBS 2 X 4 SYP No.2

**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 3-8-9 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS
1 Row at midpt 5-21, 7-21, 10-17
JOINTS
1 Brace at Jt(s): 24

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

**REACTIONS** (lb/size)
2 = 1593/0-6-0 (min. 0-1-14)
17 = 3074/0-4-0 (min. 0-3-10)
13 = 199/0-6-0 (min. 0-1-8)
Max Horz
2 = 260(LC 8)
Max Uplift
2 = -277(LC 9)
17 = -483(LC 9)
13 = -77(LC 9)
Max Grav
2 = 1593(LC 1)
17 = 3074(LC 1)
13 = 223(LC 2)

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

TOP CHORD
2-25=-2407/370, 25-29=-2555/532, 3-29=-2481/549, 3-4=-2365/534, 4-5=-2280/558, 5-30=-1569/431, 6-30=-1480/455, 6-7=-1549/548, 7-31=-1568/428, 8-31=-1637/410, 8-9=-1715/408, 9-10=-1594/275, 10-32=-570/1987, 11-32=-570/1987, 11-33=-79/252, 12-33=-79/252, 12-34=-96/350, 34-35=-101/256, 13-27=-287/386
BOT CHORD
2-26=-303/2121, 23-26=-316/2143, 23-36=-147/1699, 22-36=-147/1699, 22-37=-147/1699, 21-37=-147/1699, 20-21=-3/1381, 19-20=-7/1386, 18-19=-63/801, 17-18=-63/801, 16-17=-1507/581, 15-16=-1507/581, 13-28=-256/251
WEBS
3-23=-303/216, 5-23=-113/647, 5-21=-677/313, 6-21=-482/1412, 7-21=-750/314, 20-24=-5/417, 7-24=-5/417, 10-17=-3300/768, 11-17=-1231/506, 11-15=-418/1417, 12-15=-463/240, 9-19=-392/259, 10-19=-215/992, 25-26=-335/346, 27-28=-389/392

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 2-9-10, Interior(1) 2-9-10 to 19-3-0, Exterior(2) 19-3-0 to 24-0-10, Interior(1) 31-10-8 to 55-8-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Bottom chord live load (30.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 19-20
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 2=277, 17=483.
8) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
9) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | F17 | Special Truss | 1 | 1 | Job Reference (optional) |

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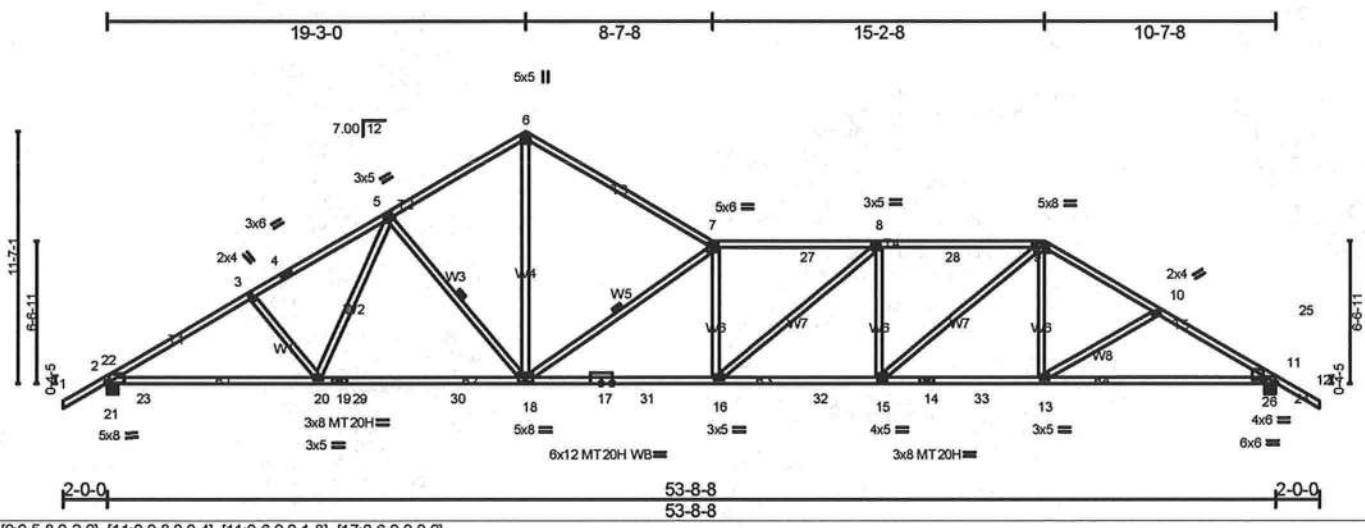


Plate Offsets (X,Y): [2:0-1-8,0-0-6], [9:0-5-8,0-2-0], [11:0-0-8,0-0-4], [11:0-6-9,0-1-8], [17:0-6-0,0-0-0]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.92 | Vert(LL) | -0.62 | 18-20 | >999 | 360 | | |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.98 | Vert(TL) | -1.11 | 18-20 | >581 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.91 | Horz(TL) | 0.31 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.29 | 16 | >999 | 240 | Weight: 304 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2 *Except*
T3: 2 X 4 SYP M 31, T4: 2 X 4 SYP M 30
BOT CHORD 2 X 4 SYP No.2 *Except*
B3: 2 X 4 SYP M 30, B2: 2 X 4 SYP M 31
WEBS 2 X 4 SYP No.3 *Except*
W3,W4,W7: 2 X 4 SYP No.2, W5: 2 X 4 SYP M 31

**BRACING**
TOP CHORD
Structural wood sheathing directly applied.
BOT CHORD
Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS
1 Row at midpt 5-18, 7-18

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

**REACTIONS** (lb/size)
21 = 2365/0-6-0 (min. 0-2-13)
24 = 2564/0-6-0 (min. 0-3-0)
Max Horz
21 = -260(LC 5)
Max Uplift
21 = -419(LC 7)
24 = -527(LC 7)
Max Grav
21 = 2365(LC 1)
24 = 2564(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-22=-1934/39, 3-22=-3961/621,
TOP CHORD
2-22=-1934/39, 3-22=-3961/621,
3-4=-3755/600, 4-5=-3673/624,
5-6=-3044/577, 6-7=-3072/557,
7-27=-4988/821, 8-27=-4988/821,
8-28=-4500/754, 9-28=-4500/754,
9-10=-3686/587, 10-25=-3927/635,
11-25=-1553/0
BOT CHORD
21-23=-74/2147, 20-23=-409/3339,
19-20=-286/2959, 19-29=-286/2959,
29-30=-286/2959, 18-30=-286/2959,
17-18=-587/4991, 17-31=-587/4991,
16-31=-587/4991, 16-32=-517/4500,
15-32=-517/4500, 14-15=-305/3132,
14-33=-305/3132, 13-33=-305/3132,
13-26=-429/3312, 24-26=0/1951
WEBS
3-20=-267/166, 5-20=-51/544, 5-18=-634/206,
6-18=-396/2572, 7-18=-3009/534,
8-16=-87/637, 8-15=-860/228,
9-15=-274/1773, 9-13=0/388, 2-21=-1801/310,
22-23=-563/284, 21-22=-61/594,
2-23=-1458/0, 11-24=-1901/245,
25-26=-576/365, 24-25=-759/928,
11-26=-1572/251

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights); Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 21=419, 24=527.
8) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 191 lb down and 139 lb up at 55-8-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)**
Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-54, 6-7=-54, 7-9=-54, 9-12=-54, 21-29=-20, 29-30=-60, 30-31=-20, 16-31=-60, 16-32=-20, 15-32=-60, 15-33=-20, 13-33=-60, 13-24=-20
Concentrated Loads (lb)
Vert: 12=-191

WILLIAM M. RANIERI LICENSE No. 42704 STATE OF FLORIDA PROFESSIONAL ENGINEER



William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | F21 | Special Truss | 1 | 1 | Job Reference (optional) |

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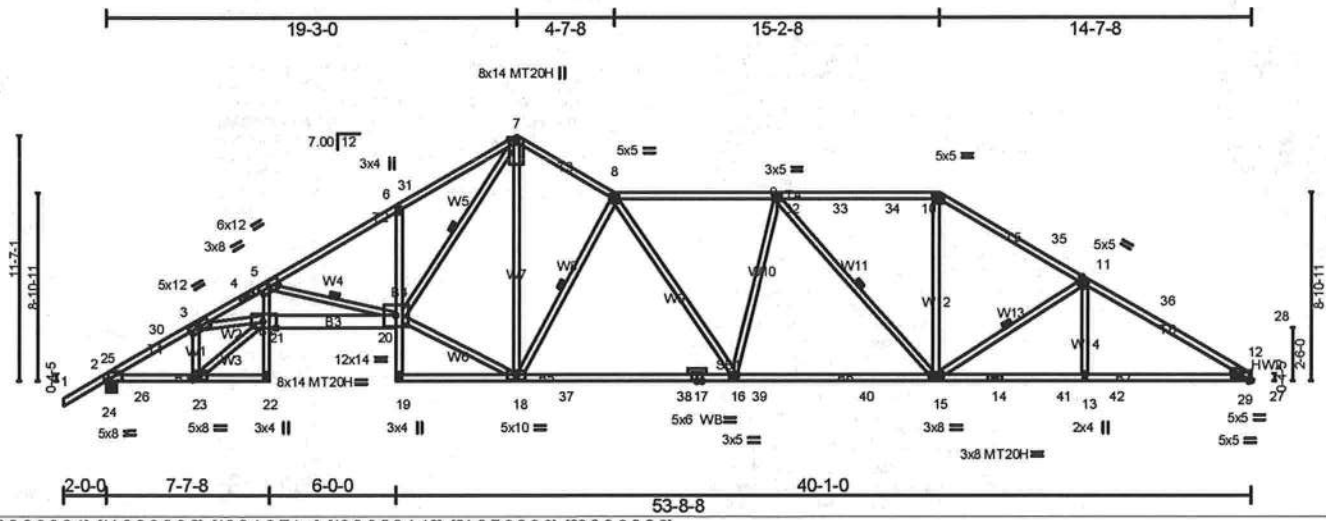


Plate Offsets (X,Y): [2:0-1-8,Edge], [10:0-2-8,0-2-1], [11:0-2-8,0-3-0], [12:0-1-3,Edge], [12:0-6-5,0-1-12], [21:0-7-8,0-3-8], [23:0-3-8,0-2-8]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.98 | Vert(LL) | -0.88 | 16-18 | >730 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.99 | Vert(TL) | -1.72 | 16-18 | >374 | 180 | MT20H | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.98 | Horz(TL) | 0.75 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.50 | 6 | >999 | 240 | Weight: 353 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2 *Except* T4,T1: 2 X 4 SYP M 30
BOT CHORD 2 X 4 SYP No.2 *Except* B1: 2 X 4 SYP M 31, B3: 2 X 8 SYP 2400F 2.0E B4: 2 X 4 SYP No.3, B6: 2 X 4 SYP M 30
WEBS 2 X 4 SYP No.2 *Except* W1,W6,W13,W14: 2 X 4 SYP No.3
OTHERS 2 X 4 SYP No.2
WEDGE
Right: 2 X 4 SYP No.2

**BRACING**
TOP CHORD
Structural wood sheathing directly applied.
BOT CHORD
Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS
1 Row at midpt
5-20, 7-20, 8-18, 9-15, 11-15

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

**REACTIONS** (lb/size)
24 = 2316/0-6-0 (min. 0-1-15)
27 = 2286/Mechanical
Max Horz
24 = 277(LC 8)
Max Uplift
24 = -420(LC 9)
27 = -344(LC 9)
Max Grav
24 = 2316(LC 1)
27 = 2286(LC 1)

Max Grav
24 = 2316(LC 1)
27 = 2286(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-25=-3259/792, 25-30=-3562/915, 3-30=-3470/928, 3-4=-9600/2405, 4-5=-9545/2413, 5-6=-4890/1297, 6-31=-4889/1434, 7-31=-4807/1456, 7-8=-2957/947, 8-9=-3637/1082, 9-32=-2888/913, 32-33=-2888/913, 33-34=-2888/913, 10-34=-2888/913, 10-35=-3322/991, 11-35=-3421/964, 11-36=-3845/1040, 28-36=-3963/1024, 12-28=-2430/785
BOT CHORD
24-26=-1085/4340, 23-26=-730/2977, 5-21=-735/3277, 20-21=-1976/8278, 6-20=-343/279, 18-37=-764/3532, 37-38=-764/3532, 17-38=-764/3532, 16-17=-764/3532, 16-39=-769/3563, 39-40=-769/3563, 15-40=-769/3563, 14-15=-784/3331, 14-41=-784/3331, 13-41=-784/3331, 13-42=-784/3332, 29-42=-784/3332, 27-29=-1098/2912
WEBS
3-23=-2600/688, 21-23=-898/3675, 3-21=-1236/5320, 5-20=-4255/1125, 18-20=-467/2748, 7-20=-841/3070, 7-18=-362/1019, 8-18=-2169/712, 9-16=0/320, 9-15=-1030/284, 10-15=-282/1329, 11-15=-557/253, 11-13=0/256, 2-24=-2679/809, 24-25=-528/1989, 2-26=-3919/1022, 12-27=-1866/642, 28-29=-695/455, 27-28=-515/567, 12-29=-1604/888

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 2-9-10, Interior(1) 2-9-10 to 19-3-0, Exterior(2) 19-3-0 to 43-10-10, Interior(1) 43-10-10 to 53-8-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 24=420, 27=344.
9) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard

WILLIAM M. RANIERI LICENSE No. 42704 STATE OF FLORIDA PROFESSIONAL ENGINEER



William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | FG1 | Flat Truss | 1 | 2 | Job Reference (optional) |

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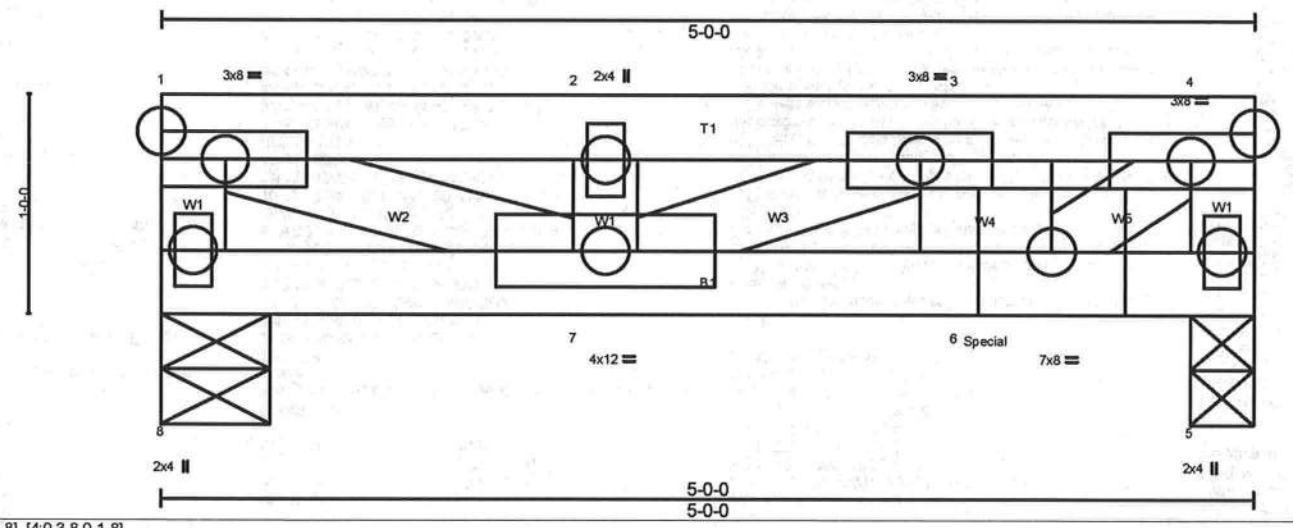


Plate Offsets (X,Y): [1:0-3-8,0-1-8], [4:0-3-8,0-1-8]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.27 | Vert(LL) | -0.02 | 7 | >999 | 360 | | |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.56 | Vert(TL) | -0.05 | 6-7 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.46 | Horz(TL) | 0.01 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.02 | 7 | >999 | 240 | Weight: 47 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2 *Except*
W4: 2 X 8 SYP No.2

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

**REACTIONS** (lb/size)
8 = 2033/0-6-0 (min. 0-1-8)
5 = 2555/0-3-8 (min. 0-1-8)
Max Uplift
8 = -413(LC 3)
5 = -572(LC 3)
Max Grav
8 = 2033(LC 1)
5 = 2555(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-8=-1899/396, 1-2=-4613/946, 2-3=-4613/946, 3-4=-3616/801, 4-5=-2457/551
BOT CHORD
6-7=-801/3616
WEBS
1-7=-1010/4928, 2-7=-2289/466, 3-7=-173/1076, 3-6=-504/85, 4-6=-957/4321

**NOTES**
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 4 - 1 row at 0-3-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc, 2 X 8 - 2 rows 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) This truss has been checked for uniform roof live load only, except as noted.
4) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights); Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=413, 5=572.
9) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2391 lb down and 520 lb up at 1-9-4 on top chord, and 1849 lb down and 464 lb up at 3-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)**
Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 2=-2391 6=-1849(F)




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | G6 | Special Truss | 1 | 1 | Job Reference (optional) |

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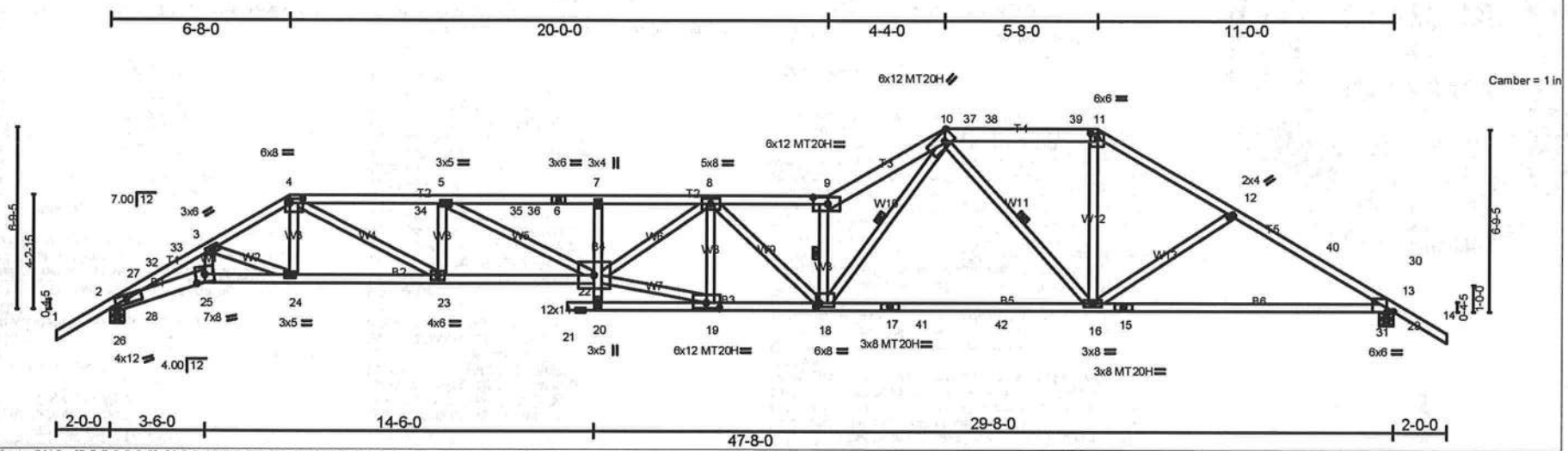


Plate Offsets (X,Y): [2:0-5-0,0-2-0], [4:0-5-12,0-2-0], [9:0-6-8,0-3-0], [10:0-4-4,Edge], [11:0-3-0,0-2-5], [13:0-2-15,Edge], [18:0-1-8,0-1-12], [19:0-6-0,0-2-8], [25:0-4-0,0-3-7]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.82 | Vert(LL) | -0.90 | 16-18 | >637 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.95 | Vert(TL) | -1.86 | 16-18 | >307 | 180 | MT20H | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.97 | Horz(TL) | 0.51 | 13 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.76 | 21 | >753 | 240 | Weight: 279 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2 *Except* T3,T4: 2 X 6 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except* B1: 2 X 6 SYP No.2, B2: 2 X 4 SYP M 30, B4: 2 X 4 SYP No.3, B3: 2 X 4 SYP M 31
WEBS 2 X 4 SYP No.3 *Except* W7,W10,W11: 2 X 4 SYP No.2

**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 1-11-6 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 2-2-0 oc bracing. Except:
2-2-0 oc bracing: 20-22
WEBS
1 Row at midpt 9-18, 10-18, 10-16

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

**REACTIONS** (lb/size)
26 = 1932/0-6-0 (min. 0-2-2)
29 = 1981/0-6-0 (min. 0-2-5)
Max Horz
26 = 149(LC 8)
Max Uplift
26 = -375(LC 9)
29 = -375(LC 9)
Max Grav
26 = 1932(LC 1)
29 = 1981(LC 1)

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

TOP CHORD
2-27=-2983/840, 27-32=-5816/1704, 32-33=-5772/1710, 3-33=-5756/1713, 3-4=-4054/1237, 4-34=-5675/1775, 5-34=-5675/1775, 5-35=-6991/2143, 35-36=-6991/2143, 6-36=-6991/2143, 6-7=-6991/2143, 7-8=-6897/2118, 8-9=-5581/1720, 9-10=-6576/2083, 10-37=-2496/871, 37-38=-2495/872, 38-39=-2494/872, 11-39=-2493/872, 11-12=-2923/941, 12-40=-3079/1016, 30-40=-3173/995, 13-30=-2033/339
BOT CHORD
26-28=-910/3399, 25-28=-1415/5139, 24-25=-1323/4793, 23-24=-910/3522, 22-23=-1578/5675, 19-20=-119/424, 18-19=-1560/5547, 17-18=-808/3156, 17-41=-808/3156, 41-42=-808/3156, 16-42=-808/3156, 15-16=-761/2659, 15-31=-761/2659, 29-31=-394/2500
WEBS
3-25=-332/1330, 3-24=-1390/462, 4-24=-142/645, 4-23=-753/2429, 5-22=-425/1476, 19-22=-1482/5267, 8-22=-441/1652, 8-19=-1282/376, 9-18=-3374/1137, 10-18=-1340/4445, 10-16=-1014/378, 11-16=-300/1178, 5-23=-999/401, 2-26=-2240/718, 27-28=-796/290, 26-27=-615/202, 2-28=-564/171, 13-29=-1791/524, 30-31=-424/413, 29-30=0/1236, 13-31=-2337/72

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 2-9-10, Interior(1) 2-9-10 to 6-8-0, Exterior(2) 6-8-0 to 11-5-10, Interior(1) 26-8-0 to 36-8-0, Exterior(2) 36-8-0 to 41-9-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Bearing at joint(s) 26 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) except (jt=lb) 26=375, 29=375.
9) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard

WILLIAM M. RANIERI LICENSE No. 42704 STATE OF FLORIDA PROFESSIONAL ENGINEER



William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | G8 | Special Truss | 1 | 1 | Job Reference (optional) |

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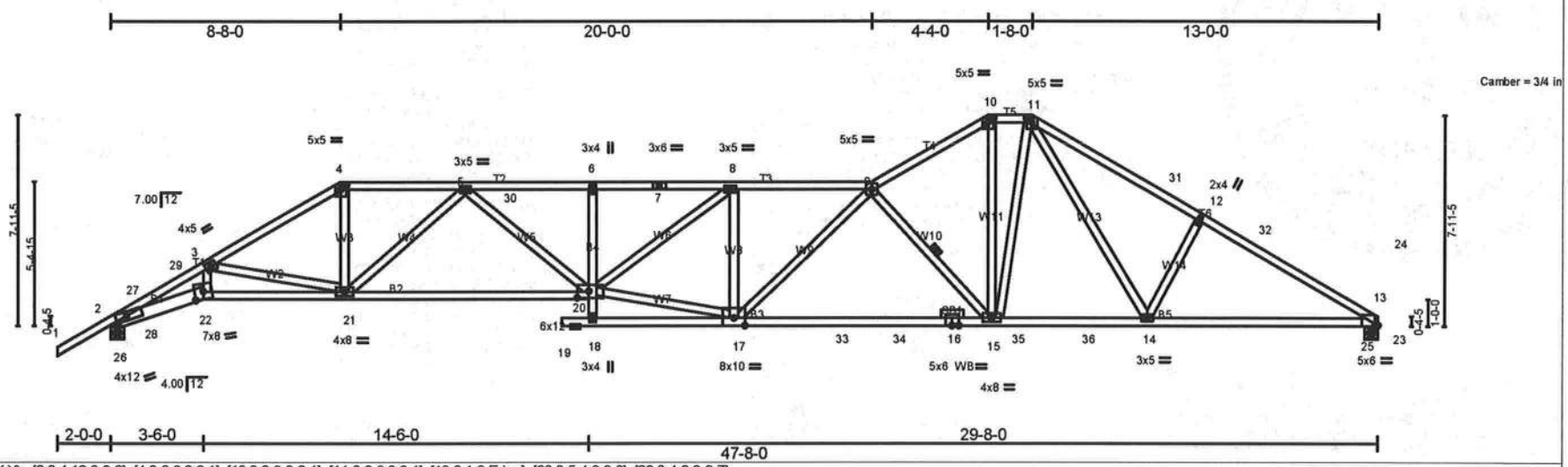


Plate Offsets (X,Y): [2:0-4-12,0-2-0], [4:0-2-8,0-2-1], [10:0-2-8,0-2-1], [11:0-2-8,0-2-1], [13:0-1-3,Edge], [20:0-5-4,0-3-0], [22:0-4-0,0-3-7]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.58 | Vert(LL) | -0.59 | 15-17 | >969 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.99 | Vert(TL) | -1.37 | 15-17 | >418 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.94 | Horz(TL) | 0.47 | 13 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.50 | 19 | >999 | 240 | Weight: 283 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP M 30 *Except*
B1: 2 X 6 SYP No.2, B4: 2 X 4 SYP No.3
B3: 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
W7,W13: 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.2

**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 2-4-6 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 2-2-0 oc bracing. Except:
10-0-0 oc bracing: 18-20
WEBS
1 Row at midpt 9-15

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

**REACTIONS** (lb/size)
23 = 1906/0-6-0 (min. 0-2-4)
26 = 1944/0-6-0 (min. 0-2-2)
Max Horz
26 = 194(LC 8)
Max Uplift
23 = -302(LC 9)
26 = -375(LC 9)
Max Grav
23 = 1906(LC 1)
26 = 1944(LC 1)

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

TOP CHORD
2-27=-2911/847, 27-29=-5955/1798, 3-29=-5897/1801, 3-4=-3703/1108, 4-5=-3255/1035, 5-30=-5094/1552, 6-30=-5094/1552, 6-7=-5054/1546, 7-8=-5054/1546, 8-9=-4416/1364, 9-10=-2980/946, 10-11=-2550/867, 11-31=-3011/1002, 12-31=-3104/978, 12-32=-3103/961, 24-32=-3255/937, 13-24=-2085/619
BOT CHORD
26-28=-947/3253, 22-28=-1579/5278, 21-22=-1482/4922, 20-21=-1181/4284, 6-20=-261/155, 17-33=-1137/4204, 33-34=-1137/4204, 16-34=-1137/4204, 15-16=-1137/4204, 15-35=-532/2371, 35-36=-532/2371, 14-36=-532/2371, 14-25=-738/2734, 23-25=-855/2574
WEBS
3-22=-365/1392, 3-21=-1807/673, 4-21=-392/1565, 5-21=-1401/481, 5-20=-245/1072, 17-20=-1096/4320, 8-20=-226/787, 8-17=-800/317, 9-17=-54/338, 9-15=-2551/871, 10-15=-405/1326, 11-15=-227/921, 11-14=-188/459, 12-14=-303/251, 13-23=-1591/513, 24-25=-529/383, 23-24=-290/730, 13-25=-1596/588, 2-26=-2124/677, 27-28=-784/268, 26-27=-789/253, 2-28=-324/82

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 2-9-10, Interior(1) 2-9-10 to 8-8-0, Exterior(2) 8-8-0 to 13-4-9, Interior(1) 28-8-0 to 33-0-0, Exterior(2) 34-8-0 to 39-5-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Bearing at joint(s) 26 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 23=302, 26=375.
8) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard

WILLIAM M. RANIERI LICENSE No. 42704 STATE OF FLORIDA PROFESSIONAL ENGINEER



William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | G12 | Hip Truss | 1 | 1 | Job Reference (optional) |

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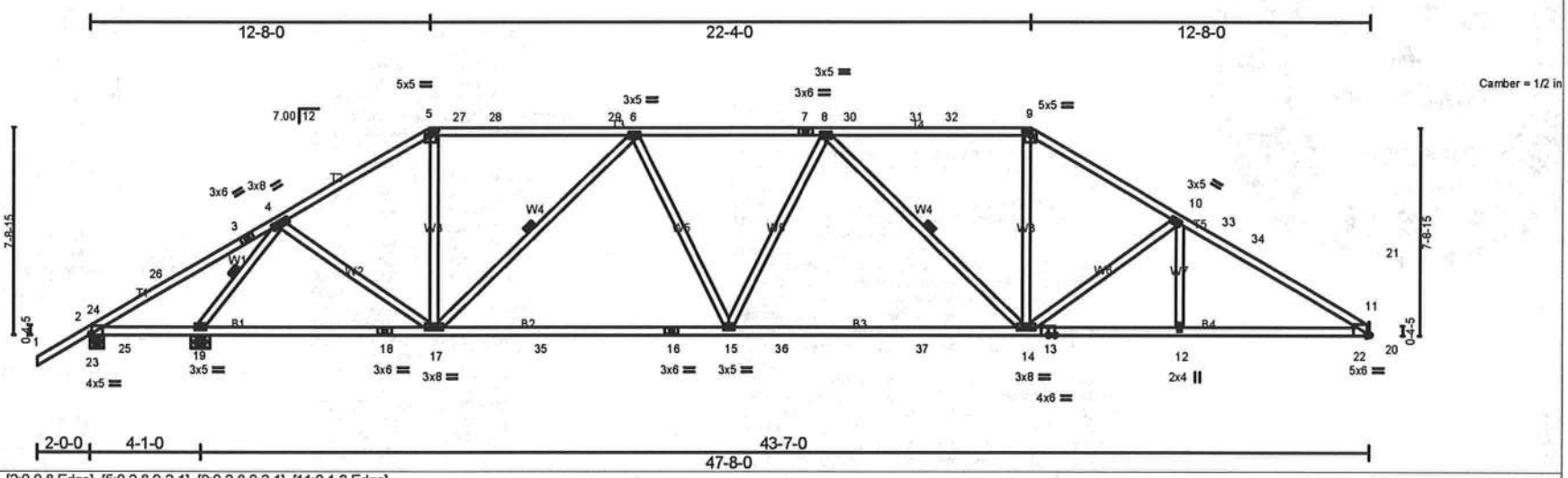


Plate Offsets (X,Y): [2:0-0-8,Edge], [5:0-2-8,0-2-1], [9:0-2-8,0-2-1], [11:0-1-3,Edge]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.80 | Vert(LL) | -0.47 | 15-17 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.97 | Vert(TL) | -0.93 | 14-15 | >562 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.59 | Horz(TL) | 0.15 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.15 | 15 | >999 | 240 | Weight: 261 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B3: 2 X 4 SYP M 30
WEBS 2 X 4 SYP No.3 *Except*
W4: 2 X 4 SYP No.2

**BRACING**
TOP CHORD
Structural wood sheathing directly applied.
BOT CHORD
Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS
1 Row at midpt 4-19, 6-17, 8-14

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

**REACTIONS** (lb/size)
20 = 1756/Mechanical
23 = -278/0-6-0 (min. 0-1-8)
19 = 2562/0-8-8 (min. 0-3-0)
Max Horz
23 = 189(LC 8)
Max Uplift
20 = -276(LC 9)
23 = -278(LC 1)
19 = -348(LC 9)
Max Grav
20 = 1756(LC 1)
19 = 2562(LC 1)

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

TOP CHORD
24-26=-315/1088, 3-26=-301/1161,
3-4=-290/1250, 4-5=-1899/622,
5-27=-1577/588, 27-28=-1577/588,
28-29=-1577/588, 6-29=-1577/588,
6-7=-2684/855, 7-8=-2684/855,
8-30=-2204/762, 30-31=-2204/762,
31-32=-2204/762, 9-32=-2204/762,
9-10=-2613/820, 10-33=-2800/866,
33-34=-2844/857, 21-34=-2962/852,
11-21=-1847/631
BOT CHORD
23-25=-265/448, 19-25=-1003/351,
18-19=-215/792, 17-18=-215/792,
17-35=-557/2461, 16-35=-557/2461,
15-16=-557/2461, 15-36=-621/2663,
36-37=-621/2663, 14-37=-621/2663,
13-14=-657/2476, 12-13=-657/2476,
12-22=-657/2476, 20-22=-884/2215
WEBS
4-19=-3003/910, 4-17=-133/957,
5-17=-108/597, 6-17=-1250/384,
6-15=-22/516, 8-14=-650/218, 9-14=-207/953,
10-14=-361/242, 11-20=-1430/525,
21-22=-531/397, 20-21=-398/438,
11-22=-1229/694, 2-23=-233/314,
23-24=-511/944, 2-25=-1093/636

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.

2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 2-9-10, Interior(1) 2-9-10 to 12-8-0, Exterior(2) 12-8-0 to 41-9-7, Interior(1) 41-9-7 to 47-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=276, 23=278, 19=348.
8) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard

WILLIAM M. RANIERI LICENSE No. 42704 STATE OF FLORIDA PROFESSIONAL ENGINEER



William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | G16 | Hip Truss | 1 | 1 | Job Reference (optional) |

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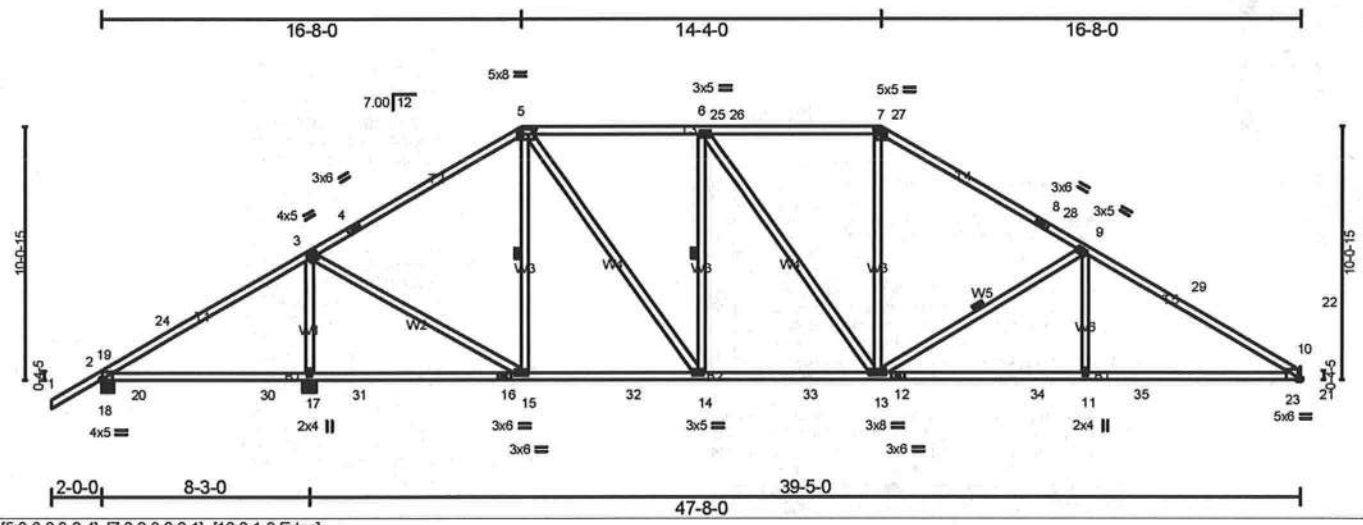


Plate Offsets (X,Y): [2:0-0-8,Edge], [5:0-6-0,0-2-4], [7:0-2-8,0-2-1], [10:0-1-3,Edge]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.58 | Vert(LL) | -0.18 | 13-14 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.59 | Vert(TL) | -0.33 | 11-13 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.91 | Horz(TL) | 0.08 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.10 | 11-13 | >999 | 240 | Weight: 272 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2 *Except*
W1,W6: 2 X 4 SYP No.3

**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 3-3-6 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS
1 Row at midpt 5-15, 6-14, 9-13

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

**REACTIONS** (lb/size)
18 = 169/0-6-0 (min. 0-1-8)
17 = 2456/0-6-0 (min. 0-2-14)
21 = 1659/Mechanical
Max Horz
18 = 243(LC 8)
Max Uplift
18 = -106(LC 9)
17 = -332(LC 9)
21 = -249(LC 9)
Max Grav
18 = 169(LC 1)
17 = 2456(LC 1)
21 = 1659(LC 1)

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

TOP CHORD
2-19=-536/73, 19-24=-102/419, 3-24=-73/567, 3-4=-1339/446, 4-5=-1212/479, 5-25=-1605/635, 6-25=-1605/635, 6-26=-1628/642, 26-27=-1628/642, 7-27=-1628/642, 7-8=-1877/652, 8-28=-1963/623, 9-28=-1999/621, 9-29=-2546/733, 22-29=-2744/714, 10-22=-1863/664
BOT CHORD
18-20=-255/880, 20-30=-387/171, 17-30=-387/171, 17-31=-387/171, 16-31=-387/171, 15-16=-387/171, 15-32=-106/1037, 14-32=-106/1037, 14-33=-255/1605, 13-33=-255/1605, 12-13=-530/2279, 12-34=-530/2279, 11-34=-530/2279, 11-35=-530/2279, 23-35=-530/2279, 21-23=-1003/2318
WEBS
3-17=-2140/692, 3-15=-308/1646, 5-15=-541/221, 5-14=-271/961, 6-14=-452/273, 7-13=-92/577, 9-13=-774/317, 9-11=0/334, 2-18=-656/347, 19-20=-113/302, 18-19=-385/1156, 2-20=-1602/493, 10-21=-1446/558, 22-23=-567/455, 21-22=-608/670, 10-23=-1501/945

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 2-9-10, Interior(1) 2-9-10 to 16-8-0, Exterior(2) 16-8-0 to 37-9-7, Interior(1) 37-9-7 to 47-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=106, 17=332, 21=249.
8) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard

WILLIAM M. RANIERI LICENSE No. 42704 STATE OF FLORIDA PROFESSIONAL ENGINEER



**William M. Ranieri, PE FL Lic # 42704**

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | H | Common Truss | 1 | 1 | Job Reference (optional) |

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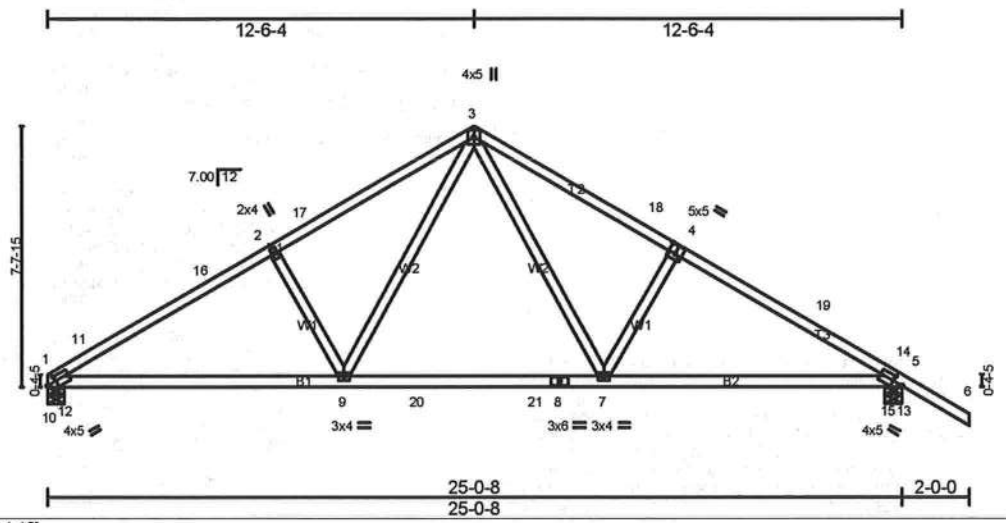


Plate Offsets (X,Y): [1:0-3-8,0-1-12], [4:0-2-8,0-3-0], [5:0-3-8,0-1-12]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.24 | Vert(LL) | -0.18 | 7-9 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.55 | Vert(TL) | -0.28 | 7-9 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.21 | Horz(TL) | 0.05 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.04 | 9-12 | >999 | 240 | Weight: 120 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 4-10-14 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
8-6-4 oc bracing: 10-12.

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

**REACTIONS** (lb/size)
10 = 995/0-6-0 (min. 0-1-8)
13 = 1106/0-6-0 (min. 0-1-8)
Max Horz
10 = -187(LC 7)
Max Uplift
10 = -160(LC 9)
13 = -236(LC 9)
Max Grav
10 = 995(LC 1)
13 = 1106(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-11=-1134/377, 11-16=-1537/424,
2-16=-1387/438, 2-17=-1379/447,
3-17=-1291/470, 3-18=-1287/458,
4-18=-1375/435, 4-19=-1453/427,
TOP CHORD
1-11=-1134/377, 11-16=-1537/424,
2-16=-1387/438, 2-17=-1379/447,
3-17=-1291/470, 3-18=-1287/458,
4-18=-1375/435, 4-19=-1453/427,
14-19=-1534/411, 5-14=-1010/121
BOT CHORD
10-12=-553/1427, 9-12=-245/1258,
9-20=-59/852, 20-21=-59/852, 8-21=-59/852,
7-8=-59/852, 7-15=-253/1255,
13-15=-172/1235
WEBS
3-7=-164/563, 4-7=-297/244, 3-9=-169/571,
2-9=-299/245, 1-10=-889/331,
11-12=-332/310, 10-11=-326/678,
1-12=-1222/529, 5-13=-982/360,
14-15=-268/306, 13-14=-33/641,
5-15=-1209/120

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) 0-0-0 to 4-9-10, Interior(1) 4-9-10 to 12-6-4, Exterior(2) 12-6-4 to 17-3-14 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=160, 13=236.
6) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard

WILLIAM M. RANIERI LICENSE No. 42704 STATE OF FLORIDA PROFESSIONAL ENGINEER



**William M. Ranieri, PE FL Lic # 42704**

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | H2 | Common Truss | 1 | 1 | Job Reference (optional) |

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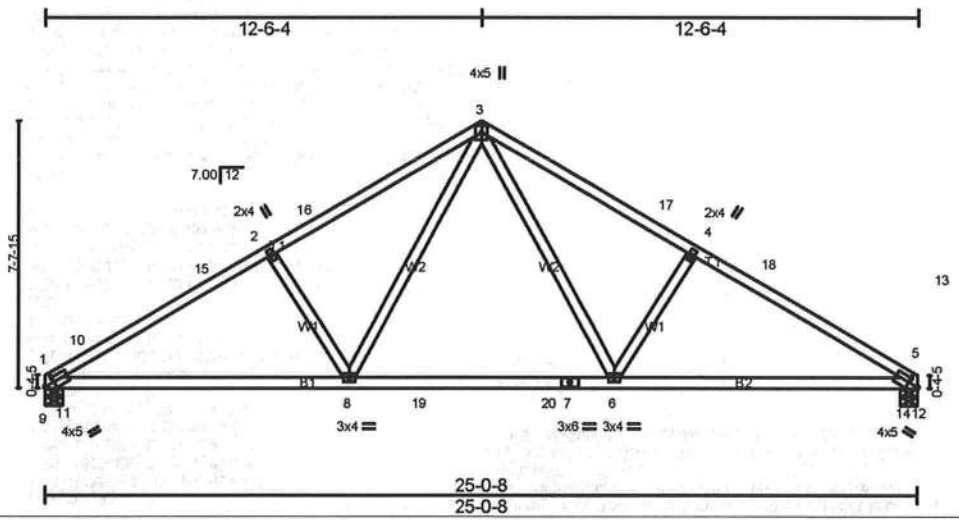


Plate Offsets (X,Y): [1:0-3-8,0-1-12], [5:0-3-8,0-1-12]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.24 | Vert(LL) | -0.19 | 6-8 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.56 | Vert(TL) | -0.28 | 6-8 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.20 | Horz(TL) | 0.05 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.04 | 8 | >999 | 240 | Weight: 117 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 4-10-13 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 8-7-7 oc bracing.

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

**REACTIONS** (lb/size)
9 = 1001/0-6-0 (min. 0-1-8)
12 = 1001/0-6-0 (min. 0-1-8)
Max Horz
9 = -168(LC 7)
Max Uplift
9 = -161(LC 9)
12 = -161(LC 9)
Max Grav
9 = 1001(LC 1)
12 = 1001(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-10=-1109/361, 10-15=-1558/433,
2-15=-1412/446, 2-16=-1391/444,
3-16=-1301/468, 3-17=-1301/468,
4-17=-1391/444, 4-18=-1412/446,
13-18=-1558/433, 5-13=-1109/361
TOP CHORD
1-10=-1109/361, 10-15=-1558/433,
2-15=-1412/446, 2-16=-1391/444,
3-16=-1301/468, 3-17=-1301/468,
4-17=-1391/444, 4-18=-1412/446,
13-18=-1558/433, 5-13=-1109/361
BOT CHORD
9-11=-539/1375, 8-11=-298/1280,
8-19=-96/862, 19-20=-96/862, 7-20=-96/862,
6-7=-96/862, 6-14=-298/1280,
12-14=-539/1375
WEBS
3-6=-162/568, 4-6=-300/245, 3-8=-162/568,
2-8=-300/245, 1-9=-869/317, 10-11=-316/297,
9-10=-289/661, 1-11=-1199/466,
5-12=-869/317, 13-14=-316/297,
12-13=-289/661, 5-14=-1199/466

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) 0-0-0 to 4-9-10, Interior(1) 4-9-10 to 12-6-4, Exterior(2) 12-6-4 to 17-3-14 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=161, 12=161.
6) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | H4 | Common Truss | 1 | 1 | Job Reference (optional) |

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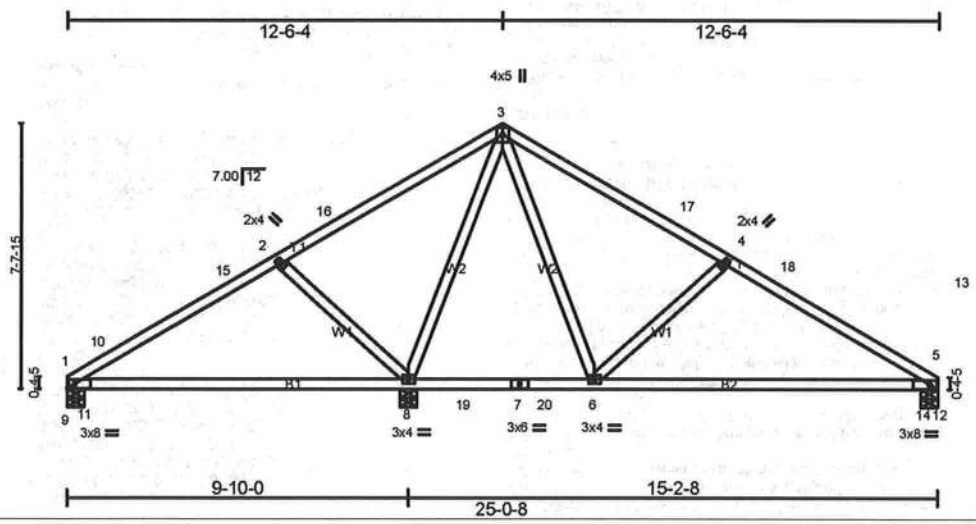


Plate Offsets (X,Y): [1:0-2-5,0-1-8], [5:0-2-5,0-1-8]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.29 | Vert(LL) | -0.14 | 6-14 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.47 | Vert(TL) | -0.36 | 6-14 | >507 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.78 | Horz(TL) | 0.01 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.03 | 6-14 | >999 | 240 | Weight: 118 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

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

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

**REACTIONS** (lb/size)

| | | |
|---|---|---|
| 9 | = | 300/0-6-0 (min. 0-1-8) |
| 12 | = | 539/0-6-0 (min. 0-1-8) |
| 8 | = | 1110/0-6-0 (min. 0-1-8) |
| Max Horz | | |
| 9 | = | -168(LC 7) |
| Max Uplift | | |
| 9 | = | -35(LC 9) |
| 12 | = | -80(LC 9) |
| 8 | = | -207(LC 9) |
| Max Grav | | |
| 9 | = | 300(LC 1) |
| 12 | = | 539(LC 1) |
| 8 | = | 1110(LC 1) |

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-10=-923/132, 3-16=-21/251, 3-17=-293/171,
4-17=-389/146, 4-18=-498/215,
TOP CHORD
1-10=-923/132, 3-16=-21/251, 3-17=-293/171,
4-17=-389/146, 4-18=-498/215,
13-18=-635/202, 5-13=-1028/183
BOT CHORD
9-11=-262/1289, 6-14=-107/495,
12-14=-309/1385
WEBS
3-6=-125/448, 4-6=-332/260, 3-8=-720/235,
2-8=-337/261, 1-9=-613/144, 10-11=-41/261,
9-10=-227/1155, 1-11=-1756/305,
5-12=-694/184, 13-14=-95/251,
12-13=-193/1084, 5-14=-1713/284

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) 0-0-0 to 4-9-10, Interior(1) 4-9-10 to 12-6-4, Exterior(2) 12-6-4 to 17-3-14 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 12 except (jt=lb) 8=207.
6) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard




**William M. Ranieri, PE FL Lic # 42704**

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | H9 | Hip Truss | 1 | 1 | Job Reference (optional) |

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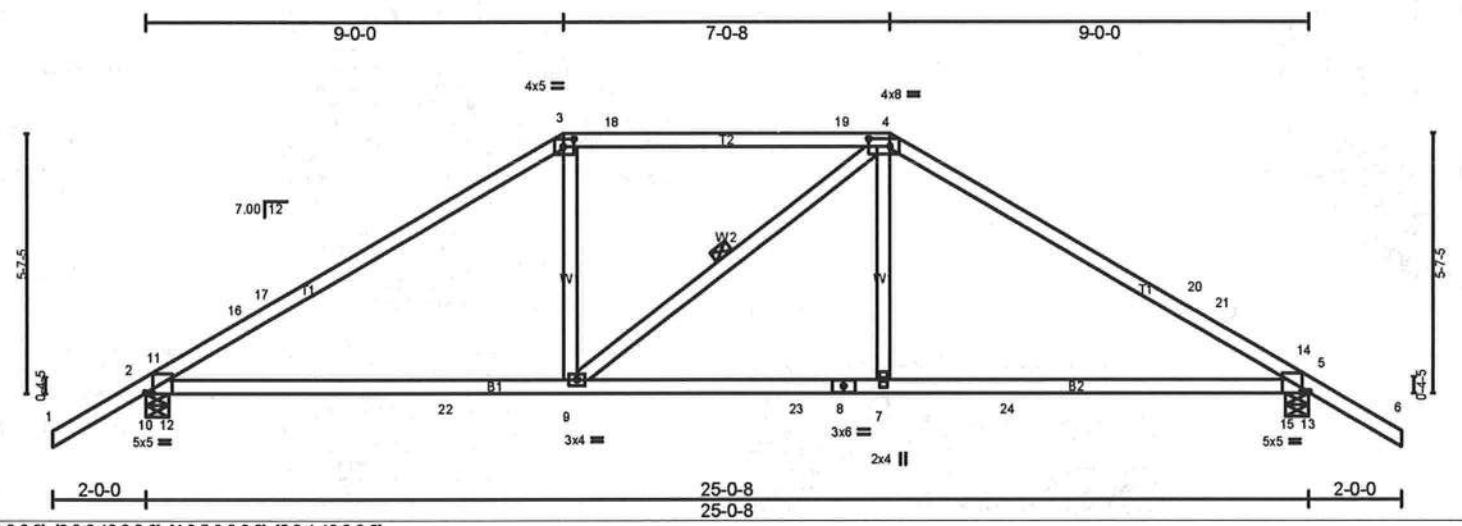


Plate Offsets (X,Y): [2:0-1-13,0-0-2], [3:0-2-12,0-2-0], [4:0-5-8,0-2-0], [5:0-1-13,0-0-2]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.92 | Vert(LL) | -0.11 | 9-12 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.51 | Vert(TL) | -0.28 | 7-15 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.10 | Horz(TL) | 0.05 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.07 | 9-12 | >999 | 240 | Weight: 113 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

**BRACING**
TOP CHORD
Structural wood sheathing directly applied.
BOT CHORD
Rigid ceiling directly applied or 6-2-0 oc bracing.
WEBS
1 Row at midpt 4-9

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

**REACTIONS** (lb/size)
10 = 1172/0-6-0 (min. 0-1-8)
13 = 1186/0-6-0 (min. 0-1-8)
Max Horz
10 = -123(LC 7)
Max Uplift
10 = -235(LC 9)
13 = -235(LC 9)
Max Grav
10 = 1172(LC 1)
13 = 1186(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-11=-1599/617, 11-16=-1470/379,
16-17=-1407/385, 3-17=-1343/411,
3-18=-1167/436, 18-19=-1167/436,
TOP CHORD
2-11=-1599/617, 11-16=-1470/379,
16-17=-1407/385, 3-17=-1343/411,
3-18=-1167/436, 18-19=-1167/436,
4-19=-1167/436, 4-20=-1374/412,
20-21=-1437/385, 14-21=-1501/379,
5-14=-1597/617
BOT CHORD
10-12=-1053/2255, 12-22=-161/1159,
9-22=-161/1159, 9-23=-182/1194,
8-23=-182/1194, 7-8=-182/1194,
7-24=-183/1185, 15-24=-183/1185,
13-15=-1068/2247
WEBS
3-9=0/306, 4-7=0/317, 2-10=-1531/680,
11-12=-390/521, 10-11=-956/1472,
2-12=-2420/1386, 5-13=-1532/680,
14-15=-399/523, 13-14=-959/1447,
5-15=-2390/1377

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 2-9-10, Interior(1) 2-9-10 to 9-0-0, Exterior(2) 9-0-0 to 16-0-8, Interior(1) 22-9-15 to 27-0-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=235, 13=235.
7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | L | Common Truss | 2 | 1 | Job Reference (optional) |

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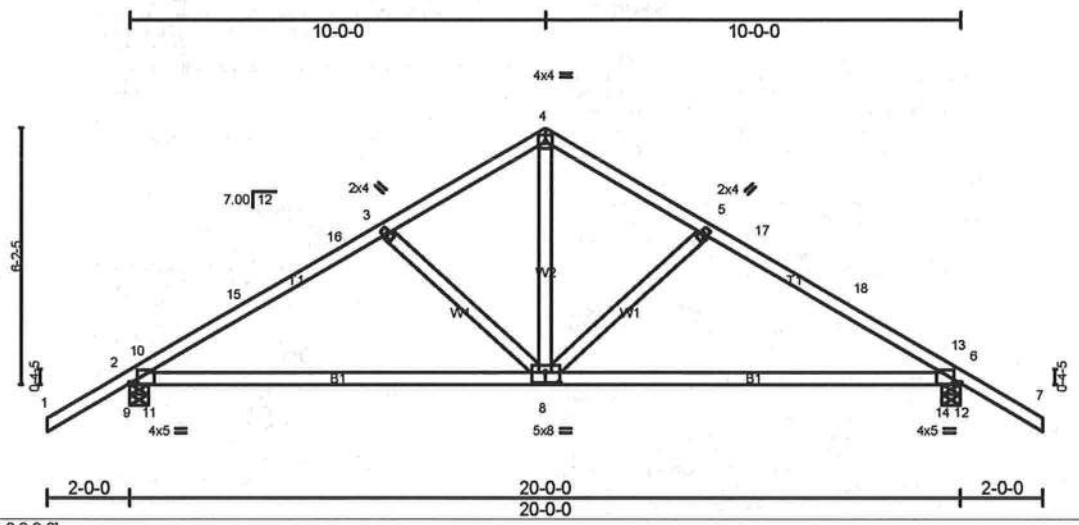


Plate Offsets (X,Y): [2:0-2-1,0-0-2], [6:0-2-1,0-0-2], [8:0-4-0,0-3-0]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.23 | Vert(LL) | -0.11 | 8-11 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.53 | Vert(TL) | -0.29 | 8-11 | >831 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.17 | Horz(TL) | 0.02 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.03 | 8-14 | >999 | 240 | Weight: 95 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 5-11-6 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS** (lb/size)
9 = 848/0-5-8 (min. 0-1-8)
12 = 848/0-5-8 (min. 0-1-8)
Max Horz
9 = 136(LC 8)
Max Uplift
9 = -202(LC 9)
12 = -202(LC 9)
Max Grav
9 = 848(LC 1)
12 = 848(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-10=-1035/55, 10-15=-996/317,
15-16=-920/319, 3-16=-859/331, 3-4=-768/293,
4-5=-768/294, 5-17=-859/331,
17-18=-920/320, 13-18=-996/317,
6-13=-1035/60
TOP CHORD
2-10=-1035/55, 10-15=-996/317,
15-16=-920/319, 3-16=-859/331,
3-4=-768/293, 4-5=-768/294, 5-17=-859/331,
17-18=-920/320, 13-18=-996/317,
6-13=-1035/60
BOT CHORD
9-11=-80/1308, 8-11=-150/795,
8-14=-171/795, 12-14=-107/1308
WEBS
4-8=-184/544, 5-8=-255/211, 3-8=-255/211,
2-9=-923/309, 10-11=-115/310, 9-10=-15/873,
2-11=-1504/87, 6-12=-923/306,
13-14=-115/308, 12-13=-25/873,
6-14=-1504/84

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 2-9-10, Interior(1) 2-9-10 to 10-0-0, Exterior(2) 10-0-0 to 14-9-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=202, 12=202.
6) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | MG | Special Truss | 1 | 2 | Job Reference (optional) |

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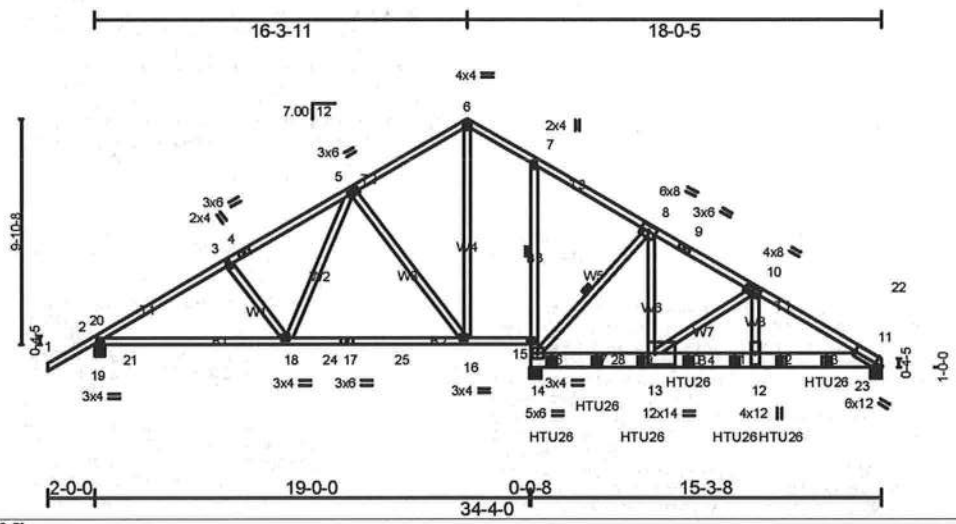


Plate Offsets (X,Y): [2:0-1-12,0-1-8], [11:0-3-13,0-3-8], [13:0-3-8,0-6-0]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.58 | Vert(LL) | -0.15 | 16-18 | >999 | 360 | | |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.66 | Vert(TL) | -0.28 | 16-18 | >815 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.64 | Horz(TL) | 0.05 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.06 | 12-23 | >999 | 240 | Weight: 446 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B4: 2 X 8 SYP 2400F 2.0E
WEBS 2 X 4 SYP No.2

**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 3-8-12 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 14-15.
1 Row at midpt 7-15
WEBS
1 Row at midpt 8-14

**REACTIONS** (lb/size)
19 = 1067/0-5-8 (min. 0-1-8)
14 = 7420/0-5-8 (min. 0-3-1)
11 = 6136/0-6-0 (min. 0-2-9)
Max Horz
19 = 250(LC 6)
Max Uplift
19 = -179(LC 7)
14 = -1291(LC 7)
11 = -924(LC 7)
Max Grav
19 = 1067(LC 1)
14 = 7420(LC 1)
11 = 6136(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-20=-1006/0, 3-20=-1493/157, 3-4=-1319/142,
TOP CHORD
2-20=-1006/0, 3-20=-1493/157,
3-4=-1319/142, 4-5=-1188/163, 5-6=-687/119,
6-7=-708/138, 7-8=-617/59, 8-9=-5423/818,
9-10=-5506/801, 10-22=-9972/1491,
11-22=-10012/1421
BOT CHORD
19-21=-57/1102, 18-21=-57/1223,
18-24=-51/884, 17-24=-51/884,
17-25=-51/884, 16-25=-51/884,
15-16=-52/513, 14-15=-603/175,
7-15=-422/143, 14-26=-564/4699,
26-27=-564/4699, 27-28=-564/4699,
28-29=-564/4699, 13-29=-564/4699,
13-30=-1228/8598, 30-31=-1228/8598,
12-31=-1228/8598, 12-32=-1228/8598,
32-33=-1228/8598, 23-33=-1228/8598,
11-23=-1196/8434
WEBS
5-18=-51/510, 5-16=-607/188, 6-16=-58/576,
8-14=-6288/1102, 8-13=-1104/6927,
10-13=-4738/807, 10-12=-695/4655,
2-19=-908/137, 19-20=-27/337, 2-21=-758/0

**NOTES**
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc, 2 X 8 - 2 rows at 0-6-0 oc.
Webs connected as follows: 2 X 4 - 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) This truss has been checked for uniform roof live load only, except as noted.
4) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights); Lumber DOL=1.60 plate grip DOL=1.60
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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=179, 14=1291, 11=924.
8) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
9) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 19-11-4 from the left end to 31-11-4 to connect truss(es) A (1 ply 2 X 4 SYP) to back face of bottom chord.
10) Fill all nail holes where hanger is in contact with lumber.

**LOAD CASE(S)**
Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-54, 6-11=-54, 19-24=-20, 24-25=-60, 16-25=-20, 15-16=-60, 14-28=-20, 13-28=-60, 11-13=-20

Standard
Concentrated Loads (lb)
Vert: 26=-1614(B) 27=-1614(B) 29=-1548(B) 30=-1639(B) 31=-1707(B) 32=-1736(B) 33=-1810(B)




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | PB | Piggyback Truss | 15 | 1 | Job Reference (optional) |

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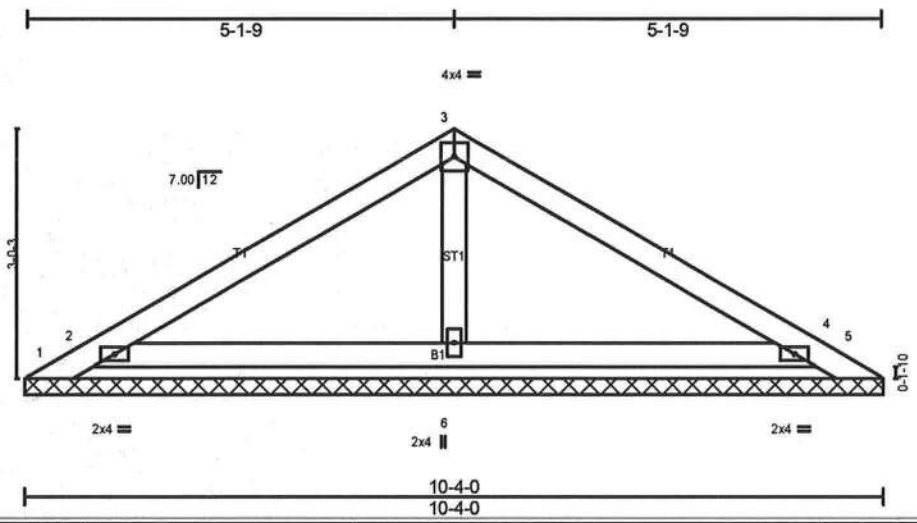



| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.22 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.18 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.02 | Horz(TL) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix) | | | | | | | Weight: 34 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP 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.

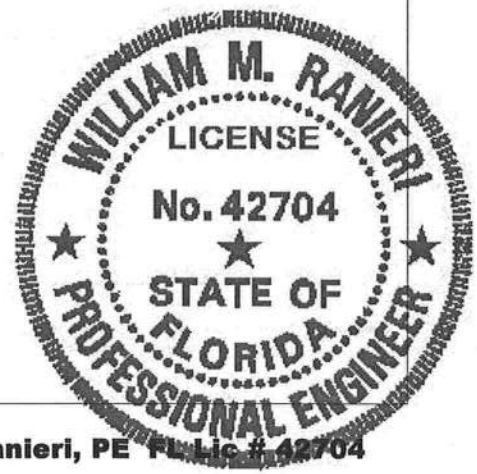
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** All bearings 10-4-0.
(lb) - Max Horz
1= -65(LC 7)
Max Uplift
All uplift 100 lb or less at joint(s) except
1=-189(LC 1), 5=-189(LC 1), 2=-182(LC 9),
4=-182(LC 9)
Max Grav
All reactions 250 lb or less at joint(s) 1,
5 except 2=414(LC 1), 4=414(LC 1),
6=271(LC 1)

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

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
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 1-0-0 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 189 lb uplift at joint 1, 189 lb uplift at joint 5, 182 lb uplift at joint 2 and 182 lb uplift at joint 4.
7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
8) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

**LOAD CASE(S)**
Standard



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| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | PB2 | Piggyback Truss | 1 | 1 | Job Reference (optional) |

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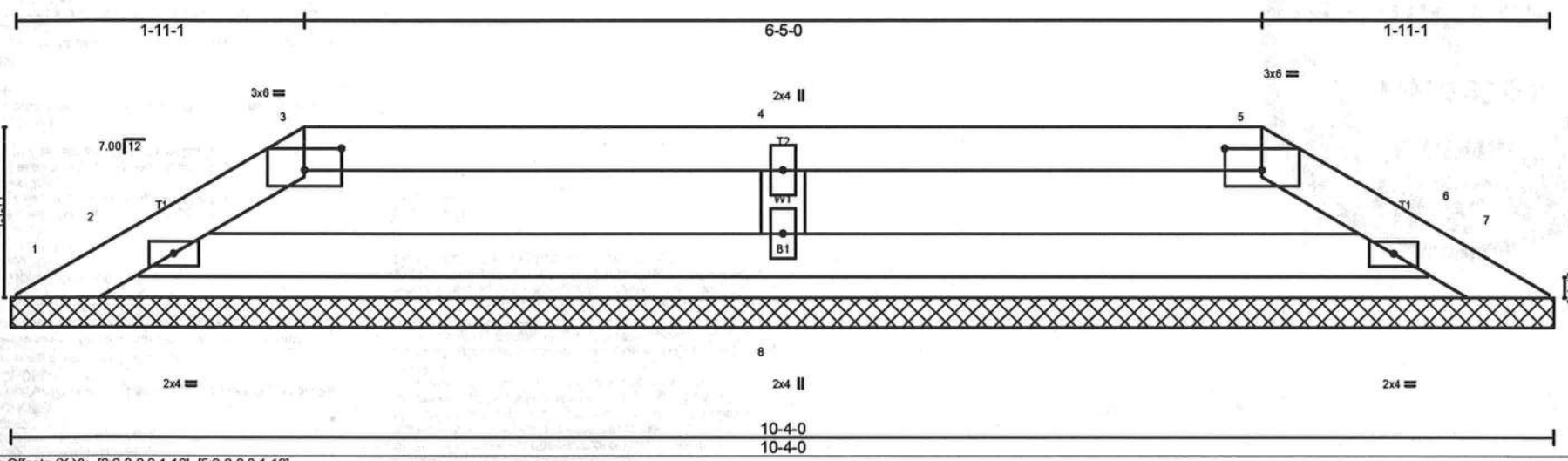


Plate Offsets (X,Y): [3:0-3-0,0-1-12], [5:0-3-0,0-1-12]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.17 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.20 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.06 | Horz(TL) | 0.01 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix) | | | | | | | Weight: 30 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

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

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

**REACTIONS** All bearings 10-4-0.
(lb) - Max Horz
1= 23(LC 8)
Max Uplift
All uplift 100 lb or less at joint(s) 1, 7, 2, 8
Max Grav
All reactions 250 lb or less at joint(s) 1, 7, 2 except 8=341(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-3=-287/216, 3-4=-265/218, 4-5=-265/218, 5-6=-287/216
BOT CHORD
2-8=-171/265, 6-8=-171/265

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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, 2, 8.
8) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
9) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | PB4 | Piggyback Truss | 1 | 1 | Job Reference (optional) |

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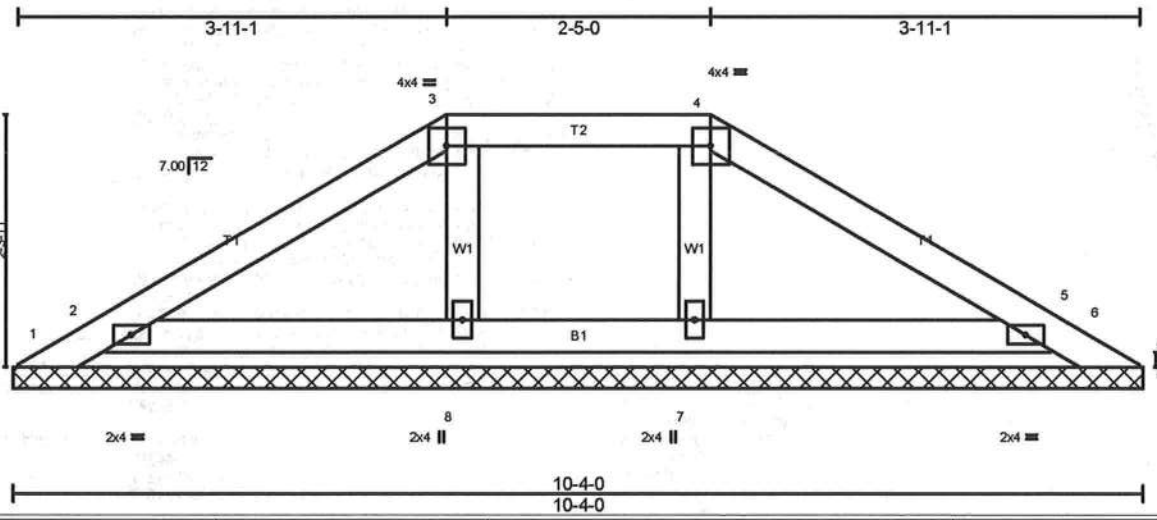


| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.11 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.07 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.02 | Horz(TL) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix) | | | | | | | Weight: 35 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

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

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

**REACTIONS** All bearings 10-4-0.
(lb) - Max Horz
1= -49(LC 7)
Max Uplift
All uplift 100 lb or less at joint(s) 1, 6, 8, 7 except 2=-104(LC 9), 5=-104(LC 9)
Max Grav
All reactions 250 lb or less at joint(s) 1, 6, 8, 7 except 2=263(LC 1), 5=263(LC 1)

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

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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, 6, 8, 7 except (jt=lb) 2=104, 5=104.
8) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
9) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | R4T | Jack-Open Truss | 1 | 1 | Job Reference (optional) |

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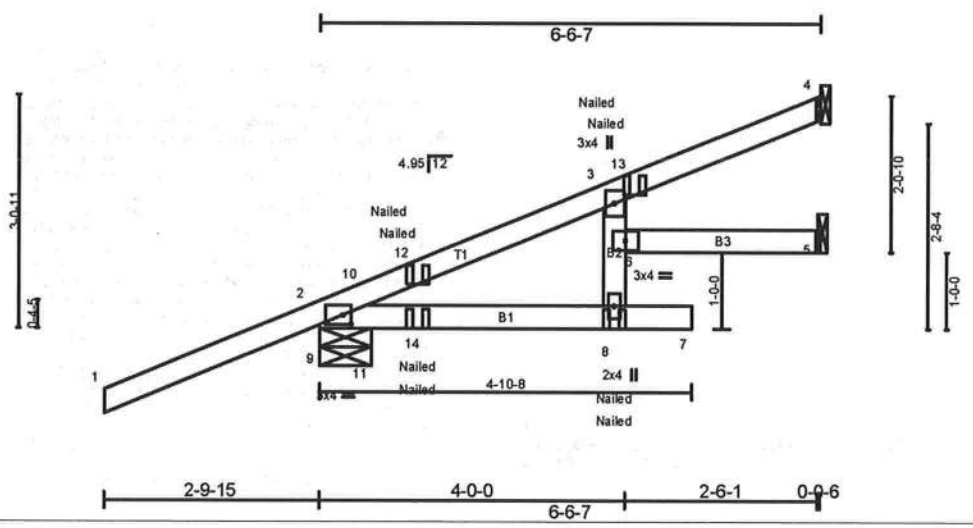


Plate Offsets (X,Y): [2:0-1-4,0-1-8]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.46 | Vert(LL) | -0.04 | 7 | >999 | 360 | | |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.35 | Vert(TL) | -0.11 | 7 | >722 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.00 | Horz(TL) | 0.02 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.04 | 7 | >999 | 240 | Weight: 28 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP 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, Except:
6-0-0 oc bracing: 9-11.

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

**REACTIONS** (lb/size)

| | | |
|---|---|---|
| 4 | = | 112/Mechanical |
| 9 | = | 372/0-8-2 (min. 0-1-8) |
| 5 | = | 90/Mechanical |
| Max Horz | | |
| 9 | = | 132(LC 7) |
| Max Uplift | | |
| 4 | = | -39(LC 7) |
| 9 | = | -185(LC 7) |
| 5 | = | -7(LC 4) |
| Max Grav | | |
| 4 | = | 112(LC 1) |
| 9 | = | 372(LC 1) |
| 5 | = | 106(LC 2) |

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD
9-11=-114/267
WEBS
2-9=-397/206, 9-10=-136/305, 2-11=-383/141

WEBS
2-9=-397/206, 9-10=-136/305, 2-11=-383/141

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights); Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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, 5 except (jt=lb) 9=185.
7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
8) "Nailed" indicates 3-10d or 2-12d common wire toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
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) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 8-9=-20, 7-8=-20, 5-6=-20

Standard
Concentrated Loads (lb)
Vert: 8=-3(F=-1, B=-1) 12=33(F=17, B=17) 13=2(F=1, B=1)
14=47(F=23, B=23)

WILLIAM M. RANIERI
LICENSE
No. 42704
STATE OF FLORIDA
PROFESSIONAL ENGINEER



William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | R7 | Jack-Open Truss | 6 | 1 | Job Reference (optional) |

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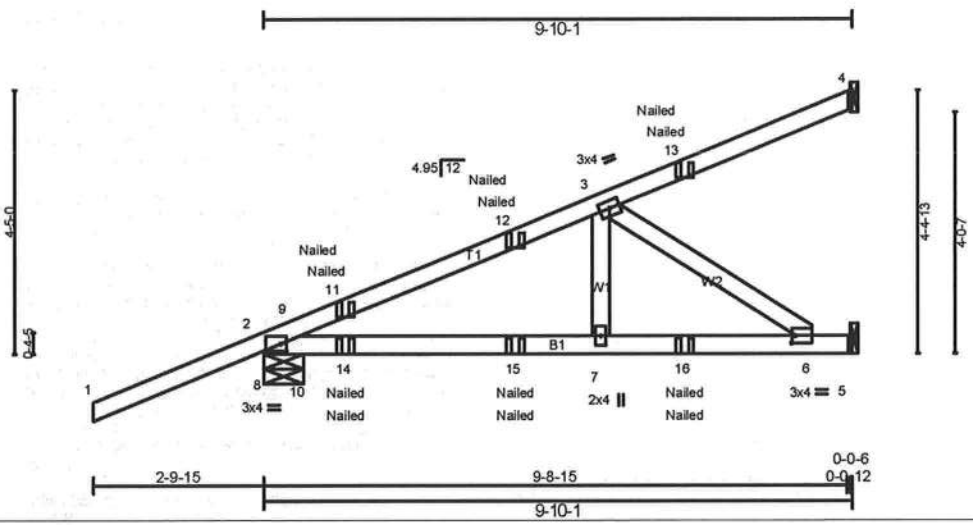


Plate Offsets (X,Y): [2:0-1-0,0-1-8], [6:0-0-12,0-1-8]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.46 | Vert(LL) | -0.03 | 6-7 | >999 | 360 | | |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.50 | Vert(TL) | -0.09 | 6-7 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.17 | Horz(TL) | 0.01 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.03 | 6-7 | >999 | 240 | Weight: 44 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP 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, Except:
6-0-0 oc bracing: 8-10.

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

**REACTIONS** (lb/size)
4 = 113/Mechanical
8 = 514/0-8-2 (min. 0-1-8)
5 = 328/Mechanical
Max Horz
8 = 172(LC 7)
Max Uplift
4 = -57(LC 7)
8 = -215(LC 7)
5 = -67(LC 7)
Max Grav
4 = 113(LC 1)
8 = 514(LC 1)
5 = 328(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-9=-251/121, 9-11=-583/87, 11-12=-542/85,
TOP CHORD
2-9=-251/121, 9-11=-583/87, 11-12=-542/85,
3-12=-500/82
BOT CHORD
10-14=-149/501, 14-15=-149/501,
7-15=-149/501, 7-16=-149/501,
6-16=-149/501
WEBS
3-7=0/311, 3-6=-605/180, 2-8=-430/217

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights); Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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, 5 except (jt=lb) 8=215.
7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
8) "Nailed" indicates 3-10d or 2-12d common wire toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
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) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 11=33(F=17, B=17) 12=-6(F=1, B=-7) 13=-93(F=-45, B=-48) 14=47(F=23, B=23) 15=-12(F=-1, B=-11) 16=-48(F=-22, B=-26)




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | TG | Common Truss | 1 | 2 | Job Reference (optional) |

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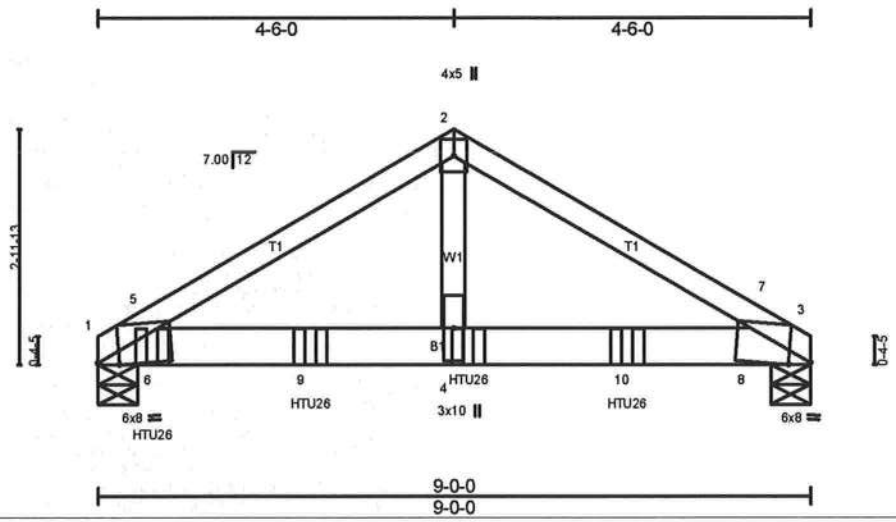


Plate Offsets (X,Y): [1:0-3-5,0-0-8], [3:0-3-5,0-0-8]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.52 | Vert(LL) | -0.07 | 4-6 | >999 | 360 | | |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.61 | Vert(TL) | -0.14 | 4-6 | >776 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.49 | Horz(TL) | 0.02 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.04 | 4-6 | >999 | 240 | Weight: 81 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 6 SYP M 26
WEBS 2 X 4 SYP No.2
**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 4-11-9 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size)
1 = 5346/0-6-0 (min. 0-2-3)
3 = 3435/0-6-0 (min. 0-1-8)
Max Horz
1 = 60(LC 6)
Max Uplift
1 = -820(LC 7)
3 = -506(LC 7)
Max Grav
1 = 5346(LC 1)
3 = 3435(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-5=-5847/815, 2-5=-5605/844, 2-7=-5633/850, 3-7=-5679/786
BOT CHORD
1-6=-661/4729, 6-9=-681/4842, 4-9=-681/4842, 4-10=-681/4842, 8-10=-681/4842, 3-8=-674/4812
WEBS
2-4=-766/5327, 5-6=-196/436

WEBS
2-4=-766/5327, 5-6=-196/436

**NOTES**
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 6 - 2 rows at 0-5-0 oc.
Webs connected as follows: 2 X 4 - 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) This truss has been checked for uniform roof live load only, except as noted.
4) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights); Lumber DOL=1.60 plate grip DOL=1.60
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 1-0-0 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=820, 3=506.
8) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
9) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-8-4 from the left end to 2-8-4 to connect truss(es) F19 (1 ply 2 X 4 SYP) to back face of bottom chord.
10) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 4-8-4 from the left end to 6-8-4 to connect truss(es) F (1 ply 2 X 4 SYP) to back face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.

**LOAD CASE(S)**
Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-3=-54, 1-3=-20
Concentrated Loads (lb)
Vert: 4=-1824(B) 6=-2240(B) 9=-2266(B) 10=-1785(B)

WILLIAM M. RANIERI LICENSE No. 42704 STATE OF FLORIDA PROFESSIONAL ENGINEER



**William M. Ranieri, PE FL Lic # 42704**

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | VT1 | Valley Truss | 1 | 1 | Job Reference (optional) |

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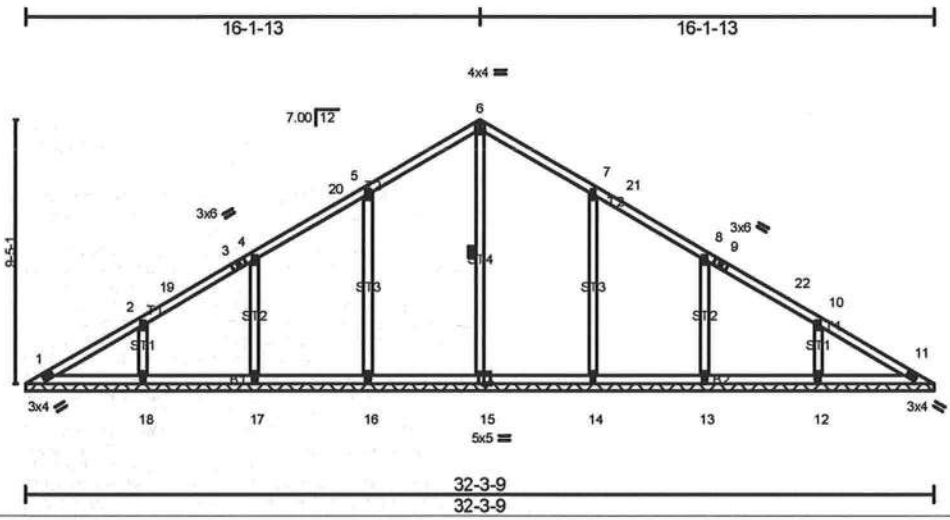


Plate Offsets (X,Y): [15:0-2-8,0-0-4]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.11 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.13 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.16 | Horz(TL) | 0.01 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix) | | | | | | | Weight: 153 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP 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.
WEBS
1 Row at midpt 6-15

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

**REACTIONS** All bearings 32-3-9.
(lb) - Max Horz
1= 210(LC 8)
Max Uplift
All uplift 100 lb or less at joint(s) 1, 16, 17, 18, 14, 13, 12
Max Grav
All reactions 250 lb or less at joint(s) 1, 11 except 15=402(LC 1), 16=489(LC 1), 17=366(LC 1), 18=307(LC 1), 14=475(LC 1), 13=370(LC 1), 12=306(LC 1)

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

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) 0-6-8 to 5-4-1, Interior(1) 5-4-1 to 16-1-13, Exterior(2) 16-1-13 to 20-11-6 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 16, 17, 18, 14, 13, 12.
8) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | VT3 | Valley Truss | 1 | 1 | Job Reference (optional) |

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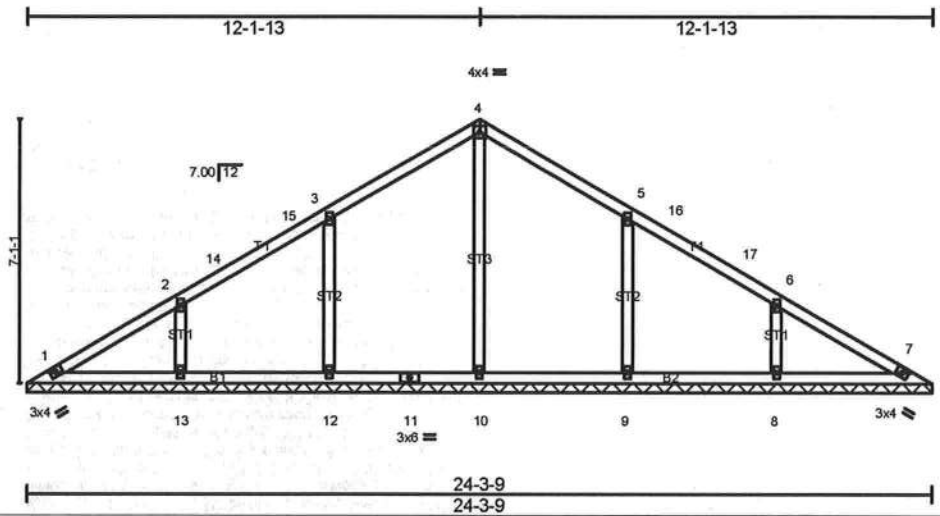


| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.11 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.13 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.12 | Horz(TL) | 0.00 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix) | | | | | | | Weight: 104 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP 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.

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

**REACTIONS** All bearings 24-3-9.
(lb) - Max Horz
1=-156(LC 7)
Max Uplift
All uplift 100 lb or less at joint(s) 1, 12, 13, 9, 8
Max Grav
All reactions 250 lb or less at joint(s) 1, 7 except 10=432(LC 1), 12=382(LC 1), 13=303(LC 1), 9=382(LC 1), 8=303(LC 1)

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

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) 0-6-8 to 5-4-1, Interior(1) 5-4-1 to 12-1-13, Exterior(2) 12-1-13 to 16-11-6 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 12, 13, 9, 8.
8) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | VT5 | Valley Truss | 1 | 1 | Job Reference (optional) |

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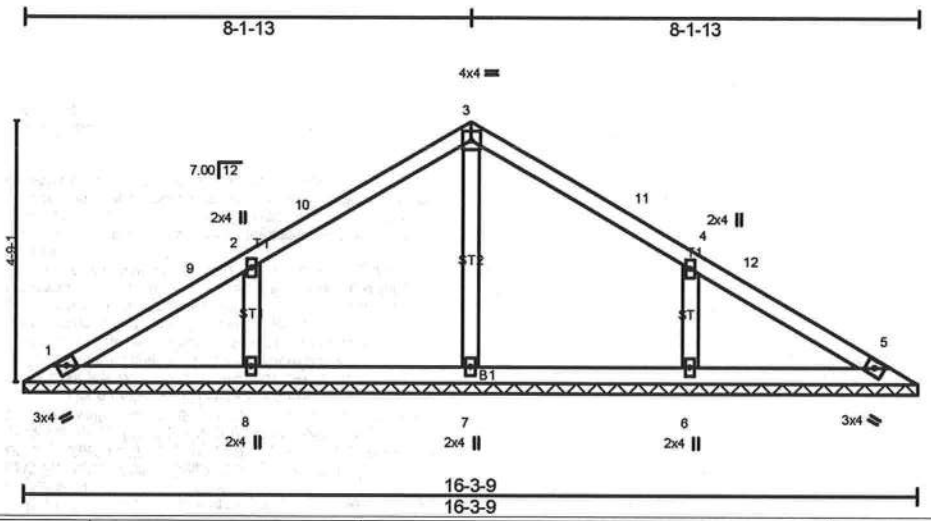


| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.11 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.08 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.05 | Horz(TL) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix) | | | | | | | Weight: 62 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP 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.

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

**REACTIONS** All bearings 16-3-9.
(lb) - Max Horz
1=-102(LC 7)
Max Uplift
All uplift 100 lb or less at joint(s) 1, 5 except 8=-105(LC 9), 6=-105(LC 9)
Max Grav
All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=329(LC 1), 6=329(LC 1)

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

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) 0-6-8 to 5-4-1, Interior(1) 5-4-1 to 8-1-13, Exterior(2) 8-1-13 to 12-11-6 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
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 1-0-0 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, 5 except (jt=lb) 8=105, 6=105.
7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | VT7 | Valley Truss | 1 | 1 | Job Reference (optional) |

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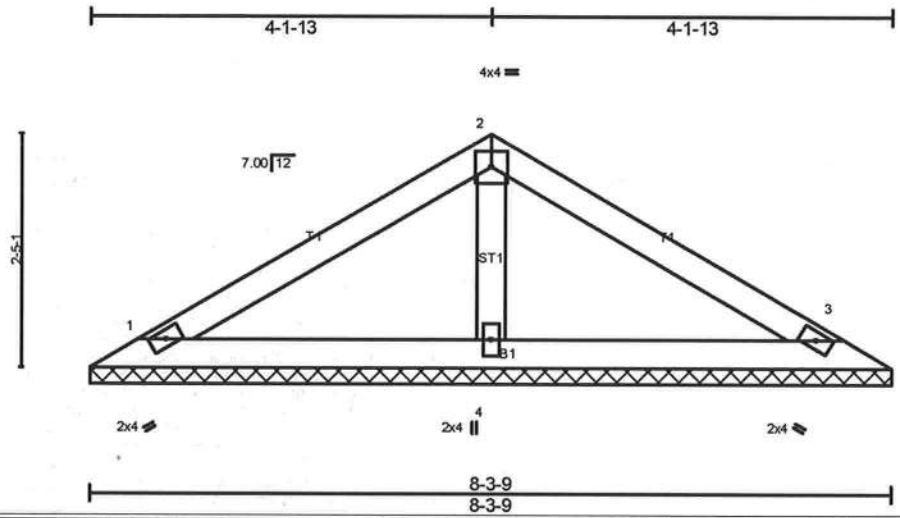


| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.16 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.12 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.02 | Horz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix) | | | | | | | Weight: 28 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP 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.

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

**REACTIONS** (lb/size)
1 = 138/8-3-9 (min. 0-1-8)
3 = 138/8-3-9 (min. 0-1-8)
4 = 259/8-3-9 (min. 0-1-8)
Max Horz
1 = -48(LC 7)
Max Uplift
1 = -38(LC 9)
3 = -38(LC 9)
4 = -16(LC 9)
Max Grav
1 = 138(LC 1)
3 = 138(LC 1)
4 = 259(LC 1)

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

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
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 1-0-0 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, 3, 4.
7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | VT8 | Valley Truss | 1 | 1 | Job Reference (optional) |

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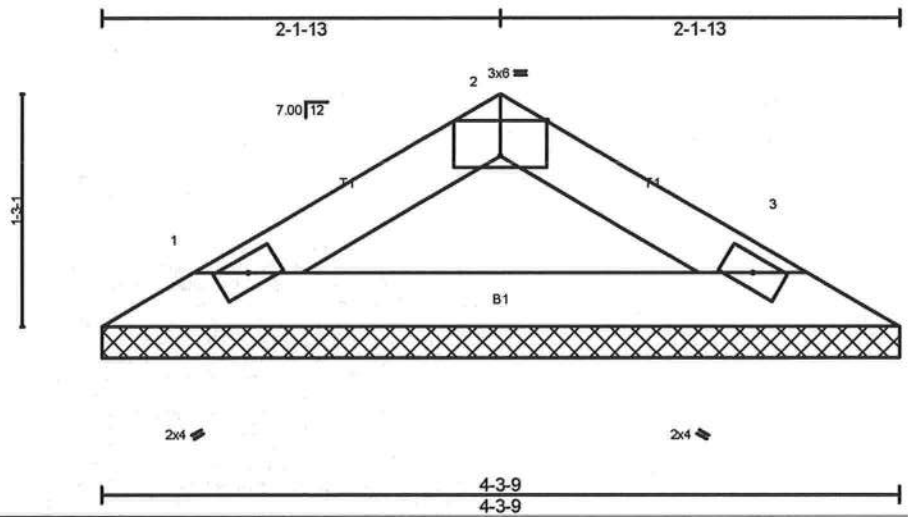


Plate Offsets (X,Y): [2:0-3-0,Edge]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.04 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.10 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix) | | | | | | | Weight: 12 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 4-3-9 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS** (lb/size)
1 = 119/4-3-9 (min. 0-1-8)
3 = 119/4-3-9 (min. 0-1-8)
Max Horz
1 = -22(LC 7)
Max Uplift
1 = -21(LC 9)
3 = -21(LC 9)
Max Grav
1 = 119(LC 1)
3 = 119(LC 1)

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

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
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 1-0-0 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, 3.
7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | VT6 | Valley Truss | 1 | 1 | Job Reference (optional) |

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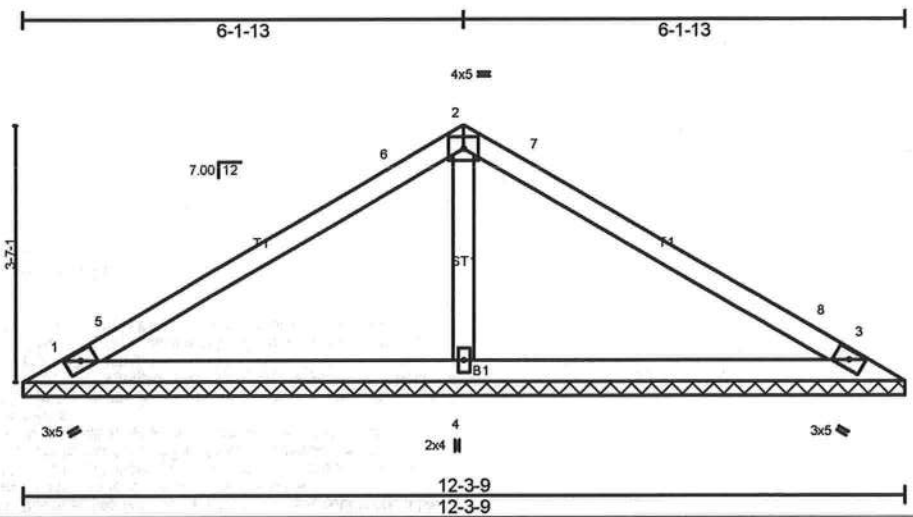


| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.16 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.23 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.05 | Horz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix) | | | | | | | Weight: 42 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP 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.

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

**REACTIONS** (lb/size)
1 = 190/12-3-9 (min. 0-1-8)
3 = 190/12-3-9 (min. 0-1-8)
4 = 450/12-3-9 (min. 0-1-8)
Max Horz
1 = -75(LC 7)
Max Uplift
1 = -44(LC 9)
3 = -44(LC 9)
4 = -57(LC 9)
Max Grav
1 = 190(LC 1)
3 = 190(LC 1)
4 = 450(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS
2-4=-267/142

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) 0-6-8 to 5-4-1, Interior(1) 5-4-1 to 6-1-13, Exterior(2) 6-1-13 to 10-11-6 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
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 1-0-0 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, 3, 4.
7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | VT4 | Valley Truss | 1 | 1 | Job Reference (optional) |

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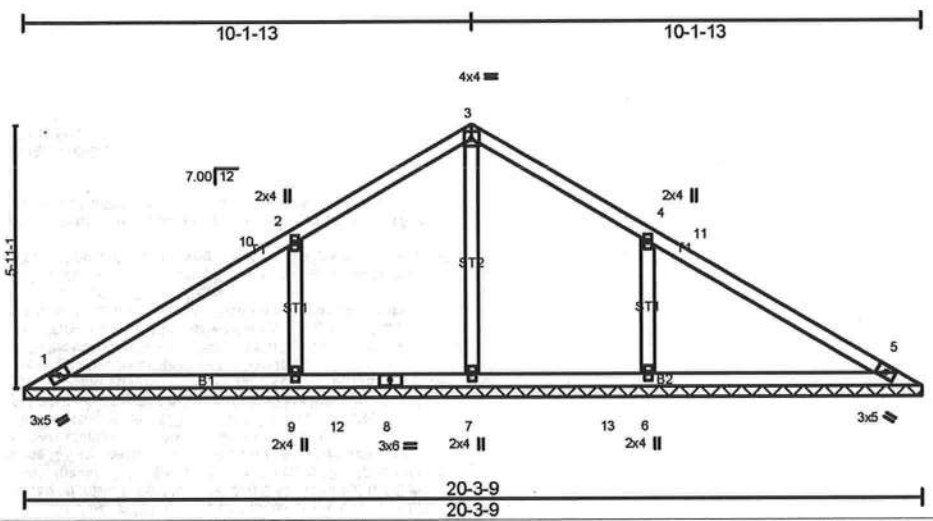


| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.27 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.21 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.06 | Horz(TL) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix) | | | | | | | Weight: 80 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP 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.

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

**REACTIONS** All bearings 20-3-9.
(lb) - Max Horz
1=-129(LC 7)
Max Uplift
All uplift 100 lb or less at joint(s) 1, 5 except 9=-140(LC 9), 6=-140(LC 9)
Max Grav
All reactions 250 lb or less at joint(s) 1, 5 except 7=350(LC 1), 9=485(LC 1), 6=485(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS
2-9=-306/249, 4-6=-306/249

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) 0-6-8 to 5-4-1, Interior(1) 5-4-1 to 10-1-13, Exterior(2) 10-1-13 to 14-11-6 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=140, 6=140.
7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | VT2 | Valley Truss | 1 | 1 | Job Reference (optional) |

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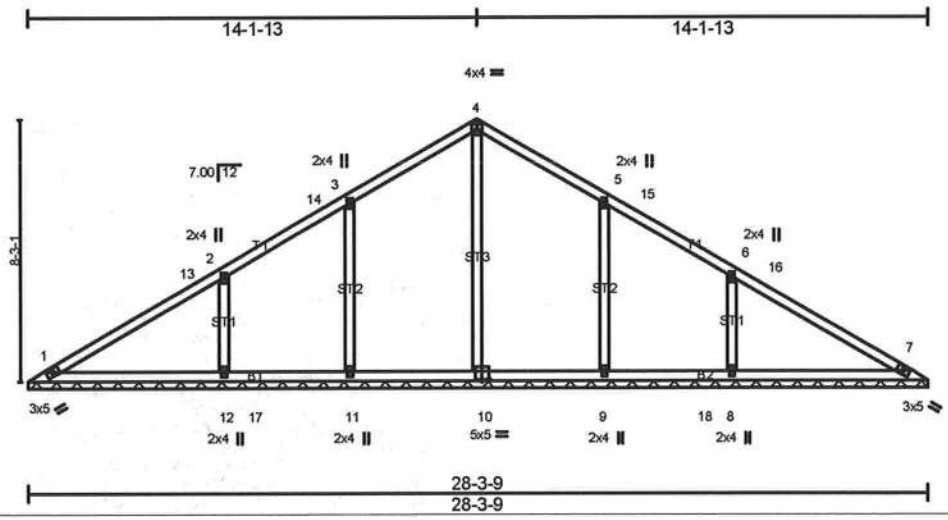


Plate Offsets (X,Y): [10:0-2-8,0-0-4]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.25 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.21 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.17 | Horz(TL) | 0.00 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix) | | | | | | | Weight: 125 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP 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.

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

**REACTIONS** All bearings 28-3-9.
(lb) - Max Horz
1= 183(LC 8)
Max Uplift
All uplift 100 lb or less at joint(s) 1, 7, 11, 9 except 12=-133(LC 9), 8=-132(LC 9)
Max Grav
All reactions 250 lb or less at joint(s) 1, 7 except 10=426(LC 1), 11=436(LC 1), 12=466(LC 1), 9=422(LC 1), 8=470(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS
2-12=-291/233, 6-8=-291/233

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) 0-6-8 to 5-4-1, Interior(1) 5-4-1 to 14-1-13, Exterior(2) 14-1-13 to 18-11-6 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 11, 9 except (jt=lb) 12=133, 8=132.
7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | TX | Common Truss | 1 | 1 | Job Reference (optional) |

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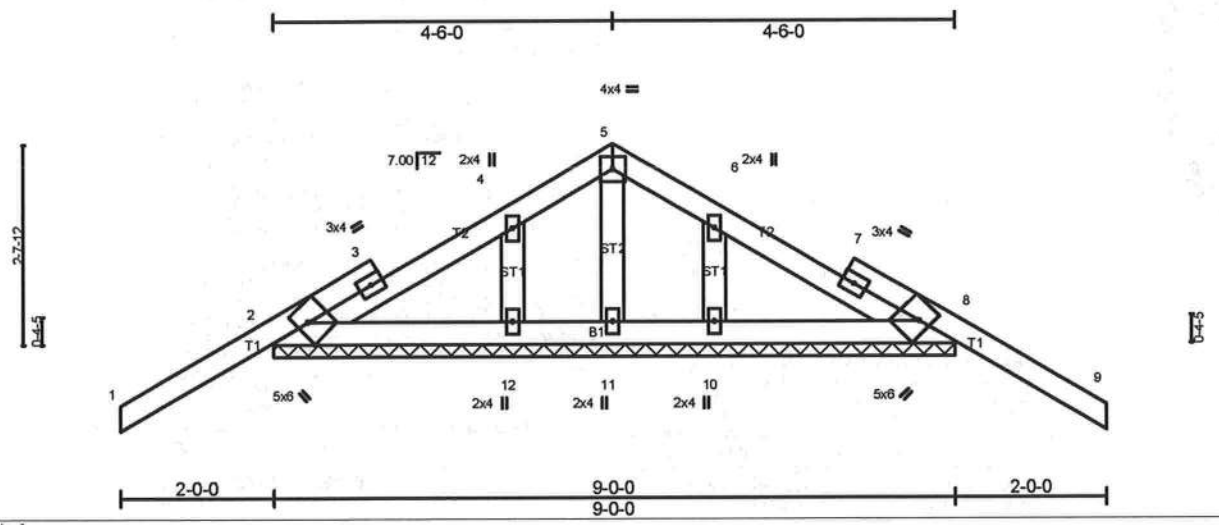


Plate Offsets (X,Y): [2:0-3-4,Edge], [8:0-3-4,Edge]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.24 | Vert(LL) | 0.00 | 8 | n/r | 180 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.08 | Vert(TL) | -0.01 | 9 | n/r | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.02 | Horz(TL) | 0.00 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix) | | Wind(LL) | 0.02 | 9 | n/r | 120 | Weight: 46 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP 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.

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

**REACTIONS** All bearings 9-0-0.
(lb) - Max Horz
2= 56(LC 8)
Max Uplift
All uplift 100 lb or less at joint(s) 11, 12, 10 except 2=-145(LC 9), 8=-145(LC 9)
Max Grav
All reactions 250 lb or less at joint(s) 2, 8, 11, 12, 10

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

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=2ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Corner(3) -2-0-0 to 2-9-10, Exterior(2) 2-9-10 to 4-6-0, Corner(3) 4-6-0 to 9-3-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 1-4-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 12, 10 except (jt=lb) 2=145, 8=145.
9) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE Fl. Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | R47 | Jack-Open Truss | 1 | 1 | Job Reference (optional) |

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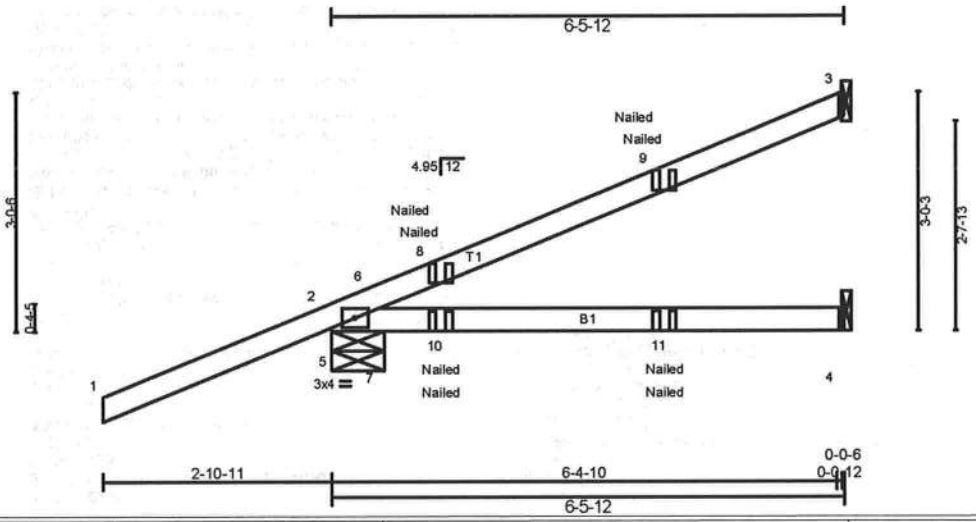


| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.48 | Vert(LL) | -0.04 | 4-7 | >999 | 360 | | |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.24 | Vert(TL) | -0.09 | 4-7 | >891 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.00 | Horz(TL) | 0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.02 | 4-7 | >999 | 240 | Weight: 25 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP 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.

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

**REACTIONS** (lb/size)
3 = 124/Mechanical
5 = 377/0-8-2 (min. 0-1-8)
4 = 51/Mechanical
Max Horz
5 = 132(LC 7)
Max Uplift
3 = -65(LC 7)
5 = -194(LC 7)
Max Grav
3 = 124(LC 1)
5 = 377(LC 1)
4 = 96(LC 2)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-6=-312/134
BOT CHORD
5-7=-237/383
WEBS
2-5=-539/262, 5-6=-298/488, 2-7=-628/331

WEBS
2-5=-539/262, 5-6=-298/488, 2-7=-628/331

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights); Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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 except (jt=lb) 5=194.
7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
8) "Nailed" indicates 3-10d or 2-12d common wire toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
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) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 4-5=-20
Concentrated Loads (lb)
Standard
Vert: 8=33(F=17, B=17) 9=2(F=1, B=1) 10=47(F=23, B=23)
11=-3(F=-1, B=-1)




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | R5 | Jack-Open Truss | 1 | 1 | Job Reference (optional) |

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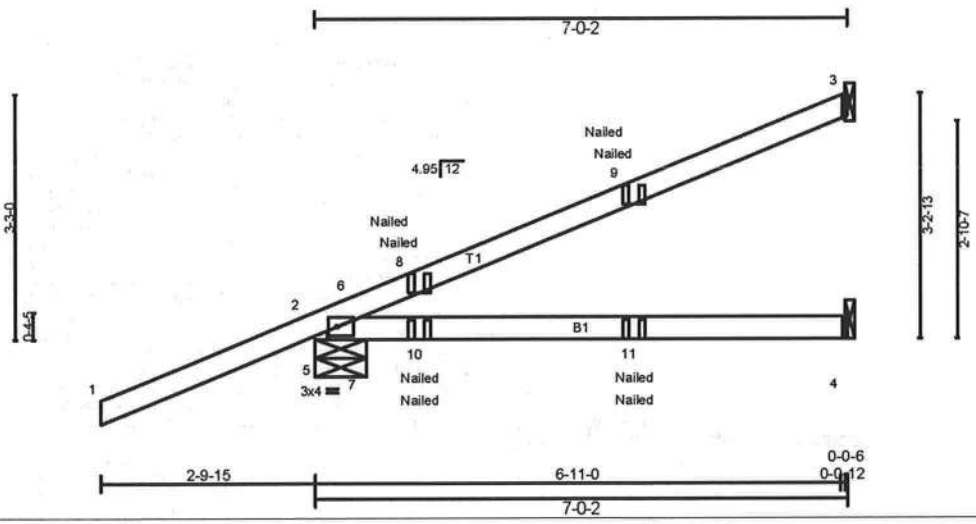


Plate Offsets (X,Y): [2:0-1-8,0-1-8]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.46 | Vert(LL) | -0.05 | 4-7 | >999 | 360 | | |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.29 | Vert(TL) | -0.13 | 4-7 | >667 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.00 | Horz(TL) | 0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.02 | 4-7 | >999 | 240 | Weight: 26 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP 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.

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

**REACTIONS** (lb/size)
3 = 137/Mechanical
5 = 395/0-8-2 (min. 0-1-8)
4 = 57/Mechanical
Max Horz
5 = 138(LC 7)
Max Uplift
3 = -70(LC 7)
5 = -194(LC 7)
Max Grav
3 = 137(LC 1)
5 = 395(LC 1)
4 = 105(LC 2)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-6=-447/171
BOT CHORD
5-7=-292/547
WEBS
2-5=-630/287, 5-6=-360/713, 2-7=-887/401

WEBS
2-5=-630/287, 5-6=-360/713, 2-7=-887/401

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights); Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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 except (jt=lb) 5=194.
7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
8) "Nailed" indicates 3-10d or 2-12d common wire toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
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) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 4-5=-20

Standard
Concentrated Loads (lb)
Vert: 8=33(F=17, B=17) 9=2(F=1, B=1) 10=47(F=23, B=23) 11=-3(F=-1, B=-1)

WILLIAM M. RANIERI LICENSE No. 42704 STATE OF FLORIDA PROFESSIONAL ENGINEER



William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | R2 | Jack-Open Truss | 2 | 1 | Job Reference (optional) |

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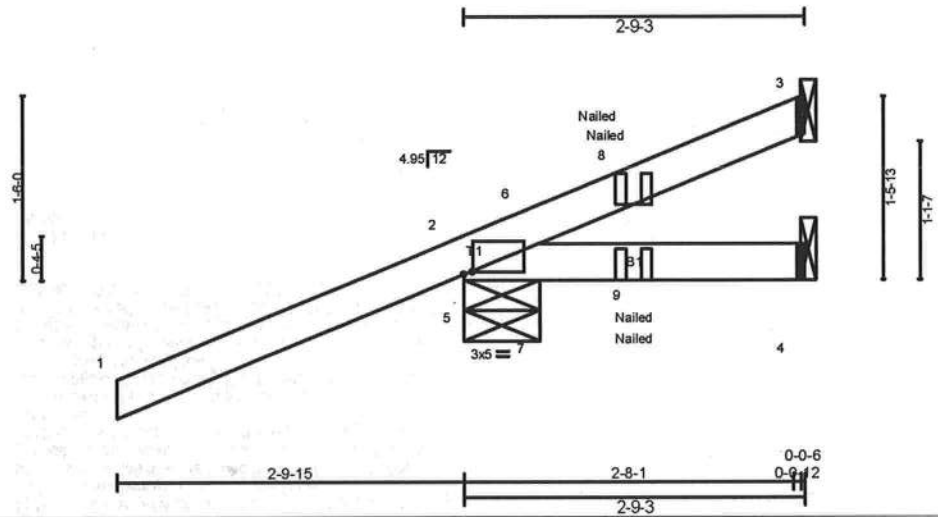


Plate Offsets (X,Y): [2:0-0-14,0-0-4]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.46 | Vert(LL) | 0.00 | 7 | >999 | 360 | | |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.07 | Vert(TL) | 0.01 | 4-7 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.00 | Horz(TL) | -0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | -0.00 | 7 | >999 | 240 | Weight: 13 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 2-9-3 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.

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

**REACTIONS** (lb/size)

| | | |
|---|---|---|
| 3 | = | 20/Mechanical |
| 5 | = | 265/0-7-6 (min. 0-1-8) |
| 4 | = | -12/Mechanical |
| Max Horz | | |
| 5 | = | 86(LC 7) |
| Max Uplift | | |
| 3 | = | -21(LC 4) |
| 5 | = | -179(LC 7) |
| 4 | = | -12(LC 1) |
| Max Grav | | |
| 3 | = | 20(LC 1) |
| 5 | = | 265(LC 1) |
| 4 | = | 12(LC 7) |

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-6=-304/428
BOT CHORD
5-7=-468/314

BOT CHORD
5-7=-468/314
WEBS
2-7=-164/277

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights); Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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, 4 except (jt=lb) 5=179.
7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
8) "Nailed" indicates 3-10d or 2-12d common wire toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
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) Regular: Lumber Increase=1.25, Plate Increase=1.25

Standard
Uniform Loads (plf)
Vert: 1-3=-54, 4-5=-20
Concentrated Loads (lb)
Vert: 8=33(F=17, B=17) 9=47(F=23, B=23)

WILLIAM M. RANIERI LICENSE No. 42704 STATE OF FLORIDA PROFESSIONAL ENGINEER



William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | PB3 | Piggyback Truss | 1 | 1 | Job Reference (optional) |

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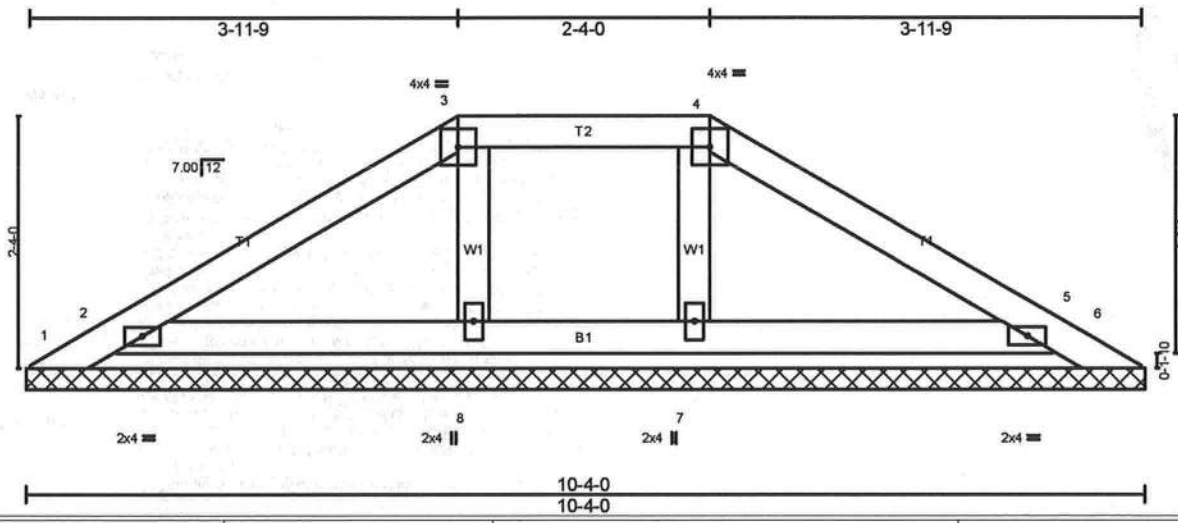


| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.12 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.07 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.02 | Horz(TL) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix) | | | | | | | Weight: 35 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

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

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

**REACTIONS** All bearings 10-4-0.
(lb) - Max Horz
1= 50(LC 8)
Max Uplift
All uplift 100 lb or less at joint(s) 1, 6, 8, 7 except 2=-106(LC 9), 5=-106(LC 9)
Max Grav
All reactions 250 lb or less at joint(s) 1, 6, 8, 7 except 2=268(LC 1), 5=268(LC 1)

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

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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, 6, 8, 7 except (jt=lb) 2=106, 5=106.
8) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
9) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

**LOAD CASE(S)**
Standard


William M. Ranieri, PE Fl. Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | PB1 | Piggyback Truss | 1 | 1 | Job Reference (optional) |

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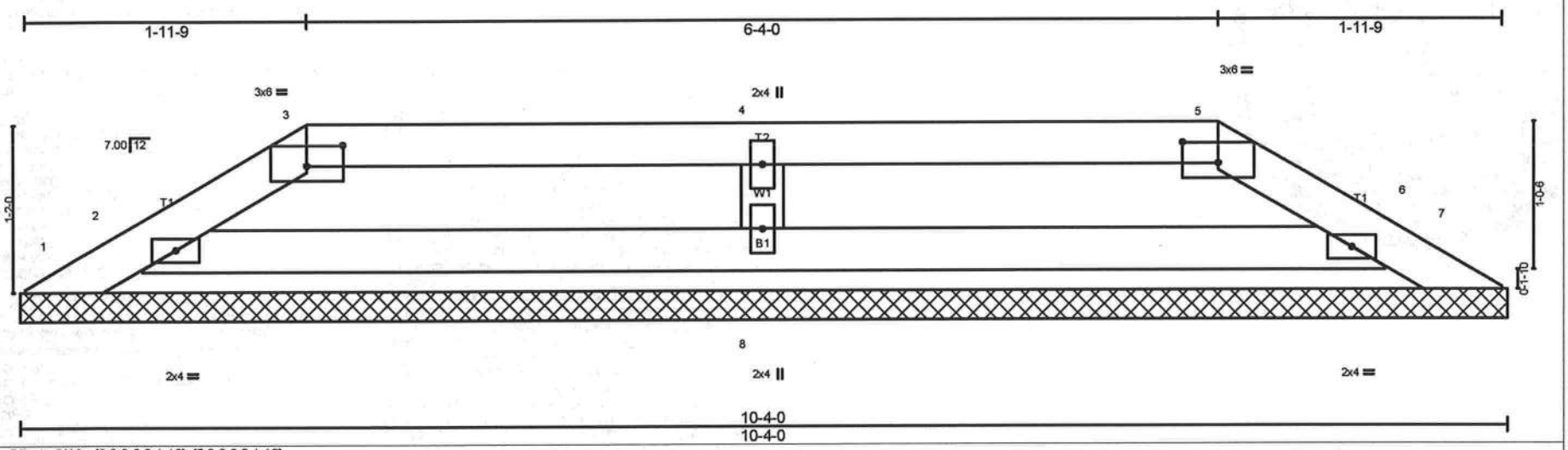


Plate Offsets (X,Y): [3:0-3-0,0-1-12], [5:0-3-0,0-1-12]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.17 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.20 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.06 | Horz(TL) | 0.01 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix) | | | | | | | Weight: 30 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

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

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

**REACTIONS** All bearings 10-4-0.
(lb) - Max Horz
1= 23(LC 8)
Max Uplift
All uplift 100 lb or less at joint(s) 1, 7, 2, 8
Max Grav
All reactions 250 lb or less at joint(s) 1, 7, 2 except 8=339(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-3=-286/215, 3-4=-262/217, 4-5=-262/217, 5-6=-286/215
BOT CHORD
2-8=-169/262, 6-8=-169/262

**NOTES**

1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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, 2, 8.
8) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
9) SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS

**LOAD CASE(S)**
Standard


William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | MX | GABLE | 1 | 1 | Job Reference (optional) |

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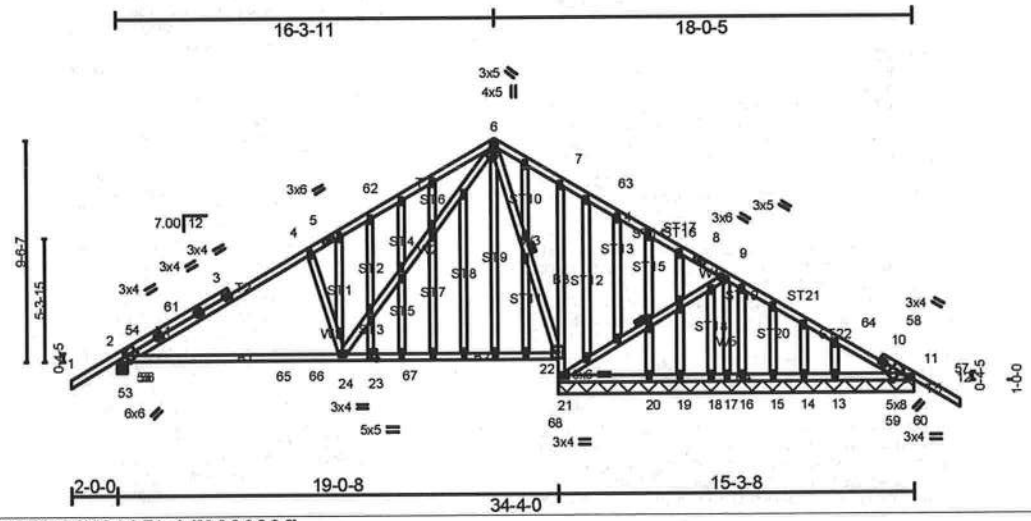


Plate Offsets (X,Y): [2:0-1-5,Edge], [6:0-2-6,0-0-13], [11:0-5-15,Edge], [11:0-1-9,Edge], [23:0-2-8,0-3-0]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.46 | Vert(LL) | -0.30 | 22-24 | >768 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.76 | Vert(TL) | -0.52 | 22-24 | >439 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.57 | Horz(TL) | 0.02 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.05 | 24-55 | >999 | 240 | Weight: 321 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
W2,W3: 2 X 4 SYP No.2
OTHERS 2 X 4 SYP 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, Except:
10-0-0 oc bracing: 53-55,24-55,22-24,21-22.
WEBS
1 Row at midpt 6-22, 9-21

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

**REACTIONS** All bearings 15-3-8 except (jt=length) 53=0-5-8.
(lb) - Max Horz
53= 227(LC 8)
Max Uplift
All uplift 100 lb or less at joint(s) 22, 19, 14, 13 except 53=-252(LC 9), 57=-121(LC 9), 17=-264(LC 9)
Max Grav
All reactions 250 lb or less at joint(s) 21, 57, 20, 19, 18, 16, 15, 14, 13, 57 except 53=790(LC 1), 22=1328(LC 1), 17=310(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-54=-835/249, 54-61=-890/366,
TOP CHORD
2-54=-835/249, 54-61=-890/366,
3-61=-807/372, 3-4=-792/386, 4-5=-804/465,
5-62=-782/475, 6-62=-680/496, 6-7=-72/366,
7-63=-10/372, 8-63=-16/282, 8-9=-32/252,
9-64=0/290
BOT CHORD
53-55=-146/723, 55-65=-146/723,
65-66=-146/723, 24-66=-146/723,
7-22=-266/217
WEBS
4-24=-457/333, 6-24=-285/984, 6-22=-899/39,
9-17=-306/351, 2-53=-610/202, 55-56=0/315,
54-56=-168/320, 2-56=-268/310,
53-56=-373/322, 58-60=-292/262,
11-60=-381/254, 57-60=-236/355

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 2-9-10, Interior(1) 2-9-10 to 16-3-11, Exterior(2) 16-3-11 to 21-1-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 1-4-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Bearing at joint(s) 22 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22, 19, 14, 13 except (jt=lb) 53=252, 57=121, 17=264, 57=121.
10) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | LX | GABLE | 1 | 1 | Job Reference (optional) |

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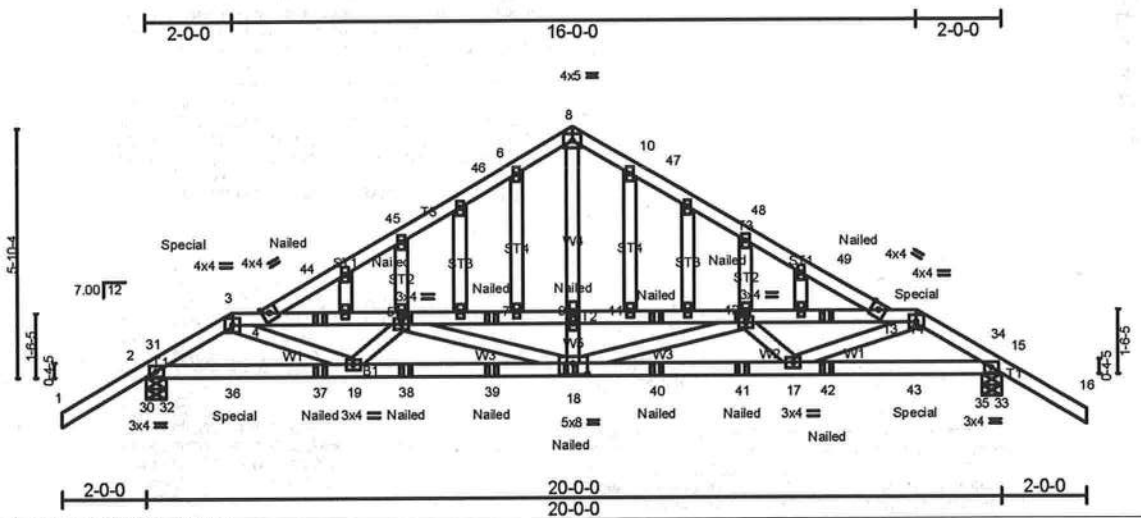


Plate Offsets (X,Y): [4:0-2-0,0-1-12], [9:0-1-8,0-1-0], [13:0-2-0,0-1-12], [18:0-4-0,0-3-0]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.45 | Vert(LL) | -0.06 | 18 | >999 | 360 | | |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.29 | Vert(TL) | -0.15 | 17-18 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.12 | Horz(TL) | 0.03 | 15 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.06 | 18 | >999 | 240 | Weight: 151 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
W4: 2 X 4 SYP No.2
OTHERS 2 X 4 SYP 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.
JOINTS
1 Brace at Jt(s): 5, 9, 12

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

**REACTIONS** (lb/size)
30 = 613/0-5-8 (min. 0-1-8)
33 = 614/0-5-8 (min. 0-1-8)
Max Horz
30 = 128(LC 6)
Max Uplift
30 = -181(LC 7)
33 = -181(LC 7)
Max Grav
30 = 613(LC 1)
33 = 614(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-31=-466/17, 3-31=-765/149, 3-4=-962/200,
TOP CHORD
2-31=-466/17, 3-31=-765/149, 3-4=-962/200,
4-5=-684/236, 5-7=-887/368, 7-9=-887/368,
9-11=-887/368, 11-12=-887/368,
12-13=-683/236, 13-14=-961/200,
14-34=-765/150, 15-34=-466/12,
4-44=-389/24, 44-45=-321/20, 45-46=-321/34,
6-46=-291/41, 6-8=-266/77, 8-10=-266/77,
10-47=-291/41, 47-48=-321/34,
48-49=-321/18, 13-49=-389/8
BOT CHORD
30-32=-43/569, 32-36=-77/630,
36-37=-77/630, 19-37=-77/630,
19-38=-172/1060, 38-39=-172/1060,
18-39=-172/1060, 18-40=-172/1059,
40-41=-172/1059, 17-41=-172/1059,
17-42=-44/629, 42-43=-44/629,
35-43=-44/629, 33-35=-6/569
WEBS
3-19=-75/387, 14-17=-75/386, 2-30=-561/176,
2-32=-443/28, 15-33=-562/176,
15-35=-443/24

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights); Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 1-4-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 30=181, 33=181.
10) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
11) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
12) "Nailed" indicates 3-10d or 3-12d common wire toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 10 lb down and 61 lb up at 2-0-0, and 10 lb down and 61 lb up at 18-0-0 on top chord, and 42 lb up at 2-0-0, and 42 lb up at 17-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
14) 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) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-4=-54, 13-14=-54, 14-16=-54, 30-33=-20, 4-8=-54, 8-13=-54

Standard
Concentrated Loads (lb)
Vert: 3=61(F) 14=61(F) 18=13(F) 8=26(F) 36=35(F) 37=13(F) 38=13(F) 39=13(F) 40=13(F) 41=13(F) 42=13(F) 43=35(F) 44=26(F) 45=26(F) 46=26(F) 47=26(F) 48=26(F) 49=26(F)

WILLIAM M. RANIERI LICENSE No. 42704 STATE OF FLORIDA PROFESSIONAL ENGINEER



William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | H11 | Hip Truss | 1 | 1 | Job Reference (optional) |

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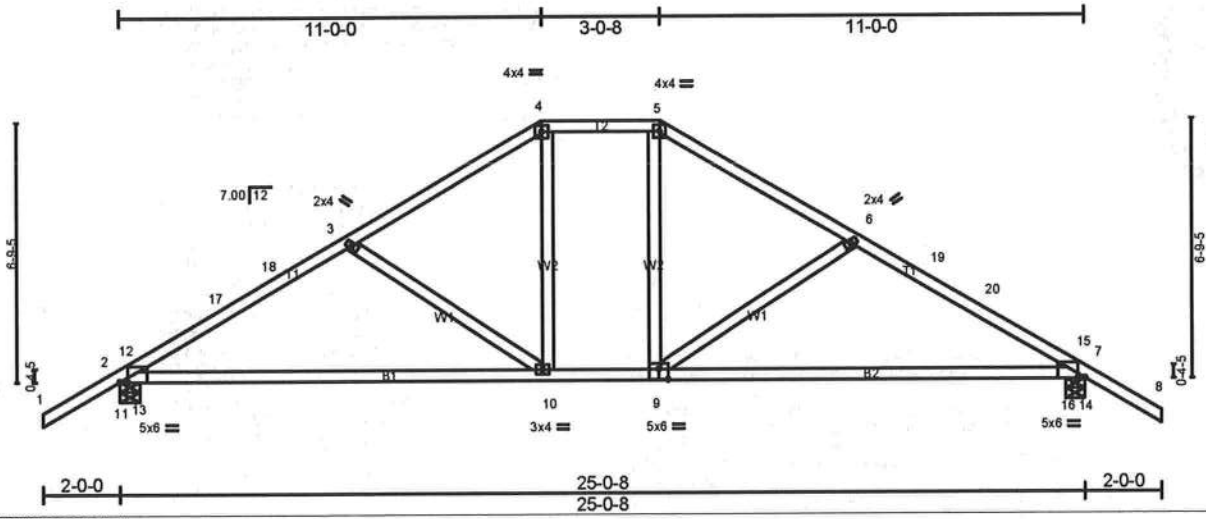


Plate Offsets (X,Y): [2:0-2-5,0-0-2], [7:0-2-5,0-0-2], [9:0-3-0,0-3-4]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.26 | Vert(LL) | -0.22 | 10-13 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.64 | Vert(TL) | -0.58 | 10-13 | >522 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.21 | Horz(TL) | 0.05 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | -0.11 | 10-13 | >999 | 240 | Weight: 123 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 4-11-6 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS** (lb/size)
11 = 1092/0-6-0 (min. 0-1-8)
14 = 1092/0-6-0 (min. 0-1-8)
Max Horz
11 = -150(LC 7)
Max Uplift
11 = -235(LC 9)
14 = -235(LC 9)
Max Grav
11 = 1092(LC 1)
14 = 1092(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-12=-1434/40, 12-17=-1456/486,
17-18=-1386/495, 3-18=-1323/506,
3-4=-1175/422, 4-5=-953/406, 5-6=-1182/423,
6-19=-1326/505, 19-20=-1389/494,
15-20=-1459/485, 7-15=-1405/50
TOP CHORD
2-12=-1434/40, 12-17=-1456/486,
17-18=-1386/495, 3-18=-1323/506,
3-4=-1175/422, 4-5=-953/406, 5-6=-1182/423,
6-19=-1326/505, 19-20=-1389/494,
15-20=-1459/485, 7-15=-1405/50
BOT CHORD
11-13=-25/1800, 10-13=-300/1197,
9-10=-110/953, 9-16=-325/1199,
14-16=-54/1760
WEBS
3-10=-303/262, 4-10=-79/356, 5-9=-81/356,
6-9=-301/261, 2-11=-1107/257,
12-13=-70/434, 11-12=0/1226, 2-13=-2103/0,
7-14=-1098/258, 15-16=-78/420,
14-15=0/1186, 7-16=-2043/0

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 2-9-10, Interior(1) 2-9-10 to 11-0-0, Exterior(2) 11-0-0 to 14-0-8, Interior(1) 20-9-15 to 27-0-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=235, 14=235.
7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard




**William M. Ranieri, PE FL Lic # 42704**

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | H7 | Hip Truss | 1 | 1 | Job Reference (optional) |

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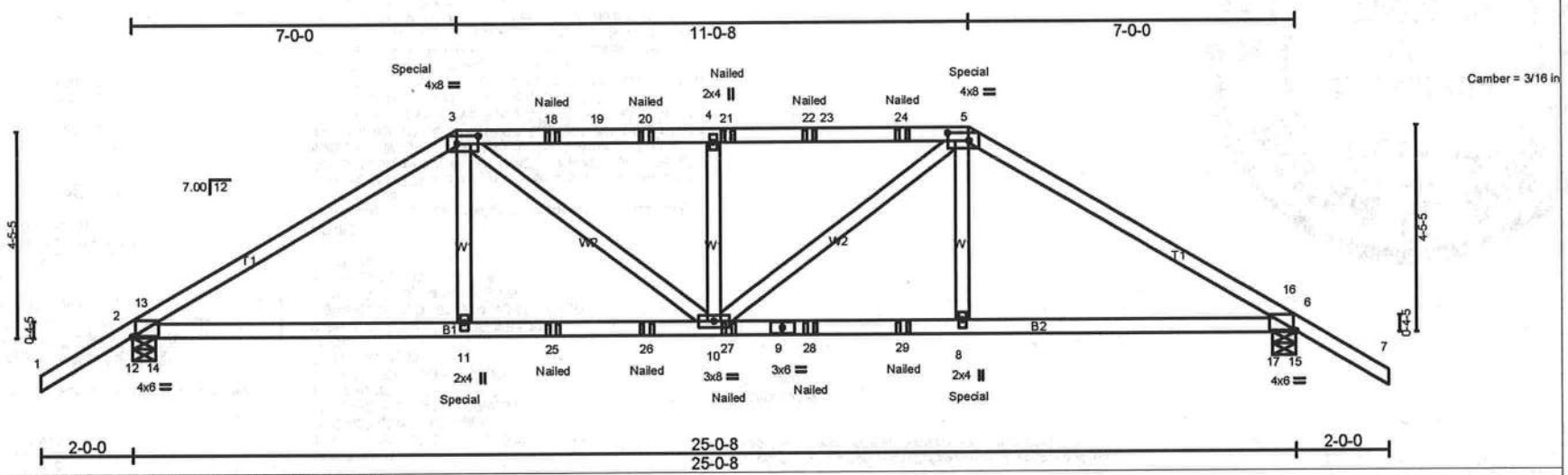


Plate Offsets (X,Y): [2:0-0-13,0-0-2], [3:0-5-8,0-2-0], [5:0-5-8,0-2-0], [6:0-0-13,0-0-2]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.65 | Vert(LL) | -0.12 | 10 | >999 | 360 | | |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.61 | Vert(TL) | -0.29 | 8-10 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.17 | Horz(TL) | 0.10 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.10 | 10 | >999 | 240 | Weight: 121 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2

**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 3-0-13 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 8-9-13 oc bracing.

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

**REACTIONS** (lb/size)
12 = 1824/0-6-0 (min. 0-2-2)
15 = 1840/0-6-0 (min. 0-2-3)
Max Horz
12 = 96(LC 6)
Max Uplift
12 = -492(LC 7)
15 = -497(LC 7)
Max Grav
12 = 1824(LC 1)
15 = 1840(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-13=-1477/275, 3-13=-2890/724,
3-18=-3011/823, 18-19=-3011/823,
19-20=-3011/823, 4-20=-3011/823,
4-21=-3011/823, 21-22=-3011/823,
22-23=-3011/823, 23-24=-3011/823,
TOP CHORD
2-13=-1477/275, 3-13=-2890/724,
3-18=-3011/823, 18-19=-3011/823,
19-20=-3011/823, 4-20=-3011/823,
4-21=-3011/823, 21-22=-3011/823,
22-23=-3011/823, 23-24=-3011/823,
5-24=-3011/823, 5-16=-2923/734,
6-16=-1478/278
BOT CHORD
12-14=-349/1703, 11-14=-514/2406,
11-25=-514/2423, 25-26=-514/2423,
10-26=-514/2423, 10-27=-503/2452,
9-27=-503/2452, 9-28=-503/2452,
28-29=-503/2452, 8-29=-503/2452,
8-17=-504/2435, 15-17=-328/1696
WEBS
3-11=0/607, 3-10=-221/735, 4-10=-627/327,
5-10=-218/699, 5-8=0/628, 2-12=-1462/427,
13-14=-487/294, 12-13=-19/764,
2-14=-946/139, 6-15=-1463/428,
16-17=-490/293, 15-16=0/742, 6-17=-961/132

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights); Lumber DOL=1.60 plate grip DOL=1.60
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 1-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=492, 15=497.
7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
8) "Nailed" indicates 3-10d or 3-12d common wire toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 146 lb down and 165 lb up at 7-0-0, and 146 lb down and 154 lb up at 18-0-8 on top chord, and 335 lb down and 60 lb up at 7-0-0, and 335 lb down and 60 lb up at 17-11-12 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) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-5=-54, 5-7=-54, 12-15=-20
Concentrated Loads (lb)
Vert: 3=-146(B) 5=-146(B) 11=-335(B) 8=-335(B) 18=-87(B) 20=-87(B) 21=-87(B) 22=-87(B) 24=-87(B) 25=-39(B) 26=-39(B) 27=-39(B) 28=-39(B) 29=-39(B)




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | H3 | Common Truss | 2 | 1 | Job Reference (optional) |

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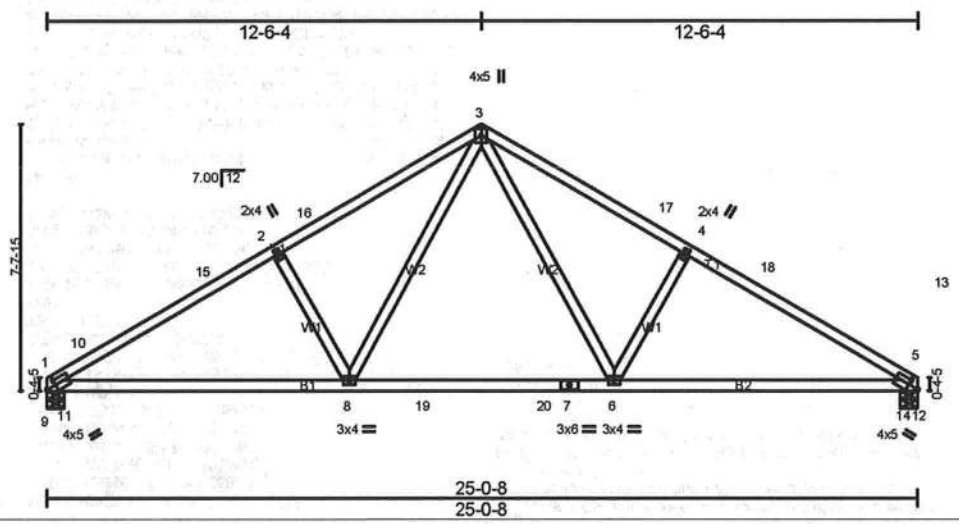


Plate Offsets (X,Y): [1:0-3-8,0-1-12], [5:0-3-8,0-1-12]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.24 | Vert(LL) | -0.18 | 6-8 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.55 | Vert(TL) | -0.27 | 6-8 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.20 | Horz(TL) | 0.05 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.05 | 8-11 | >999 | 240 | Weight: 117 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 4-10-14 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 8-3-13 oc bracing.

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

**REACTIONS** (lb/size)
9 = 996/0-6-0 (min. 0-1-8)
12 = 996/0-6-0 (min. 0-1-8)
Max Horz
9 = -168(LC 7)
Max Uplift
9 = -161(LC 9)
12 = -161(LC 9)
Max Grav
9 = 996(LC 1)
12 = 996(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-10=-1135/383, 10-15=-1539/425,
2-15=-1389/439, 2-16=-1381/448,
3-16=-1293/471, 3-17=-1293/471,
4-17=-1381/448, 4-18=-1389/439,
13-18=-1539/425, 5-13=-1135/383
TOP CHORD
1-10=-1135/383, 10-15=-1539/425,
2-15=-1389/439, 2-16=-1381/448,
3-16=-1293/471, 3-17=-1293/471,
4-17=-1381/448, 4-18=-1389/439,
13-18=-1539/425, 5-13=-1135/383
BOT CHORD
9-11=-580/1428, 8-11=-289/1260,
8-19=-94/854, 19-20=-94/854, 7-20=-94/854,
6-7=-94/854, 6-14=-289/1260,
12-14=-580/1428
WEBS
3-6=-168/571, 4-6=-300/245, 3-8=-168/571,
2-8=-300/245, 1-9=-890/334, 10-11=-331/311,
9-10=-336/679, 1-11=-1222/527,
5-12=-890/334, 13-14=-331/311,
12-13=-336/679, 5-14=-1222/527

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) 0-0-0 to 4-9-10, Interior(1) 4-9-10 to 12-6-4, Exterior(2) 12-6-4 to 17-3-14 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=161, 12=161.
6) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | H1 | Common Truss | 3 | 1 | Job Reference (optional) |

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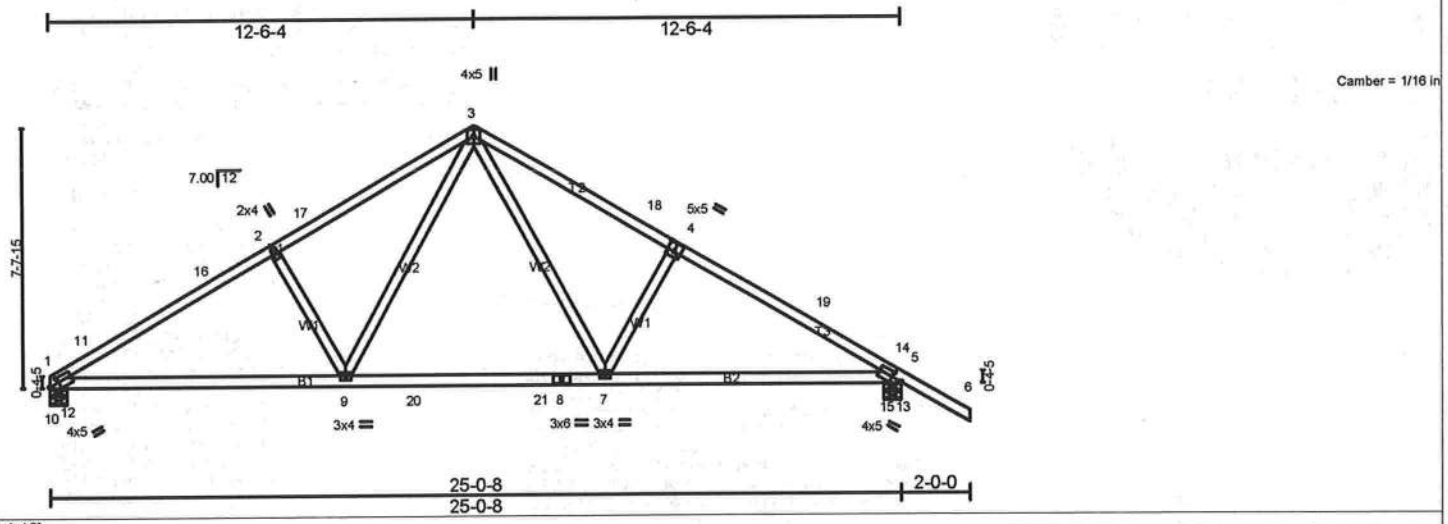


Plate Offsets (X,Y): [1:0-3-8,0-1-12], [4:0-2-8,0-3-0], [5:0-3-8,0-1-12]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.24 | Vert(LL) | -0.19 | 7-9 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.56 | Vert(TL) | -0.28 | 7-9 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.21 | Horz(TL) | 0.05 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.04 | 9-12 | >999 | 240 | Weight: 120 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 4-10-12 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
8-6-4 oc bracing: 10-12.

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

**REACTIONS** (lb/size)
10 = 999/0-6-0 (min. 0-1-8)
13 = 1110/0-6-0 (min. 0-1-8)
Max Horz
10 = -187(LC 7)
Max Uplift
10 = -160(LC 9)
13 = -236(LC 9)
Max Grav
10 = 999(LC 1)
13 = 1110(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-11=-1133/377, 11-16=-1546/424,
2-16=-1396/438, 2-17=-1388/447,
3-17=-1300/470, 3-18=-1296/458,
4-18=-1384/435, 4-19=-1462/427,
TOP CHORD
1-11=-1133/377, 11-16=-1546/424,
2-16=-1396/438, 2-17=-1388/447,
3-17=-1300/470, 3-18=-1296/458,
4-18=-1384/435, 4-19=-1462/427,
14-19=-1544/411, 5-14=-1010/121
BOT CHORD
10-12=-553/1424, 9-12=-245/1266,
9-20=-59/858, 20-21=-59/858, 8-21=-59/858,
7-8=-59/858, 7-15=-253/1263,
13-15=-172/1235
WEBS
3-7=-164/568, 4-7=-296/244, 3-9=-169/577,
2-9=-299/245, 1-10=-889/331,
11-12=-334/310, 10-11=-326/678,
1-12=-1222/529, 5-13=-982/360,
14-15=-272/306, 13-14=-33/641,
5-15=-1209/120

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) 0-0-0 to 4-9-10, Interior(1) 4-9-10 to 12-6-4, Exterior(2) 12-6-4 to 17-3-14 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=160, 13=236.
6) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | G18 | Hip Truss | 1 | 1 | Job Reference (optional) |

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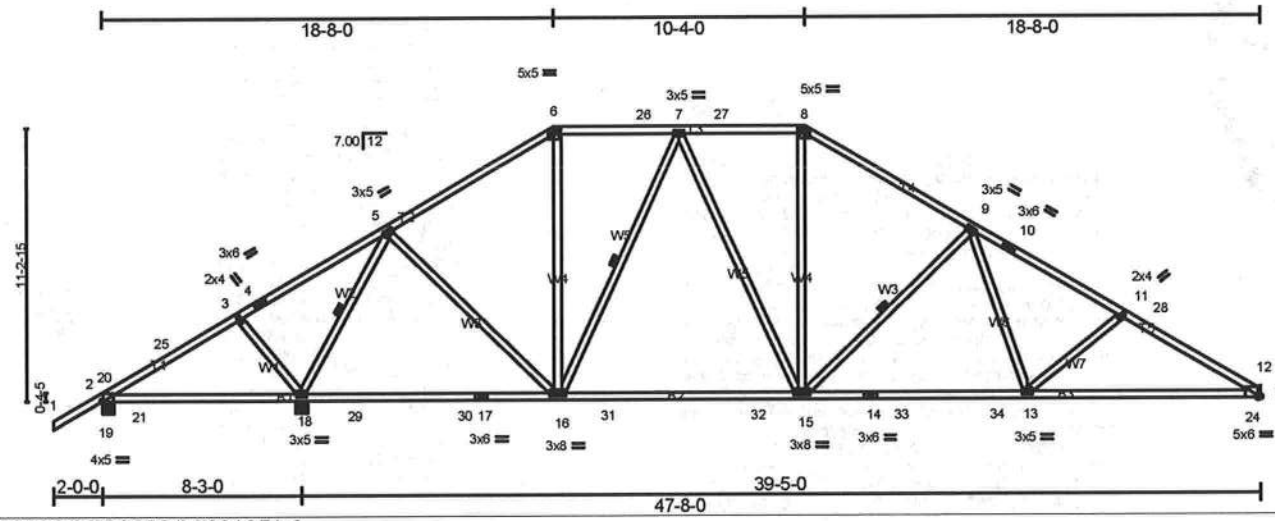


Plate Offsets (X,Y): [2:0-0-8,Edge], [6:0-2-8,0-2-1], [8:0-2-8,0-2-1], [12:0-1-3,Edge]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.42 | Vert(LL) | -0.36 | 15-16 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.85 | Vert(TL) | -0.61 | 15-16 | >773 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.72 | Horz(TL) | 0.09 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.10 | 13-15 | >999 | 240 | Weight: 284 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2 *Except*
W1,W2,W6,W7: 2 X 4 SYP No.3

**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 3-8-5 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS
1 Row at midpt 5-18, 7-16, 9-15

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

**REACTIONS** (lb/size)
19 = 45/0-6-0 (min. 0-1-8)
18 = 2571/0-6-0 (min. 0-3-1)
22 = 1608/Mechanical
Max Horz
19 = 270(LC 8)
Max Uplift
19 = -71(LC 9)
18 = -375(LC 9)
22 = -240(LC 9)
Max Grav
19 = 45(LC 1)
18 = 2571(LC 1)
22 = 1608(LC 1)

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

TOP CHORD
2-20=-335/95, 20-25=-147/509,
3-25=-127/588, 3-4=-152/643, 4-5=-128/795,
5-6=-1378/501, 6-26=-1105/497,
7-26=-1105/497, 7-27=-1499/607,
8-27=-1499/607, 8-9=-1833/624,
9-10=-2368/717, 10-11=-2521/703,
11-28=-2623/764, 23-28=-2749/753,
12-23=-1524/398
BOT CHORD
19-21=-62/563, 18-21=-440/191,
18-29=-82/440, 29-30=-82/440,
17-30=-82/440, 16-17=-82/440,
16-31=-174/1368, 31-32=-174/1368,
15-32=-174/1368, 14-15=-416/1970,
14-33=-416/1970, 33-34=-416/1970,
13-34=-416/1970, 13-24=-575/2311,
22-24=-508/1726
WEBS
3-18=-273/197, 5-18=-2292/678,
5-16=-106/931, 6-16=-63/344, 7-16=-633/251,
7-15=-39/315, 8-15=-125/576,
9-15=-674/330, 9-13=-62/462,
11-13=-258/214, 2-19=-304/191,
19-20=-173/650, 2-21=-940/197,
12-22=-1184/346, 23-24=-412/303,
22-23=-73/575, 12-24=-1221/229

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.

2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 2-9-10, Interior(1) 2-9-10 to 18-8-0, Exterior(2) 18-8-0 to 35-10-2, Interior(1) 35-10-2 to 47-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19 except (jt=lb) 18=375, 22=240.
8) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard

WILLIAM M. RANIERI LICENSE No. 42704 STATE OF FLORIDA PROFESSIONAL ENGINEER



**William M. Ranieri, PE FL Lic # 42704**

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | G14 | Hip Truss | 1 | 1 | Job Reference (optional) |

ProBuild, Lady Lake, FL 32159, J. Jonas

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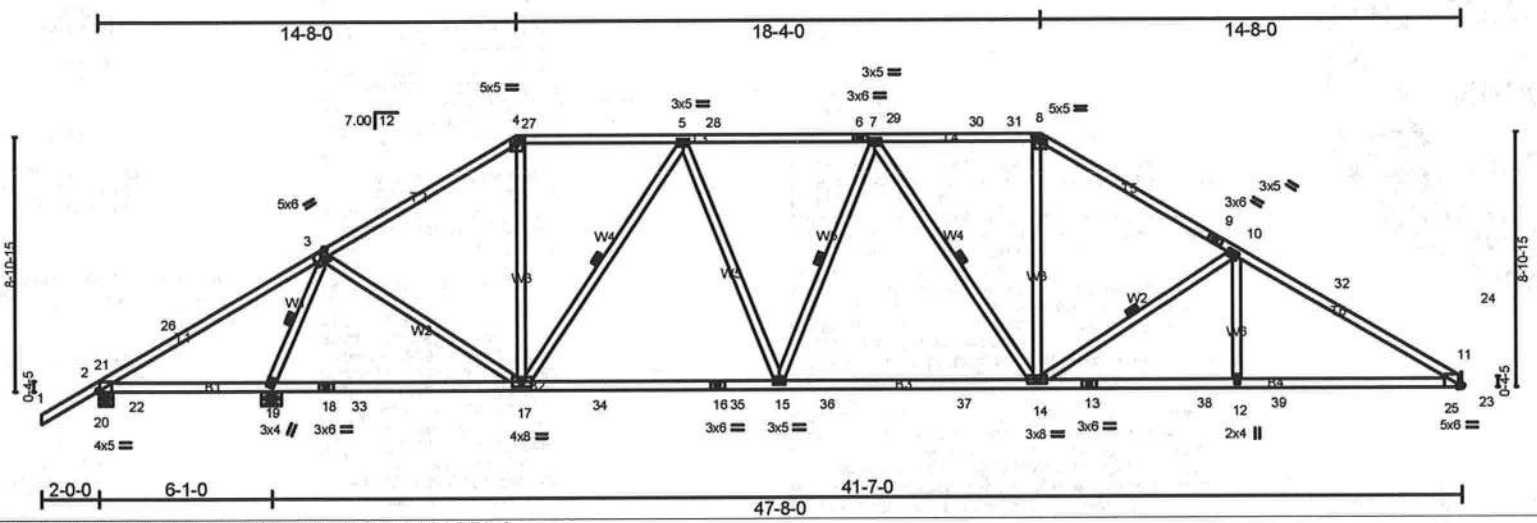


Plate Offsets (X,Y): [2:0-0-8,Edge], [3:0-2-8,0-3-0], [4:0-2-8,0-2-1], [8:0-2-8,0-2-1], [11:0-1-3,Edge]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.54 | Vert(LL) | -0.31 | 14-15 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.88 | Vert(TL) | -0.58 | 14-15 | >867 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.49 | Horz(TL) | 0.11 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.11 | 14 | >999 | 240 | Weight: 271 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2 *Except*
W1,W2,W6: 2 X 4 SYP No.3

**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 3-4-1 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS
1 Row at midpt
3-19, 5-17, 7-15, 7-14, 10-14

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

**REACTIONS** (lb/size)
20 = -137/0-6-0 (min. 0-1-8)
19 = 2576/0-8-8 (min. 0-3-1)
23 = 1727/Mechanical
Max Horz
20 = 216(LC 8)
Max Uplift
20 = -137(LC 1)
19 = -354(LC 9)
23 = -260(LC 9)
Max Grav
19 = 2576(LC 1)
23 = 1727(LC 1)

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

TOP CHORD
2-21=-289/93, 21-26=-262/937, 3-26=-234/1073, 3-4=-1530/523, 4-27=-1235/509, 5-27=-1235/509, 5-28=-2042/703, 28-29=-2042/703, 6-29=-2042/703, 6-7=-2042/703, 7-30=-1930/696, 30-31=-1930/696, 8-31=-1930/696, 8-9=-2222/728, 9-10=-2325/701, 10-32=-2778/794, 24-32=-2896/778, 11-24=-1848/638
BOT CHORD
20-22=-319/639, 19-22=-836/309, 17-34=-348/1830, 16-34=-348/1830, 16-35=-348/1830, 15-35=-348/1830, 15-36=-420/2087, 36-37=-420/2087, 14-37=-420/2087, 13-14=-589/2415, 13-38=-589/2415, 12-38=-589/2415, 12-39=-589/2415, 25-39=-589/2415, 23-25=-928/2244
WEBS
3-19=-2553/794, 3-17=-229/1355, 4-17=-74/422, 5-17=-1082/334, 5-15=-61/588, 7-14=-284/125, 8-14=-177/818, 10-14=-598/282, 10-12=0/271, 2-20=-387/349, 21-22=-184/264, 20-21=-537/1067, 2-22=-1326/682, 11-23=-1434/534, 24-25=-549/422, 23-24=-490/506, 11-25=-1306/801

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.

2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 2-9-10, Interior(1) 2-9-10 to 14-8-0, Exterior(2) 14-8-0 to 39-10-1, Interior(1) 39-10-1 to 47-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=137, 19=354, 23=260.
8) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | G10 | Special Truss | 1 | 1 | Job Reference (optional) |

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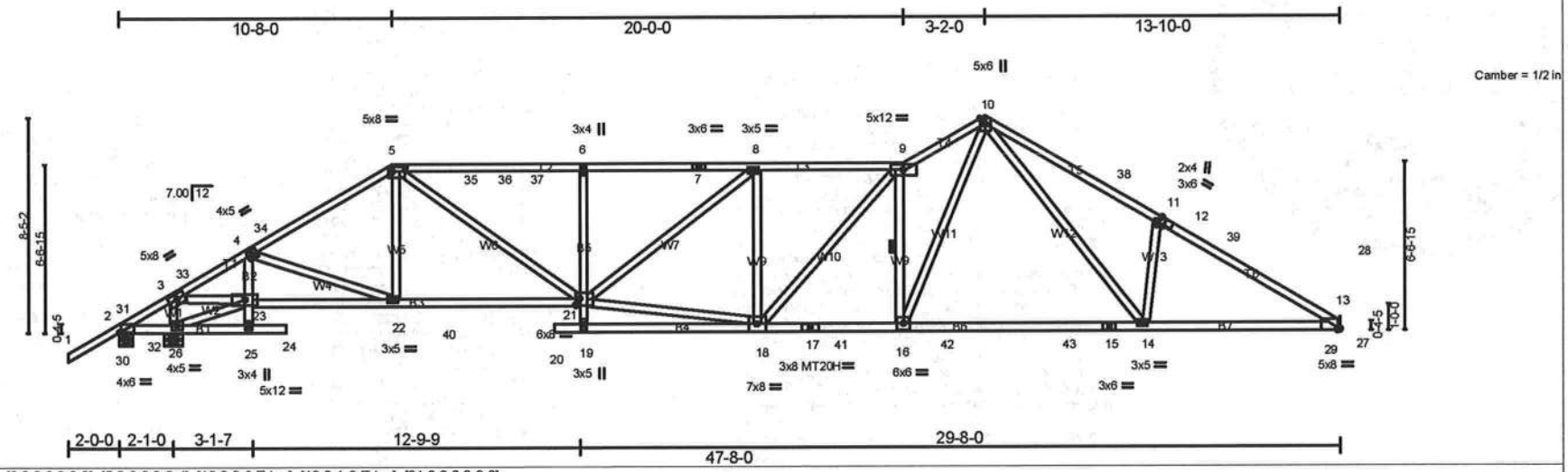


Plate Offsets (X,Y): [2:0-0-9,0-0-2], [5:0-6-0,0-2-4], [12:0-2-6,Edge], [13:0-1-3,Edge], [21:0-2-0,0-3-0]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.83 | Vert(LL) | -0.50 | 14-16 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.87 | Vert(TL) | -0.98 | 14-16 | >560 | 180 | MT20H | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.85 | Horz(TL) | 0.18 | 13 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.25 | 16-18 | >999 | 240 | Weight: 292 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2 *Except*
T2: 2 X 4 SYP M 30
BOT CHORD 2 X 4 SYP No.2 *Except*
B6: 2 X 4 SYP M 30
WEBS 2 X 4 SYP No.2

**BRACING**
TOP CHORD
Structural wood sheathing directly applied.
BOT CHORD
Rigid ceiling directly applied or 3-4-13 oc bracing. Except:
6-0-0 oc bracing: 23-25
10-0-0 oc bracing: 19-21
WEBS
1 Row at midpt 9-16

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

**REACTIONS** (lb/size)
27 = 1830/Mechanical
30 = -1656/0-6-0 (min. 0-1-8)
26 = 3881/0-8-8 (min. 0-4-9)
Max Horz
30 = 204(LC 8)
Max Uplift
27 = -278(LC 9)
30 = -1656(LC 1)
26 = -537(LC 9)
Max Grav
27 = 1830(LC 1)
30 = 152(LC 9)
26 = 3881(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-31=-589/1424, 3-31=-892/3323, 3-33=-1074/278, 4-33=-1055/290, 4-34=-2361/665, 5-34=-2284/686, 5-35=-3318/1026, 35-36=-3318/1026, 36-37=-3318/1026, 6-37=-3318/1026, 6-7=-3286/1015, 7-8=-3286/1015, 8-9=-3194/992, 9-10=-3702/1129, 10-38=-3050/972, 11-38=-3147/946, 11-12=-3008/825, 12-39=-3026/824, 28-39=-3189/810, 13-28=-1729/646
BOT CHORD
30-32=-1283/600, 26-32=-2821/780, 4-23=-1206/405, 22-23=-218/928, 22-40=-396/1966, 21-40=-396/1966, 6-21=-411/255, 17-18=-685/3135, 17-41=-685/3135, 16-41=-685/3135, 16-42=-429/2170, 42-43=-429/2170, 15-43=-429/2170, 14-15=-429/2170, 14-29=-624/2673, 27-29=-907/2014
WEBS
23-26=-2884/815, 4-22=-230/1102, 5-21=-478/1656, 18-21=-707/2988, 8-18=-431/222, 9-16=-2081/741, 10-16=-729/2681, 10-14=-267/763, 11-14=-344/292, 3-26=-2655/723, 3-23=-961/3711, 13-27=-1367/529, 28-29=-627/367, 27-28=-443/266, 13-29=-807/756, 2-30=-185/813,
WEBS
23-26=-2884/815, 4-22=-230/1102, 5-21=-478/1656, 18-21=-707/2988, 8-18=-431/222, 9-16=-2081/741, 10-16=-729/2681, 10-14=-267/763, 11-14=-344/292, 3-26=-2655/723, 3-23=-961/3711, 13-27=-1367/529, 28-29=-627/367, 27-28=-443/266, 13-29=-807/756, 2-30=-185/813, 30-31=-220/830, 2-32=-464/114

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 2-9-10, Interior(1) 2-9-10 to 10-8-0, Exterior(2) 10-8-0 to 15-5-10, Interior(1) 30-8-0 to 47-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 27=278, 30=1656, 26=537.
9) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
10) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | G7 | Hip Truss | 1 | 1 | Job Reference (optional) |

ProBuild, Lady Lake, FL 32159, J. Jonas

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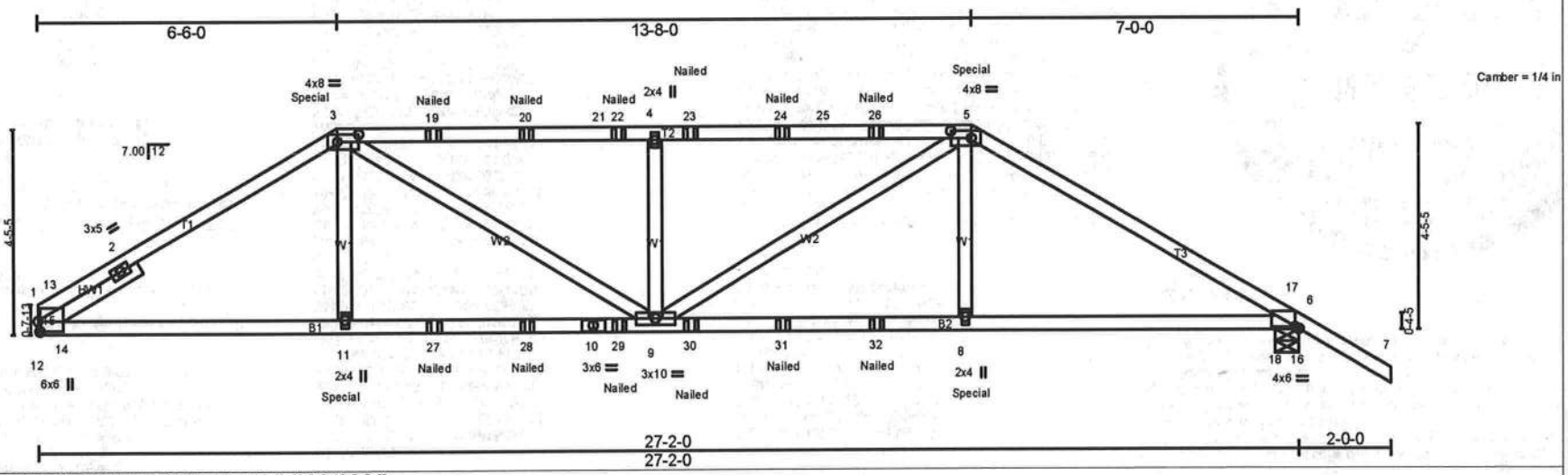


Plate Offsets (X,Y): [1:0-2-8,0-0-8], [3:0-5-8,0-2-0], [5:0-5-8,0-2-0], [6:0-0-13,0-0-6]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.87 | Vert(LL) | -0.15 | 9-11 | >999 | 360 | | |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.88 | Vert(TL) | -0.41 | 9-11 | >793 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.30 | Horz(TL) | 0.12 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.13 | 9-11 | >999 | 240 | Weight: 131 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2 *Except*
T2: 2 X 4 SYP M 31
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2
SLIDER
Left 2 X 4 SYP No.2 2-6-0
**BRACING**
TOP CHORD
Structural wood sheathing directly applied.
BOT CHORD
Rigid ceiling directly applied or 8-5-5 oc bracing.

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

**REACTIONS** (lb/size)
12 = 1869/Mechanical
16 = 1971/0-6-0 (min. 0-2-5)
Max Horz
12 = -109(LC 5)
Max Uplift
12 = -456(LC 7)
16 = -529(LC 7)
Max Grav
12 = 1869(LC 1)
16 = 1971(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-13=-1260/232, 2-13=-1153/223,
2-3=-3066/789, 3-19=-3545/960,
TOP CHORD
1-13=-1260/232, 2-13=-1153/223,
2-3=-3066/789, 3-19=-3545/960,
19-20=-3545/960, 20-21=-3545/960,
21-22=-3545/960, 4-22=-3545/960,
4-23=-3545/960, 23-24=-3545/960,
24-25=-3545/960, 25-26=-3545/960,
5-26=-3545/960, 5-17=-3190/796,
6-17=-1542/302
BOT CHORD
12-14=-280/1102, 11-14=-545/2577,
11-27=-544/2593, 27-28=-544/2593,
10-28=-544/2593, 10-29=-544/2593,
9-29=-544/2593, 9-30=-552/2685,
30-31=-552/2685, 31-32=-552/2685,
8-32=-552/2685, 8-18=-553/2667,
16-18=-349/1731
WEBS
3-11=0/615, 3-9=-328/1114, 4-9=-796/408,
5-9=-284/1007, 5-8=0/651, 1-12=-1075/206,
1-15=-114/507, 12-15=-791/269,
2-15=-1960/554, 6-16=-1514/445,
17-18=-518/289, 16-17=-35/736,
6-18=-948/122

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights); Lumber DOL=1.60 plate grip DOL=1.60
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 1-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=456, 16=529.
8) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
9) "Nailed" indicates 3-10d or 3-12d common wire toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 146 lb down and 154 lb up at 6-6-0, and 146 lb down and 154 lb up at 20-2-0 on top chord, and 335 lb down and 60 lb up at 6-6-0, and 335 lb down and 60 lb up at 20-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
11) 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) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-5=-54, 5-7=-54, 12-16=-20
Concentrated Loads (lb)
Vert: 3=-146(B) 5=-146(B) 11=-335(B) 8=-335(B) 19=-87(B) 20=-87(B) 22=-87(B) 23=-87(B) 24=-87(B) 26=-87(B) 27=-39(B) 28=-39(B) 29=-39(B) 30=-39(B) 31=-39(B) 32=-39(B)

WILLIAM M. RANIERI LICENSE No. 42704 STATE OF FLORIDA PROFESSIONAL ENGINEER



William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | G4 | Special Truss | 1 | 1 | Job Reference (optional) |

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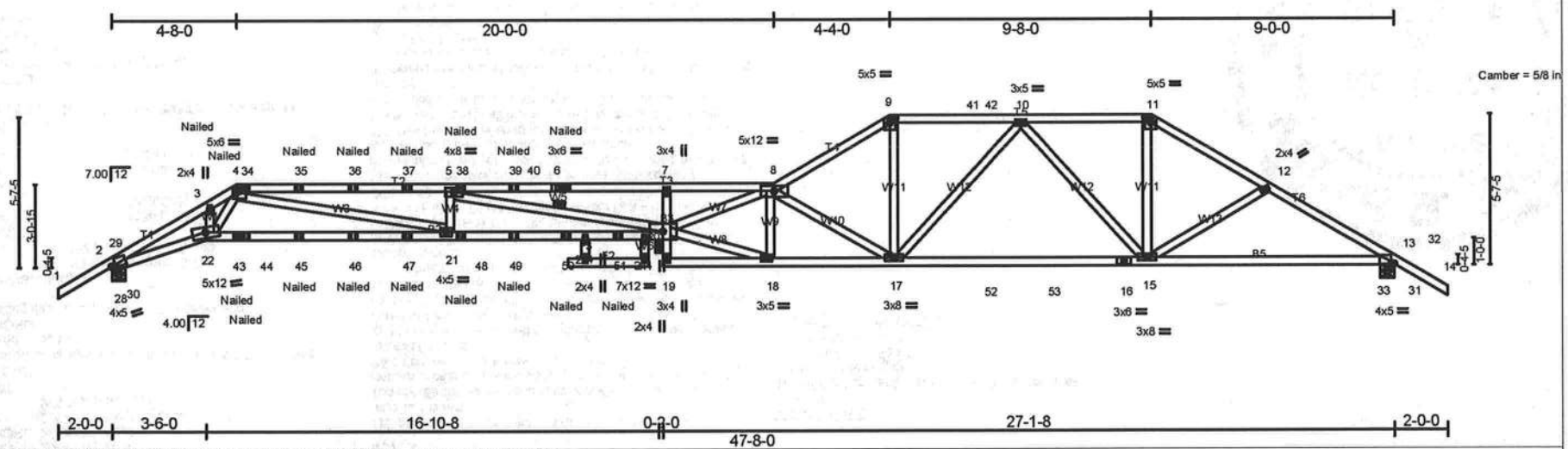



Plate Offsets (X,Y): [2:0-1-12,0-0-13], [4:0-4-0,0-2-4], [9:0-2-8,0-2-1], [11:0-2-8,0-2-1], [13:0-1-5,0-0-2]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.88 | Vert(LL) | -0.30 | 21-22 | >825 | 360 | | |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.78 | Vert(TL) | -0.90 | 21-22 | >277 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.89 | Horz(TL) | 0.19 | 13 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.25 | 21-22 | >998 | 240 | Weight: 259 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2 *Except* T2: 2 X 4 SYP M 30
BOT CHORD 2 X 4 SYP No.2 *Except* B2: 2 X 4 SYP M 31
WEBS 2 X 4 SYP No.2 *Except* W5: 2 X 4 SYP M 30

**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 3-0-9 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
9-5-12 oc bracing: 22-30
6-0-0 oc bracing: 18-19.
WEBS
1 Row at midpt 5-20

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

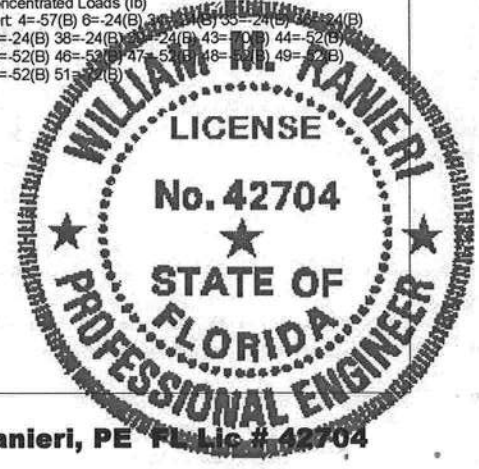
**REACTIONS** (lb/size)
28 = 1054/0-6-0 (min. 0-1-8)
20 = 2499/0-3-0 (min. 0-2-1)
31 = 1021/0-6-0 (min. 0-1-8)
Max Horz
28 = -123(LC 5)
Max Uplift
28 = -288(LC 7)
20 = -502(LC 7)
31 = -224(LC 7)
Max Grav
28 = 1054(LC 1)
20 = 2499(LC 1)
31 = 1021(LC 1)

Max Grav
28 = 1054(LC 1)
20 = 2499(LC 1)
31 = 1021(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-29=-584/83, 3-29=-2942/504, 3-4=-2593/470, 4-34=-2333/565, 34-35=-2333/565, 35-36=-2333/565, 36-37=-2333/565, 5-37=-2333/565, 5-38=-289/1791, 38-39=-289/1791, 39-40=-289/1791, 6-40=-289/1791, 6-7=-289/1791, 7-8=-322/1887, 8-9=-878/169, 9-41=-716/176, 41-42=-716/176, 10-42=-716/176, 10-11=-995/220, 11-12=-1205/222, 12-32=-1428/267, 13-32=-900/0
BOT CHORD
28-30=-104/406, 22-30=-440/2567, 22-43=-379/1970, 43-44=-379/1970, 44-45=-379/1970, 45-46=-379/1970, 46-47=-379/1970, 21-47=-379/1970, 21-48=-460/2333, 48-49=-460/2333, 49-50=-460/2333, 50-51=-460/2333, 20-51=-460/2333, 7-20=-405/147, 17-18=0/354, 17-52=-38/982, 52-53=-38/982, 16-53=-38/982, 15-16=-38/982, 15-33=-125/1183, 31-33=0/1071
WEBS
3-22=-145/427, 4-21=-164/373, 5-21=0/504, 3-22=-145/427, 4-21=-164/373, 5-21=0/504, 5-20=-4224/860, 18-20=0/334, 8-20=-2204/412, 8-17=-69/691, 10-17=-403/107, 11-15=-18/350, 4-22=-84/794, 2-28=-653/205, 29-30=-893/215, 28-29=-680/128, 2-30=-105/618, 13-31=-820/129, 31-32=-16/512, 13-33=-1016/0

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights); Lumber DOL=1.60 plate grip DOL=1.60
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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Bearing at joint(s) 28 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 28=288, 20=502, 31=224.
8) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
9) "Nailed" indicates 3-10d or 2-12d common wire toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
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) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-8=-54, 8-9=-54, 9-11=-54, 11-14=-54, 22-28=-20, 20-22=-20, 19-52=-20, 52-53=-60, 31-53=-20
Concentrated Loads (lb)
Vert: 4=-57(B) 6=-24(B) 37=-24(B) 38=-24(B) 43=-24(B) 44=-52(B) 45=-52(B) 46=-52(B) 47=-52(B) 48=-52(B) 49=-52(B) 50=-52(B) 51=-52(B)






William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | FG | Half Hip Truss | 1 | 2 | Job Reference (optional) |

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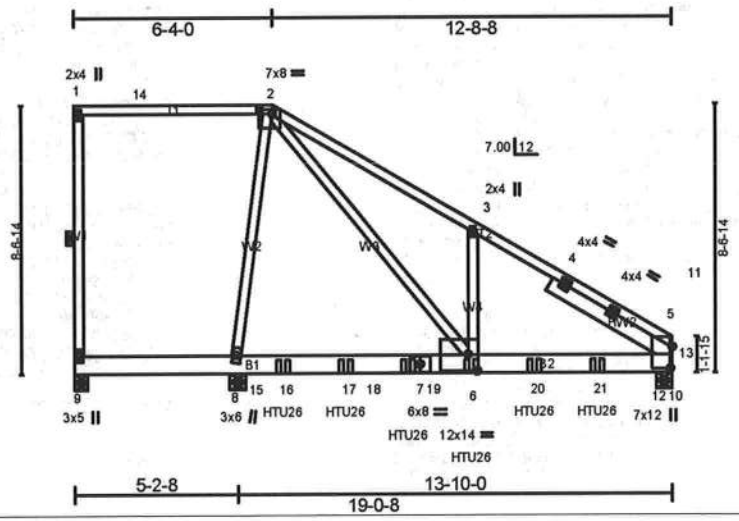


Camber = 1/8 in

Plate Offsets (X,Y): [2:0-5-0,0-1-12], [5:0-8-2,0-0-11], [6:0-3-8,0-6-4]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.60 | Vert(LL) | -0.15 | 6-8 | >999 | 360 | | |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.87 | Vert(TL) | -0.27 | 6-8 | >609 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.77 | Horz(TL) | 0.01 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.07 | 6-8 | >999 | 240 | Weight: 289 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 8 SYP 2400F 2.0E *Except*
B2: 2 X 8 SYP No.2
WEBS 2 X 4 SYP No.2
SLIDER

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

**REACTIONS** (lb/size)
9 = -484/0-5-0 (min. 0-1-8)
10 = 5353/0-6-0 (min. 0-3-3)
8 = 7682/0-6-0 (min. 0-3-3)
Max Horz
9 = -220(LC 7)
Max Uplift
9 = -484(LC 1)
10 = -741(LC 7)
8 = -1175(LC 7)
Max Grav
9 = 152(LC 5)
10 = 5353(LC 1)
8 = 7682(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-3=-6486/1028, 3-4=-6506/909, 4-11=-3699/490, 5-11=-3781/535
BOT CHORD
8-15=-126/524, 15-16=-126/524, 16-17=-126/524, 17-18=-126/524, 18-19=-126/524, 7-19=-126/524, 6-7=-126/524, 6-20=-709/5549, 20-21=-709/5549, 12-21=-709/5549, 10-12=-449/3400
WEBS
2-8=-3589/687, 2-6=-1340/8145, 5-10=-3458/511, 12-13=-618/3590, 5-13=-379/2888, 10-13=-4657/609, 4-13=-2904/404

**NOTES**
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 8 - 2 rows at 0-6-0 oc.
Webs connected as follows: 2 X 4 - 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) This truss has been checked for uniform roof live load only, except as noted.
4) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights); Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=484, 10=741, 8=1175.
9) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
10) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 6-7-12 from the left end to 16-7-12 to connect truss(es) A6 (1 ply 2 X 4 SYP) to front face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.

**LOAD CASE(S)**
Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-5=-54, 8-9=-60, 8-15=-20, 15-18=-60, 10-18=-20
Concentrated Loads (lb)
Vert: 6=-1816(F) 16=-1776(F) 17=-1776(F) 19=-1816(F) 20=-1817(F) 21=-1801(F)

WILLIAM M. RANIERI LICENSE No. 42704 STATE OF FLORIDA PROFESSIONAL ENGINEER



William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | F19 | Special Truss | 1 | 1 | Job Reference (optional) |

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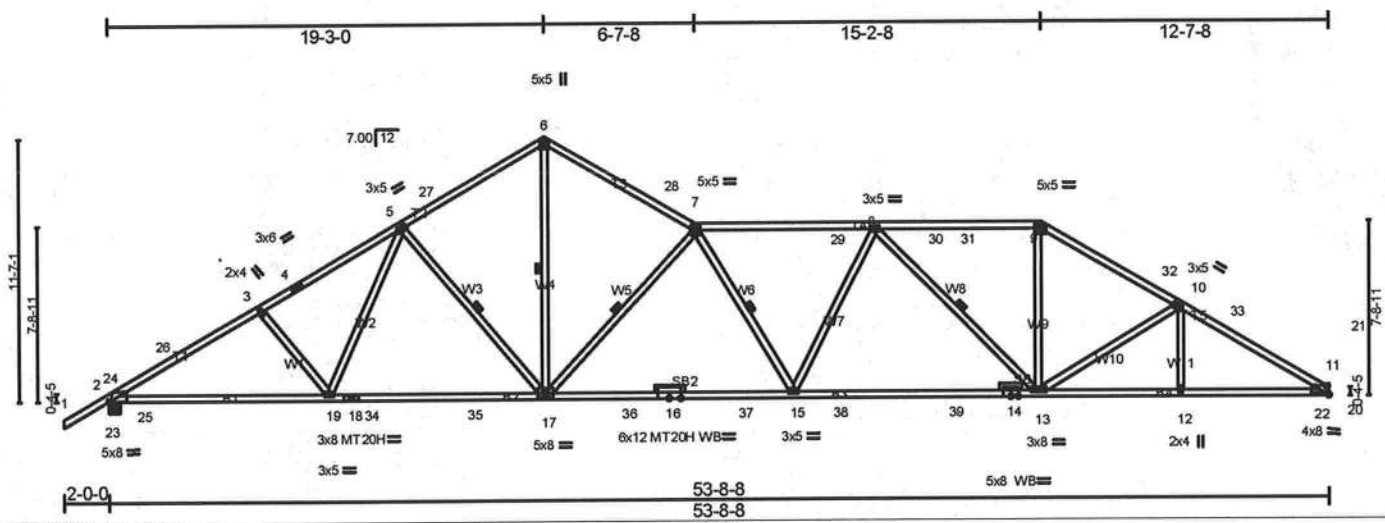


Plate Offsets (X,Y): [2:0-1-8,Edge], [9:0-2-8,0-2-1], [11:0-1-3,Edge]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.69 | Vert(LL) | -0.64 | 13-15 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.94 | Vert(TL) | -1.24 | 13-15 | >521 | 180 | MT20H | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.99 | Horz(TL) | 0.29 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.32 | 15-17 | >999 | 240 | Weight: 306 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2 *Except* T4: 2 X 4 SYP M 30
BOT CHORD 2 X 4 SYP M 31 *Except* B1: 2 X 4 SYP No.2, B4: 2 X 4 SYP M 30
WEBS 2 X 4 SYP No.3 *Except* W3,W4,W5,W6,W8: 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.2

**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 2-5-11 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS
1 Row at midpt
5-17, 6-17, 7-17, 7-15, 8-13

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

**REACTIONS** (lb/size)
20 = 2260/Mechanical
23 = 2410/0-6-0 (min. 0-2-13)
Max Horz
23 = 277(LC 8)
Max Uplift
20 = -345(LC 9)
23 = -419(LC 9)
Max Grav
20 = 2260(LC 1)
23 = 2410(LC 1)

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

TOP CHORD
2-24=-1962/387, 24-26=-4045/1006, 3-26=-3950/1030, 3-4=-3840/1003, 4-5=-3759/1027, 5-27=-3143/911, 6-27=-3052/935, 6-28=-3048/934, 7-28=-3138/914, 7-29=-4266/1192, 8-29=-4266/1192, 8-30=-3067/937, 30-31=-3067/937, 9-31=-3067/937, 9-32=-3523/1022, 10-32=-3608/999, 10-33=-3805/1073, 21-33=-3954/1060, 11-21=-2223/685
BOT CHORD
23-25=-480/2165, 19-25=-795/3412, 18-19=-634/3040, 18-34=-634/3040, 34-35=-634/3040, 17-35=-634/3040, 17-36=-953/4291, 16-36=-953/4291, 16-37=-953/4291, 15-37=-953/4291, 15-38=-909/4013, 38-39=-909/4013, 14-39=-909/4013, 13-14=-909/4013, 12-13=-827/3337, 12-22=-827/3337, 20-22=-919/2620
WEBS
3-19=-265/212, 5-19=-91/526, 5-17=-635/306, 6-17=-729/2731, 7-17=-2485/780, 8-15=0/579, 8-13=-1365/376, 9-13=-313/1455, 10-13=-352/225, 11-20=-1709/558, 21-22=-599/367, 20-21=-281/197, 11-22=-1168/609, 2-23=-1822/551, 24-25=-560/402, 23-24=-94/579, 2-25=-1440/148

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 2-9-10, Interior(1) 2-9-10 to 19-3-0, Exterior(2) 19-3-0 to 24-0-10, Interior(1) 25-10-8 to 53-8-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=345, 23=419.
9) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | F15 | Special Truss | 1 | 1 | Job Reference (optional) |

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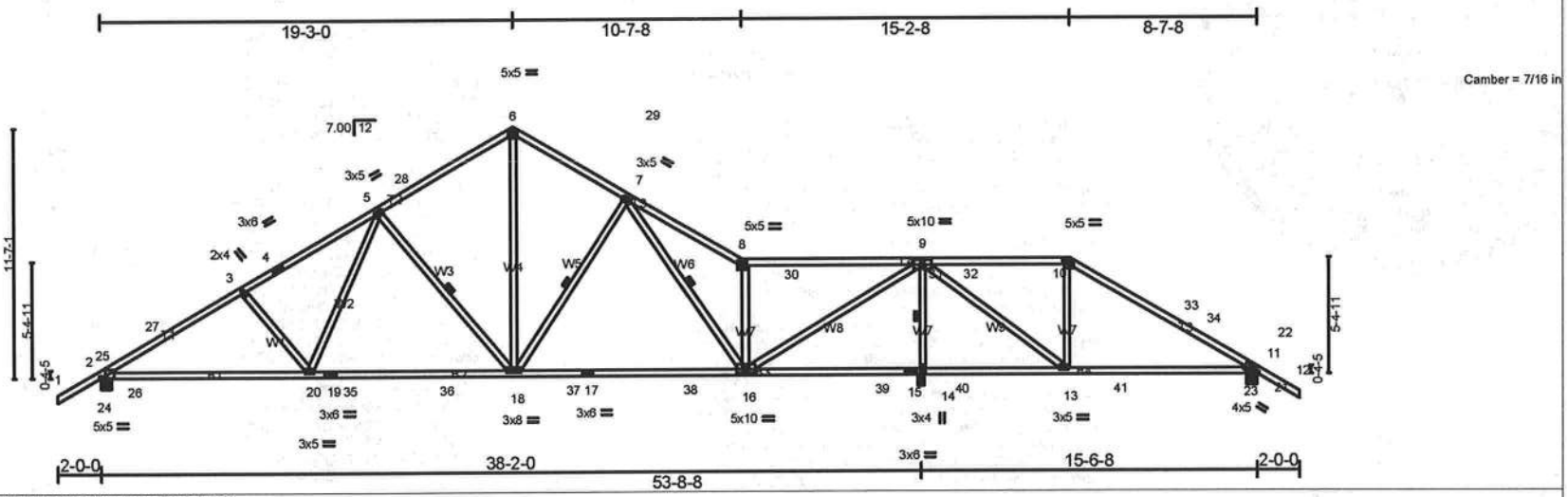


Plate Offsets (X,Y): [2:0-2-5,0-0-2], [10:0-3-0,0-2-4], [11:0-3-0,0-2-0]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.70 | Vert(LL) | -0.51 | 16-18 | >908 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.90 | Vert(TL) | -0.92 | 16-18 | >498 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.90 | Horz(TL) | 0.06 | 14 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.10 | 16-18 | >999 | 240 | Weight: 301 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
W3,W4,W5,W6,W8: 2 X 4 SYP No.2

**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 3-11-3 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 4-6-6 oc bracing.
WEBS
1 Row at midpt 5-18, 7-18, 7-16, 9-14

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

**REACTIONS** (lb/size)
14 = 2971/0-4-0 (min. 0-3-8)
21 = 312/0-6-0 (min. 0-1-8)
24 = 1545/0-6-0 (min. 0-1-13)
Max Horz
24 = -260(LC 7)
Max Uplift
14 = -416(LC 9)
21 = -124(LC 9)
24 = -297(LC 9)
Max Grav
14 = 2971(LC 1)
21 = 312(LC 1)
24 = 1545(LC 1)

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

TOP CHORD
2-25=-1330/197, 25-27=-2368/580, 3-27=-2281/603, 3-4=-2160/575, 4-5=-2004/600, 5-28=-1447/478, 6-28=-1353/502, 6-29=-1416/511, 7-29=-1430/489, 7-8=-1403/513, 8-30=-1124/369, 9-30=-1124/369, 9-31=-21/283, 31-32=-21/283, 10-32=-21/283, 10-33=-40/411, 33-34=-45/280, 11-22=-983/413
BOT CHORD
24-26=-246/1599, 20-26=-359/1970, 19-20=-189/1581, 19-35=-189/1581, 35-36=-189/1581, 18-36=-189/1581, 18-37=-121/1264, 17-37=-121/1264, 17-38=-121/1264, 16-38=-121/1264, 16-39=-1284/447, 15-39=-1284/447, 14-15=-1284/447, 14-40=-1284/447, 13-40=-1284/447, 13-41=-268/218, 23-41=-268/218, 21-23=-832/1700
WEBS
3-20=-283/215, 5-20=-97/543, 5-18=-650/314, 6-18=-327/1078, 8-16=-1005/437, 9-16=-639/2832, 9-14=-2728/790, 9-13=-299/1259, 10-13=-506/236, 11-21=-1056/521, 22-23=-222/428, 21-22=-971/1879, 11-23=-2654/1316, 2-24=-1283/411, 25-26=-354/349, 24-25=-32/733, 2-26=-1453/161

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 2-9-10, Interior(1) 2-9-10 to 19-3-0, Exterior(2) 19-3-0 to 24-0-10, Interior(1) 29-10-8 to 55-8-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=416, 21=124, 24=297.
7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard

WILLIAM M. RANIERI LICENSE No. 42704 STATE OF FLORIDA PROFESSIONAL ENGINEER



William M. Ranieri, PE Fl. Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | F11 | ATTIC TRUSS | 1 | 1 | Job Reference (optional) |

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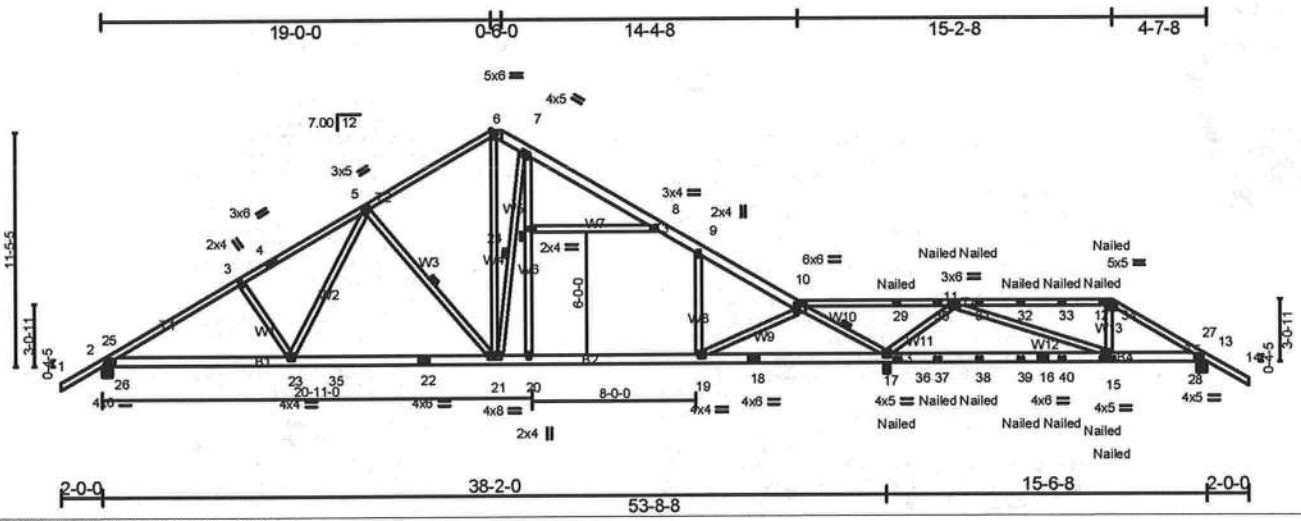


Plate Offsets (X,Y): [2:0-2-12,0-2-0], [6:0-3-0,0-2-5], [10:0-3-12,0-2-0], [12:0-2-8,0-2-1]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.99 | Vert(LL) | -0.25 | 19-20 | >999 | 360 | | |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.71 | Vert(TL) | -0.40 | 19-20 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.63 | Horz(TL) | 0.06 | 17 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.09 | 19-20 | >999 | 240 | Weight: 366 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2 *Except*
T3: 2 X 6 SYP No.2, T4: 2 X 4 SYP M 30
BOT CHORD 2 X 6 SYP No.2
WEBS 2 X 4 SYP No.2

**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 3-8-1 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 17-19,15-17.
WEBS
1 Row at midpt 5-21, 10-17, 7-21
JOINTS
1 Brace at Jt(s): 24

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

**REACTIONS** (lb/size)
2 = 1605/0-6-0 (min. 0-1-14)
17 = 3328/0-4-0 (min. 0-3-15)
13 = 372/0-6-0 (min. 0-1-8)
Max Horz
2 = -259(LC 5)
Max Uplift
2 = -278(LC 7)
17 = -578(LC 7)
13 = -153(LC 4)
Max Grav
2 = 1605(LC 1)
17 = 3328(LC 1)
13 = 428(LC 2)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-25=-2439/190, 3-25=-2591/336, 3-4=-2417/333, 4-5=-2266/357, 5-6=-1597/299, 6-7=-1586/382, 7-8=-1677/272, 8-9=-1740/252, 9-10=-1674/140, 10-29=-627/2870, 29-30=-627/2870, 11-30=-627/2870, 11-31=-641/297, 31-32=-641/297, 32-33=-641/297, 33-34=-641/297, 12-34=-641/297, 12-27=-743/357, 13-27=-696/420
BOT CHORD
2-26=-152/2152, 23-26=-162/2174, 23-35=-49/1727, 22-35=-49/1727, 21-22=-49/1727, 20-21=0/1399, 19-20=0/1409, 18-19=-251/335, 17-18=-251/335, 17-36=-1407/307, 36-37=-1407/307, 37-38=-1407/307, 38-39=-1407/307, 16-39=-1407/307, 16-40=-1407/307, 15-40=-1407/307, 15-28=-313/628, 13-28=-319/623
WEBS
3-23=-295/163, 5-23=-59/653, 5-21=-657/211, 20-24=0/448, 7-24=0/448, 9-19=-388/209, 10-19=-255/1537, 10-17=-3462/570, 11-17=-1894/586, 11-15=-228/1711, 12-15=-306/246, 6-21=-335/1450, 7-21=-810/235, 25-26=-343/241

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights); Lumber DOL=1.60 plate grip DOL=1.60
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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Bottom chord live load (30.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 19-20
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=278, 17=578, 13=153.
8) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
9) "Nailed" indicates 3-10d or 3-12d common wire toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
10) Attic room checked for L/360 deflection.
11) 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) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-54, 6-10=-54, 10-12=-54, 12-14=-54, 2-35=-20, 22-35=-60, 20-22=-20, 19-20=-80, 13-19=-20

Standard
Concentrated Loads (lb)
Vert: 12=-70(F) 15=-50(F) 29=-37(F) 30=-37(F) 31=-37(F) 32=-37(F) 33=-37(F) 34=-37(F) 36=-19(F) 37=-19(F) 38=-19(F) 39=-19(F) 40=-19(F)

WILLIAM M. RANIERI LICENSE No. 42704 STATE OF FLORIDA PROFESSIONAL ENGINEER



William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | F | Special Truss | 1 | 1 | Job Reference (optional) |

ProBuild, Lady Lake, FL 32159, J. Jonas

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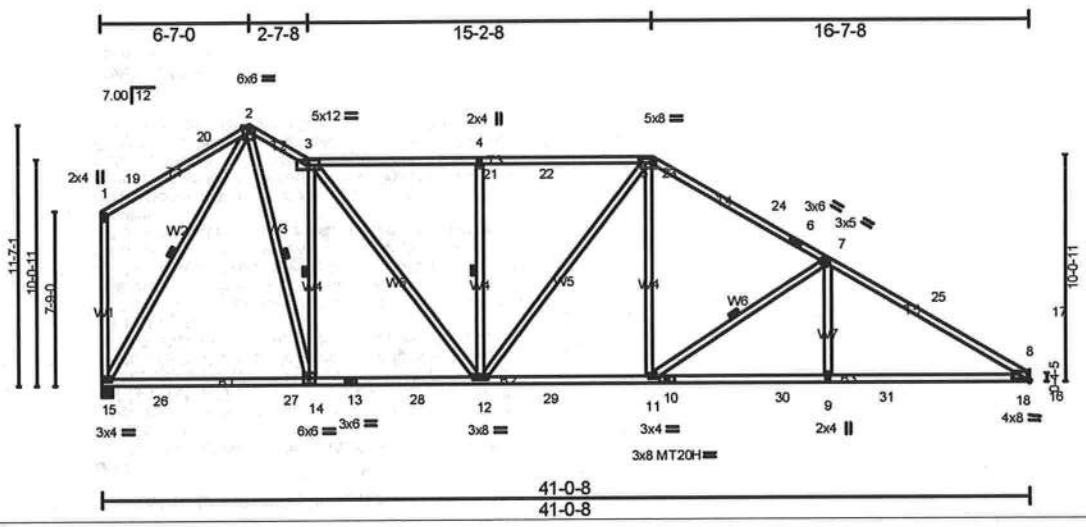


Plate Offsets (X,Y): [5:0-6-0,0-2-4], [8:0-1-3,Edge]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.74 | Vert(LL) | -0.35 | 14-15 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.79 | Vert(TL) | -0.66 | 14-15 | >745 | 180 | MT20H | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.93 | Horz(TL) | 0.12 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.12 | 11-12 | >999 | 240 | Weight: 274 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2 *Except* T4,T5: 2 X 4 SYP M 30
BOT CHORD 2 X 4 SYP No.2 *Except* B1: 2 X 4 SYP M 31
WEBS 2 X 4 SYP No.3 *Except* W3,W5,W1: 2 X 4 SYP No.2, W2: 2 X 4 SYP M 30

**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 6-1-6 oc bracing.
WEBS
1 Row at midpt
2-14, 3-14, 4-12, 7-11, 2-15

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

**REACTIONS** (lb/size)
15 = 1955/0-6-0 (min. 0-1-10)
16 = 1844/Mechanical
Max Horz
15 = -222(LC 9)
Max Uplift
15 = -280(LC 9)
16 = -245(LC 9)
Max Grav
15 = 1955(LC 1)
16 = 1844(LC 1)

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

TOP CHORD
2-3=-1741/555, 3-4=-1966/623, 4-21=-1966/623, 21-22=-1966/623, 22-23=-1966/623, 5-23=-1966/623, 5-24=-2229/647, 6-24=-2266/626, 6-7=-2345/617, 7-25=-2949/706, 17-25=-3067/688, 8-17=-2175/724
BOT CHORD
15-26=0/945, 26-27=0/945, 14-27=0/945, 13-14=-77/1465, 13-28=-77/1465, 12-28=-77/1465, 12-29=-250/1933, 11-29=-250/1933, 10-11=-492/2552, 10-30=-492/2552, 9-30=-492/2552, 9-31=-492/2552, 18-31=-492/2552, 16-18=-1084/2648
WEBS
2-14=-556/2286, 3-14=-1715/622, 3-12=-283/816, 4-12=-472/287, 5-11=-97/720, 7-11=-756/293, 7-9=0/328, 2-15=-1905/464, 8-16=-1654/593, 17-18=-627/492, 16-17=-708/848, 8-18=-1742/1051

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) 0-1-12 to 4-11-6, Interior(1) 4-11-6 to 6-7-0, Exterior(2) 6-7-0 to 29-2-10, Interior(1) 29-2-10 to 41-0-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=280, 16=245.
9) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | E47 | Jack-Open Truss | 6 | 1 | Job Reference (optional) |

ProBuild, Lady Lake, FL 32159, J. Jonas

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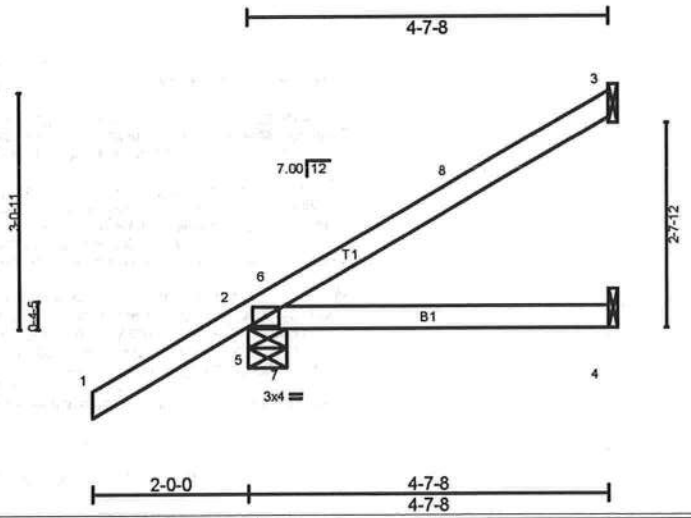


| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.26 | Vert(LL) | -0.01 | 4-7 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.12 | Vert(TL) | -0.03 | 4-7 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(TL) | 0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.01 | 4-7 | >999 | 240 | Weight: 19 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 4-7-8 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS** (lb/size)
3 = 91/Mechanical
5 = 316/0-6-0 (min. 0-1-8)
4 = 39/Mechanical
Max Horz
5 = 132(LC 9)
Max Uplift
3 = -49(LC 9)
5 = -96(LC 9)
Max Grav
3 = 91(LC 1)
5 = 316(LC 1)
4 = 70(LC 2)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-6=-251/0
BOT CHORD
5-7=-189/361
WEBS
2-5=-417/294, 5-6=-268/310, 2-7=-493/294

WEBS
2-5=-417/294, 5-6=-268/310, 2-7=-493/294

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 2-9-10, Interior(1) 2-9-10 to 4-6-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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, 5.
7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | E5G | Jack-Open Truss | 1 | 1 | Job Reference (optional) |

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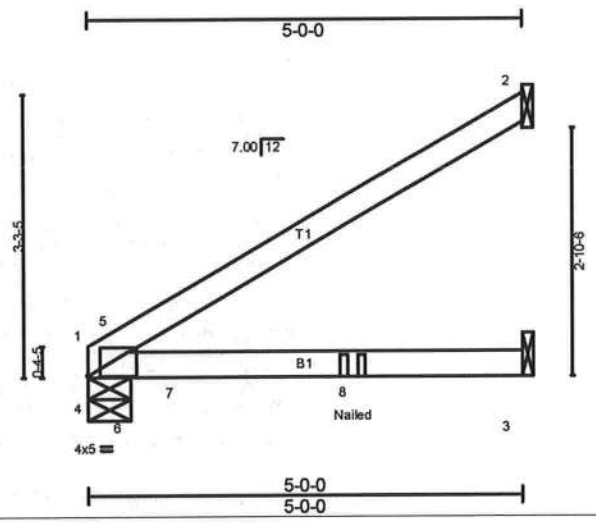


Plate Offsets (X,Y): [1:0-1-13,0-0-2]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.25 | Vert(LL) | -0.04 | 3-6 | >999 | 360 | | |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.49 | Vert(TL) | -0.10 | 3-6 | >585 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.00 | Horz(TL) | 0.00 | 1 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.03 | 3-6 | >999 | 240 | Weight: 16 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP 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.

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

**REACTIONS** (lb/size)
4 = 408/0-6-0 (min. 0-1-8)
2 = 114/Mechanical
3 = 143/Mechanical
Max Horz
4 = 85(LC 7)
Max Uplift
4 = -44(LC 7)
2 = -58(LC 7)
3 = -3(LC 7)
Max Grav
4 = 408(LC 1)
2 = 114(LC 1)
3 = 143(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-5=-974/182
BOT CHORD
4-6=-368/1423
BOT CHORD
4-6=-368/1423
WEBS
1-4=-734/153, 4-5=-336/1217, 1-6=-1828/422

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights); Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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, 2, 3.
7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
8) "Nailed" indicates 3-10d or 3-12d common wire toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 104 lb down and 16 lb up at 1-0-12 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) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 3-4=-20
Concentrated Loads (lb)
Vert: 7=-104 8=-195(F)




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | E4T | Jack-Open Truss | 7 | 1 | Job Reference (optional) |

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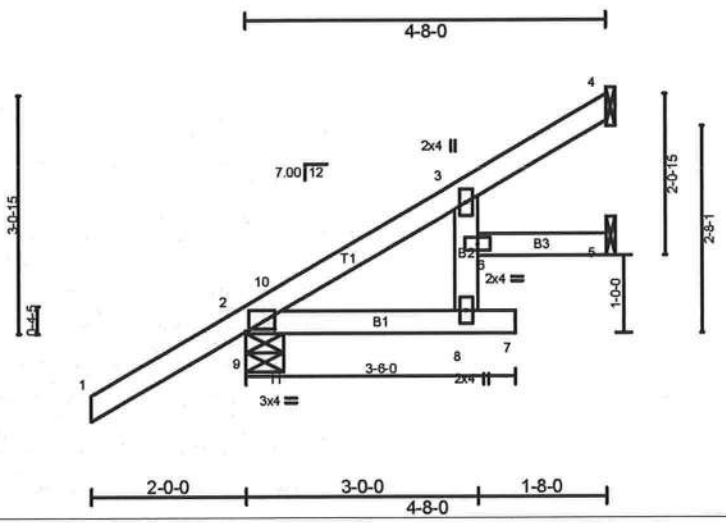


Plate Offsets (X,Y): [2:0-4-9,0-0-6]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.26 | Vert(LL) | -0.01 | 7 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.18 | Vert(TL) | -0.03 | 7 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(TL) | 0.01 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.02 | 7 | >999 | 240 | Weight: 22 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 4-8-0 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS** (lb/size)

| | | |
|---|---|---|
| 4 | = | 78/Mechanical |
| 9 | = | 311/0-6-0 (min. 0-1-8) |
| 5 | = | 72/Mechanical |
| Max Horz | | |
| 9 | = | 132(LC 9) |
| Max Uplift | | |
| 4 | = | -30(LC 9) |
| 9 | = | -92(LC 9) |
| 5 | = | -5(LC 9) |
| Max Grav | | |
| 4 | = | 78(LC 1) |
| 9 | = | 311(LC 1) |
| 5 | = | 80(LC 2) |

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS
2-9=-305/243, 2-11=-275/81

**NOTES**

1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 2-9-6, Interior(1) 2-9-6 to 4-7-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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, 9, 5.
7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | C5S | Jack-Open Truss | 2 | 1 | Job Reference (optional) |

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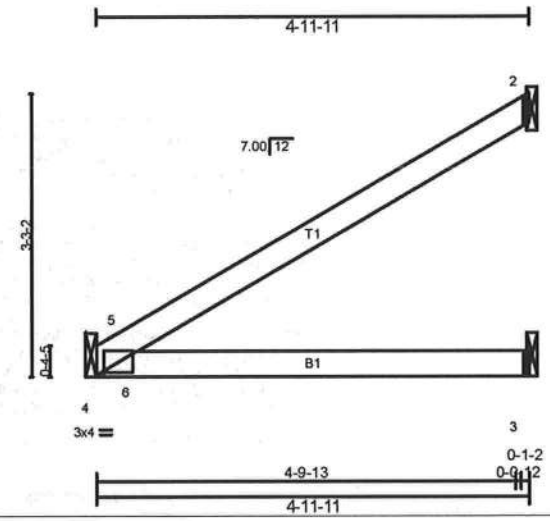


Plate Offsets (X,Y): [1:0-1-1,0-0-6]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.17 | Vert(LL) | -0.01 | 3-6 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.15 | Vert(TL) | -0.04 | 3-6 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(TL) | 0.00 | 1 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.02 | 3-6 | >999 | 240 | Weight: 16 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 4-11-11 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 8-5-2 oc bracing.

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

**REACTIONS** (lb/size)

| | | |
|---|---|---|
| 4 | = | 215/Mechanical |
| 2 | = | 102/Mechanical |
| 3 | = | 46/Mechanical |
| Max Horz | | |
| 4 | = | 85(LC 9) |
| Max Uplift | | |
| 4 | = | -17(LC 9) |
| 2 | = | -57(LC 9) |
| Max Grav | | |
| 4 | = | 215(LC 1) |
| 2 | = | 102(LC 1) |
| 3 | = | 77(LC 2) |

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-5=-450/262
BOT CHORD
4-6=-572/704
WEBS
1-4=-370/234, 4-5=-524/599, 1-6=-875/640

WEBS
1-4=-370/234, 4-5=-524/599, 1-6=-875/640

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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, 2.
7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | C3S | Jack-Open Truss | 2 | 1 | Job Reference (optional) |

ProBuild, Lady Lake, FL 32159, J. Jonas

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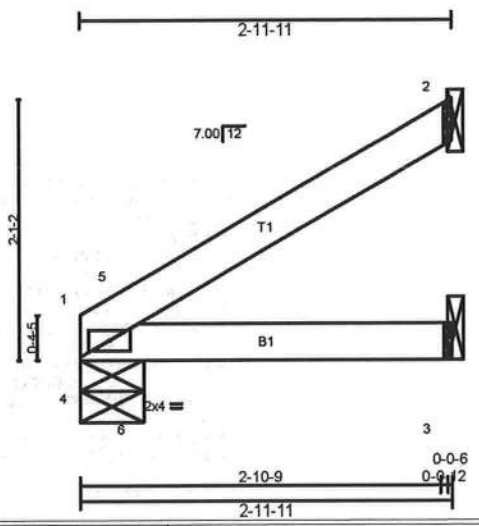


| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.06 | Vert(LL) | -0.00 | 6 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.05 | Vert(TL) | -0.01 | 3-6 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(TL) | 0.00 | 1 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.00 | 3-6 | >999 | 240 | Weight: 10 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 2-11-11 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS** (lb/size)
4 = 124/0-6-0 (min. 0-1-8)
2 = 61/Mechanical
3 = 31/Mechanical
Max Horz
4 = 50(LC 9)
Max Uplift
4 = -8(LC 9)
2 = -33(LC 9)
Max Grav
4 = 124(LC 1)
2 = 61(LC 1)
3 = 46(LC 2)

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

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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, 2.
7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | C1 | JACK-OPEN TRUSS | 22 | 1 | Job Reference (optional) |

ProBuild, Lady Lake, FL 32159, J. Jonas

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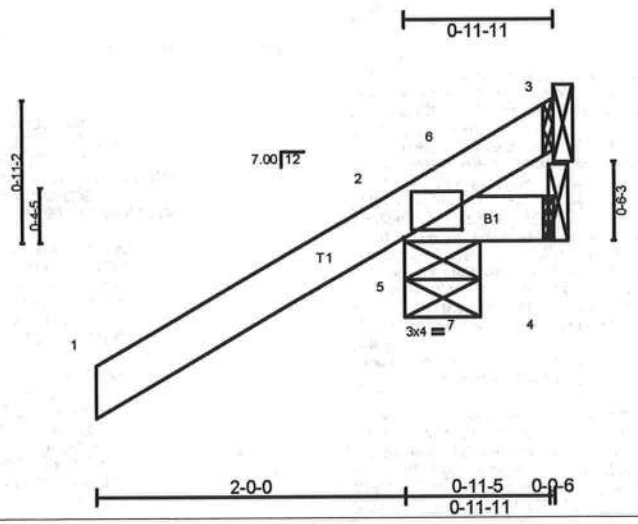


Plate Offsets (X,Y): [2:0-4-9,0-0-10]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.26 | Vert(LL) | 0.00 | 7 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.05 | Vert(TL) | 0.00 | 7 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(TL) | 0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | -0.00 | 7 | >999 | 240 | Weight: 7 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 0-11-11 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.

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

**REACTIONS** (lb/size)
5 = 228/0-6-0 (min. 0-1-8)
4 = -33/Mechanical
3 = -16/Mechanical
Max Horz
5 = 70(LC 9)
Max Uplift
5 = -148(LC 9)
4 = -33(LC 1)
3 = -16(LC 1)
Max Grav
5 = 228(LC 1)
4 = 40(LC 9)
3 = 23(LC 9)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS
2-5=-210/274

**NOTES**

1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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, 3 except (jt=lb) 5=148.
7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | B15 | ATTIC TRUSS | 1 | 1 | Job Reference (optional) |

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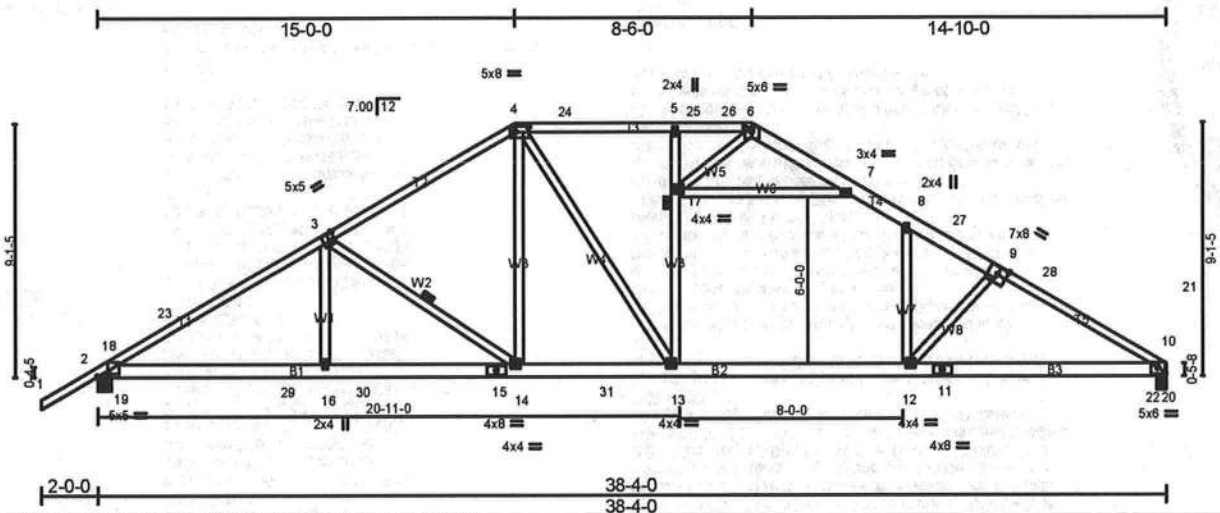


Plate Offsets (X,Y): [2:0-4-8,0-1-2], [3:0-2-4,0-3-4], [4:0-6-0,0-2-4], [6:0-3-0,0-1-12], [9:0-4-0,0-3-4], [10:0-3-0,0-2-11]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.68 | Vert(LL) | -0.33 | 12-13 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 1.00 | Vert(TL) | -0.66 | 12-13 | >698 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.46 | Horz(TL) | 0.08 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.34 | 12-22 | >999 | 240 | Weight: 252 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2 *Except*
T4: 2 X 6 SYP No.2
BOT CHORD 2 X 6 SYP No.2
WEBS 2 X 4 SYP No.2

**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 3-7-7 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 1-4-12 oc bracing.
WEBS
1 Row at midpt 3-14
JOINTS
1 Brace at Jt(s): 17

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

**REACTIONS** (lb/size)
2 = 1552/0-6-0 (min. 0-1-13)
20 = 1536/0-4-0 (min. 0-1-13)
Max Horz
2 = 219(LC 9)
Max Uplift
2 = -320(LC 10)
20 = -247(LC 10)
Max Grav
2 = 1552(LC 1)
20 = 1536(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-18=-2350/537, 18-23=-2548/751,
3-23=-2472/775, 3-4=-1949/689,
4-24=-1839/707, 5-24=-1839/707,
5-25=-1768/676, 25-26=-1768/676,
6-26=-1768/676, 6-7=-1305/497,
7-8=-2012/689, 8-27=-2231/695,
9-27=-2295/690, 9-28=-2391/737,
21-28=-2498/725, 10-21=-2274/795
BOT CHORD
2-19=-558/2109, 19-29=-577/2135,
16-29=-577/2135, 16-30=-578/2128,
15-30=-578/2128, 14-15=-578/2128,
14-31=-325/1612, 13-31=-325/1612,
12-13=-382/1866, 11-12=-545/2108,
11-22=-545/2108, 20-22=-1244/3246
WEBS
3-16=0/368, 3-14=-640/310, 4-14=-80/446,
4-13=-138/412, 13-17=-4/331, 5-17=-342/231,
8-12=-26/428, 7-17=-768/242,
9-12=-372/239, 6-17=-267/885,
18-19=-528/470, 10-20=-1648/590,
20-21=-466/779, 10-22=-2218/1032

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 2-9-10, Interior(1) 2-9-10 to 15-0-0, Exterior(2) 15-0-0 to 30-3-7, Interior(1) 30-3-7 to 38-4-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Bottom chord live load (30.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 12-13
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=320, 20=247.
9) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
10) Attic room checked for L/360 deflection.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | B11 | ATTIC TRUSS | 1 | 1 | Job Reference (optional) |

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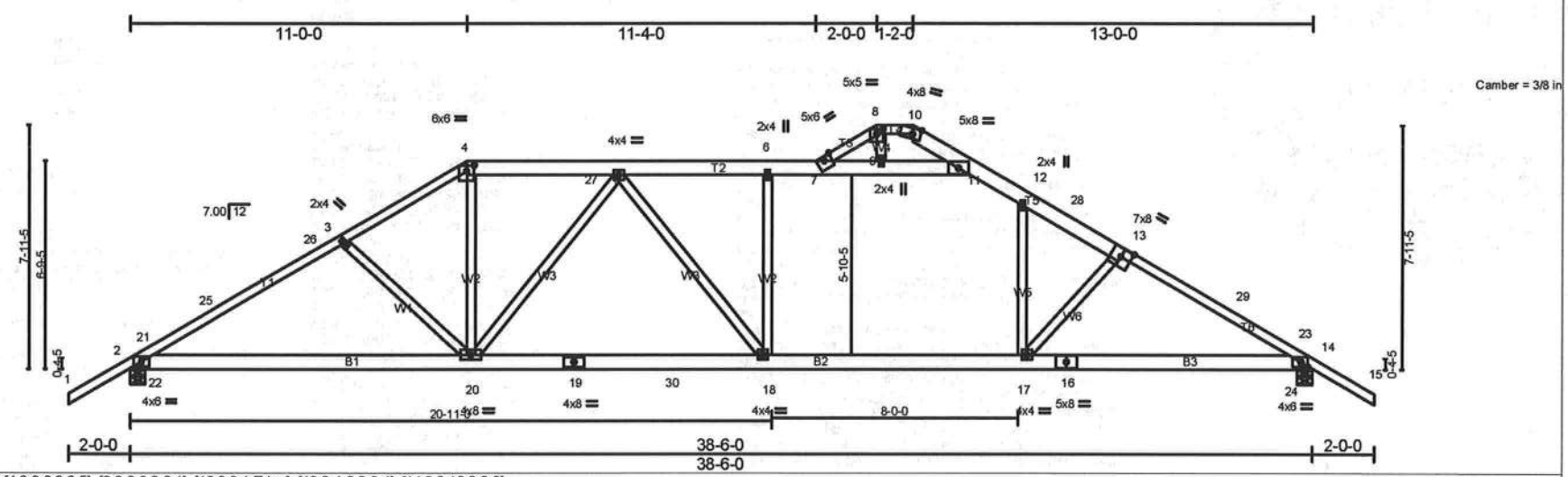



Plate Offsets (X,Y): [4:0-3-0,0-2-5], [8:0-2-8,0-2-1], [10:0-3-1,Edge], [13:0-4-0,0-3-4], [14:0-2-12,0-2-0]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.67 | Vert(LL) | -0.35 | 18-20 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.80 | Vert(TL) | -0.72 | 18-20 | >639 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.56 | Horz(TL) | 0.09 | 14 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.30 | 18-20 | >999 | 240 | Weight: 252 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2 *Except*
T2: 2 X 6 SYP No.2, T5: 2 X 6 SYP M 26
BOT CHORD 2 X 6 SYP No.2 *Except*
B2: 2 X 6 SYP M 26
WEBS 2 X 4 SYP No.2

**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 3-8-8 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS
1 Brace at Jt(s): 9

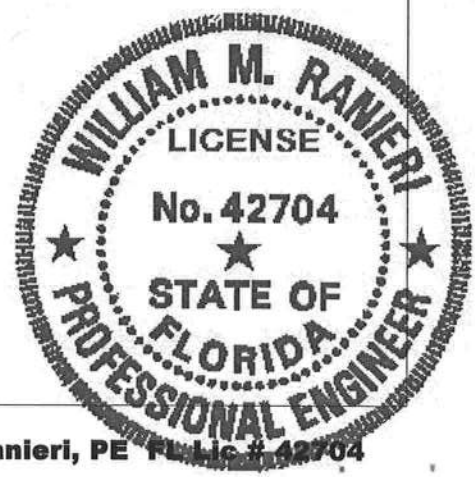
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS** (lb/size)
2 = 1507/0-6-0 (min. 0-1-13)
14 = 1601/0-6-0 (min. 0-1-14)
Max Horz
2 = -178(LC 8)
Max Uplift
2 = -321(LC 10)
14 = -321(LC 10)
Max Grav
2 = 1533(LC 2)
14 = 1601(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-21=-2332/569, 21-25=-2440/753,
25-26=-2380/763, 3-26=-2318/775,
3-4=-2235/736, 4-27=-1903/668,
5-27=-1904/668, 5-6=-2269/760,
6-7=-2269/760, 7-9=-2587/789,
9-11=-2600/790, 7-8=-20/385, 8-10=0/331,
11-12=-2224/743, 12-28=-2561/781,
13-28=-2624/769, 13-29=-2699/800,
23-29=-2764/786, 14-23=-2580/620
BOT CHORD
2-22=-501/2037, 20-22=-520/2056,
19-20=-522/2264, 19-30=-522/2264,
18-30=-522/2264, 17-18=-475/2269,
16-17=-573/2332, 16-24=-573/2332,
14-24=-559/2309
WEBS
3-20=-296/228, 4-20=-253/993,
5-20=-597/233, 6-18=-10/292, 12-17=-86/644,
21-22=-305/401, 23-24=-399/375

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 2-9-10, Interior(1) 2-9-10 to 11-0-0, Exterior(2) 11-0-0 to 15-11-8, Interior(1) 22-4-0 to 24-4-0, Exterior(2) 25-6-0 to 30-3-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Bottom chord live load (30.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 17-18
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=321, 14=321.
9) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
10) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
11) Attic room checked for L/360 deflection.

**LOAD CASE(S)**
Standard






William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | B7 | Special Truss | 1 | 1 | Job Reference (optional) |

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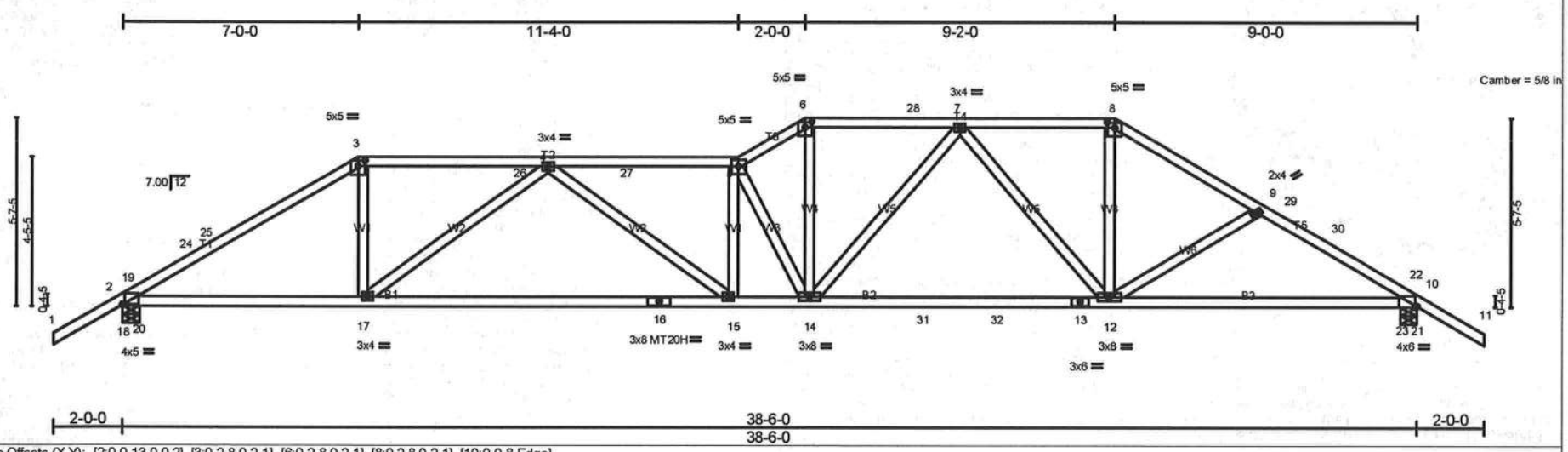


Plate Offsets (X,Y): [2:0-0-13,0-0-2], [3:0-2-8,0-2-1], [6:0-2-8,0-2-1], [8:0-2-8,0-2-1], [10:0-0-8,Edge]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.79 | Vert(LL) | -0.35 | 15-17 | >999 | 360 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.95 | Vert(TL) | -0.97 | 15-17 | >474 | 180 | MT20H | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.98 | Horz(TL) | 0.16 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.23 | 15-17 | >999 | 240 | Weight: 206 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B2: 2 X 4 SYP M 30
WEBS 2 X 4 SYP No.3

**BRACING**
TOP CHORD
Structural wood sheathing directly applied.
BOT CHORD
Rigid ceiling directly applied or 6-8-13 oc bracing.

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

**REACTIONS** (lb/size)
18 = 1565/0-6-0 (min. 0-1-14)
21 = 1588/0-6-0 (min. 0-1-14)
Max Horz
18 = -123(LC 7)
Max Uplift
18 = -324(LC 9)
21 = -318(LC 9)
Max Grav
18 = 1565(LC 1)
21 = 1588(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-19=-1332/564, 19-24=-2406/723, 24-25=-2343/730, 3-25=-2303/748, 3-26=-2017/703, 4-26=-2017/703, 4-27=-3387/1145, 5-27=-3387/1145, 5-6=-3064/1061, 6-28=-2666/948, 7-28=-2666/948, 7-8=-1947/715, 8-9=-2288/768, 9-29=-2394/841, 29-30=-2424/839, 22-30=-2496/825, 10-22=-1316/208
BOT CHORD
18-20=-801/1621, 17-20=-492/1986, 16-17=-865/2934, 15-16=-865/2934, 14-15=-946/3395, 14-31=-659/2417, 31-32=-659/2417, 13-32=-659/2417, 12-13=-659/2417, 12-23=-627/2094, 21-23=-195/1544
WEBS
3-17=-192/882, 4-17=-1148/458, 4-15=-97/567, 5-14=-1669/556, 6-14=-420/1355, 7-14=-68/388, 7-12=-734/298, 8-12=-245/892, 2-18=-1355/638, 19-20=-495/357, 18-19=-503/457, 2-20=-953/856, 10-21=-1263/403, 22-23=-326/305, 21-22=0/540, 10-23=-1212/0

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -2-0-0 to 2-9-10, Interior(1) 2-9-10 to 7-0-0, Exterior(2) 7-0-0 to 11-9-10, Interior(1) 18-4-0 to 29-6-0, Exterior(2) 29-6-0 to 34-3-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=324, 21=318.
8) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard

WILLIAM M. RANIERI LICENSE No. 42704 STATE OF FLORIDA PROFESSIONAL ENGINEER



William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | A9 | Piggyback Base Truss | 1 | 1 | Job Reference (optional) |

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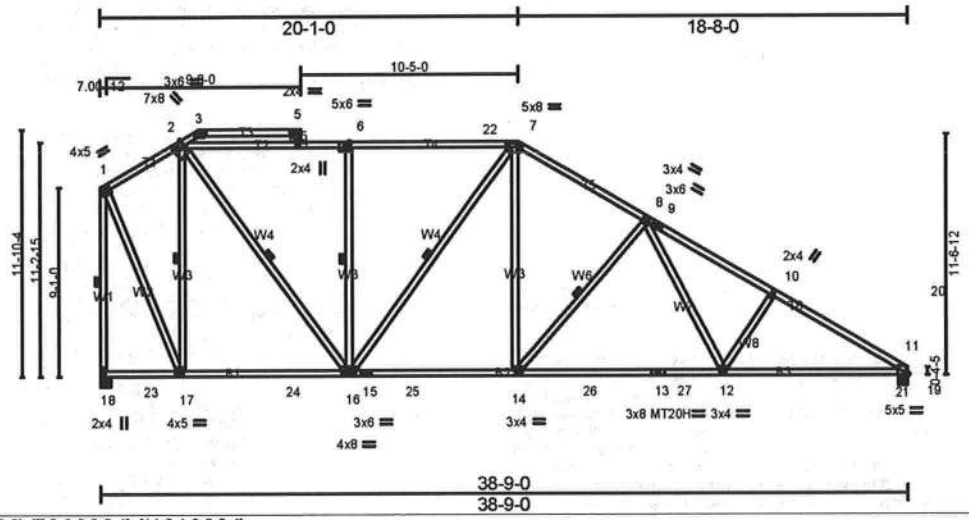


Plate Offsets (X,Y): [2:0-2-11,0-3-8], [3:0-3-0,0-1-12], [6:0-2-8,0-3-0], [7:0-6-0,0-2-4], [11:0-1-3,0-0-4]

| LOADING (psf) | | SPACING 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase 1.25 | TC | 0.74 | Vert(LL) | -0.41 | 12-14 | >999 | 360 | | |
| TCDL | 7.0 | Lumber Increase 1.25 | BC | 1.00 | Vert(TL) | -0.75 | 12-14 | >615 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr NO | WB | 0.58 | Horz(TL) | 0.10 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | (Matrix-M) | | Wind(LL) | 0.07 | 12-14 | >999 | 240 | Weight: 276 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2 *Except*
W6,W7,W8,W5,W2: 2 X 4 SYP No.3

**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 3-6-2 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS
1 Row at midpt
6-16, 7-16, 8-14, 1-18, 2-16, 2-17

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

**REACTIONS** (lb/size)
18 = 1851/0-6-0 (min. 0-2-3)
19 = 1684/0-6-0 (min. 0-2-0)
Max Horz
18 = -243(LC 7)
Max Uplift
18 = -271(LC 7)
19 = -225(LC 7)
Max Grav
18 = 1851(LC 1)
19 = 1684(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-2=-713/131, 2-4=-1395/294, 4-6=-1395/294,
TOP CHORD
1-2=-713/131, 2-4=-1395/294, 4-6=-1395/294,
6-22=-1388/292, 7-22=-1388/292,
7-8=-1957/342, 8-9=-2562/406,
9-10=-2729/404, 10-20=-2903/387,
11-20=-1539/243
BOT CHORD
17-24=-37/601, 16-24=-37/601,
15-16=-11/1625, 15-25=-11/1625,
14-25=-11/1625, 14-26=-147/2021,
13-26=-147/2021, 13-27=-147/2021,
12-27=-147/2021, 12-21=-264/2433,
19-21=-347/1755
WEBS
6-16=-508/192, 7-16=-397/72, 7-14=-87/911,
8-14=-635/213, 8-12=-64/594,
10-12=-269/163, 1-18=-1810/278,
2-16=-227/1359, 2-17=-1063/247,
1-17=-206/1521, 11-19=-1220/214,
20-21=-530/215, 19-20=-141/400,
11-21=-967/249

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights); Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=271, 19=225.
8) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
9) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | A7 | Piggyback Base Truss | 1 | 1 | Job Reference (optional) |

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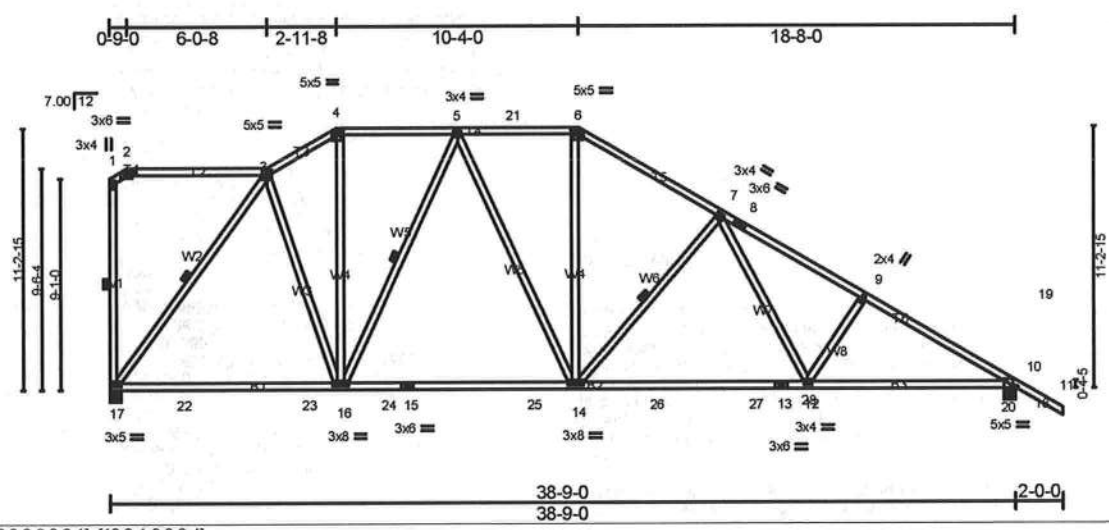


Plate Offsets (X,Y): [2:0-3-0,0-1-12], [4:0-2-8,0-2-1], [6:0-2-8,0-2-1], [10:0-1-3,0-0-4]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.36 | Vert(LL) | -0.37 | 12-14 | >999 | 360 | | |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.92 | Vert(TL) | -0.67 | 12-14 | >689 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.95 | Horz(TL) | 0.11 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.07 | 12-14 | >999 | 240 | Weight: 267 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.2 *Except*
W3,W6,W7,W8: 2 X 4 SYP No.3

**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 3-6-0 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 14-16.
WEBS
1 Row at midpt 5-16, 7-14, 1-17, 3-17

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

**REACTIONS** (lb/size)
18 = 1791/0-6-0 (min. 0-2-2)
17 = 1823/0-6-0 (min. 0-2-2)
Max Horz
17 = -314(LC 7)
Max Uplift
18 = -294(LC 7)
17 = -276(LC 7)
Max Grav
18 = 1791(LC 1)
17 = 1823(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
3-4=-1506/257, 4-5=-1266/240,
TOP CHORD
3-4=-1506/257, 4-5=-1266/240,
5-21=-1618/322, 6-21=-1618/322,
6-7=-1959/330, 7-8=-2565/391,
8-9=-2715/378, 9-19=-2888/371,
10-19=-1283/14
BOT CHORD
17-22=0/1097, 22-23=0/1097, 16-23=0/1097,
16-24=0/1513, 15-24=0/1513, 15-25=0/1513,
14-25=0/1513, 14-26=-84/2020,
26-27=-84/2020, 27-28=-84/2020,
13-28=-84/2020, 12-13=-84/2020,
12-20=-196/2419, 18-20=-39/1398
WEBS
3-16=-4/508, 4-16=-54/551, 5-16=-593/164,
5-14=-35/253, 6-14=-53/672, 7-14=-637/216,
7-12=-60/574, 9-12=-263/159,
3-17=-1836/297, 10-18=-1318/244,
19-20=-470/232, 18-19=-189/374,
10-20=-969/32

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights); Lumber DOL=1.60 plate grip DOL=1.60
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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=294, 17=276.
7) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | A5 | PIGGYBACK BASE TRUSS | 1 | 1 | Job Reference (optional) |

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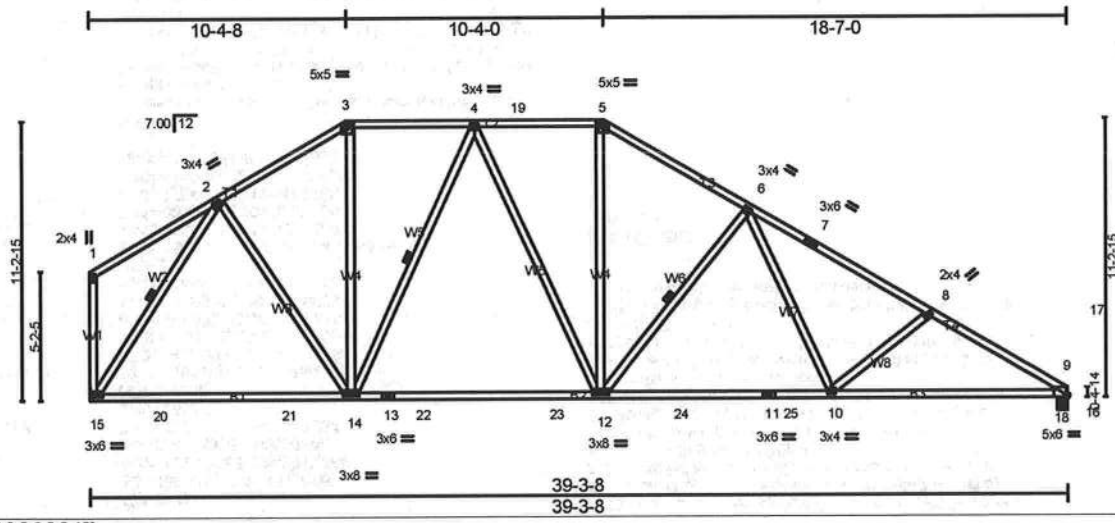


Plate Offsets (X,Y): [3:0-2-8,0-2-1], [5:0-2-8,0-2-1], [9:0-0-8,0-0-13]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.48 | Vert(LL) | -0.36 | 14-15 | >999 | 360 | | |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.86 | Vert(TL) | -0.73 | 14-15 | >644 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.77 | Horz(TL) | 0.11 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.08 | 10-12 | >999 | 240 | Weight: 258 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B1: 2 X 4 SYP M 30
WEBS 2 X 4 SYP No.2 *Except*
W3,W6,W7,W8,W2: 2 X 4 SYP No.3

**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 3-4-3 oc purlins, except end verticals, and 2-0-0 oc purlins (4-9-6 max.): 3-5.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS
1 Row at midpt 4-14, 6-12, 2-15

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

**REACTIONS** (lb/size)
15 = 1837/Mechanical
16 = 1691/0-5-0 (min. 0-2-0)
Max Horz
15 = 200(LC 6)
Max Uplift
15 = -261(LC 7)
16 = -242(LC 7)
Max Grav
15 = 1837(LC 1)
16 = 1691(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-3=-1610/320, 3-4=-1329/307,
TOP CHORD
2-3=-1610/320, 3-4=-1329/307,
4-19=-1653/367, 5-19=-1653/367,
5-6=-1999/388, 6-7=-2571/426,
7-8=-2703/410, 8-17=-2951/461,
9-17=-1321/84
BOT CHORD
15-20=-20/1017, 20-21=-20/1017,
14-21=-20/1017, 13-14=-42/1561,
13-22=-42/1561, 22-23=-42/1561,
12-23=-42/1561, 12-24=-182/2044,
11-24=-182/2044, 11-25=-182/2044,
10-25=-182/2044, 10-18=-343/2493,
16-18=-91/1531
WEBS
2-14=-12/551, 3-14=-61/527, 4-14=-557/138,
5-12=-93/714, 6-12=-653/224, 6-10=-41/515,
8-10=-310/186, 2-15=-1801/277,
9-16=-1017/104, 17-18=-375/195,
16-17=-462/308, 9-18=-965/0

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights); Lumber DOL=1.60 plate grip DOL=1.60
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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=261, 16=242.
8) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
9) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

**LOAD CASE(S)**
Standard

WILLIAM M. RANIERI LICENSE No. 42704 STATE OF FLORIDA PROFESSIONAL ENGINEER



William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | A3 | Piggyback Base Truss | 2 | 1 | Job Reference (optional) |

ProBuild, Lady Lake, FL 32159, J. Jonas — 7.220 s Mar 29 2010 MiTek Industries, Inc. Mon Oct 04 17:06:35 2010 Page 1

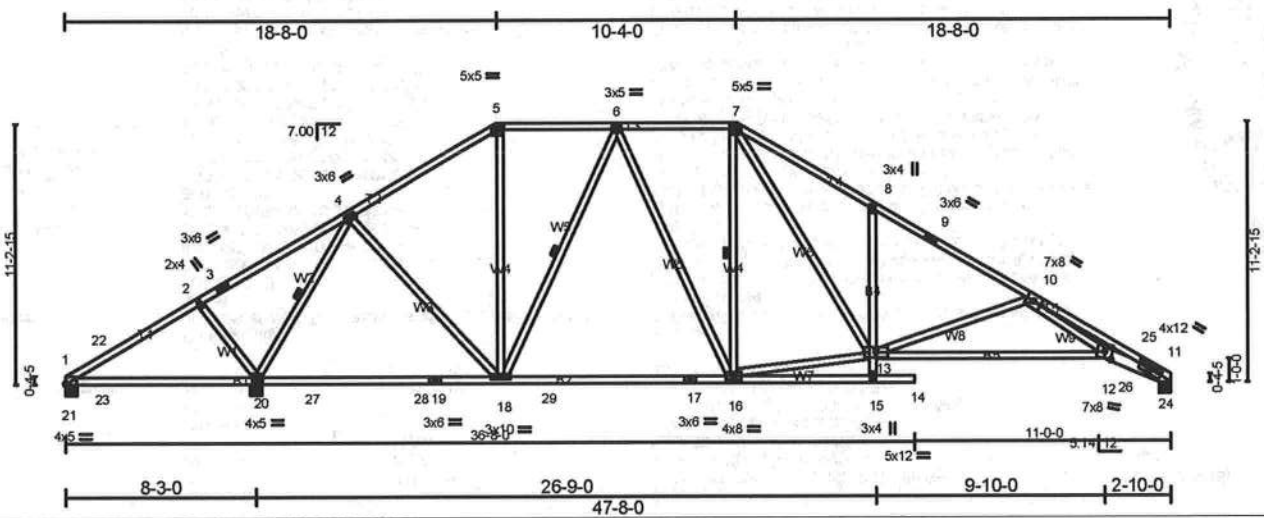


Plate Offsets (X,Y): [1:0-0-8,0-0-4], [5:0-2-8,0-2-1], [7:0-2-8,0-2-1], [11:0-6-0,0-1-12], [12:0-4-0,0-3-7]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.85 | Vert(LL) | -0.46 | 16-18 | >999 | 360 | | |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.83 | Vert(TL) | -1.04 | 12-13 | >453 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.94 | Horz(TL) | 0.26 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.19 | 12-13 | >999 | 240 | Weight: 308 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B4: 2 X 4 SYP No.3, B5: 2 X 4 SYP M 31
B6: 2 X 6 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
W4,W5,W6: 2 X 4 SYP No.2

**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 1-9-13 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 5-2-3 oc bracing. Except:
10-0-0 oc bracing: 13-15
WEBS
1 Row at midpt 4-20, 6-18, 7-16

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

**REACTIONS** (lb/size)
21 = -405/0-6-0 (min. 0-1-8)
24 = 1449/0-6-0 (min. 0-1-8)
20 = 2960/0-6-0 (min. 0-3-8)
Max Horz
21 = -251(LC 5)
Max Uplift
21 = -405(LC 1)
24 = -219(LC 7)
20 = -427(LC 7)
Max Grav
21 = 50(LC 7)
24 = 1449(LC 1)
20 = 2960(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-22=-160/1256, 2-3=-154/1305,
3-4=-130/1464, 4-5=-1116/270, 5-6=-882/271,
6-7=-1301/339, 7-8=-2350/513,
8-9=-2201/380, 9-10=-2366/365,
10-25=-5947/788, 11-25=-2488/343
BOT CHORD
21-23=-176/493, 20-23=-1010/178,
18-29=-8/1162, 17-29=-8/1162,
16-17=-8/1162, 8-13=-363/217,
12-13=-407/2882, 12-26=-656/5416,
24-26=-335/2496
WEBS
2-20=-300/165, 4-20=-2739/424,
4-18=-28/1106, 6-18=-672/144, 6-16=-19/340,
13-16=0/1412, 7-13=-268/1267,
10-12=-270/2889, 10-13=-976/268,
21-22=-212/915, 1-23=-1181/253,
11-24=-1153/174, 25-26=-689/121,
24-25=-1657/224, 11-26=-127/1015

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights); Lumber DOL=1.60 plate grip DOL=1.60
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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Bearing at joint(s) 24 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 21=405, 24=219, 20=427.
8) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

**LOAD CASE(S)**
Standard

WILLIAM M. RANIERI LICENSE No. 42704 STATE OF FLORIDA PROFESSIONAL ENGINEER



William M. Ranieri, PE FL Lic # 42704

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 10589046 | A1 | PIGGYBACK BASE TRUSS | 3 | 1 | Job Reference (optional) |

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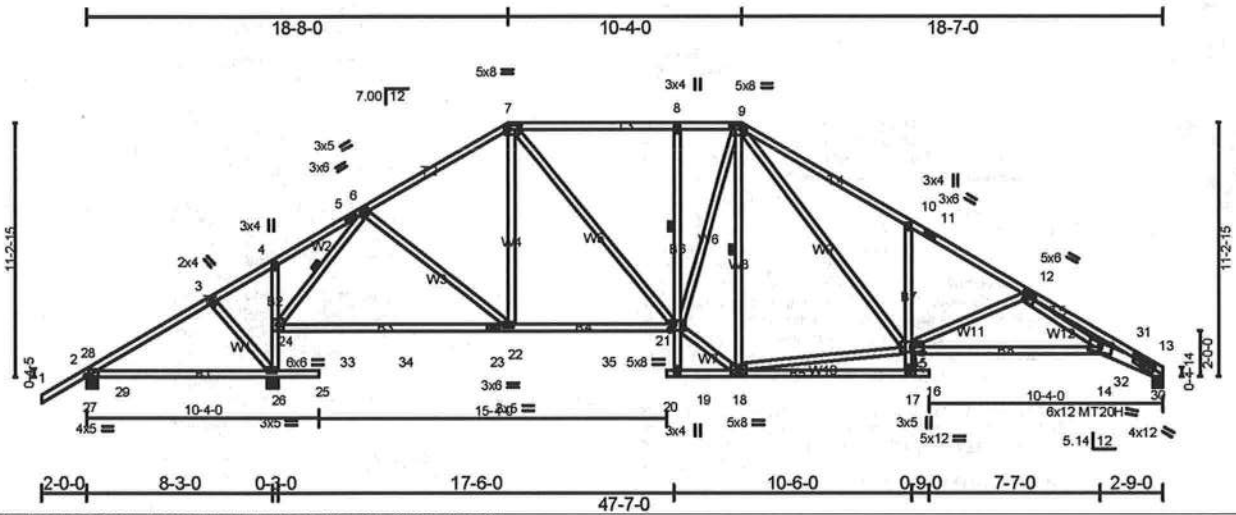


Plate Offsets (X,Y): [2:0-1-5,0-0-2], [7:0-6-0,0-2-4], [9:0-5-8,0-2-0], [12:0-3-0,0-1-12], [13:0-6-0,0-1-12], [21:0-2-0,0-3-0]

| LOADING (psf) | | SPACING | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plates Increase | 1.25 | TC | 0.84 | Vert(LL) | -0.30 | 14-15 | >999 | 360 | | |
| TCDL | 7.0 | Lumber Increase | 1.25 | BC | 0.84 | Vert(TL) | -0.87 | 14-15 | >539 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.93 | Horz(TL) | 0.26 | 13 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2007/TPI2002 | | (Matrix-M) | | Wind(LL) | 0.21 | 14-15 | >999 | 240 | Weight: 328 lb | |

**LUMBER**
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B2,B7: 2 X 4 SYP No.3, B9: 2 X 6 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
W5,W8,W9: 2 X 4 SYP No.2

**BRACING**
TOP CHORD
Structural wood sheathing directly applied or 1-9-15 oc purlins, except
2-0-0 oc purlins (4-2-13 max.): 7-9.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
1 Row at midpt 8-21
3-0-0 oc bracing: 24-26
10-0-0 oc bracing: 19-21, 15-17
WEBS
1 Row at midpt 6-24, 9-18

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

**REACTIONS** (lb/size)
27 = 373/0-6-0 (min. 0-1-8)
26 = 2074/0-6-0 (min. 0-2-7)
30 = 1518/0-5-0 (min. 0-1-9)
Max Horz
27 = 269(LC 6)
Max Uplift
27 = -166(LC 7)
26 = -239(LC 7)
30 = -251(LC 7)
Max Grav
27 = 373(LC 1)
26 = 2074(LC 1)
30 = 1518(LC 1)

**FORCES** (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-28=-676/0, 6-7=-1727/363, 7-8=-1743/415, 8-9=-1730/412, 9-10=-2698/626, 10-11=-2532/477, 11-12=-2660/473, 12-31=-6083/934, 13-31=-2376/360
BOT CHORD
27-29=-25/917, 24-26=-1815/210, 24-33=-96/1035, 33-34=-96/1035, 23-34=-96/1035, 22-23=-96/1035, 22-35=-31/1416, 21-35=-31/1416, 8-21=-311/115, 10-15=-381/228, 14-15=-456/2989, 14-32=-787/5521, 30-32=-337/2277
WEBS
6-24=-1900/226, 6-22=0/491, 7-21=-96/510, 18-21=-71/1744, 9-21=-67/1122, 9-18=-1106/113, 15-18=-79/1333, 9-15=-322/1373, 12-15=-822/217, 12-14=-362/2888, 2-27=-620/150, 28-29=0/311, 27-28=-30/855, 2-29=-1334/0, 13-30=-1020/168, 31-32=-727/165, 30-31=-1835/276, 13-32=-182/1269

**NOTES**
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=4.2psf; h=17ft; B=48ft; L=48ft; eave=6ft; Cat. II; Exp B; enclosed; MWFRS (all heights); Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Bearing at joint(s) 30 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) except (jt=lb) 27=166, 26=239, 30=251.
9) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
10) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

**LOAD CASE(S)**
Standard




William M. Ranieri, PE FL Lic # 42704