

# Maronda Systems

Maronda Systems 4005 Maronda Way Sanford FL 32771 (407) 321-0064 Fax (407) 321-3913  
 Engineer/Architect of Record: Carl Brown P.E. 258 Southhall Lane, Suite 200 Maitland, FL 32751 FL PE # 56126  
 Engineer/Architect of Record: Luis Jose Burgos Pasado, P.E. 258 Southhall Lane, Suite 200 Maitland, FL 32751 FL PE # 92724  
 Engineer/Architect of Record: Scott A Lewkowski P.E. 258 Southhall Lane, Suite 200 Maitland, FL 32751 FL PE # 78750  
 Design Criteria: TPI Design: Matrix Analysis MiTek software

Maple G Base

| PLAN JOB # | LOT | ADDRESS                             | DIV/SUB | MODEL      |
|------------|-----|-------------------------------------|---------|------------|
| 9FC00201   | 002 | TBD STREET A<br>LAKE CITY, FL 32024 | JAW/9FC | MPLG42B/LH |

This structure was designed in accordance with, and meets the requirements of TPI standards and the FLORIDA BUILDING CODE 8thTH EDITION (2023) for 160 M.P.H. Wind Zone. Exposure C  
 Truss loading is in accordance with ASCE 7-22. These trusses are designed for an enclosed building.  
 With risk category II.

The Truss Engineering package for the above referenced site was generated by the Truss Designer/Architect/MiTek.

I, the Delegated Truss Engineer for the above referenced lot  
 Have reviewed the package and confirmed that it matches the physical and structural  
 Parameters found on the set of permit drawings.

| Truss ID         | Run Date | Drawing Reviewed | Truss ID          | Run Date   | Drawing Reviewed | No. of Eng. Dwg's:  | 32       |
|------------------|----------|------------------|-------------------|------------|------------------|---------------------|----------|
| Layout           | 10/23/23 |                  |                   |            |                  | <b>Roof Loads-</b>  |          |
| REACTION SUMMARY | 10/23/23 |                  |                   |            |                  | TC Live:            | 16.0 psf |
| MII web plate    | 2017     |                  |                   |            |                  | TC Dead:            | 7.0 psf  |
| OR1              | 2009     |                  |                   |            |                  | BC Live:            | 0.0 psf  |
| ST-4ply Screw    | 2012     |                  |                   |            |                  | BC Dead:            | 10.0 psf |
| VC1              | 2009     |                  |                   |            |                  | Total               | 33.0 psf |
| TN1              | 2009     |                  |                   |            |                  | DurFac- Lbr:        | 1.25     |
| ST-Rep01A1       | 2014     |                  |                   |            |                  | DurFac- Plt:        | 1.25     |
| G40              | 10/24/23 |                  |                   |            |                  | O.C. Spacing:       | 24.0"    |
| H90              | 10/24/23 |                  |                   |            |                  | <b>Floor Loads-</b> |          |
| H91              | 10/24/23 |                  |                   |            |                  | TC Live:            | 40.0 psf |
| H92              | 10/24/23 |                  |                   |            |                  | TC Dead:            | 10.0 psf |
| H4509            | 10/24/23 |                  |                   |            |                  | BC Live:            | 0.0 psf  |
| H4511            | 10/24/23 |                  |                   |            |                  | BC Dead:            | 5.0 psf  |
| H4513            | 10/24/23 |                  |                   |            |                  | Total               | 55.0 psf |
| H4515            | 10/24/23 |                  |                   |            |                  | DurFac- Lbr:        | 1.00     |
| H4517            | 10/24/23 |                  |                   |            |                  | DurFac- Plt:        | 1.00     |
| H4519            | 10/24/23 |                  |                   |            |                  | O.C. Spacing:       | 24.0"    |
| HGR93            | 10/24/23 |                  |                   |            |                  |                     |          |
| HGR4507          | 10/24/23 |                  |                   |            |                  |                     |          |
| J15              | 10/24/23 |                  |                   |            |                  |                     |          |
| J35              | 10/24/23 |                  |                   |            |                  |                     |          |
| J55              | 10/24/23 |                  |                   |            |                  |                     |          |
| J75              | 10/24/23 |                  |                   |            |                  |                     |          |
| JGR75            | 10/24/23 |                  |                   |            |                  |                     |          |
| JGR90            | 10/24/23 |                  |                   |            |                  |                     |          |
| M90              | 10/24/23 |                  |                   |            |                  |                     |          |
| T41              | 10/24/23 |                  |                   |            |                  |                     |          |
| T42              | 10/24/23 |                  |                   |            |                  |                     |          |
| T45              | 10/24/23 |                  |                   |            |                  |                     |          |
| T94              | 10/24/23 |                  |                   |            |                  |                     |          |
| TGR95            | 10/24/23 |                  |                   |            |                  |                     |          |
|                  |          |                  |                   |            |                  |                     |          |
|                  |          |                  | INV #             | DESC       | QNTY             |                     |          |
|                  |          |                  | 050060.0110       | JUS26      |                  |                     |          |
|                  |          |                  | 050060.0047       | THD28      |                  |                     |          |
|                  |          |                  | 050060.0049       | THD28-2    |                  |                     |          |
|                  |          |                  | 050060.0106       | HUS26      |                  |                     |          |
|                  |          |                  | 050060.0272       | HUS179     |                  |                     |          |
|                  |          |                  | 050060.0058       | HJC26      | 3                |                     |          |
|                  |          |                  | 050060.0312       | HJC26-SK60 |                  |                     |          |
|                  |          |                  | SEAT PLATES       |            | 116              |                     |          |
|                  |          |                  | FLOOR SEAT PLATES |            |                  |                     |          |



**FDS**  
ENGINEERING ASSOCIATES

258 Southhall Lane, Suite 200  
Maitland, FL 32751

O: 321-972-0491 F: 407-880-2304  
Certificate Of Authorization No. 9161

☐ CARL A. BROWN, PE - FL # 56126  
☐ LUIS JOSE BURGOS PASADO, PE - FL # 92724  
☐ SCOTT A. LEWKOWSKI, PE - FL # 78750



SCOTT A. LEWKOWSKI  
LICENSE  
No. 78750  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

7-17-24 Signing Date: 07/25/2024

TO THE BEST OF THE ENGINEER'S KNOWLEDGE AND UNDERSTANDING, THE STRUCTURAL PLANS AND SPECIFICATIONS COMPLY WITH THE FLORIDA BUILDING CODE SIGNED AND SEALED FOR THE STRUCTURAL PORTION OF THIS DRAWING.



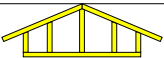
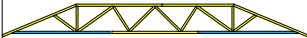
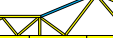
|         |               | EXPOSURE   | GENERAL TRUSS NOTES:     |                                                                                                                                                                                             |
|---------|---------------|------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TC LIVE | 16.000 lb/ft² | SNOW LOAD  | 0.00                     | 1. INFORMATION BASED ON 160.0 MPH WIND LOAD.<br>ALL PRESSURES WERE CALCULATED USING<br>MWFRS/C-C HYBRID WIND ASCE 7-22.<br>2. PROVIDE TRUSS BRACING PER TRUSS<br>ENGINEERING AND BCSI I-03. |
| TC DEAD | 7.000 lb/ft²  | LUMBER DOL | 1.25                     |                                                                                                                                                                                             |
| BC LIVE | 0.000 lb/ft²  | PLATE DOL  | 1.25                     |                                                                                                                                                                                             |
| BC DEAD | 10.000 lb/ft² | WIND       | 160.0 mph Vasd=124.0 mph |                                                                                                                                                                                             |
| TOTAL   | 33.0 lb/ft²   | SPACING    | 24" O.C.                 |                                                                                                                                                                                             |

TRUSS PLACEMENT PLAN



4005 Maronda Way  
Sanford, FL 32771  
(407) 321-0064

**CUSTOMER:**Maronda Systems  
**Model:** MAPLE  
**ELEVATION:** G - BASE  
**DRAWN BY:**  
**RELEASE DATE:** 10/24/23  
**GARAGE:** REACTION

| Truss List                                                                          |         |     |             |     |                |                           |                           |                          |                         |                         |
|-------------------------------------------------------------------------------------|---------|-----|-------------|-----|----------------|---------------------------|---------------------------|--------------------------|-------------------------|-------------------------|
|                                                                                     | Truss   | Qty | Span        | Ply | Pitch          | Reactions                 |                           |                          |                         |                         |
|    | G40     | 1   | 7' 3"       | 1   | 5 , 5          | 125.06 lb<br>-146.75 lb   | 104.47 lb<br>-134.79 lb   | 141.16 lb<br>-9.34 lb    | 104.47 lb<br>-133.28 lb | 125.06 lb<br>-147.51 lb |
|     | H4509   | 1   | 40' 0"      | 1   | 5 , 5          | 1376.25 lb<br>-920.10 lb  | 1376.25 lb<br>-920.10 lb  |                          |                         |                         |
|     | H4511   | 1   | 40' 0"      | 1   | 5 , 5          | 1376.25 lb<br>-917.41 lb  | 1376.25 lb<br>-917.40 lb  |                          |                         |                         |
|     | H4513   | 1   | 40' 0"      | 1   | 5 , 5          | 1376.25 lb<br>-914.18 lb  | 1376.25 lb<br>-914.18 lb  |                          |                         |                         |
|     | H4515   | 2   | 40' 0"      | 1   | 5 , 5          | 1376.25 lb<br>-910.41 lb  | 1376.25 lb<br>-910.41 lb  |                          |                         |                         |
|     | H4517   | 2   | 40' 0"      | 1   | 5 , 5          | 1524.48 lb<br>-906.12 lb  | 1527.51 lb<br>-906.12 lb  |                          |                         |                         |
|     | H4519   | 2   | 40' 0"      | 1   | 5 , 5          | 1543.25 lb<br>-901.29 lb  | 1543.25 lb<br>-901.29 lb  |                          |                         |                         |
|     | H90     | 1   | 40' 0"      | 1   | 5 , 4.9999 , 5 | 1521.16 lb<br>-981.76 lb  | 1534.16 lb<br>-818.79 lb  |                          |                         |                         |
|     | H91     | 1   | 40' 0"      | 1   | 5 , 5 , 5      | 438.59 lb<br>-313.96 lb   | 932.69 lb<br>-695.73 lb   | 1123.51 lb<br>-610.07 lb | 620.30 lb<br>-450.42 lb |                         |
|     | H92     | 1   | 40' 0"      | 1   | 5 , 5 , 5      | 475.45 lb<br>-329.46 lb   | 830.42 lb<br>-672.99 lb   | 1154.23 lb<br>-543.27 lb | 653.34 lb<br>-474.69 lb |                         |
|     | HGR4507 | 2   | 40' 0"      | 2   | 5 , 5          | 2850.26 lb<br>-2479.74 lb | 2850.24 lb<br>-2479.81 lb |                          |                         |                         |
|   | HGR93   | 1   | 40' 0"      | 1   | 5 , 5 , 5      | 711.58 lb<br>-614.80 lb   | 1688.71 lb<br>-1553.48 lb | 1117.33 lb<br>-724.28 lb | 637.41 lb<br>-459.69 lb |                         |
|  | J15     | 8   | 1' 0"       | 1   | 5              | 123.66 lb<br>-150.22 lb   | 10.04 lb<br>-2.14 lb      | 28.51 lb<br>-5.38 lb     |                         |                         |
|  | J35     | 8   | 3' 0"       | 1   | 5              | 164.89 lb<br>-135.25 lb   | 53.55 lb<br>-76.83 lb     | 49.85 lb<br>-1.08 lb     |                         |                         |
|  | J55     | 6   | 5' 0"       | 1   | 5              | 226.15 lb<br>-167.27 lb   | 87.64 lb<br>-3.62 lb      | 98.21 lb<br>-143.72 lb   |                         |                         |
|  | J75     | 18  | 7' 0"       | 1   | 5              | 290.54 lb<br>-205.19 lb   | 19.89 lb<br>-44.98 lb     | 203.96 lb<br>-150.15 lb  |                         |                         |
|  | JGR75   | 3   | 9' 9 5/16"  | 1   | 3.5355         | 411.19 lb<br>-435.99 lb   | 79.29 lb<br>-97.12 lb     | 323.70 lb<br>-272.77 lb  |                         |                         |
|  | JGR90   | 1   | 6' 11 3/8"  | 1   | 3.5355         | 301.91 lb<br>-330.12 lb   | 136.55 lb<br>-187.31 lb   | 123.76 lb<br>-18.26 lb   |                         |                         |
|  | M90     | 8   | 5' 0"       | 1   | 5              | 223.52 lb<br>-165.83 lb   | 153.11 lb<br>-144.56 lb   |                          |                         |                         |
|  | T41     | 1   | 7' 3"       | 1   | 5 , 5          | 294.50 lb<br>-210.55 lb   | 294.50 lb<br>-210.56 lb   |                          |                         |                         |
|  | T42     | 1   | 7' 3"       | 1   | 5 , 5          | 301.07 lb<br>-210.53 lb   | 223.05 lb<br>-135.37 lb   |                          |                         |                         |
|  | T45     | 9   | 40' 0"      | 1   | 5 , 5          | 1547.46 lb<br>-898.75 lb  | 1547.46 lb<br>-898.75 lb  |                          |                         |                         |
|  | T94     | 1   | 25' 11 5/8" | 1   | 5 , 5          | 107.02 lb<br>-65.53 lb    | 1290.08 lb<br>-628.11 lb  | 670.12 lb<br>-473.32 lb  |                         |                         |
|  | TGR95   | 1   | 25' 11 5/8" | 1   | 5 , 5          | 263.46 lb<br>-283.45 lb   | 2119.07 lb<br>-1813.26 lb | 1019.02 lb<br>-943.05 lb |                         |                         |

FLORIDA:

THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA BUILDING CODE 8th EDITION (2023): RESIDENTIAL. ALL CONNECTORS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS AND DESIGN CRITERIA STATED ON THE COVER SHEET.

DEFINITIONS

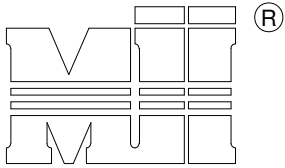
MWF = MAIN WIND FORCE  
C&C = COMPONENTS AND CLADDING  
TOB = TOP OF BEARING  
TC = TOP CHORD  
BC = BOTTOM CHORD  
LL = LIVE LOAD  
DL = DEAD LOAD  
psf = POUNDS PER SQUARE FOOT  
# = POUNDS

LOADS PER FBC & FRC

\* NON-CONCURRENT BC LL 10psf  
CONCURRENT STORAGE BC LL 20 psf

SHEET:

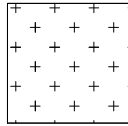
TR1



MiTek USA, Inc.

 ENGINEERED BY  
**TRENCO**  
 A MiTek Affiliate

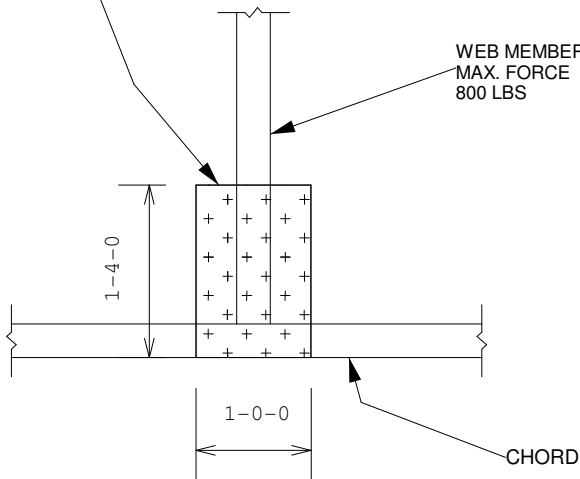
1. ALL MATERIAL IS 2x4
2. THIS DETAIL IS APPLICABLE FOR DESIGNS WITH DOLS. OF 1.15 OR 1.25 AND LUMBER SPECIES SP, DF, HF, OR SPF.
3. DETAIL SHALL BE USED FOR CONDITIONS OF A MISSING OR LOOSE CONNECTOR PLATE ONLY.
4. CHORD MATERIAL IS CONTINUOUS THROUGH JOINT, THERE IS NO MAXIMUM CHORD FORCE AND NO SPLICE PERMITTED.
5. REFER TO MITEK DESIGN DRAWING FOR WEB FORCES.



ATTACH 1/2" PLYWOOD OR OSB GUSSET (15/32" RATED SHEATHING 32/16 EXP 1) TO EACH FACE OF TRUSS WITH (0.131" X MIN 2.5") NAILS IN 3 ROWS SPACED @ 4" O.C. NAILS TO BE DRIVEN FROM BOTH FACES. STAGGER SPACING FROM FRONT TO BACK FACE FOR A NET 2" O.C. SPACING IN THE TRUSS. USE 2" MEMBER END DISTANCE.

EDGE OF WEB NOT  
TO EXTEND BEYOND  
CORNER OF GUSSET

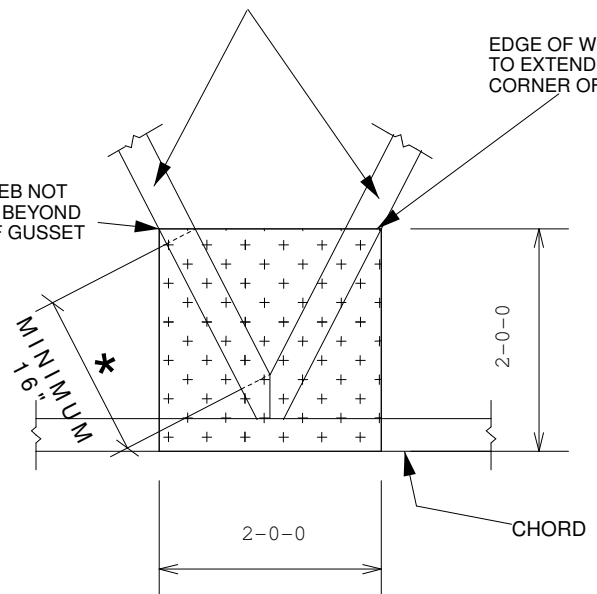
WEB MEMBER  
MAX. FORCE  
800 LBS



WEB MEMBER  
MAX. FORCE  
1200 LBS

EDGE OF WEB NOT  
TO EXTEND BEYOND  
CORNER OF GUSSET

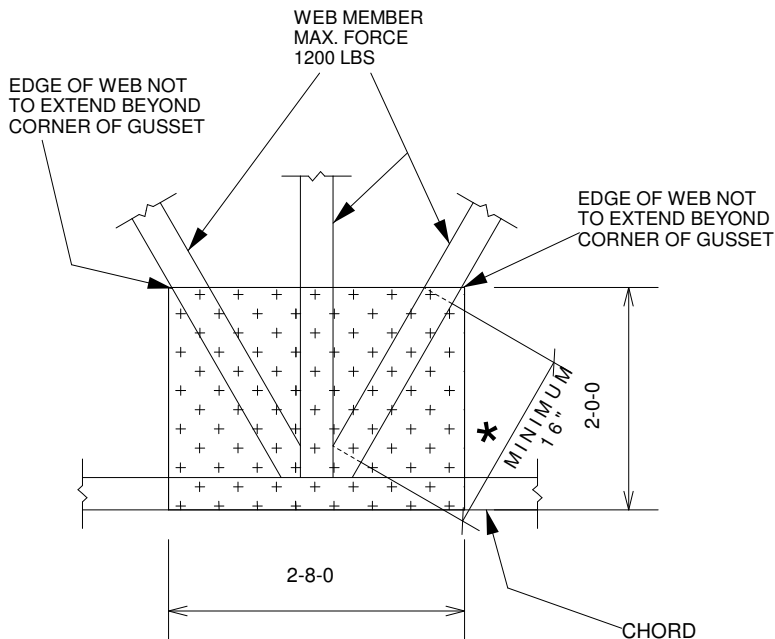
EDGE OF WEB NOT  
TO EXTEND BEYOND  
CORNER OF GUSSET



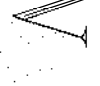
EDGE OF WEB NOT  
TO EXTEND BEYOND  
CORNER OF GUSSET

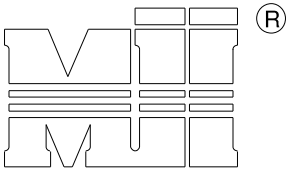
WEB MEMBER  
MAX. FORCE  
1200 LBS

EDGE OF WEB NOT  
TO EXTEND BEYOND  
CORNER OF GUSSET



\* MEASUREMENT TAKEN AT POINTS WHERE WEB ACHIEVES FULL MEMBER DEPTH (AS MEASURED PERPENDICULAR TO WEB'S SAW-MILLED EDGE)



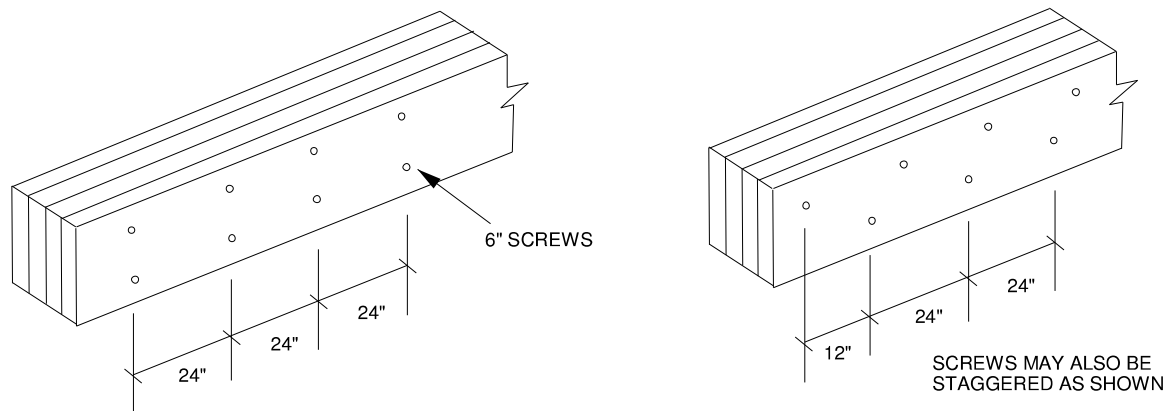


MiTek USA, Inc.

Four ply girder trusses are to be connected together using the nailing or screw schedule provided by Mitek 20/20 software. In addition to the nailing typically specified, 1/2" dia. bolts are sometimes specified throughout certain chords as indicated on the truss design drawing. In lieu of these bolts, the following wood screws may be used: USP WS6, MiTek Trusslok 6", or equivalent.

These screws are to be installed in two rows spaced 24" o.c. in 2x 6 and larger chords (use one row in 2x 4 chords) as shown in the detail below.

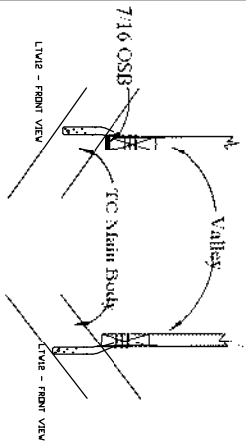
These connections are intended to provide clamping force to aid in allowing the four ply assembly to act as a unit and are not included in the calculation of ply to ply load transfer.



Please note that screws are not required from the back face. However, it is vitally important that the plies are tightly clamped together during the installation of the screws to prevent gaps between the plies.

For trusses where screws are specified for the ply to ply connection instead of nails, the bolts called in the connection notes may be omitted.

NON-BEVELED  
BOTTEM CHORD  
NO-SHEATHING



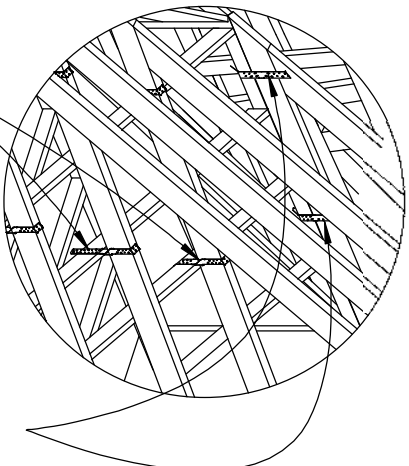
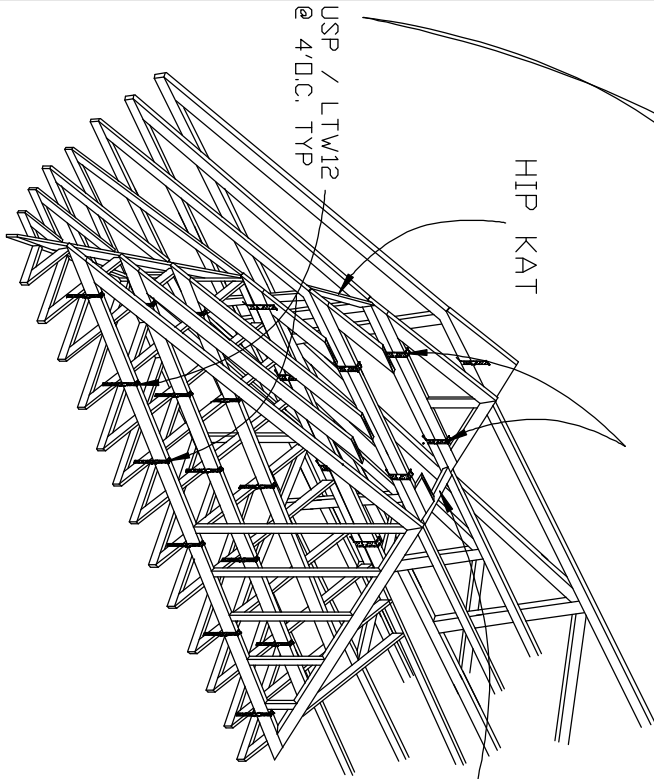
## VALLEY CONNECTIONS

(ELEMENTS NOT SHOWN FOR CLARITY)

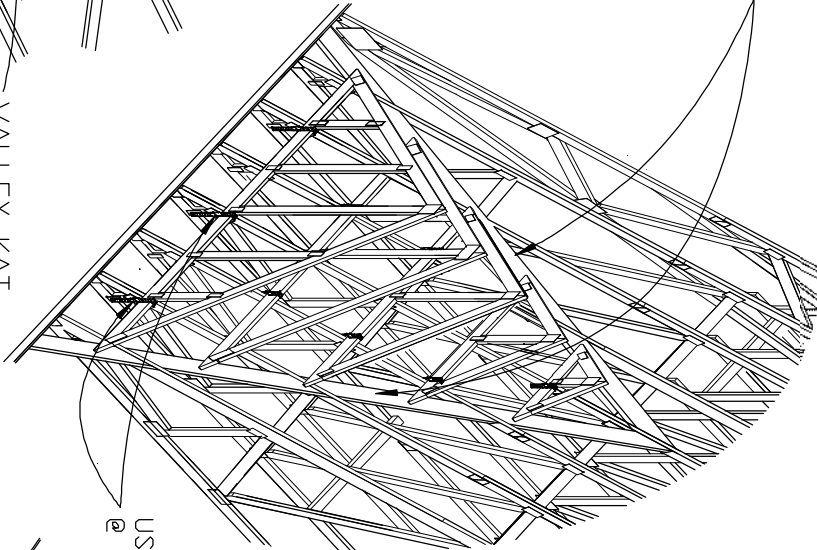
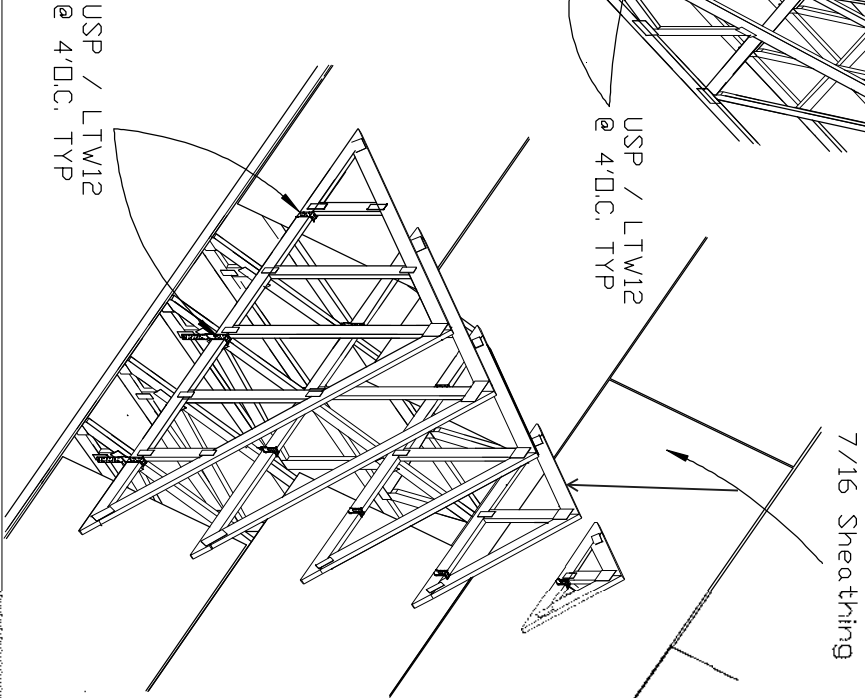
VALLEY KAT

Notes: Valley trusses can be installed either a top main body roof trusses or a top 7/16 sheathing. Connections of strapping remain the same as illustrated. Valley kats are required when a top main body truss option is utilized. See truss engineering and standard details for truss bracing requirements.

Main body trusses 2"OC perpendicular to valley is considered to be continuous bearing. If sheathing exists under valleys, Sheathing is not required to be continuous See NON BEVELED BOTTOM CHORD Detail

USP / MSTA12  
@ 4'D.C. TYP

HIP KAT

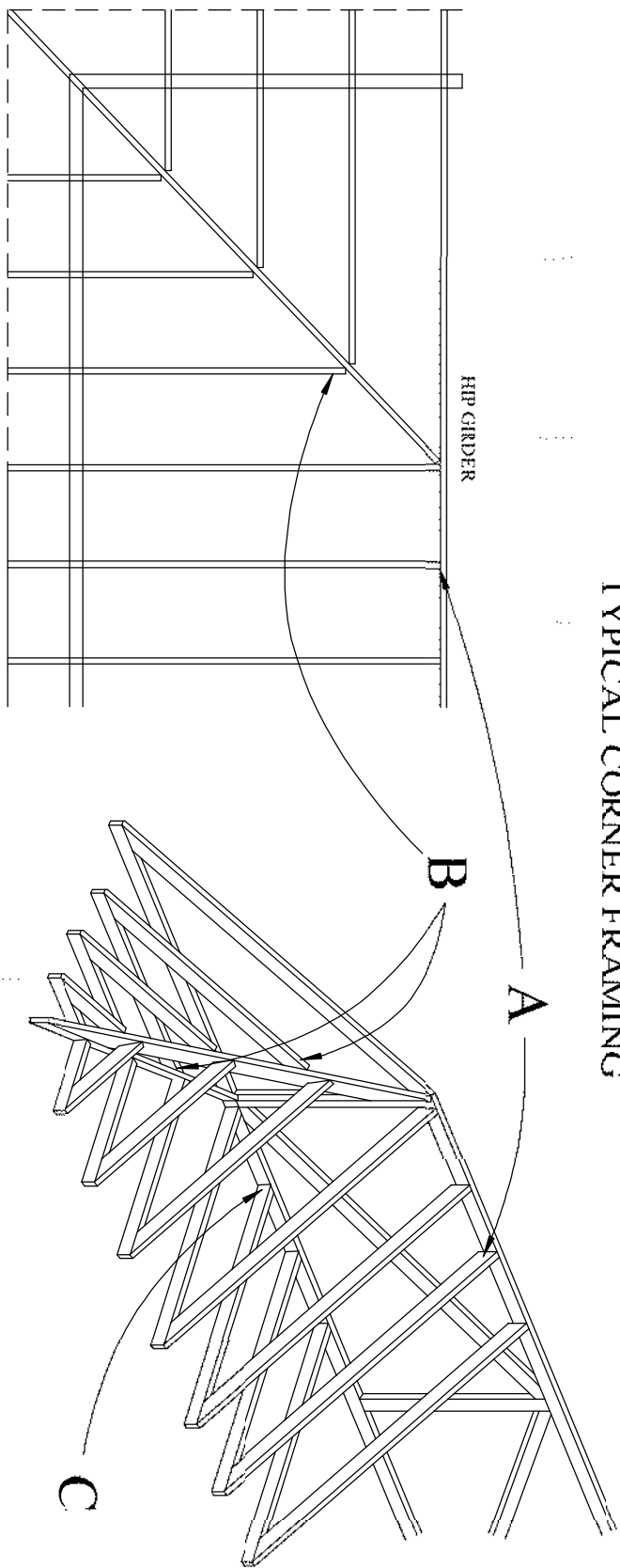
USP / LTW12  
@ 4'D.C. TYP

7/16 Sheathing

|                                                                                                              |  |                                                                                                                                                                                                                  |                                                                                                                                                                                             |                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div style="writing-mode: vertical-rl; transform: rotate(180deg);">             SHEET<br/> <b>VCI</b> </div> |  | <div style="text-align: center;"> <b>TRUSS DETAILS</b><br/> <b>VALLEY CONNECTIONS</b> </div> <div>             DRAWN BY: <b>J.FESSIA</b>      GARAGE: _____<br/>             RELEASE DATE: <b>12/7/09</b> </div> | <div style="text-align: center;"> <small>Copyright © 2009 Maronda Homes</small><br/> <br/> <small>101 101 Street    1000 Harrison Ave    Louisville    KY 40202</small> </div> <div> </div> | <div style="text-align: center;"> <small>Copyright © 2009 Maronda Homes</small><br/> <br/> <small>101 101 Street    1000 Harrison Ave    Louisville    KY 40202</small> </div> <div> </div> |
|                                                                                                              |  | <div style="text-align: center;"> <b>TRUSS DETAILS</b><br/> <b>VALLEY CONNECTIONS</b> </div> <div>             DRAWN BY: <b>J.FESSIA</b>      GARAGE: _____<br/>             RELEASE DATE: <b>12/7/09</b> </div> | <div style="text-align: center;"> <small>Copyright © 2009 Maronda Homes</small><br/> <br/> <small>101 101 Street    1000 Harrison Ave    Louisville    KY 40202</small> </div> <div> </div> | <div style="text-align: center;"> <small>Copyright © 2009 Maronda Homes</small><br/> <br/> <small>101 101 Street    1000 Harrison Ave    Louisville    KY 40202</small> </div> <div> </div> |

# TOE-NAILED CONNECTIONS AT BEARING LOCATIONS

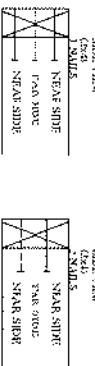
## TYPICAL CORNER FRAMING



### 90 DEGREE ANGLE/SQUARE CUT

Connection at A

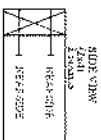
Connection at C



10d (0.131" x 3") nails

### 45 DEGREE ANGLE / SQUARE CUT

Connection at B



10d (0.131" x 3") nails

### CONNECTION VALUES:

|        | GRAVITY | UPLIFT |
|--------|---------|--------|
| (3)10D | 320     | 385    |
| (3)16D | 355     | 462    |

Wind loading: Basic wind speed is 160 MPH U.T. (124 ASD)

Exposure category B or C

Occupancy category II

4.8 psf top chord dead load

4.2 psf bottom chord dead load

25' roof height

INTERIOR gable end zone

Enclosed building (Cond. I)

PRR-10, TPI-07, ASCE 7-10

Duration of load is 1.60

L = NAIL LENGTH

## TRUSS DETAILS

### TOE-NAILED CONNECTIONS

DRAWN BY:

GARAGE

RELEASE DATE: 2/9/09

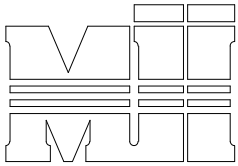
Maronda Homes

1001 201 60th Ave NW, Suite 200, Atlanta, GA 30328

SHEET

TN1





MiTek USA, Inc.

(R)

| TOTAL NUMBER OF<br>NAILS EACH SIDE<br>OF BREAK * |     | X<br>INCHES | MAXIMUM FORCE (lbs) 15% LOAD DURATION |      |      |      |      |      |      |      |
|--------------------------------------------------|-----|-------------|---------------------------------------|------|------|------|------|------|------|------|
|                                                  |     |             | SP                                    |      | DF   |      | SPF  |      | HF   |      |
| 2x4                                              | 2x6 |             | 2x4                                   | 2x6  | 2x4  | 2x6  | 2x4  | 2x6  | 2x4  | 2x6  |
| 20                                               | 30  | 24"         | 1706                                  | 2559 | 1561 | 2342 | 1320 | 1980 | 1352 | 2028 |
| 26                                               | 39  | 30"         | 2194                                  | 3291 | 2007 | 3011 | 1697 | 2546 | 1738 | 2608 |
| 32                                               | 48  | 36"         | 2681                                  | 4022 | 2454 | 3681 | 2074 | 3111 | 2125 | 3187 |
| 38                                               | 57  | 42"         | 3169                                  | 4754 | 2900 | 4350 | 2451 | 3677 | 2511 | 3767 |
| 44                                               | 66  | 48"         | 3657                                  | 5485 | 3346 | 5019 | 2829 | 4243 | 2898 | 4347 |

\* DIVIDE EQUALLY FRONT AND BACK

ATTACH 2x SCAB OF THE SAME SIZE AND GRADE AS THE BROKEN MEMBER TO EACH  
FACE OF THE TRUSS (CENTER ON BREAK OR SPLICE) WITH 10d NAILS

(TWO ROWS FOR 2x4, THREE ROWS FOR 2x6) SPACED 4" O.C. AS SHOWN. (.131"dia. x 3")

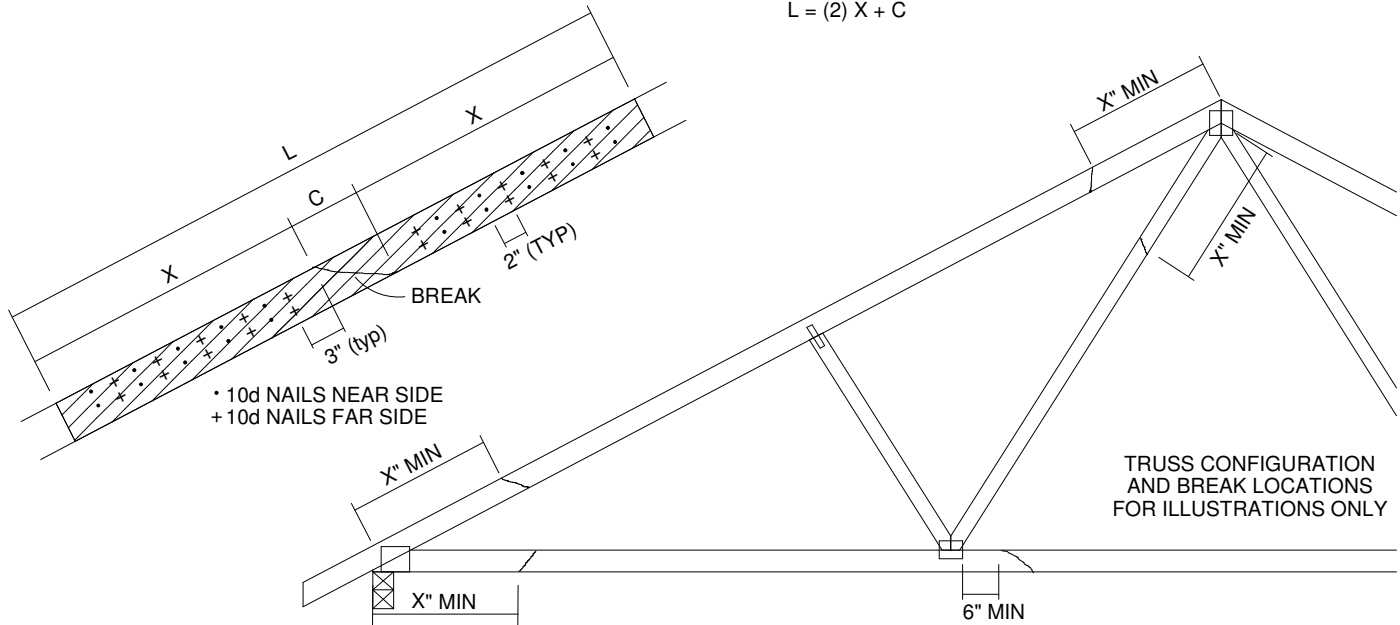
STAGGER NAIL SPACING FROM FRONT FACE AND BACK FACE FOR A NET 0-2-0 O.C.

SPACING IN THE MAIN MEMBER. USE A MIN. 0-3-0 MEMBER END DISTANCE.

THE LENGTH OF THE BREAK (C) SHALL NOT EXCEED 12". (C=PLATE LENGTH FOR SPLICE REPAIRS)

THE MINIMUM OVERALL SCAB LENGTH REQUIRED (L) IS CALCULATED AS FOLLOWS:

$$L = (2) X + C$$

THE LOCATION OF THE BREAK MUST BE GREATER THAN OR EQUAL TO THE REQUIRED X DIMENSION FROM ANY  
PERIMETER BREAK OR HEEL JOINT AND A MINIMUM OF 6" FROM ANY INTERIOR JOINT (SEE SKETCH ABOVE)

DO NOT USE REPAIR FOR JOINT SPLICES

## NOTES:

1. THIS REPAIR DETAIL IS TO BE USED ONLY FOR THE APPLICATION SHOWN. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.
2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.
3. THE END DISTANCE, EDGE DISTANCE AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
4. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.
5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 2x ORIENTATION ONLY.
6. THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.

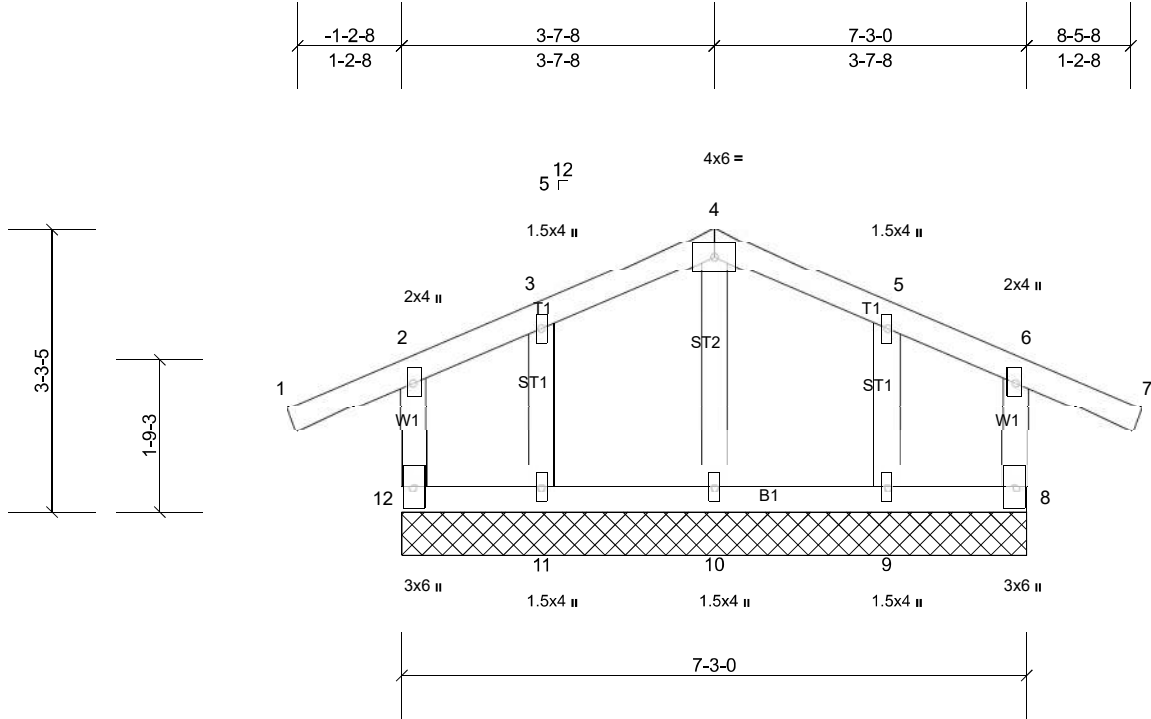
|           |       |                        |     |     |                          |
|-----------|-------|------------------------|-----|-----|--------------------------|
| Job       | Truss | Truss Type             | Qty | Ply | MAPLE G - BASE           |
| MAPLE F&G | G40   | Common Supported Gable | 1   | 1   | Job Reference (optional) |

Maronda Homes, Sanford, user

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Scale = 1:26.7

| Loading     | (psf) | Spacing         |                 | 2-0-0 | CSI       |      | DEFL     | in   | (loc) | l/defl | L/d | PLATES        | GRIP     |
|-------------|-------|-----------------|-----------------|-------|-----------|------|----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 16.0  | Plate Grip DOL  |                 | 1.25  | TC        | 0.40 | Vert(LL) | n/a  | -     | n/a    | 999 | MT20          | 244/190  |
| TCDL        | 7.0   | Lumber DOL      |                 | 1.25  | BC        | 0.05 | Vert(CT) | n/a  | -     | n/a    | 999 |               |          |
| BCLL        | 0.0*  | Rep Stress Incr |                 | NO    | WB        | 0.04 | Horz(CT) | 0.00 | 8     | n/a    | n/a |               |          |
| BCDL        | 10.0  | Code            | FRC2023/TPI2014 |       | Matrix-MR |      |          |      |       |        |     | Weight: 40 lb | FT = 20% |

#### LUMBER

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

#### REACTIONS

All bearings 7-3-0.  
(lb) - Max Horiz 12=63 (LC 10)  
Max Uplift All uplift 100 (lb) or less at joint(s) 10 except 8=-148 (LC 7),  
9=-134 (LC 11), 11=-135 (LC 10), 12=-147 (LC 6)  
Max Grav All reactions 250 (lb) or less at joint(s) 8, 9, 10, 11, 12

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-12=-113/512, 6-8=-113/512

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 12=147, 8=148, 11=135, 9=133.

**LOAD CASE(S)** Standard

#### BRACING

TOP CHORD  
BOT CHORD

Structural wood sheathing directly applied or 7-4-0 oc purlins, except end verticals.

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.

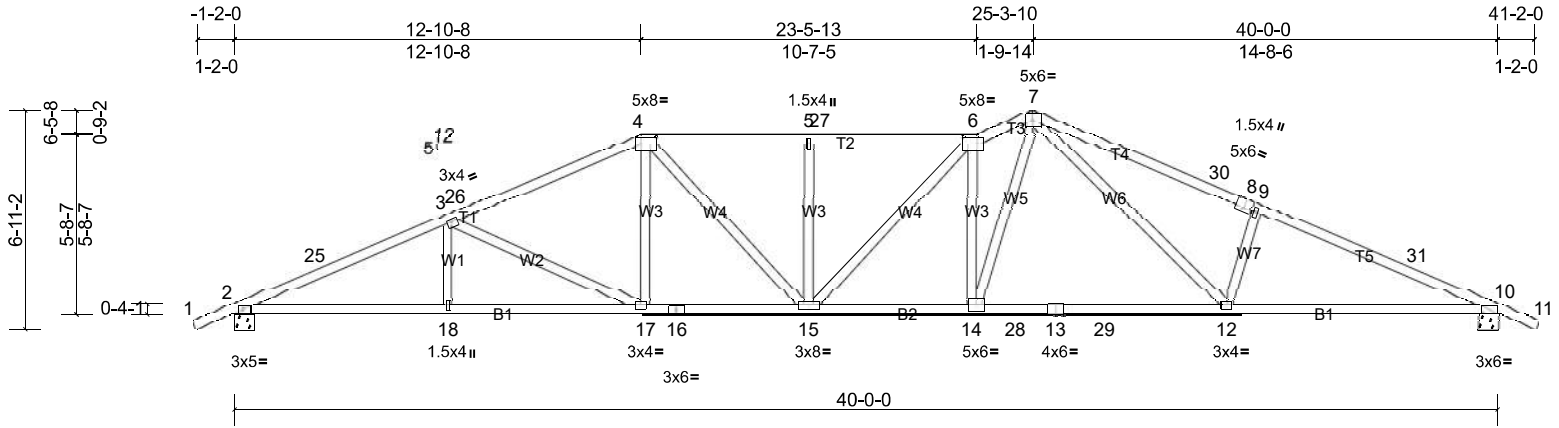
|           |       |              |     |     |                          |
|-----------|-------|--------------|-----|-----|--------------------------|
| Job       | Truss | Truss Type   | Qty | Ply | MAPLE G - BASE           |
| MAPLE F&G | H90   | Roof Special | 1   | 1   | Job Reference (optional) |

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Scale = 1:73

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

| Loading     | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | I/defl | L/d | PLATES         | GRIP     |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 16.0  | Plate Grip DOL  | 1.25            | TC        | 0.93 | Vert(LL) | 0.41  | 15    | >999   | 240 | MT20           | 244/190  |
| TCDL        | 7.0   | Lumber DOL      | 1.25            | BC        | 0.96 | Vert(CT) | -0.56 | 12-14 | >854   | 180 |                |          |
| BCLL        | 0.0*  | Rep Stress Incr | NO              | WB        | 0.86 | Horz(CT) | 0.14  | 10    | n/a    | n/a |                |          |
| BCDL        | 10.0  | Code            | FRC2023/TPI2014 | Matrix-MS |      |          |       |       |        |     | Weight: 211 lb | FT = 20% |

#### LUMBER

TOP CHORD 2x4 SP No.2 \*Except\* T5:2x4 SP No.1D  
BOT CHORD 2x4 SP No.1D \*Except\* B2:2x4 SP No.2  
WEBS 2x4 SP No.2

#### BRACING

TOP CHORD  
BOT CHORD

Structural wood sheathing directly applied.  
Rigid ceiling directly applied or 4-8-12 oc bracing.

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

**REACTIONS** (lb/size) 2=1376/0-7-10, (min. 0-1-9), 10=1376/0-7-10, (min. 0-1-9)  
Max Horiz 2=-204 (LC 11)  
Max Uplift 2=-982 (LC 10), 10=-819 (LC 11)  
Max Grav 2=1521 (LC 2), 10=1534 (LC 2)

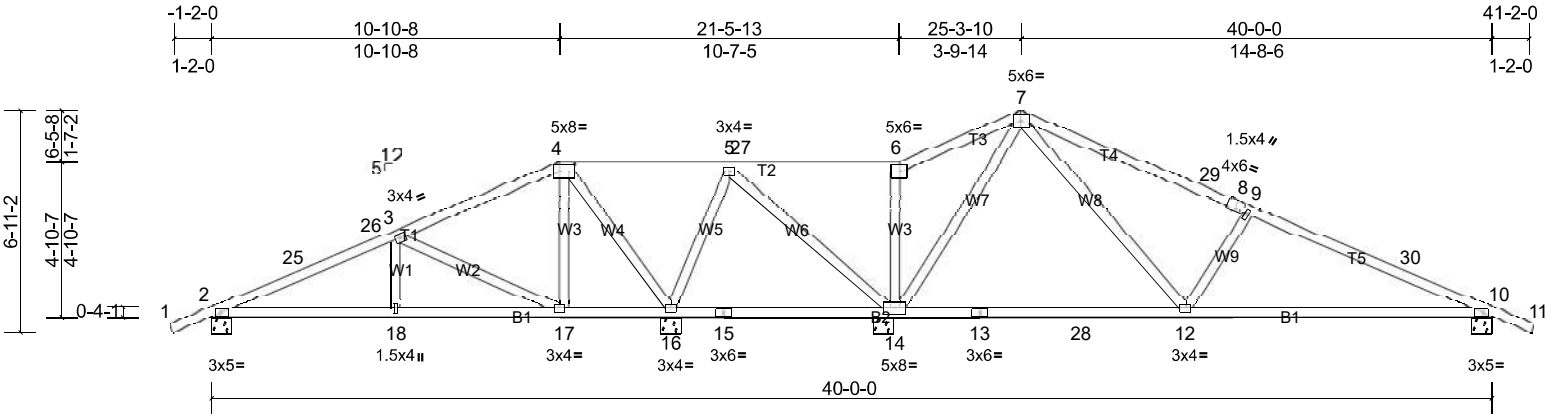
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-25=-3265/2193, 3-25=-3237/2206, 3-26=-2657/1875, 4-26=-2650/1894, 4-5=-2747/2037, 5-27=-2747/2037, 6-27=-2747/2037, 6-7=-2958/2135, 7-30=-3110/2196, 8-30=-3162/2176, 8-9=-3168/2173, 9-31=-3200/2121, 10-31=-3228/2105  
BOT CHORD 2-18=-1912/2988, 17-18=-1912/2988, 16-17=-1397/2417, 15-16=-1397/2417, 14-15=-1509/2708, 14-28=-1245/2259, 13-28=-1245/2259, 13-29=-1245/2259, 12-29=-1245/2259, 10-12=-1766/2954  
WEBS 3-18=0/268, 3-17=-643/577, 4-17=-168/477, 4-15=-293/471, 5-15=-278/379, 6-14=-1239/1015, 7-14=-980/1586, 7-12=-637/876, 9-12=-352/556

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 37-2-11 to 41-2-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 982 lb uplift at joint 2 and 819 lb uplift at joint 10.

**LOAD CASE(S)** Standard

|           |       |              |     |     |                          |
|-----------|-------|--------------|-----|-----|--------------------------|
| Job       | Truss | Truss Type   | Qty | Ply | MAPLE G - BASE           |
| MAPLE F&G | H91   | Roof Special | 1   | 1   | Job Reference (optional) |



Scale = 1:72

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

| Loading     | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES         | GRIP     |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 16.0  | Plate Grip DOL  | 1.25            | TC        | 0.80 | Vert(LL) | 0.22  | 12-24 | >999   | 240 | MT20           | 244/190  |
| TCDL        | 7.0   | Lumber DOL      | 1.25            | BC        | 0.96 | Vert(CT) | -0.36 | 12-24 | >624   | 180 |                |          |
| BCLL        | 0.0 * | Rep Stress Incr | NO              | WB        | 0.85 | Horz(CT) | 0.01  | 10    | n/a    | n/a |                |          |
| BCDL        | 10.0  | Code            | FRC2023/TPI2014 | Matrix-MS |      |          |       |       |        |     | Weight: 203 lb | FT = 20% |

LUMBER

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

**REACTIONS** All bearings 0-7-10.  
(lb) - Max Horiz 2=-204 (LC 11)  
Max Uplift All uplift 100 (lb) or less at joint(s) except 2=-314 (LC 10),  
10=-451 (LC 11), 14=-611 (LC 11), 16=-696 (LC 10)  
Max Grav All reactions 250 (lb) or less at joint(s) except 2=439 (LC 25),  
10=621 (LC 26), 14=1124 (LC 2), 16=933 (LC 25)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-25=-574/419, 25-26=-550/427, 3-26=-514/429, 4-5=-221/443, 5-27=-166/434, 6-27=-166/434, 6-7=-123/499,  
7-29=-658/556, 8-29=-715/536, 8-9=-721/533, 9-30=-843/625, 10-30=-864/610  
BOT CHORD 2-18=-395/523, 17-18=-395/523, 15-16=-365/409, 14-15=-365/409, 10-12=-427/778  
WEBS 3-17=-575/494, 4-17=-152/367, 4-16=-687/547, 5-16=-302/349, 7-14=-913/651, 7-12=-506/855, 9-12=-377/567

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 37-2-11 to 41-2-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 314 lb uplift at joint 2, 696 lb uplift at joint 16, 610 lb uplift at joint 14 and 450 lb uplift at joint 10.

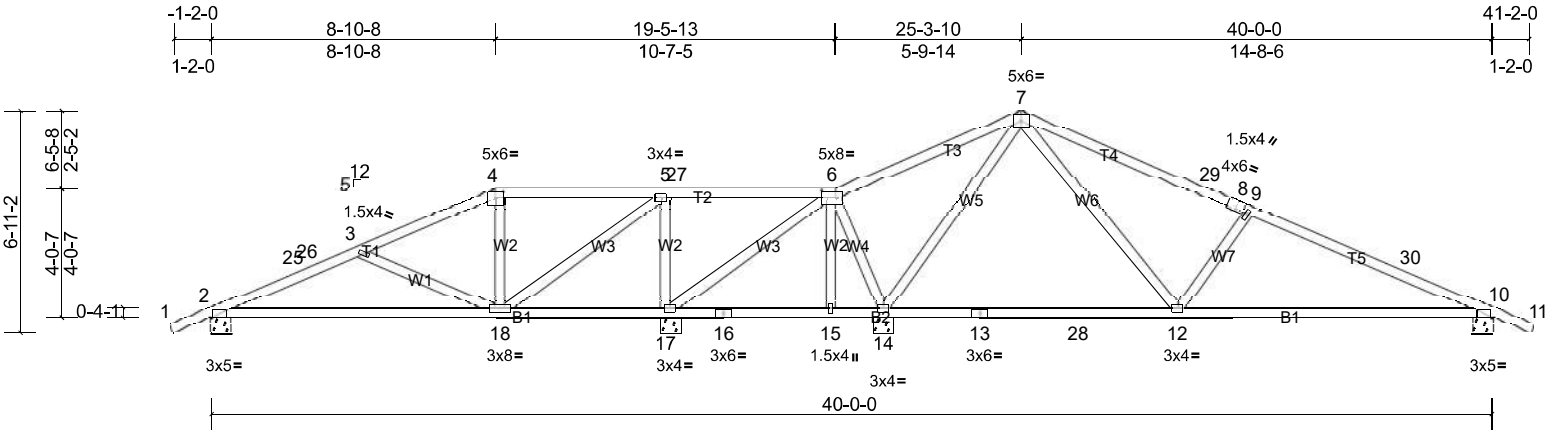
LOAD CASE(S) Standard

BRACING

TOP CHORD  
BOT CHORD

Structural wood sheathing directly applied or 5-3-15 oc purlins.  
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.

|           |       |              |     |     |                          |
|-----------|-------|--------------|-----|-----|--------------------------|
| Job       | Truss | Truss Type   | Qty | Ply | MAPLE G - BASE           |
| MAPLE F&G | H92   | Roof Special | 1   | 1   | Job Reference (optional) |



Scale = 1:72

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

| Loading     | (psf) | Spacing         | 2-0-0           | CSI       | 0.80 | DEFL     | in    | (loc) | l/defl | L/d | PLATES         | GRIP     |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 16.0  | Plate Grip DOL  | 1.25            | TC        | 0.80 | Vert(LL) | 0.22  | 12-24 | >999   | 240 | MT20           | 244/190  |
| TCDL        | 7.0   | Lumber DOL      | 1.25            | BC        | 1.00 | Vert(CT) | -0.39 | 12-24 | >582   | 180 |                |          |
| BCLL        | 0.0*  | Rep Stress Incr | NO              | WB        | 0.94 | Horz(CT) | 0.01  | 10    | n/a    | n/a |                |          |
| BCDL        | 10.0  | Code            | FRC2023/TPI2014 | Matrix-MS |      |          |       |       |        |     | Weight: 200 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD  
BOT CHORD

Structural wood sheathing directly applied or 5-0-0 oc purlins.  
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 0-7-10.  
(lb) - Max Horiz 2=-204 (LC 11)  
Max Uplift All uplift 100 (lb) or less at joint(s) except 2=-330 (LC 10),  
10=-475 (LC 11), 14=-544 (LC 11), 17=-673 (LC 10)  
Max Grav All reactions 250 (lb) or less at joint(s) except 2=476 (LC 25),  
10=654 (LC 2), 14=1155 (LC 2), 17=831 (LC 25)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-25=-631/565, 25-26=-600/566, 3-26=-580/572, 3-4=-351/265, 4-5=-286/297, 5-27=-193/335, 6-27=-193/335,  
6-7=-109/468, 7-29=-716/598, 8-29=-771/577, 8-9=-778/575, 9-30=-918/689, 10-30=-939/673  
BOT CHORD 2-18=-511/584, 17-18=-327/441, 16-17=-367/395, 15-16=-367/395, 14-15=-366/395, 10-12=-486/848  
WEBS 3-18=-344/464, 7-14=-934/686, 7-12=-473/839, 9-12=-378/571, 5-17=-654/658, 5-18=-533/727

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 37-2-11 to 41-2-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 329 lb uplift at joint 2, 543 lb uplift at joint 14, 475 lb uplift at joint 10 and 673 lb uplift at joint 17.

LOAD CASE(S) Standard

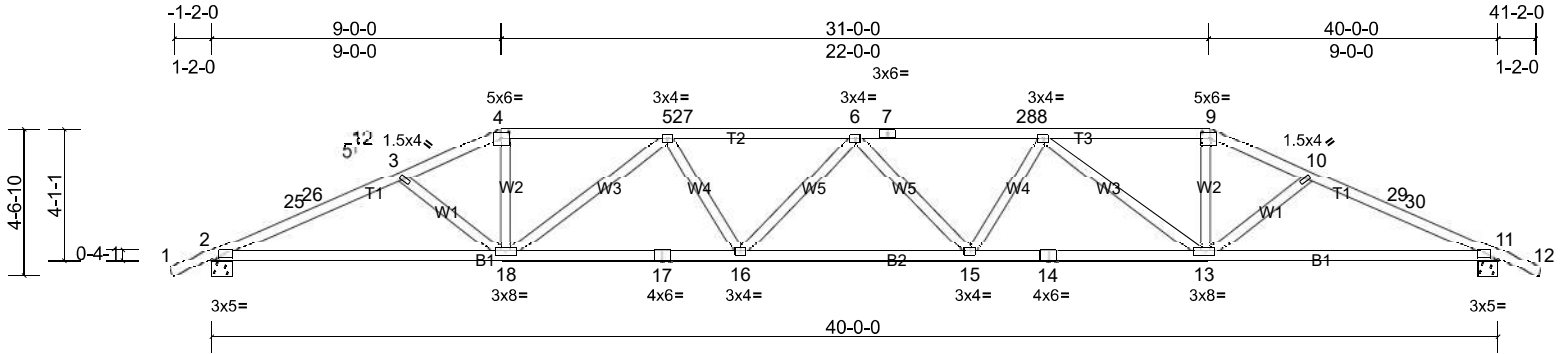
|           |       |            |     |     |                          |
|-----------|-------|------------|-----|-----|--------------------------|
| Job       | Truss | Truss Type | Qty | Ply | MAPLE G - BASE           |
| MAPLE F&G | H4509 | Hip        | 1   | 1   | Job Reference (optional) |

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Scale = 1:71.7

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

| Loading     | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES         | GRIP    |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|---------|
| TCLL (roof) | 16.0  | Plate Grip DOL  | 1.25            | TC        | 0.71 | Vert(LL) | 0.62  | 15-16 | >779   | 240 | MT20           | 244/190 |
| TCDL        | 7.0   | Lumber DOL      | 1.25            | BC        | 0.98 | Vert(CT) | -0.66 | 15-16 | >728   | 180 |                |         |
| BCLL        | 0.0 * | Rep Stress Incr | NO              | WB        | 0.66 | Horz(CT) | 0.16  | 11    | n/a    | n/a |                |         |
| BCDL        | 10.0  | Code            | FRC2023/TPI2014 | Matrix-MS |      |          |       |       |        |     | Weight: 192 lb | FT = 0% |

#### LUMBER

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.1D \*Except\* B2:2x4 SP No.2  
WEBS 2x4 SP No.2

#### BRACING

TOP CHORD  
BOT CHORD

Structural wood sheathing directly applied or 2-11-9 oc purlins.  
Rigid ceiling directly applied or 3-9-11 oc bracing.

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

**REACTIONS** (lb/size) 2=1376/0-7-10, (min. 0-1-8), 11=1376/0-7-10, (min. 0-1-8)  
Max Horiz 2=131 (LC 10)  
Max Uplift 2=-920 (LC 10), 11=-920 (LC 11)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-25=-2901/1924, 25-26=-2871/1925, 3-26=-2863/1934, 3-4=-2690/1829, 4-5=-2482/1734, 5-27=-3357/2402, 6-27=-3357/2402, 6-7=-3357/2402, 7-28=-3357/2402, 8-28=-3357/2402, 8-9=-2482/1734, 9-10=-2690/1829, 10-29=-2863/1934, 29-30=-2871/1925, 11-30=-2901/1924  
BOT CHORD 2-18=-1727/2651, 17-18=-2150/3195, 16-17=-2150/3195, 15-16=-2374/3483, 14-15=-2137/3195, 13-14=-2137/3195, 11-13=-1665/2650  
WEBS 3-18=-267/367, 4-18=-504/872, 9-13=-504/872, 10-13=-267/368, 5-16=-206/368, 5-18=-951/781, 6-16=-227/357, 6-15=-227/357, 8-15=-206/368, 8-13=-951/781

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 37-2-11 to 41-2-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 920 lb uplift at joint 2 and 920 lb uplift at joint 11.

**LOAD CASE(S)** Standard

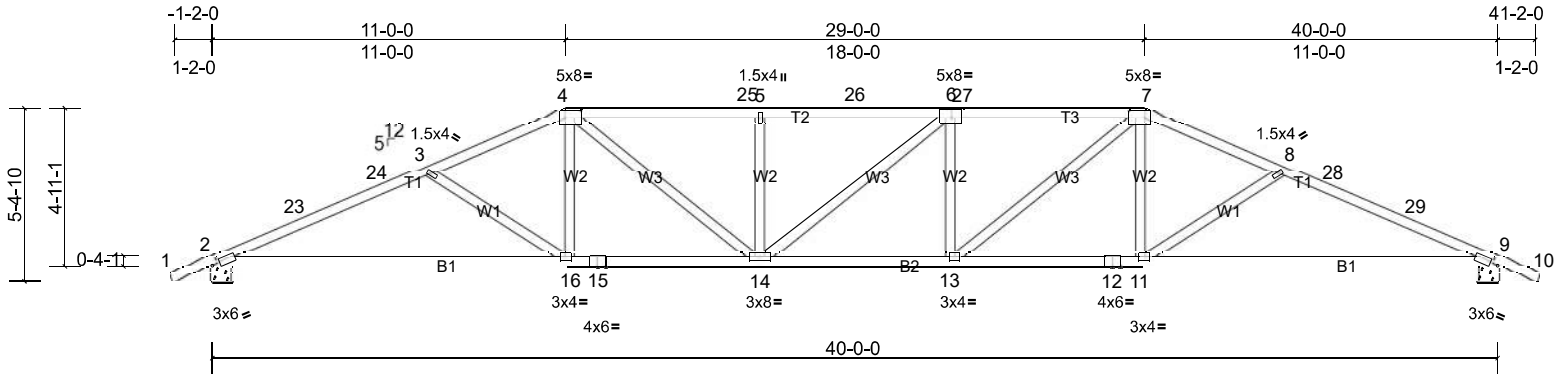
|           |       |            |     |     |                          |
|-----------|-------|------------|-----|-----|--------------------------|
| Job       | Truss | Truss Type | Qty | Ply | MAPLE G - BASE           |
| MAPLE F&G | H4511 | Hip        | 1   | 1   | Job Reference (optional) |

Maronda Homes, Sanford, user

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Scale = 1:71.7

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

| Loading     | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES         | GRIP    |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|---------|
| TCLL (roof) | 16.0  | Plate Grip DOL  | 1.25            | TC        | 0.88 | Vert(LL) | 0.47  | 13-14 | >999   | 240 | MT20           | 244/190 |
| TCDL        | 7.0   | Lumber DOL      | 1.25            | BC        | 0.90 | Vert(CT) | -0.71 | 16-19 | >672   | 180 |                |         |
| BCLL        | 0.0 * | Rep Stress Incr | NO              | WB        | 0.54 | Horz(CT) | 0.14  | 9     | n/a    | n/a |                |         |
| BCDL        | 10.0  | Code            | FRC2023/TPI2014 | Matrix-MS |      |          |       |       |        |     | Weight: 198 lb | FT = 0% |

#### LUMBER

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.1D \*Except\* B2:2x4 SP No.2  
WEBS 2x4 SP No.2

#### BRACING

TOP CHORD  
BOT CHORD

Structural wood sheathing directly applied or 2-5-10 oc purlins.  
Rigid ceiling directly applied or 4-5-12 oc bracing.

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

**REACTIONS** (lb/size) 2=1376/0-7-10, (min. 0-1-8), 9=1376/0-7-10, (min. 0-1-8)  
Max Horiz 2=157 (LC 10)  
Max Uplift 2=917 (LC 10), 9=917 (LC 11)

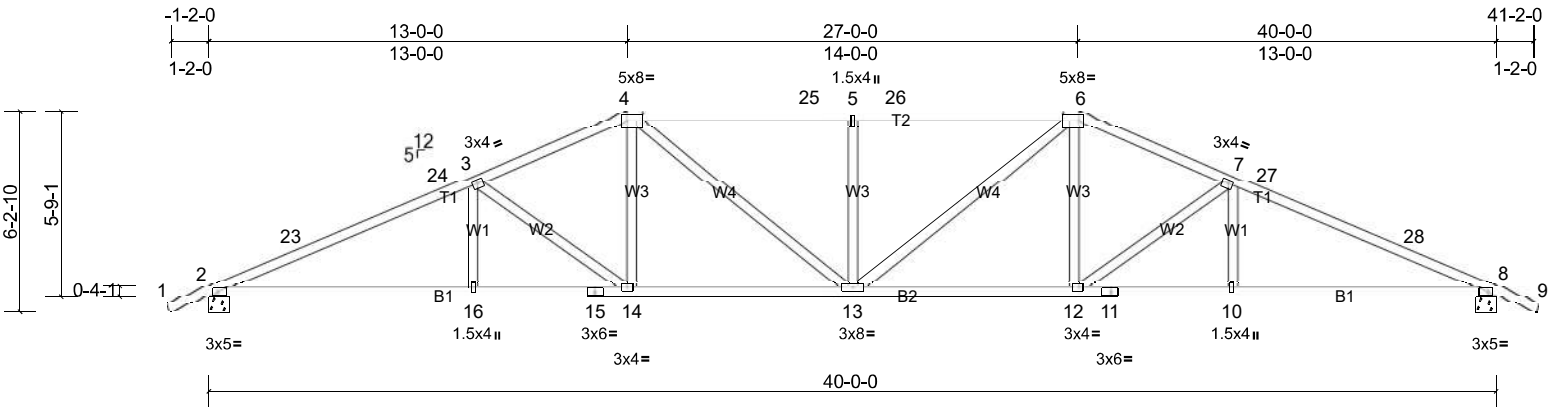
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-23=-2840/1913, 23-24=-2810/1916, 3-24=-2755/1925, 3-4=-2548/1708, 4-25=-2818/2002, 5-25=-2818/2002, 5-26=-2818/2002, 6-26=-2818/2002, 6-27=-2820/2005, 7-27=-2820/2005, 7-8=-2548/1708, 8-28=-2754/1925, 28-29=-2810/1916, 9-29=-2840/1913  
BOT CHORD 2-16=-1715/2594, 15-16=-1340/2318, 14-15=-1340/2318, 13-14=-1757/2817, 12-13=-1314/2318, 11-12=-1314/2318, 9-11=-1619/2594  
WEBS 4-16=-161/482, 7-11=-162/482, 5-14=-293/397, 4-14=-559/716, 6-13=-340/404, 7-13=-563/719, 3-16=-353/473, 8-11=-353/474

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 37-2-11 to 41-2-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 917 lb uplift at joint 2 and 917 lb uplift at joint 9.

**LOAD CASE(S)** Standard

|           |       |            |     |     |                          |
|-----------|-------|------------|-----|-----|--------------------------|
| Job       | Truss | Truss Type | Qty | Ply | MAPLE G - BASE           |
| MAPLE F&G | H4513 | Hip        | 1   | 1   | Job Reference (optional) |



Scale = 1:71.6

|                                                                          |       |                 |                 |            |      |             |       |       |        |     |                        |             |
|--------------------------------------------------------------------------|-------|-----------------|-----------------|------------|------|-------------|-------|-------|--------|-----|------------------------|-------------|
| Plate Offsets (X, Y): [4:0-5-12,0-2-8], [6:0-5-12,0-2-8], [7:Edge,0-0-0] |       |                 |                 |            |      |             |       |       |        |     |                        |             |
| <b>Loading</b>                                                           | (psf) | <b>Spacing</b>  | 2-0-0           | <b>CSI</b> |      | <b>DEFL</b> | in    | (loc) | I/defl | L/d | <b>PLATES</b>          | <b>GRIP</b> |
| TCLL (roof)                                                              | 16.0  | Plate Grip DOL  | 1.25            | TC         | 0.86 | Vert(LL)    | 0.35  | 13    | >999   | 240 | MT20                   | 244/190     |
| TCDL                                                                     | 7.0   | Lumber DOL      | 1.25            | BC         | 0.79 | Vert(CT)    | -0.41 | 13-14 | >999   | 180 |                        |             |
| BCLL                                                                     | 0.0*  | Rep Stress Incr | NO              | WB         | 0.56 | Horz(CT)    | 0.13  | 8     | n/a    | n/a |                        |             |
| BCDL                                                                     | 10.0  | Code            | FRC2023/TPI2014 | Matrix-MS  |      |             |       |       |        |     | Weight: 201 lb FT = 0% |             |

**LUMBER**

TOP CHORD 2x4 SP No.1D \*Except\* T2:2x4 SP No.2

BOT CHORD 2x4 SP No.1D \*Except\* B2:2x4 SP No.2

WEBS 2x4 SP No.2

**BRACING**

TOP CHORD

BOT CHORD

**REACTIONS** (lb/size) 2=1376/0-7-10, (min. 0-1-8), 8=1376/0-7-10, (min. 0-1-8)

Max Horiz 2=182 (LC 10)

Max Uplift 2=-914 (LC 10), 8=-914 (LC 11)

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

TOP CHORD 2-23=-2846/1842, 23-24=-2787/1847, 3-24=-2726/1860, 3-4=-2357/1663, 4-25=-2469/1813, 5-25=-2469/1813, 5-26=-2469/1813, 6-26=-2469/1813, 6-7=-2357/1663, 7-27=-2726/1860, 27-28=-2786/1847, 8-28=-2846/1842

BOT CHORD 2-16=-1636/2572, 15-16=-1636/2572, 14-15=-1636/2572, 13-14=-1200/2136, 12-13=-1194/2136, 11-12=-1543/2572, 10-11=-1543/2572, 8-10=-1543/2572

WEBS 3-16=0/281, 3-14=-563/541, 4-14=-231/465, 4-13=-427/532, 5-13=-372/508, 6-13=-427/532, 6-12=-232/465, 7-12=-563/542, 7-10=0/281

**NOTES**

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

2) Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 37-2-11 to 41-2-11 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 3-06-00 tall by 2-00-00 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 914 lb uplift at joint 2 and 914 lb uplift at joint 8.

**LOAD CASE(S)** Standard

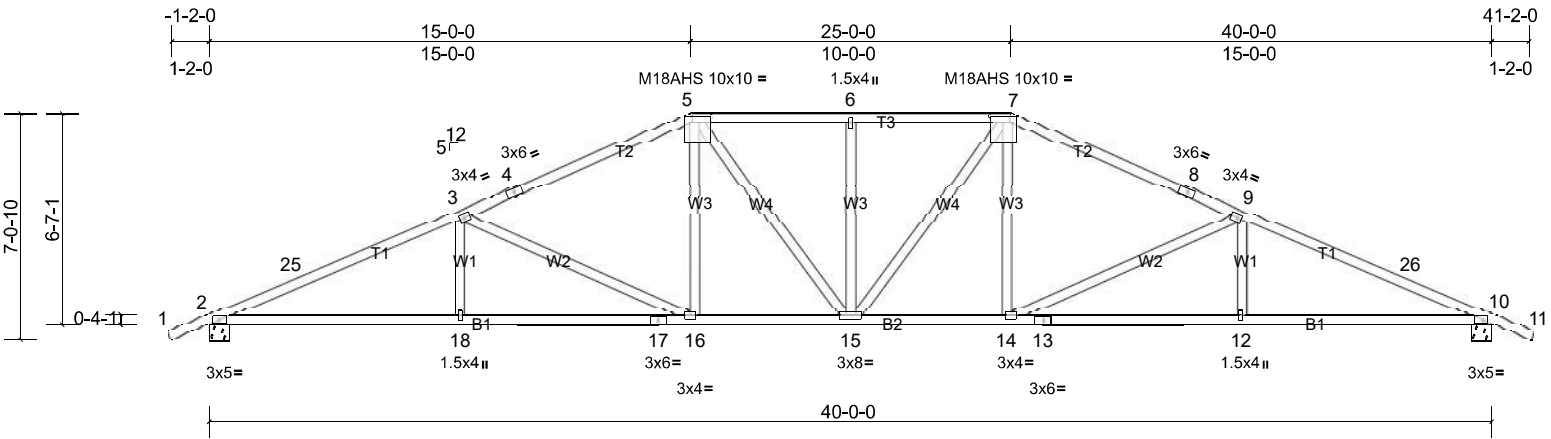
Structural wood sheathing directly applied or 2-11-15 oc purlins.

Rigid ceiling directly applied or 4-7-8 oc bracing.

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



|           |       |            |     |     |                          |
|-----------|-------|------------|-----|-----|--------------------------|
| Job       | Truss | Truss Type | Qty | Ply | MAPLE G - BASE           |
| MAPLE F&G | H4515 | Hip        | 2   | 1   | Job Reference (optional) |



Scale = 1:71.9

|                                                          |       |                 |                 |            |      |             |       |       |                         |
|----------------------------------------------------------|-------|-----------------|-----------------|------------|------|-------------|-------|-------|-------------------------|
| Plate Offsets (X, Y): [5:0-7-12,0-2-8], [7:0-7-12,0-2-8] |       |                 |                 |            |      |             |       |       |                         |
| <b>Loading</b>                                           | (psf) | <b>Spacing</b>  | 2-0-0           | <b>CSI</b> |      | <b>DEFL</b> | in    | (loc) | <b>PLATES</b>           |
| TCLL (roof)                                              | 16.0  | Plate Grip DOL  | 1.25            | TC         | 1.00 | Vert(LL)    | 0.35  | 15-16 | M18AHS                  |
| TCDL                                                     | 7.0   | Lumber DOL      | 1.25            | BC         | 0.95 | Vert(CT)    | -0.41 | 16-18 | MT20                    |
| BCLL                                                     | 0.0*  | Rep Stress Incr | NO              | WB         | 0.80 | Horz(CT)    | 0.15  | 10    |                         |
| BCDL                                                     | 10.0  | Code            | FRC2023/TPI2014 | Matrix-MS  |      |             |       |       |                         |
|                                                          |       |                 |                 |            |      |             |       |       | <b>GRIP</b>             |
|                                                          |       |                 |                 |            |      |             |       |       | 186/179                 |
|                                                          |       |                 |                 |            |      |             |       |       | 244/190                 |
|                                                          |       |                 |                 |            |      |             |       |       | Weight: 208 lb FT = 20% |

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

**BRACING**  
TOP CHORD  
BOT CHORD

**REACTIONS** (lb/size) 2=1376/0-7-10, (min. 0-1-10), 10=1376/0-7-10, (min. 0-1-10)  
Max Horiz 2=208 (LC 10)  
Max Uplift 2=-910 (LC 10), 10=-910 (LC 11)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 5-6=-2110/1611, 6-7=-2110/1611, 2-25=-2890/1847, 3-25=-2837/1864, 3-4=-2213/1532, 4-5=-2141/1553, 7-8=-2141/1553, 8-9=-2213/1532, 9-26=-2837/1864, 10-26=-2890/1847  
BOT CHORD 2-18=-1698/2619, 17-18=-1698/2619, 16-17=-1698/2619, 15-16=-1077/1984, 14-15=-1077/1984, 13-14=-1559/2619, 12-13=-1559/2619, 10-12=-1559/2619  
WEBS 3-18=0/322, 3-16=-721/694, 5-16=-201/488, 7-15=-294/327, 7-14=-202/488, 9-14=-721/695, 9-12=0/322, 6-15=-248/332, 5-15=-295/327

Structural wood sheathing directly applied or 2-8-10 oc purlins.  
Rigid ceiling directly applied or 4-2-1 oc bracing.

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

- NOTES**  
1) Unbalanced roof live loads have been considered for this design.  
2) Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 37-2-11 to 41-2-11 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) **WARNING:** Top chord live load is below minimum required by FRC. The building design professional for the overall structure to verify adequacy of top chord live load.  
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'-06"-00 tall by 2'-00"-00 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 910 lb uplift at joint 2 and 910 lb uplift at joint 10.
- LOAD CASE(S)** Standard

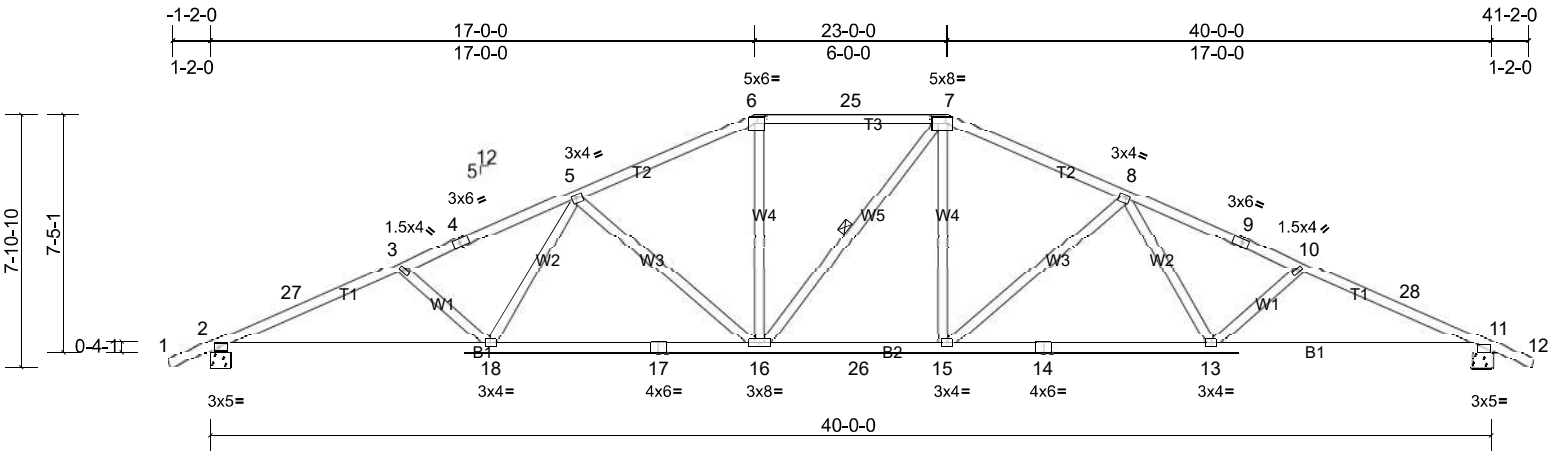
|           |       |            |     |     |                          |
|-----------|-------|------------|-----|-----|--------------------------|
| Job       | Truss | Truss Type | Qty | Ply | MAPLE G - BASE           |
| MAPLE F&G | H4517 | Hip        | 2   | 1   | Job Reference (optional) |

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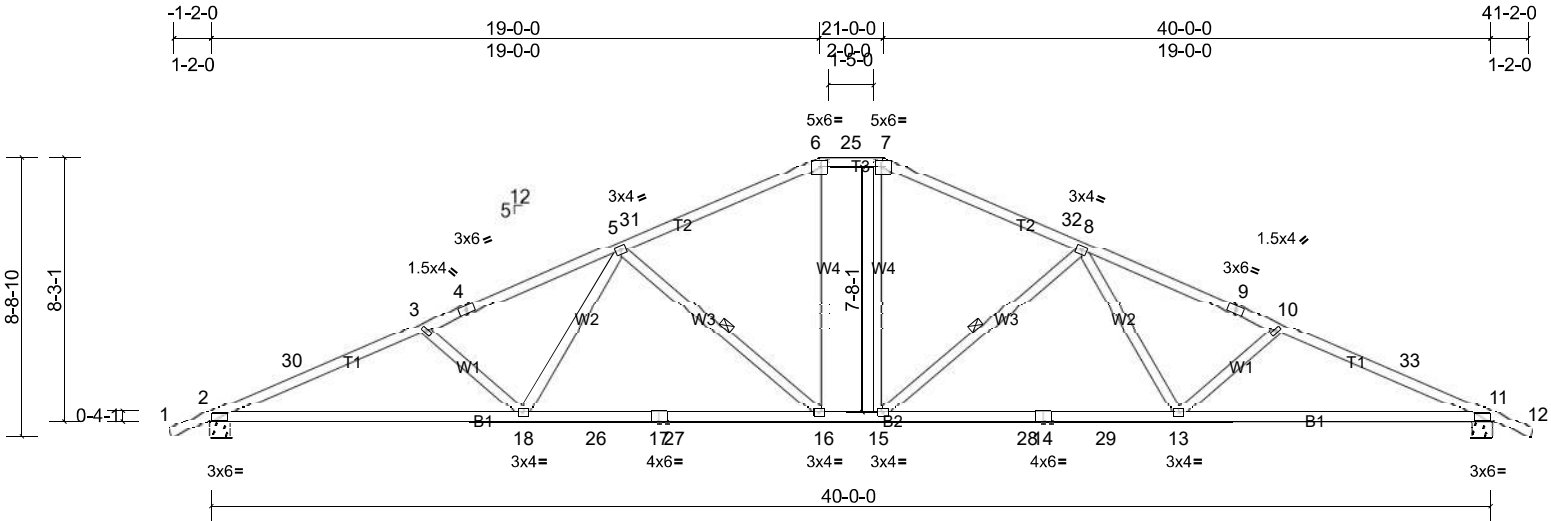
|           |       |            |     |     |                          |
|-----------|-------|------------|-----|-----|--------------------------|
| Job       | Truss | Truss Type | Qty | Ply | MAPLE G - BASE           |
| MAPLE F&G | H4519 | Hip        | 2   | 1   | Job Reference (optional) |

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Scale = 1:72

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

| Loading     | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | I/defl | L/d | PLATES         | GRIP     |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 16.0  | Plate Grip DOL  | 1.25            | TC        | 0.78 | Vert(LL) | 0.44  | 16-18 | >999   | 240 | MT20           | 244/190  |
| TCDL        | 7.0   | Lumber DOL      | 1.25            | BC        | 0.90 | Vert(CT) | -0.62 | 16-18 | >775   | 180 |                |          |
| BCLL        | 0.0 * | Rep Stress Incr | NO              | WB        | 0.31 | Horz(CT) | 0.13  | 11    | n/a    | n/a |                |          |
| BCDL        | 10.0  | Code            | FRC2023/TPI2014 | Matrix-MS |      |          |       |       |        |     | Weight: 204 lb | FT = 20% |

#### LUMBER

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.1D  
WEBS 2x4 SP No.2

#### BRACING

TOP CHORD  
BOT CHORD  
WEBS

Structural wood sheathing directly applied or 2-5-10 oc purlins.  
Rigid ceiling directly applied or 4-10-4 oc bracing.  
1 Row at midpt 5-16, 8-15

**REACTIONS** (lb/size) 2=1376/0-7-10, (min. 0-1-9), 11=1376/0-7-10, (min. 0-1-9)  
Max Horiz 2=259 (LC 10)  
Max Uplift 2=-901 (LC 10), 11=-901 (LC 11)  
Max Grav 2=1543 (LC 2), 11=1543 (LC 2)

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

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 6-25=-1921/1288, 7-25=-1921/1288, 2-30=-3249/1802, 3-30=-3227/1814, 3-4=-3050/1632, 4-5=-2969/1650, 5-31=-2120/1296, 6-31=-2112/1316, 7-32=-2112/1316, 8-32=-2120/1296, 8-9=-2969/1650, 9-10=-3050/1632, 10-33=-3227/1815, 11-33=-3249/1802  
BOT CHORD 2-18=-1791/2979, 18-26=-1310/2450, 17-26=-1310/2450, 17-27=-1310/2450, 16-27=-1310/2450, 15-16=-768/1921, 15-28=-1162/2450, 14-28=-1162/2450, 14-29=-1162/2450, 13-29=-1162/2450, 11-13=-1532/2979  
WEBS 3-18=-322/470, 5-18=-259/669, 5-16=-727/715, 6-16=-283/655, 7-15=-283/655, 8-15=-727/716, 8-13=-260/669, 10-13=-322/470

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 37-2-11 to 41-2-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- WARNING: Top chord live load is below minimum required by FRC. The building design professional for the overall structure to verify adequacy of top chord live load.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 901 lb uplift at joint 2 and 901 lb uplift at joint 11.

**LOAD CASE(S)** Standard

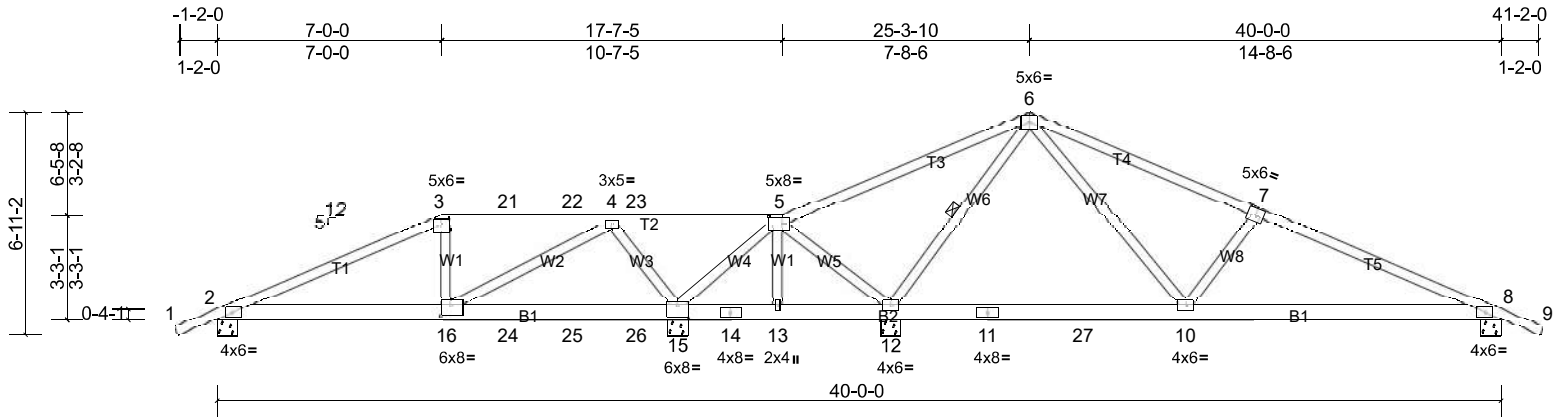
|           |       |                     |     |     |                          |
|-----------|-------|---------------------|-----|-----|--------------------------|
| Job       | Truss | Truss Type          | Qty | Ply | MAPLE G - BASE           |
| MAPLE F&G | HGR93 | Roof Special Girder | 1   | 1   | Job Reference (optional) |

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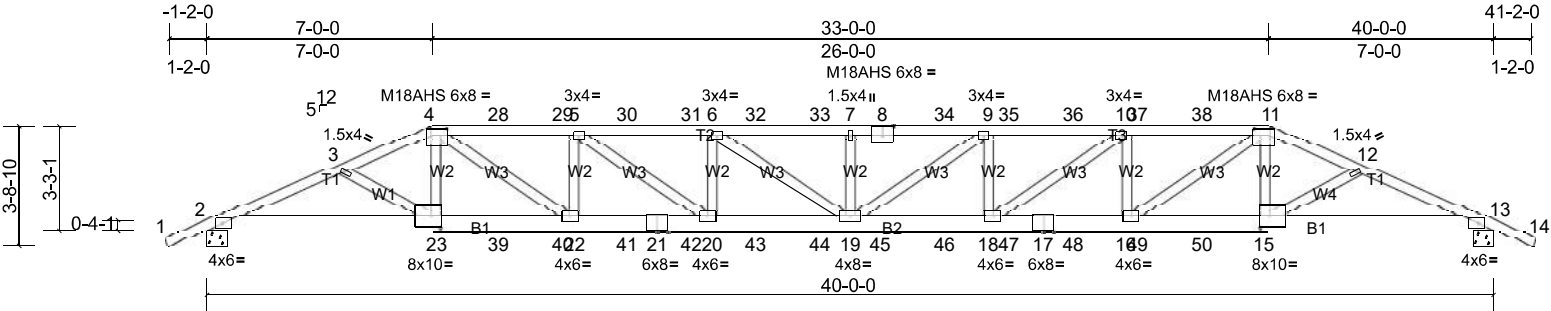
|           |         |            |     |     |                          |
|-----------|---------|------------|-----|-----|--------------------------|
| Job       | Truss   | Truss Type | Qty | Ply | MAPLE G - BASE           |
| MAPLE F&G | HGR4507 | Hip Girder | 1   | 2   | Job Reference (optional) |

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Scale = 1:71.6

Plate Offsets (X, Y): [4:0-5-12,0-2-8], [8:0-4-0,Edge], [11:0-5-12,0-2-8], [15:0-3-8,0-4-0], [23:0-3-8,0-4-0]

| Loading     | (psf) | Spacing         | 2-0-0           | CSI       | DEFL | in       | (loc) | I/defl | L/d  | PLATES | GRIP                   |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|------------------------|
| TCLL (roof) | 16.0  | Plate Grip DOL  | 1.25            | TC        | 0.96 | Vert(LL) | 1.24  | 19     | >388 | 240    | M18AHS 186/179         |
| TCDL        | 7.0   | Lumber DOL      | 1.25            | BC        | 0.98 | Vert(CT) | -1.03 | 19     | >466 | 180    | MT20 244/190           |
| BCLL        | 0.0*  | Rep Stress Incr | NO              | WB        | 0.33 | Horz(CT) | -0.20 | 13     | n/a  | n/a    |                        |
| BCDL        | 10.0  | Code            | FRC2023/TPI2014 | Matrix-MS |      |          |       |        |      |        | Weight: 472 lb FT = 0% |

#### LUMBER

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.2

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 3-5-13 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 5-2-3 oc bracing.

**REACTIONS** (lb/size) 2=2850/0-7-10, (min. 0-1-11), 13=2850/0-7-10, (min. 0-1-11)  
Max Horiz 2=106 (LC 8)  
Max Uplift 2=-2480 (LC 4), 13=-2480 (LC 5)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-6921/6114, 3-4=-6784/6053, 4-28=-8735/7939, 28-29=-8735/7939, 5-29=-8735/7939, 5-30=-10172/9246, 30-31=-10172/9246, 6-31=-10172/9246, 6-32=-10620/9657, 32-33=-10620/9657, 7-33=-10620/9657, 7-8=-10620/9657, 8-34=-10620/9657, 9-34=-10620/9657, 9-35=-10172/9246, 35-36=-10172/9246, 10-36=-10172/9246, 10-37=-8734/7938, 37-38=-8734/7938, 11-38=-8734/7938, 11-12=-6784/6052, 12-13=-6921/6114  
BOT CHORD 2-23=-5566/6364, 23-39=-5494/6290, 39-40=-5494/6290, 22-40=-5494/6290, 22-41=-7782/8735, 21-41=-7782/8735, 21-42=-7782/8735, 20-42=-7782/8735, 20-43=-9089/10172, 43-44=-9089/10172, 19-44=-9089/10172, 19-45=-9085/10172, 45-46=-9085/10172, 18-46=-9085/10172, 18-47=-7772/8734, 17-47=-7772/8734, 17-48=-7772/8734, 16-48=-7772/8734, 16-49=-5481/6290, 49-50=-5481/6290, 15-50=-5481/6290, 13-15=-5540/6364  
WEBS 4-23=-648/854, 11-15=-646/854, 3-23=-155/288, 12-15=-155/289, 5-22=-1139/1186, 4-22=-2732/2948, 5-20=-1581/1755, 6-20=-481/573, 6-19=-645/565, 7-19=-154/285, 9-19=-646/566, 9-18=-481/573, 10-18=-1581/1755, 10-16=-1139/1186, 11-16=-2732/2948

#### NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2480 lb uplift at joint 2 and 2480 lb uplift at joint 13.

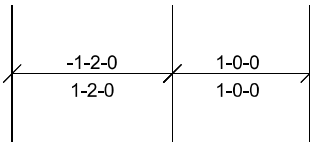
|           |         |            |     |     |                          |
|-----------|---------|------------|-----|-----|--------------------------|
| Job       | Truss   | Truss Type | Qty | Ply | MAPLE G - BASE           |
| MAPLE F&G | HGR4507 | Hip Girder | 1   | 2   | Job Reference (optional) |

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 53 lb down and 141 lb up at 7-0-0, 8 lb down and 47 lb up at 9-0-12, 8 lb down and 47 lb up at 11-0-12, 8 lb down and 47 lb up at 13-0-12, 8 lb down and 47 lb up at 15-0-12, 8 lb down and 47 lb up at 17-0-12, 8 lb down and 47 lb up at 19-0-12, 8 lb down and 47 lb up at 20-11-4, 8 lb down and 47 lb up at 22-11-4, 8 lb down and 47 lb up at 24-11-4, 8 lb down and 47 lb up at 26-11-4, 8 lb down and 47 lb up at 28-11-4, and 8 lb down and 47 lb up at 30-11-4, and 53 lb down and 141 lb up at 33-0-0 on top chord, and 473 lb down and 452 lb up at 7-0-0, 184 lb down and 162 lb up at 9-0-12, 184 lb down and 162 lb up at 11-0-12, 184 lb down and 162 lb up at 13-0-12, 184 lb down and 162 lb up at 15-0-12, 184 lb down and 162 lb up at 17-0-12, 184 lb down and 162 lb up at 19-0-12, 184 lb down and 162 lb up at 20-11-4, 184 lb down and 162 lb up at 22-11-4, 184 lb down and 162 lb up at 24-11-4, 184 lb down and 162 lb up at 26-11-4, 184 lb down and 162 lb up at 28-11-4, and 184 lb down and 162 lb up at 30-11-4, and 473 lb down and 452 lb up at 32-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

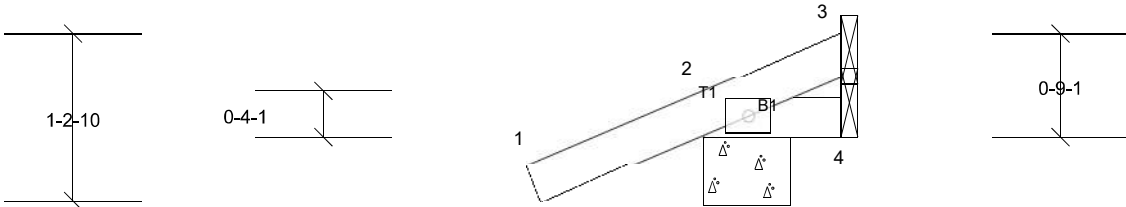
LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (lb/ft)
- Vert: 1-4=-46, 4-11=-46, 11-14=-46, 2-13=-20
- Concentrated Loads (lb)
- Vert: 4=2, 8=17, 11=2, 23=-473, 15=-473, 28=17, 29=17, 30=17, 31=17, 32=17, 33=17, 34=17, 35=17, 36=17, 37=17, 38=17, 39=-184, 40=-184, 41=-184, 42=-184, 43=-184, 44=-184, 45=-184, 46=-184, 47=-184, 48=-184, 49=-184, 50=-184

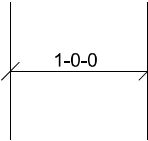
|           |       |            |     |     |                          |
|-----------|-------|------------|-----|-----|--------------------------|
| Job       | Truss | Truss Type | Qty | Ply | MAPLE G - BASE           |
| MAPLE F&G | J15   | Jack-Open  | 8   | 1   | Job Reference (optional) |



12  
5



3x4 =



Scale = 1:16.8

| Loading     | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL     | in   | (loc) | I/defl | L/d | PLATES       | GRIP     |
|-------------|-------|-----------------|-----------------|-----------|------|----------|------|-------|--------|-----|--------------|----------|
| TCLL (roof) | 16.0  | Plate Grip DOL  | 1.25            | TC        | 0.25 | Vert(LL) | 0.00 | 7     | >999   | 240 | MT20         | 244/190  |
| TCDL        | 7.0   | Lumber DOL      | 1.25            | BC        | 0.04 | Vert(CT) | 0.00 | 7     | >999   | 180 |              |          |
| BCLL        | 0.0*  | Rep Stress Incr | NO              | WB        | 0.00 | Horz(CT) | 0.00 | 4     | n/a    | n/a |              |          |
| BCDL        | 10.0  | Code            | FRC2023/TPI2014 | Matrix-MP |      |          |      |       |        |     | Weight: 5 lb | FT = 20% |

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

**BRACING**  
TOP CHORD  
BOT CHORD

Structural wood sheathing directly applied or 1-0-0 oc purlins.  
Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 2=124/0-7-10, (min. 0-1-8), 3=3/ Mechanical, (min. 0-1-8), 4=-5/ Mechanical, (min. 0-1-8)  
Max Horiz 2=60 (LC 10)  
Max Uplift 2=-150 (LC 6), 3=-2 (LC 10), 4=-5 (LC 1)  
Max Grav 2=124 (LC 1), 3=10 (LC 6), 4=29 (LC 6)

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

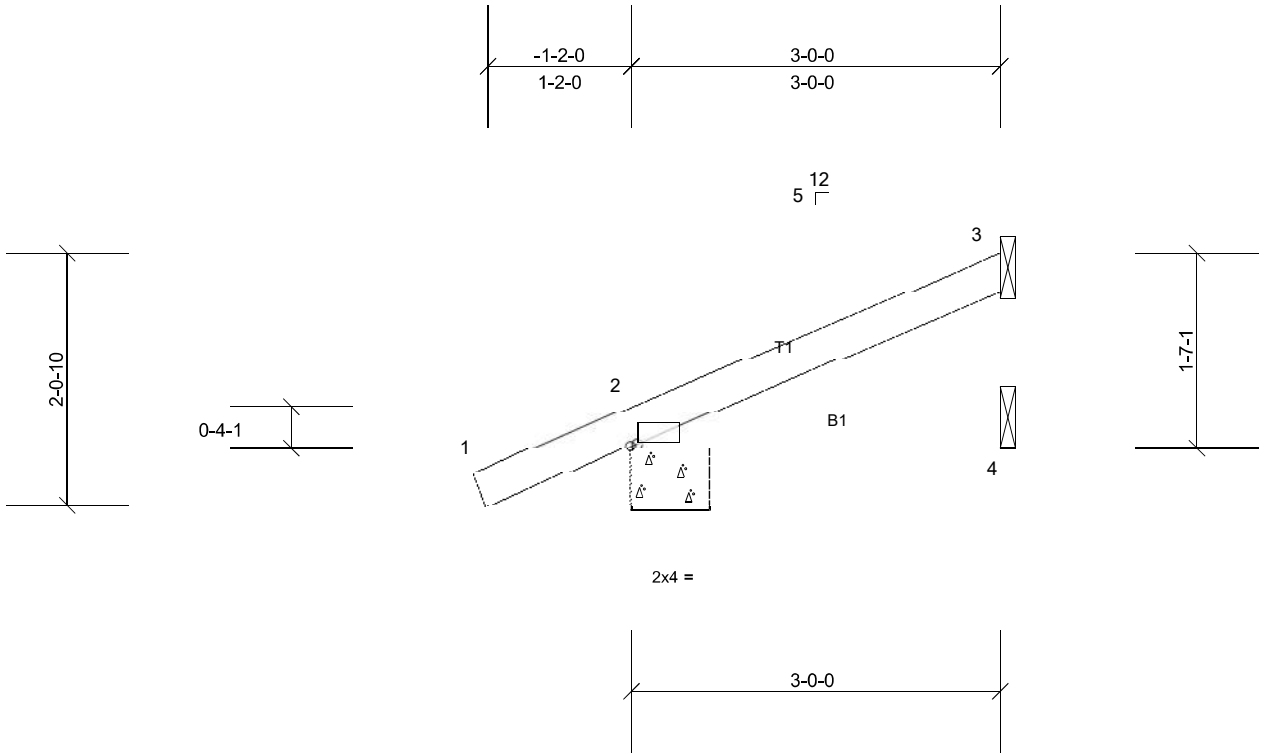
**NOTES**  
1) Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60  
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.  
3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.  
4) Refer to girder(s) for truss to truss connections.  
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 3, 150 lb uplift at joint 2 and 5 lb uplift at joint 4.

**LOAD CASE(S)** Standard

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

|           |       |            |     |     |                          |
|-----------|-------|------------|-----|-----|--------------------------|
| Job       | Truss | Truss Type | Qty | Ply | MAPLE G - BASE           |
| MAPLE F&G | J35   | Jack-Open  | 8   | 1   | Job Reference (optional) |

Maronda Homes, Sanford, user



Scale = 1:18.7

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

| Loading     | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | I/defl | L/d | PLATES        | GRIP     |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 16.0  | Plate Grip DOL  | 1.25            | TC        | 0.25 | Vert(LL) | 0.01  | 4-7   | >999   | 240 | MT20          | 244/190  |
| TCDL        | 7.0   | Lumber DOL      | 1.25            | BC        | 0.10 | Vert(CT) | -0.01 | 4-7   | >999   | 180 |               |          |
| BCLL        | 0.0 * | Rep Stress Incr | NO              | WB        | 0.00 | Horz(CT) | 0.00  | 3     | n/a    | n/a |               |          |
| BCDL        | 10.0  | Code            | FRC2023/TPI2014 | Matrix-MP |      |          |       |       |        |     | Weight: 11 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

**REACTIONS** (lb/size) 2=165/0-7-10, (min. 0-1-8), 3=54/ Mechanical, (min. 0-1-8), 4=32/ Mechanical, (min. 0-1-8)

Max Horiz 2=118 (LC 10)

Max Uplift 2=-135 (LC 10), 3=-77 (LC 10), 4=-1 (LC 10)

Max Grav 2=165 (LC 1), 3=54 (LC 1), 4=50 (LC 3)

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

NOTES

- Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 3, 135 lb uplift at joint 2 and 1 lb uplift at joint 4.

**LOAD CASE(S)** Standard

BRACING

TOP CHORD

BOT CHORD

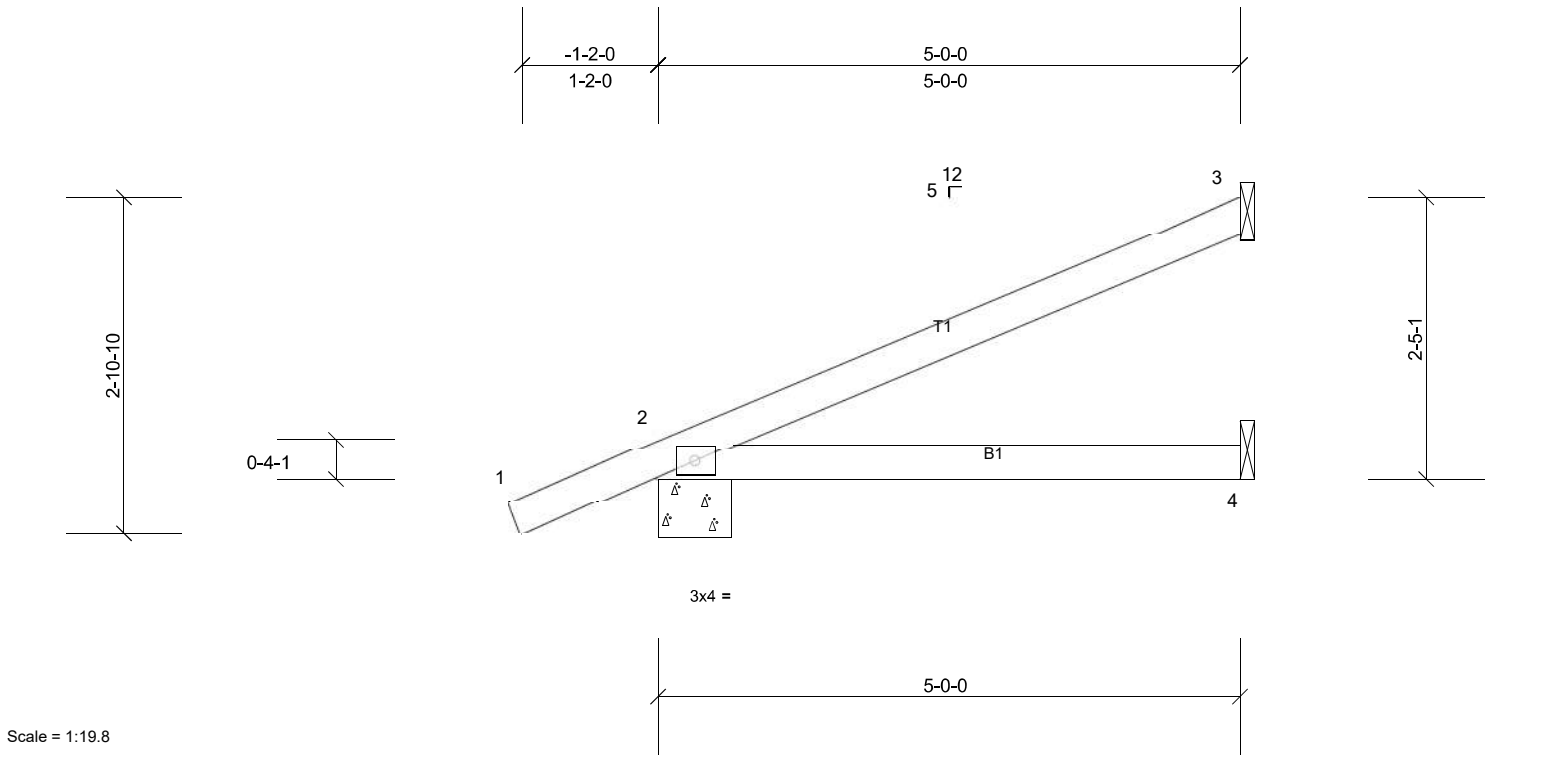
Structural wood sheathing directly applied or 3-0-0 oc purlins.

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.



|           |       |            |     |     |                          |
|-----------|-------|------------|-----|-----|--------------------------|
| Job       | Truss | Truss Type | Qty | Ply | MAPLE G - BASE           |
| MAPLE F&G | J55   | Jack-Open  | 6   | 1   | Job Reference (optional) |



Scale = 1:19.8

| Loading     | (psf) | Spacing         | 2'-0"-0"        | CSI       |      | DEFL     | in    | (loc) | I/defl | L/d | PLATES        | GRIP     |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 16.0  | Plate Grip DOL  | 1.25            | TC        | 0.55 | Vert(LL) | 0.06  | 4-7   | >999   | 240 | MT20          | 244/190  |
| TCDL        | 7.0   | Lumber DOL      | 1.25            | BC        | 0.42 | Vert(CT) | -0.06 | 4-7   | >953   | 180 |               |          |
| BCLL        | 0.0*  | Rep Stress Incr | NO              | WB        | 0.00 | Horz(CT) | 0.00  | 3     | n/a    | n/a |               |          |
| BCDL        | 10.0  | Code            | FRC2023/TPI2014 | Matrix-MP |      |          |       |       |        |     | Weight: 18 lb | FT = 20% |

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

**BRACING**  
TOP CHORD  
BOT CHORD

**REACTIONS** (lb/size) 2=226/0-7-10, (min. 0-1-8), 3=98/ Mechanical, (min. 0-1-8), 4=58/ Mechanical, (min. 0-1-8)  
Max Horiz 2=177 (LC 10)  
Max Uplift 2=-167 (LC 10), 3=-144 (LC 10), 4=-4 (LC 10)  
Max Grav 2=226 (LC 1), 3=98 (LC 1), 4=88 (LC 3)

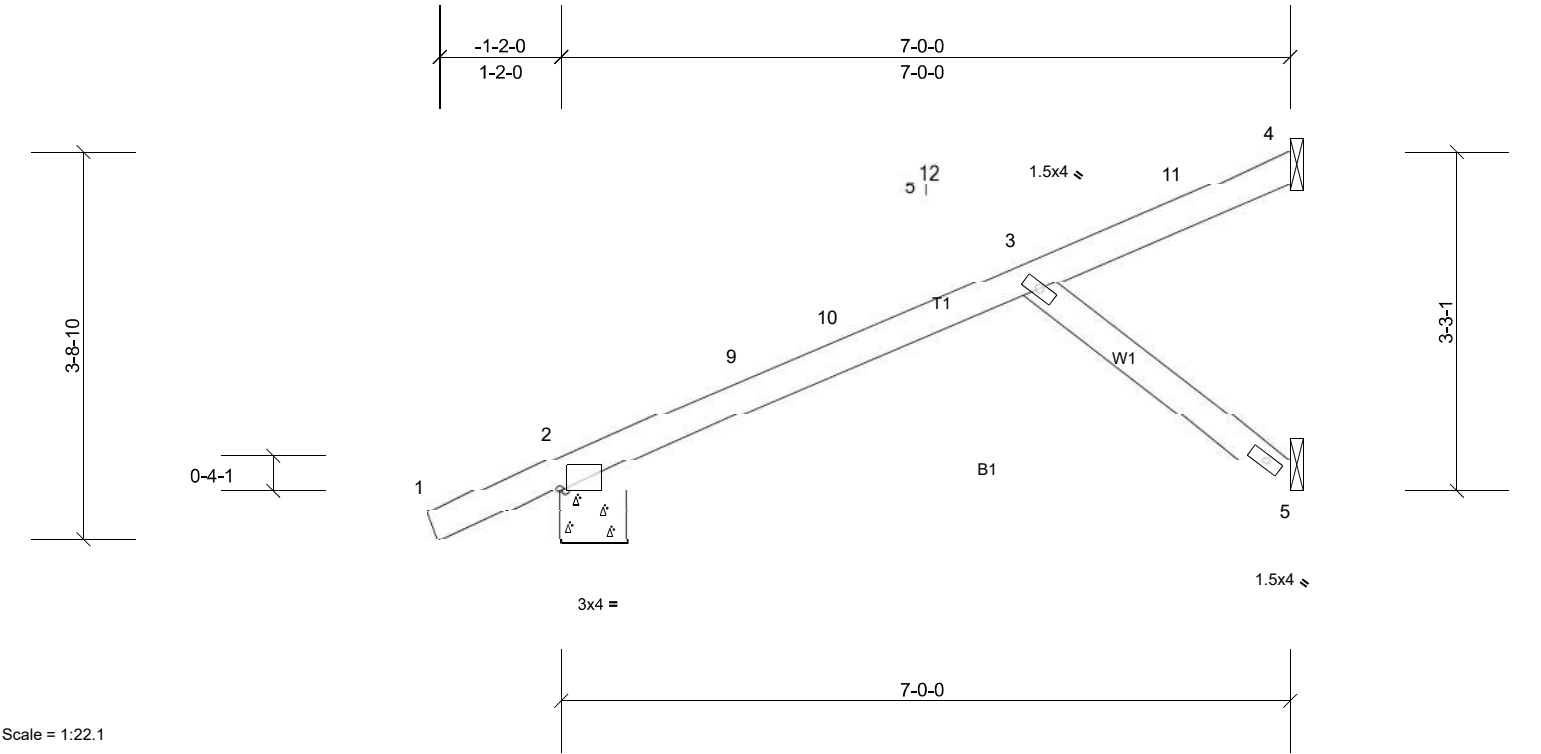
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**NOTES**  
1) Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60  
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.  
3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.  
4) Refer to girder(s) for truss to truss connections.  
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 144 lb uplift at joint 3, 167 lb uplift at joint 2 and 4 lb uplift at joint 4.

**LOAD CASE(S)** Standard

Structural wood sheathing directly applied or 5'-0"-0" oc purlins.  
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.

|           |       |            |     |     |                          |
|-----------|-------|------------|-----|-----|--------------------------|
| Job       | Truss | Truss Type | Qty | Ply | MAPLE G - BASE           |
| MAPLE F&G | J75   | Jack-Open  | 18  | 1   | Job Reference (optional) |



Scale = 1:22.1

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

| Loading     | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | I/defl | L/d | PLATES        | GRIP     |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 16.0  | Plate Grip DOL  | 1.25            | TC        | 0.43 | Vert(LL) | -0.07 | 5-8   | >999   | 240 | MT20          | 244/190  |
| TCDL        | 7.0   | Lumber DOL      | 1.25            | BC        | 0.46 | Vert(CT) | -0.15 | 5-8   | >570   | 180 |               |          |
| BCLL        | 0.0*  | Rep Stress Incr | NO              | WB        | 0.08 | Horz(CT) | 0.00  | 5     | n/a    | n/a |               |          |
| BCDL        | 10.0  | Code            | FRC2023/TPI2014 | Matrix-MP |      |          |       |       |        |     | Weight: 28 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD  
BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.  
Rigid ceiling directly applied or 9-5-14 oc bracing.  
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=291/0-7-10, (min. 0-1-8), 4=20/ Mechanical, (min. 0-1-8), 5=204/ Mechanical, (min. 0-1-8)  
Max Horiz 2=228 (LC 10)  
Max Uplift 2=-205 (LC 10), 4=-45 (LC 6), 5=-150 (LC 10)

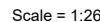
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
BOT CHORD 2-5=-370/278  
WEBS 3-5=-349/464

NOTES

- 1) Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 2-8-5 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 4, 205 lb uplift at joint 2 and 150 lb uplift at joint 5.

LOAD CASE(S) Standard

Maronda Homes, Sanford, user Run: 8.720 S Aug 20 2023 Print: 8.720 S Aug 20 2023 MiTek Industries, Inc. Tue Oct 24 08:00:06 Page: 1



| <b>Loading</b> | (psf) | <b>Spacing</b>  | 2-0-0           | <b>CSI</b> |      | <b>DEFL</b> | in    | (loc) | l/defl | L/d | <b>PLATES</b> | <b>GRIP</b> |
|----------------|-------|-----------------|-----------------|------------|------|-------------|-------|-------|--------|-----|---------------|-------------|
| TCLL (roof)    | 16.0  | Plate Grip DOL  | 1.25            | TC         | 0.40 | Vert(LL)    | 0.07  | 6-9   | >999   | 240 | MT20          | 244/190     |
| TCDL           | 7.0   | Lumber DOL      | 1.25            | BC         | 0.39 | Vert(CT)    | -0.07 | 6-9   | >999   | 180 |               |             |
| BCLL           | 0.0*  | Rep Stress Incr | NO              | WB         | 0.21 | Horz(CT)    | -0.01 | 5     | n/a    | n/a |               |             |
| BCDL           | 10.0  | Code            | FRC2023/TPI2014 | Matrix-MS  |      |             |       |       |        |     | Weight: 41 lb | FT = 20%    |

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

TOP CHORD  
BOT CHORD

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

Max Horiz 2=243 (LC 25)  
Max Uplift 2=-436 (LC 4), 4=-97 (LC 10), 5=-273 (LC 8)  
Max Grav 2=411 (LC 21), 4=79 (LC 1), 5=324 (LC 3)

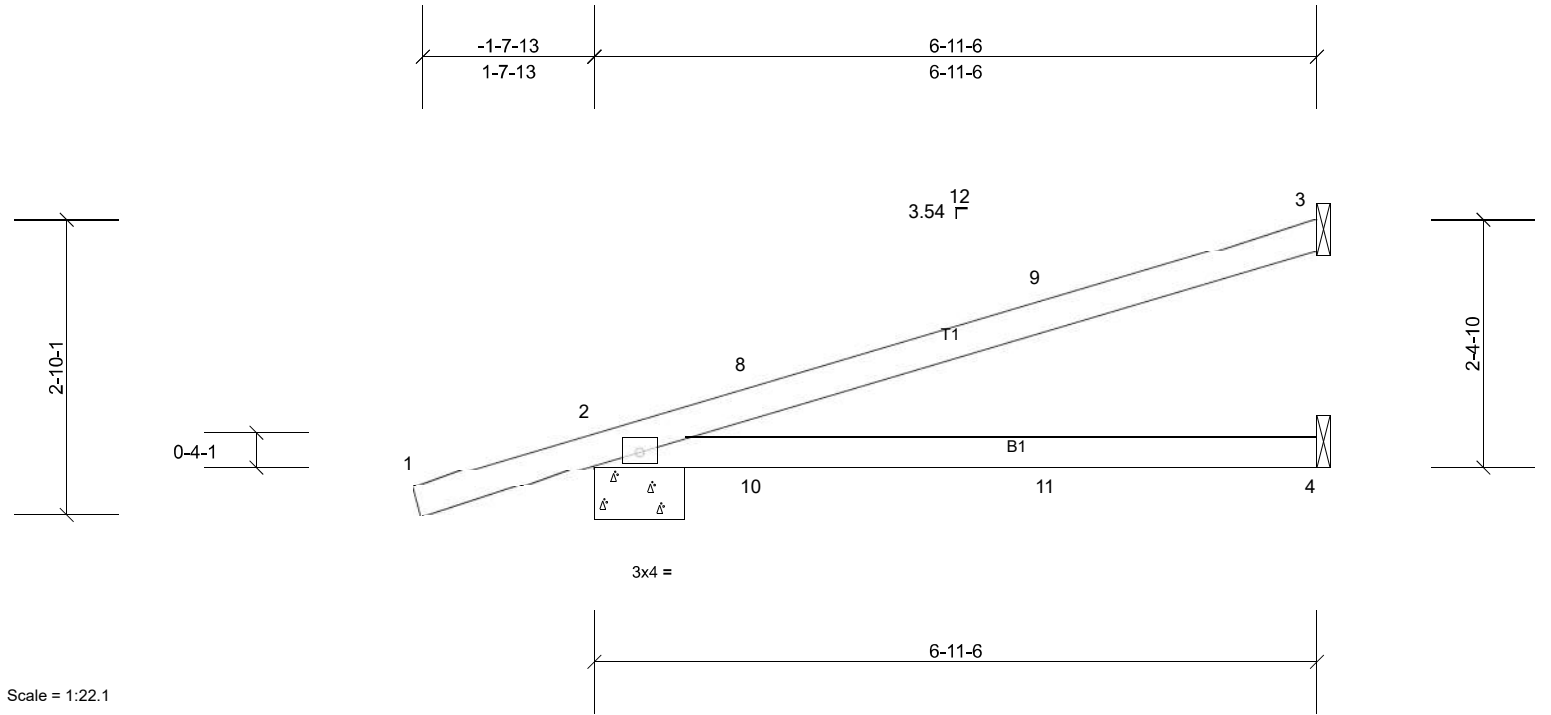
TOP CHORD 2-10=-623/499, 10-11=-618/503, 3-11=-589/510  
BOT CHORD 2-14=-614/593, 14-15=-614/593, 6-15=-614/593, 6-16=-614/593, 5-16=-614/593  
WEBS 3-5=-654/677, 3-6=-20/277

- 1) Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TC DL=4.2psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) WARNING: Top chord live load is below minimum required by FRC. The building design professional for the overall structure to verify adequacy of top chord live load.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 97 lb uplift at joint 4, 436 lb uplift at joint 2 and 273 lb uplift at joint 5.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 116 lb down and 45 lb up at 1-6-1, 116 lb down and 45 lb up at 1-6-1, 37 lb down and 78 lb up at 4-4-0, 37 lb down and 78 lb up at 4-4-0, and 63 lb down and 134 lb up at 7-1-15, and 63 lb down and 134 lb up at 7-1-15 on top chord, and 31 lb down and 8 lb up at 1-6-1, 31 lb down and 8 lb up at 1-6-1, 9 lb down and 17 lb up at 4-4-0, 9 lb down and 17 lb up at 4-4-0, and 31 lb down and 21 lb up at 7-1-15, and 31 lb down and 21 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Vert: 10=91 (F=45, B=45), 11=-1 (F=0, B=0), 12=-66 (F=-33, B=-33), 15=-11 (F=-6, B=-6), 16=-59 (F=-29, B=-29)

|           |       |                     |     |     |                          |
|-----------|-------|---------------------|-----|-----|--------------------------|
| Job       | Truss | Truss Type          | Qty | Ply | MAPLE G - BASE           |
| MAPLE F&G | JGR90 | Diagonal Hip Girder | 1   | 1   | Job Reference (optional) |

Maronda Homes, Sanford, user



| Loading     | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | I/defl | L/d | PLATES        | GRIP     |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 16.0  | Plate Grip DOL  | 1.25            | TC        | 0.59 | Vert(LL) | 0.21  | 4-7   | >397   | 240 | MT20          | 244/190  |
| TCDL        | 7.0   | Lumber DOL      | 1.25            | BC        | 0.54 | Vert(CT) | -0.20 | 4-7   | >403   | 180 |               |          |
| BCLL        | 0.0 * | Rep Stress Incr | NO              | WB        | 0.00 | Horz(CT) | 0.00  | 3     | n/a    | n/a |               |          |
| BCDL        | 10.0  | Code            | FRC2023/TPI2014 | Matrix-MP |      |          |       |       |        |     | Weight: 24 lb | FT = 20% |

|                            |                                                                                             |                |                                                                                                                                                    |
|----------------------------|---------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LUMBER</b>              |                                                                                             | <b>BRACING</b> |                                                                                                                                                    |
| TOP CHORD                  | 2x4 SP No.2                                                                                 | TOP CHORD      | Structural wood sheathing directly applied or 6-0-0 oc purlins.                                                                                    |
| BOT CHORD                  | 2x4 SP No.2                                                                                 | BOT CHORD      | Rigid ceiling directly applied or 10-0-0 oc bracing.                                                                                               |
| <b>REACTIONS</b> (lb/size) | 2=248/0-10-7, (min. 0-1-8), 3=129/ Mechanical, (min. 0-1-8), 4=76/ Mechanical, (min. 0-1-8) |                | MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide. |
| Max Horiz                  | 2=191 (LC 4)                                                                                |                |                                                                                                                                                    |
| Max Uplift                 | 2=-330 (LC 4), 3=-187 (LC 8), 4=-18 (LC 8)                                                  |                |                                                                                                                                                    |
| Max Grav                   | 2=302 (LC 21), 3=137 (LC 21), 4=124 (LC 3)                                                  |                |                                                                                                                                                    |

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-8=-304/20

- NOTES**
- 1) Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) WARNING: Top chord live load is below minimum required by FRC. The building design professional for the overall structure to verify adequacy of top chord live load.
  - 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 3-06-00 tall by 2-00-00 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 187 lb uplift at joint 3, 330 lb uplift at joint 2 and 18 lb uplift at joint 4.
  - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 116 lb down and 45 lb up at 1-6-1, 116 lb down and 45 lb up at 1-6-0, and 37 lb down and 78 lb up at 4-4-0, and 37 lb down and 78 lb up at 4-4-0 on top chord, and 31 lb down and 8 lb up at 1-6-1, 31 lb down and 8 lb up at 1-6-0, and 9 lb down and 17 lb up at 4-4-0, and 9 lb down and 17 lb up at 4-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

- LOAD CASE(S)** Standard
- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (lb/ft)  
Vert: 1-3=-46, 4-5=-20  
Concentrated Loads (lb)  
Vert: 8=91, 9=-1, 11=-11

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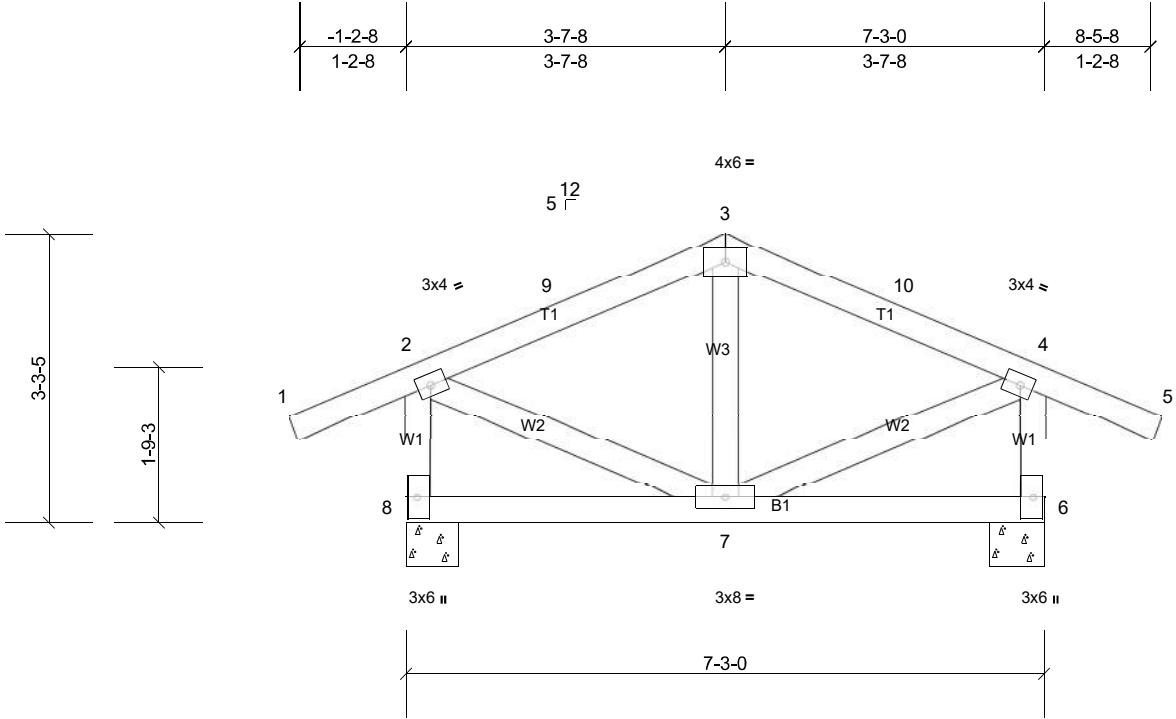
|                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>LUMBER</b></p> <p>TOP CHORD    2x4 SP No.2</p> <p>BOT CHORD    2x4 SP No.2</p> <p>WEBS          2x4 SP No.2</p> <p><b>REACTIONS</b> (lb/size)    2=224/0-7-10, (min. 0-1-8), 4=153/ Mechanical, (min. 0-1-8)</p> <p>Max Horiz    2=175 (LC 10)</p> <p>Max Uplift    2=-166 (LC 10), 4=-145 (LC 10)</p> | <p><b>BRACING</b></p> <p>TOP CHORD    Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.</p> <p>BOT CHORD    Rigid ceiling directly applied or 10-0-0 oc bracing.</p> |
|                                                                                                                                                                                                                                                                                                              | <p>MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.</p>                                                |

|                  |                                                                                                                                                    |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>BRACING</b>   |                                                                                                                                                    |
| <b>TOP CHORD</b> | Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.                                                              |
| <b>BOT CHORD</b> | 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. |

- LOAD CASE(S) Standard

|           |       |            |     |     |                          |
|-----------|-------|------------|-----|-----|--------------------------|
| Job       | Truss | Truss Type | Qty | Ply | MAPLE G - BASE           |
| MAPLE F&G | T41   | Common     | 1   | 1   | Job Reference (optional) |

Maronda Homes, Sanford, user



Scale = 1:26.2

| Loading     | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | I/defl | L/d | PLATES        | GRIP     |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 16.0  | Plate Grip DOL  | 1.25            | TC        | 0.45 | Vert(LL) | 0.00  | 7-8   | >999   | 240 | MT20          | 244/190  |
| TCDL        | 7.0   | Lumber DOL      | 1.25            | BC        | 0.13 | Vert(CT) | -0.01 | 7-8   | >999   | 180 |               |          |
| BCLL        | 0.0 * | Rep Stress Incr | NO              | WB        | 0.03 | Horz(CT) | n/a   | -     | n/a    | n/a |               |          |
| BCDL        | 10.0  | Code            | FRC2023/TPI2014 | Matrix-MP |      |          |       |       |        |     | Weight: 45 lb | FT = 20% |

**LUMBER**

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

**REACTIONS** (lb/size)

6=294/0-7-8, (min. 0-1-8), 8=294/0-7-2, (min. 0-1-8)  
Max Horiz 8=63 (LC 10)  
Max Uplift 6=-211 (LC 11), 8=-211 (LC 10)

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

TOP CHORD 2-9=-204/323, 3-9=-197/328, 3-10=-197/328, 4-10=-204/323, 2-8=-268/724, 4-6=-268/724

**NOTES**

1) Unbalanced roof live loads have been considered for this design.  
2) Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 7-1-12 to 7-1-12 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 3-06-00 tall by 2-00-00 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 211 lb uplift at joint 8 and 211 lb uplift at joint 6.

**LOAD CASE(S)**

Standard

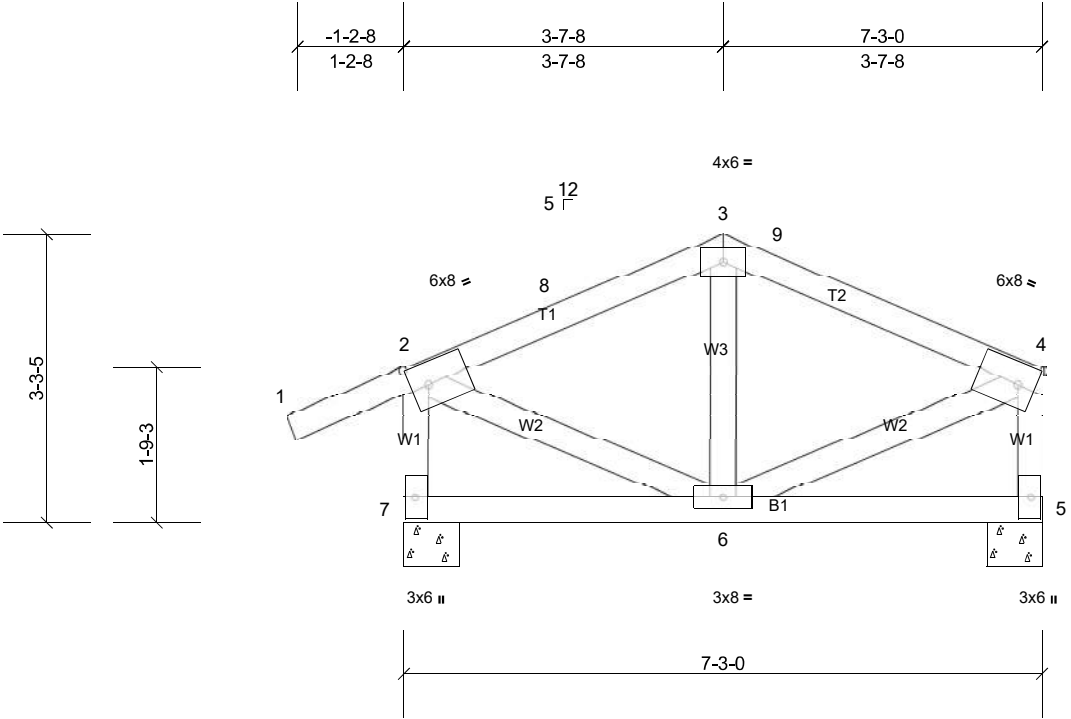
**BRACING**

TOP CHORD  
BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
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.

|           |       |            |     |     |                          |
|-----------|-------|------------|-----|-----|--------------------------|
| Job       | Truss | Truss Type | Qty | Ply | MAPLE G - BASE           |
| MAPLE F&G | T42   | Common     | 1   | 1   | Job Reference (optional) |



Scale = 1:26.2

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

| Loading     | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | I/defl | L/d | PLATES        | GRIP     |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 16.0  | Plate Grip DOL  | 1.25            | TC        | 0.60 | Vert(LL) | 0.00  | 6-7   | >999   | 240 | MT20          | 244/190  |
| TCDL        | 7.0   | Lumber DOL      | 1.25            | BC        | 0.13 | Vert(CT) | -0.01 | 6-7   | >999   | 180 |               |          |
| BCLL        | 0.0*  | Rep Stress Incr | NO              | WB        | 0.05 | Horz(CT) | n/a   | -     | n/a    | n/a |               |          |
| BCDL        | 10.0  | Code            | FRC2023/TPI2014 | Matrix-MP |      |          |       |       |        |     | Weight: 43 lb | FT = 20% |

LUMBER

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

**REACTIONS** (lb/size)
5=223/0-7-8, (min. 0-1-8), 7=301/0-7-8, (min. 0-1-8)
Max Horiz
7=80 (LC 10)
Max Uplift
5=-135 (LC 11), 7=-211 (LC 10)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-8=-206/352, 3-8=-198/357, 3-9=-192/322, 4-9=-207/317, 2-7=-274/747, 4-5=-245/461

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 7-1-12 to 7-1-12 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 3-06-00 tall by 2-00-00 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 211 lb uplift at joint 7 and 135 lb uplift at joint 5.

LOAD CASE(S)     Standard

BRACING

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

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

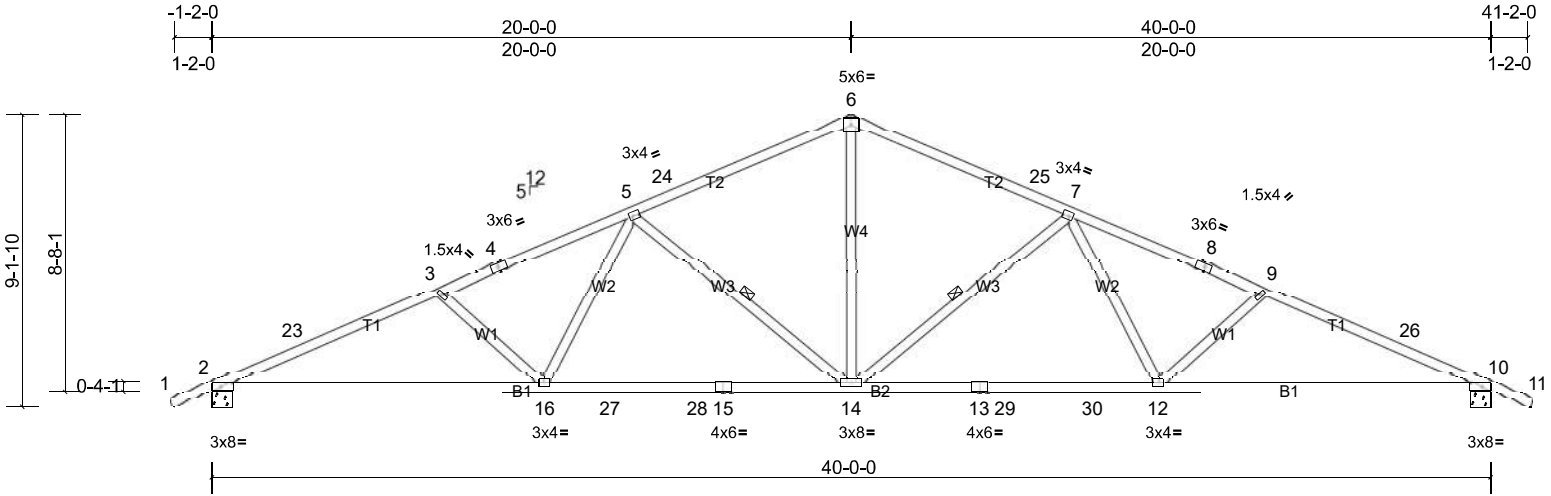
|           |       |            |     |     |                          |
|-----------|-------|------------|-----|-----|--------------------------|
| Job       | Truss | Truss Type | Qty | Ply | MAPLE G - BASE           |
| MAPLE F&G | T45   | Common     | 9   | 1   | Job Reference (optional) |

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Scale = 1:72.1

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

| Loading     | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | I/defl | L/d | PLATES         | GRIP    |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|---------|
| TCLL (roof) | 16.0  | Plate Grip DOL  | 1.25            | TC        | 0.80 | Vert(LL) | 0.30  | 16-19 | >999   | 240 | MT20           | 244/190 |
| TCDL        | 7.0   | Lumber DOL      | 1.25            | BC        | 0.94 | Vert(CT) | -0.53 | 14-16 | >902   | 180 |                |         |
| BCLL        | 0.0*  | Rep Stress Incr | NO              | WB        | 0.78 | Horz(CT) | 0.13  | 10    | n/a    | n/a |                |         |
| BCDL        | 10.0  | Code            | FRC2023/TPI2014 | Matrix-MS |      |          |       |       |        |     | Weight: 196 lb | FT = 0% |

#### LUMBER

TOP CHORD 2x4 SP No.2 \*Except\* T1:2x4 SP No.1D  
BOT CHORD 2x4 SP No.1D  
WEBS 2x4 SP No.2

#### BRACING

TOP CHORD  
BOT CHORD  
WEBS

Structural wood sheathing directly applied or 3-0-12 oc purlins.  
Rigid ceiling directly applied or 4-10-2 oc bracing.  
1 Row at midpt 7-14, 5-14

**REACTIONS** (lb/size) 2=1376/0-7-10, (min. 0-1-9), 10=1376/0-7-10, (min. 0-1-9)  
Max Horiz 2=272 (LC 10)  
Max Uplift 2=-899 (LC 10), 10=-899 (LC 11)  
Max Grav 2=1547 (LC 2), 10=1547 (LC 2)

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

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-23=-3219/1919, 3-23=-3197/1933, 3-4=-3008/1778, 4-5=-2927/1796, 5-24=-2061/1401, 6-24=-2009/1421, 6-25=-2009/1421, 7-25=-2061/1401, 7-8=-2927/1796, 8-9=-3008/1778, 9-26=-3197/1933, 10-26=-3219/1919  
BOT CHORD 2-16=-1763/2952, 16-27=-1287/2432, 27-28=-1287/2432, 15-28=-1287/2432, 14-15=-1287/2432, 13-14=-1248/2432, 13-29=-1248/2432, 29-30=-1248/2432, 12-30=-1248/2432, 10-12=-1590/2952  
WEBS 6-14=-633/1298, 7-14=-752/725, 7-12=-249/666, 9-12=-339/489, 5-14=-752/724, 5-16=-248/666, 3-16=-339/489

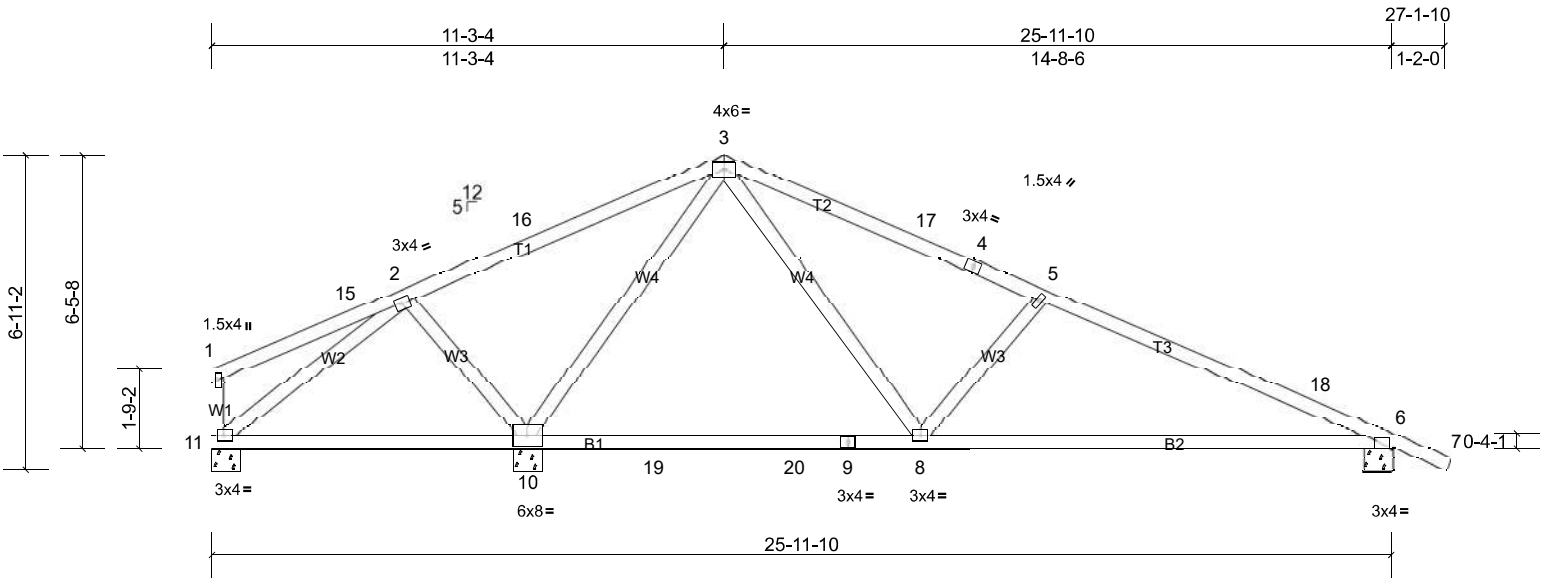
#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 37-2-11 to 41-2-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 899 lb uplift at joint 2 and 899 lb uplift at joint 10.

**LOAD CASE(S)** Standard



|           |       |            |     |     |                          |
|-----------|-------|------------|-----|-----|--------------------------|
| Job       | Truss | Truss Type | Qty | Ply | MAPLE G - BASE           |
| MAPLE F&G | T94   | Common     | 1   | 1   | Job Reference (optional) |



Scale = 1:50.7

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

| Loading     | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES         | GRIP     |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 16.0  | Plate Grip DOL  | 1.25            | TC        | 0.79 | Vert(LL) | 0.22  | 8-14  | >999   | 240 | MT20           | 244/190  |
| TCDL        | 7.0   | Lumber DOL      | 1.25            | BC        | 0.71 | Vert(CT) | -0.42 | 8-14  | >538   | 180 |                |          |
| BCLL        | 0.0 * | Rep Stress Incr | NO              | WB        | 0.92 | Horz(CT) | 0.01  | 6     | n/a    | n/a |                |          |
| BCDL        | 10.0  | Code            | FRC2023/TPI2014 | Matrix-MS |      |          |       |       |        |     | Weight: 125 lb | FT = 20% |

#### LUMBER

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\* B2:2x4 SP No.1D  
WEBS 2x4 SP No.2

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 4-11-9 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS** (lb/size) 6=615/0-7-10, (min. 0-1-8), 10=1118/0-7-10, (min. 0-1-8), 11=27/0-7-10, (min. 0-1-8)  
Max Horiz 11=-279 (LC 11)  
Max Uplift 6=-473 (LC 11), 10=-628 (LC 10), 11=-66 (LC 24)  
Max Grav 6=670 (LC 2), 10=1290 (LC 2), 11=107 (LC 23)

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

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-16=-112/347, 3-16=-100/409, 3-17=-703/531, 4-17=-723/518, 4-5=-764/511, 5-18=-934/682, 6-18=-955/663  
BOT CHORD 10-11=-191/309, 10-19=0/257, 19-20=0/257, 9-20=0/257, 8-9=0/257, 6-8=-477/862  
WEBS 3-10=-918/649, 3-8=-426/800, 5-8=-386/579, 2-10=-348/500, 2-11=-26/282

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 24-2-11 to 27-2-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 628 lb uplift at joint 10, 473 lb uplift at joint 6 and 66 lb uplift at joint 11.

**LOAD CASE(S)** Standard

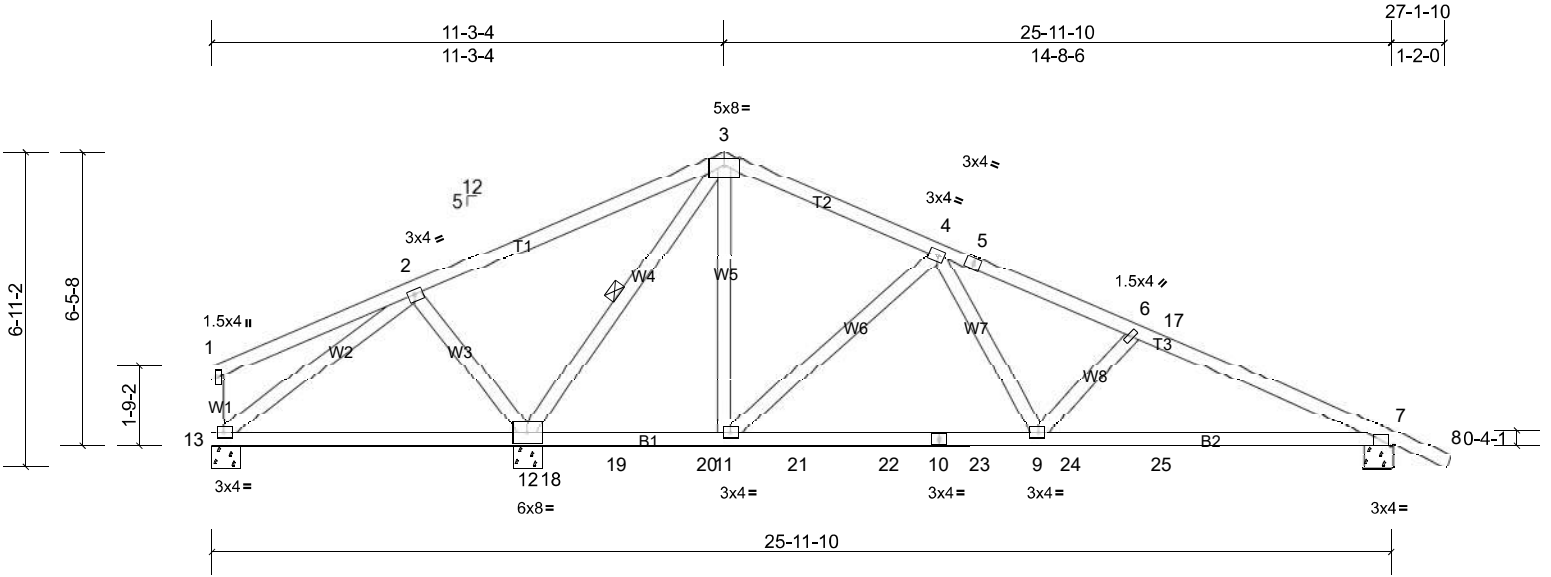
|           |       |                         |     |     |                          |
|-----------|-------|-------------------------|-----|-----|--------------------------|
| Job       | Truss | Truss Type              | Qty | Ply | MAPLE G - BASE           |
| MAPLE F&G | TGR95 | Common Structural Gable | 1   | 1   | Job Reference (optional) |

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Scale = 1:50.7

Plate Offsets (X, Y): [7:0-0-10,Edge]

| Loading     | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | I/defl | L/d | PLATES         | GRIP     |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 16.0  | Plate Grip DOL  | 1.25            | TC        | 0.65 | Vert(LL) | 0.27  | 9-11  | >855   | 240 | MT20           | 244/190  |
| TCDL        | 7.0   | Lumber DOL      | 1.25            | BC        | 0.86 | Vert(CT) | -0.24 | 9-16  | >943   | 180 |                |          |
| BCLL        | 0.0 * | Rep Stress Incr | NO              | WB        | 0.71 | Horz(CT) | 0.02  | 7     | n/a    | n/a |                |          |
| BCDL        | 10.0  | Code            | FRC2023/TPI2014 | Matrix-MS |      |          |       |       |        |     | Weight: 137 lb | FT = 20% |

#### LUMBER

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\* B2:2x4 SP No.1D  
WEBS 2x4 SP No.2

**REACTIONS** (lb/size) 7=1019/0-7-10, (min. 0-1-8), 12=2119/0-7-10, (min. 0-2-8), 13=-191/0-7-10, (min. 0-1-8)  
Max Horiz 13=-279 (LC 9)  
Max Uplift 7=-943 (LC 9), 12=-1813 (LC 8), 13=-283 (LC 22)  
Max Grav 7=1019 (LC 1), 12=2119 (LC 1), 13=263 (LC 9)

#### FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-512/750, 3-4=-459/521, 4-5=-1653/1665, 5-6=-1722/1653, 6-17=-1842/1809, 7-17=-1940/1838  
BOT CHORD 12-13=-453/633, 12-18=-207/388, 18-19=-207/388, 19-20=-207/388, 11-20=-207/388, 11-21=-822/1067, 21-22=-822/1067, 10-22=-822/1067, 10-23=-822/1067, 9-23=-822/1067, 9-24=-1578/1769, 24-25=-1578/1769, 7-25=-1578/1769  
WEBS 3-12=-1794/1604, 3-11=-1090/1118, 4-11=-926/1006, 4-9=-943/1028, 6-9=-329/468, 2-12=-433/597, 2-13=-412/586

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1813 lb uplift at joint 12, 943 lb uplift at joint 7 and 283 lb uplift at joint 13.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 117 lb down and 171 lb up at 21-0-0 on top chord, and 133 lb down and 157 lb up at 7-5-14, 133 lb down and 157 lb up at 8-11-4, 133 lb down and 157 lb up at 10-11-4, 133 lb down and 157 lb up at 12-11-4, 133 lb down and 157 lb up at 14-11-4, 133 lb down and 157 lb up at 16-11-4, and 133 lb down and 157 lb up at 18-11-4, and 183 lb down and 192 lb up at 20-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

#### LOAD CASE(S)

- Standard  
Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (lb/ft)  
Vert: 1-3=-46, 3-8=-46, 13-14=-20  
Concentrated Loads (lb)  
Vert: 17=-71, 18=-133, 19=-133, 20=-133, 21=-133, 22=-133, 23=-133, 24=-133, 25=-183

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 3-8-2 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 5-1-0 oc bracing.

WEBS 1 Row at midpt 3-12

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