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

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

Maple G Base

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.

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

Truss ID	Run Date	Drawing Reviewed	Truss ID	Run Date	Drawing Reviewed
Layout	10/23/23				
REACTION SUMMARY	10/23/23				
MII web plate	2017				
OR1	2009				
ST-4ply Screw	2012				
VC1	2009				
TN1	2009				
ST-Rep01A1	2014				
G40	10/24/23				
H90	10/24/23				
H91	10/24/23				
H92	10/24/23				
H4509	10/24/23				
H4511	10/24/23				
H4513	10/24/23				
H4515	10/24/23				
H4517	10/24/23				
H4519	10/24/23				
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		

No. of Eng. Dwgs:	32
Roof Loads-	
TC Live:	16.0 psf
TC Dead:	7.0 psf
BC Live:	0.0 psf
BC Dead:	10.0 psf
Total	33.0 psf
DurFac- Lbr:	1.25
DurFac- Plt:	1.25
O.C. Spacing:	24.0"
Floor Loads-	
TC Live:	40.0 psf
TC Dead:	10.0 psf
BC Live:	0.0 psf
BC Dead:	5.0 psf
Total	55.0 psf
DurFac- Lbr:	1.00
DurFac- Plt:	1.00
O.C. Spacing:	24.0"

WWW.FDSENG.COM
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

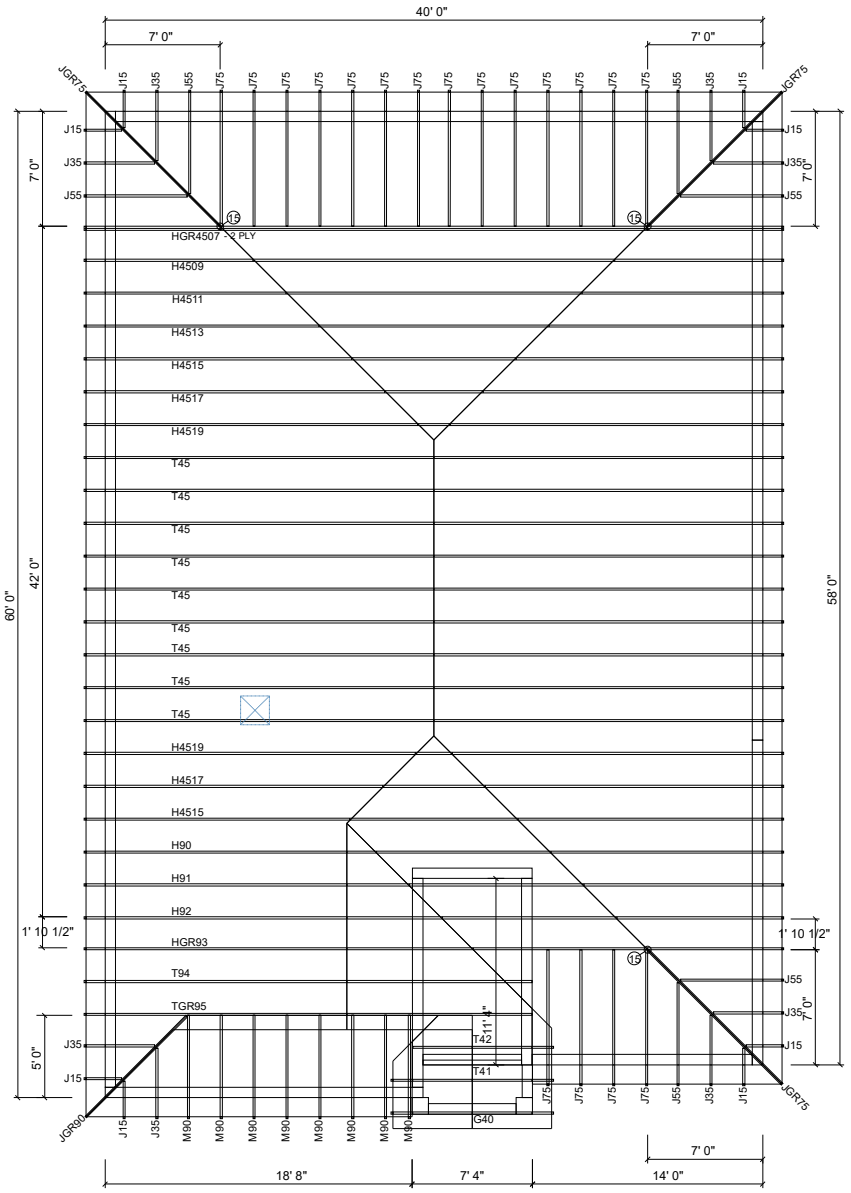
TO THE BEST OF THE ENGINEER'S KNOWLEDGE AND UNDERSTANDING, THE STRUCTURAL PLANS AND SPECIFICATIONS COMPLY WITH THE FLORIDA BUILDING CODE SIGNED AND SEALED FOR THE STRUCTURAL PORTION OF THIS DRAWING.

		EXPOSURE	
TC LIVE	16.000 lb/ft²	SNOW LOAD	0.00
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.

GENERAL TRUSS NOTES:

1. INFORMATION BASED ON 160.0 MPH WIND LOAD. ALL PRESSURES WERE CALCULATED USING MWFRS/C-C HYBRID WIND ASCE 7-22 .
2. PROVIDE TRUSS BRACING PER TRUSS ENGINEERING AND BCSI I-03.

TRUSS PLACEMENT PLAN



MAPLE "G" BASE

5/12 PITCH

MARONDA Homes

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

CUSTOMER:Maronda Systems

Model: MAPLE

ELEVATION: G - BASE

DRAWN BY: MITEK VIETNAM

RELEASE DATE: 10/23/23

GARAGE: LEFT

WWW.FDSENG.COM

FDS ENGINEERING ASSOCIATES

258 Southhall Lane, Suite 200
Maitland, FL 32751

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

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7-17-24

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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

TEMPLATE REVISION DATE 10/09/23: CDH

Page 1 of 1

		EXPOSURE	
TC LIVE	16.000 lb/ft²	SNOW LOAD	0.00
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.

GENERAL TRUSS NOTES:

1. INFORMATION BASED ON 160.0 MPH WIND LOAD. ALL PRESSURES WERE CALCULATED USING MWFRS/C-C HYBRID WIND ASCE 7-22.
2. PROVIDE TRUSS BRACING PER TRUSS ENGINEERING AND BCSI I-03.

TRUSS PLACEMENT PLAN

Truss List

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

MARONDA Homes
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

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.

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

SHEET:

TR1

TEMPLATE REVISION DATE 10/09/23: CDH

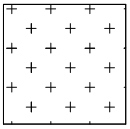
Page 1 of 1

JANUARY 17, 2017	MISSING PLATE REPAIR DETAIL	MII WEB PLATE

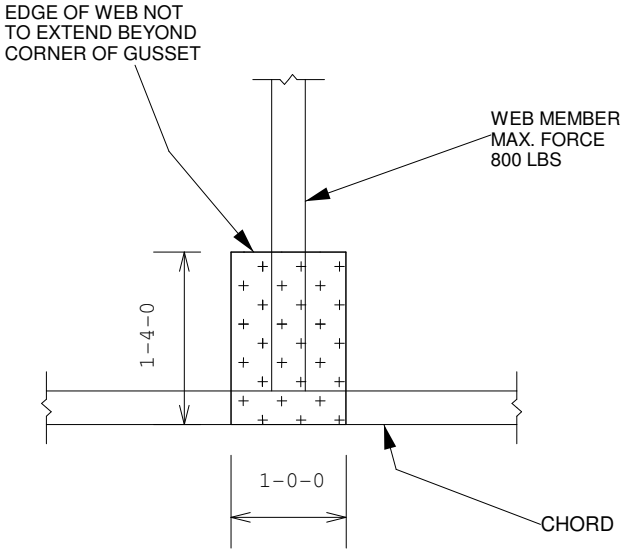
MiTek USA, Inc.

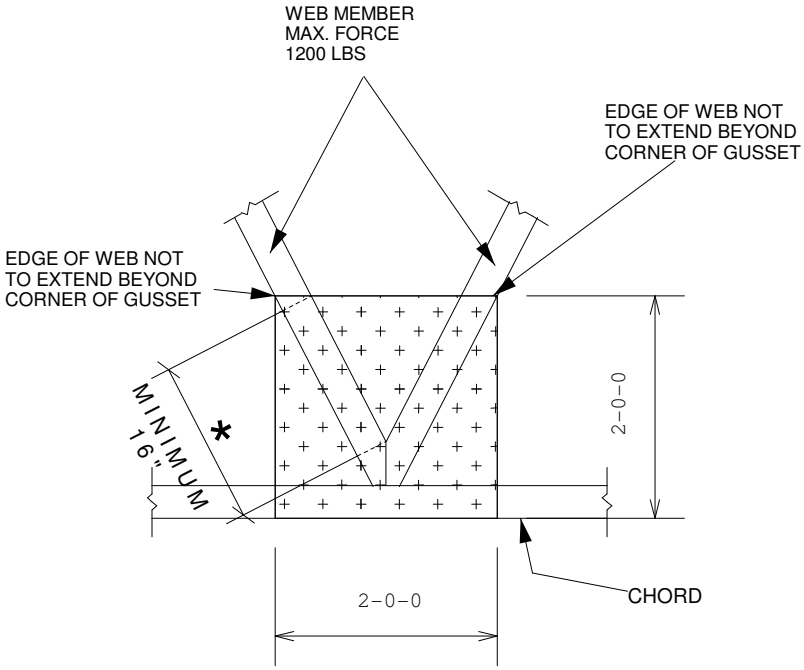
ENGINEERED BY TRENCO
A MiTek Affiliate

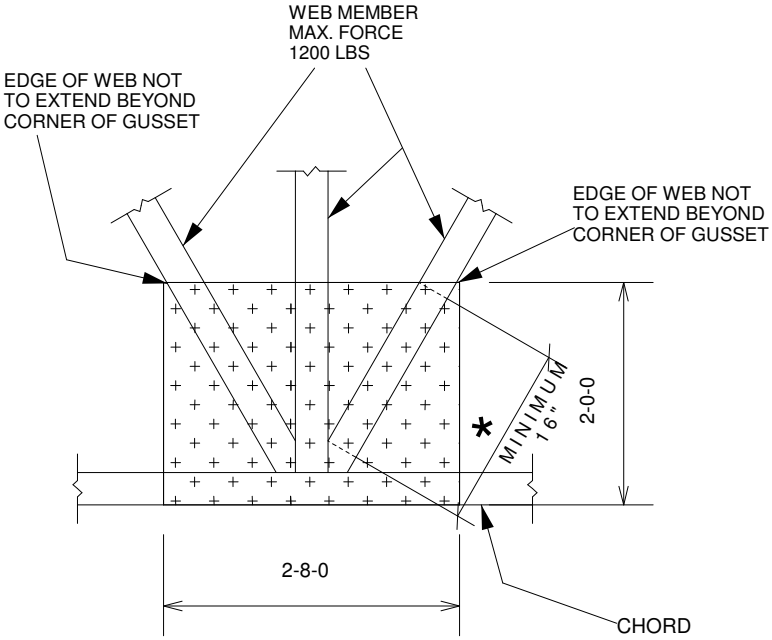
1. ALL MATERIAL IS 2x4
2. THIS DETAIL IS APPLICABLE FOR DESIGNS WITH DOLS. OF 1.15 OR 1.25 AND LUMBER SPECIES SP, DF, HF, OR SPF.
3. DETAIL SHALL BE USED FOR CONDITIONS OF A MISSING OR LOOSE CONNECTOR PLATE ONLY.
4. CHORD MATERIAL IS CONTINUOUS THROUGH JOINT, THERE IS NO MAXIMUM CHORD FORCE AND NO SPLICE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

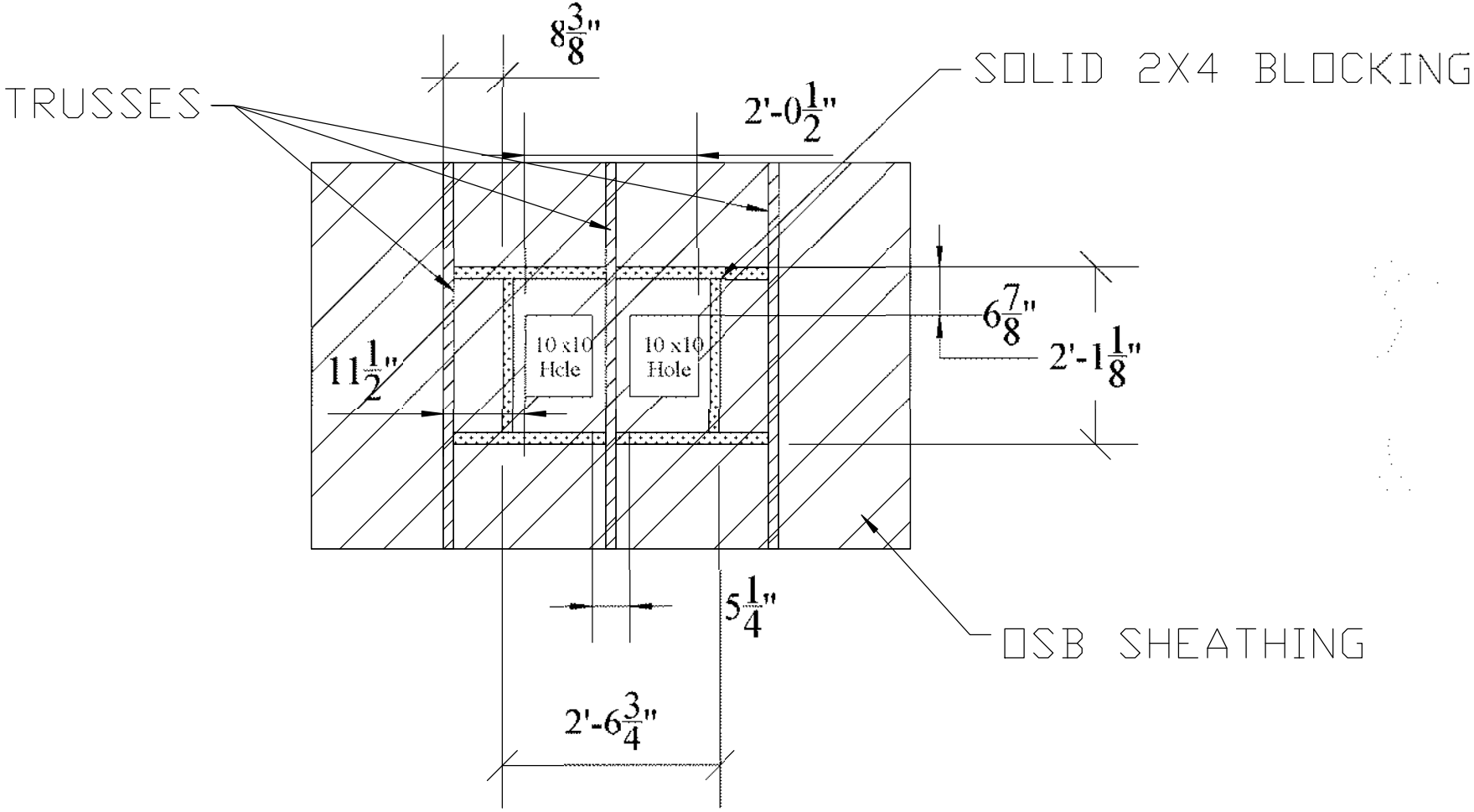






* MEASUREMENT TAKEN AT POINTS WHERE WEB ACHIEVES FULL MEMBER DEPTH (AS MEASURED PERPENDICULAR TO WEB'S SAW-MILLED EDGE)

OFF-RIDGE INSTALLATION



LAMANCO OFF RIDGE VENT FRAMING DETAIL

Maronda Homes

TRUSS DETAILS

OFF-RIDGE INSTALLATION

DRAWN BY: J.FESSIA

RELEASE DATE: 12/9/09

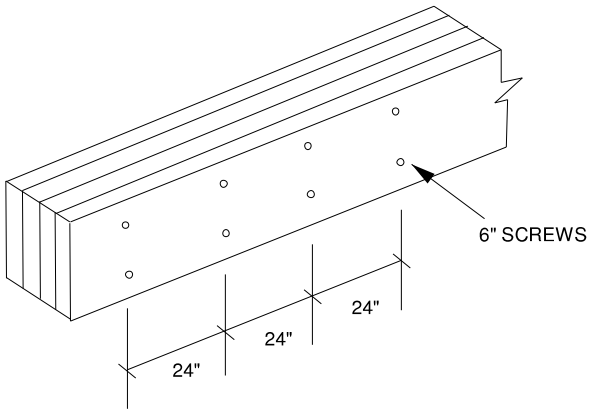
SHEET:

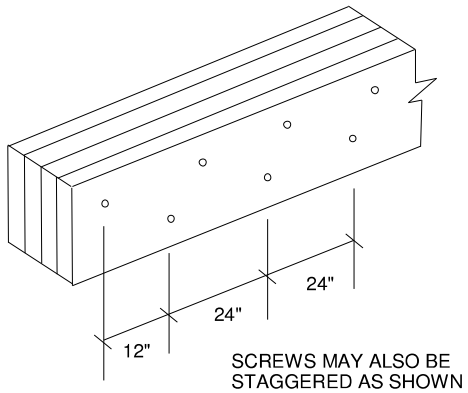
OR1

FLORIDA RESIDENTIAL

MiTek USA, Inc.

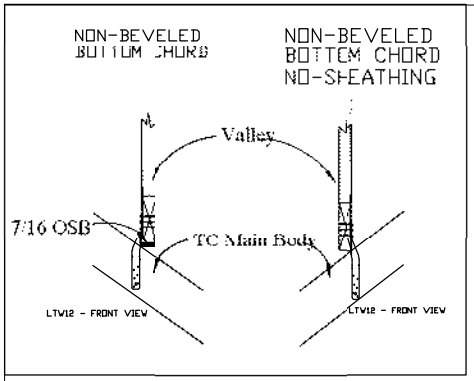
Four ply girder trusses are to be connected together using the nailing or screw schedule provided by Mitek 20/20 software. In addition to the nailing typically specified, 1/2" dia. bolts are sometimes specified throughout certain chords as indicated on the truss design drawing. In lieu of these bolts, 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.



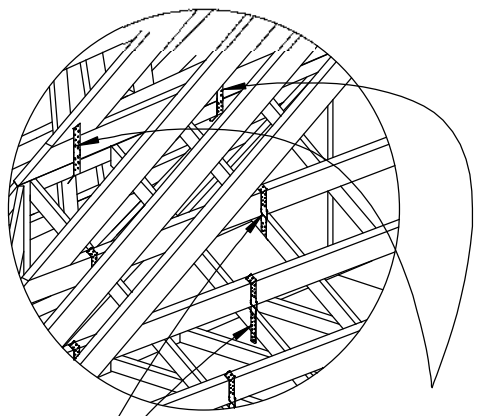
VALLEY CONNECTIONS

(ELEMENTS NOT SHOWN FOR CLARITY)

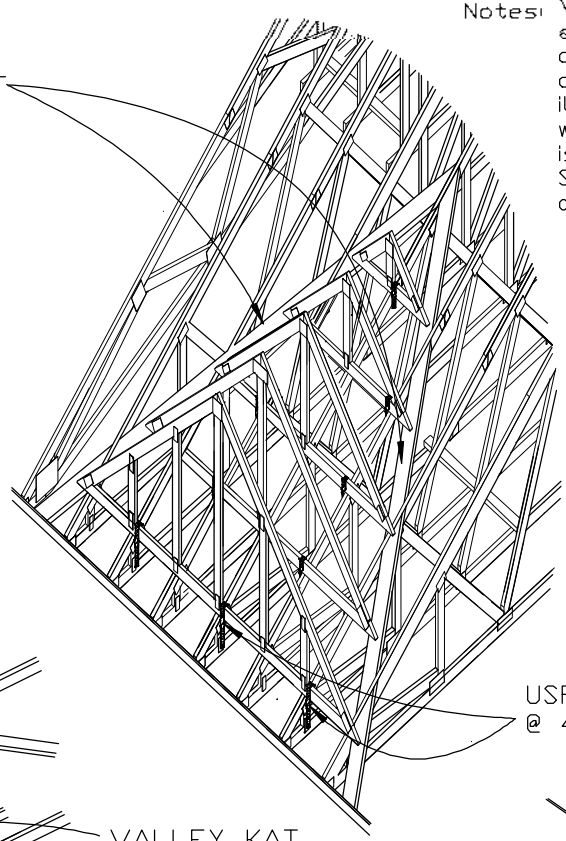
Notes:

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.

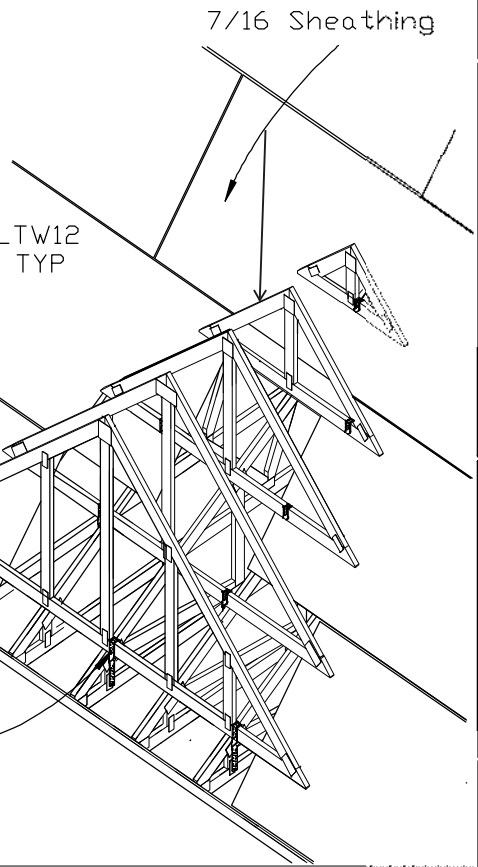
Main body trusses 2'OC perpendicular to valley is considered to be continuous bearing. If sheathing exists under valleys, Sheathing is not required to be continuous See NON BEVELED BOTTOM CHORD Detail

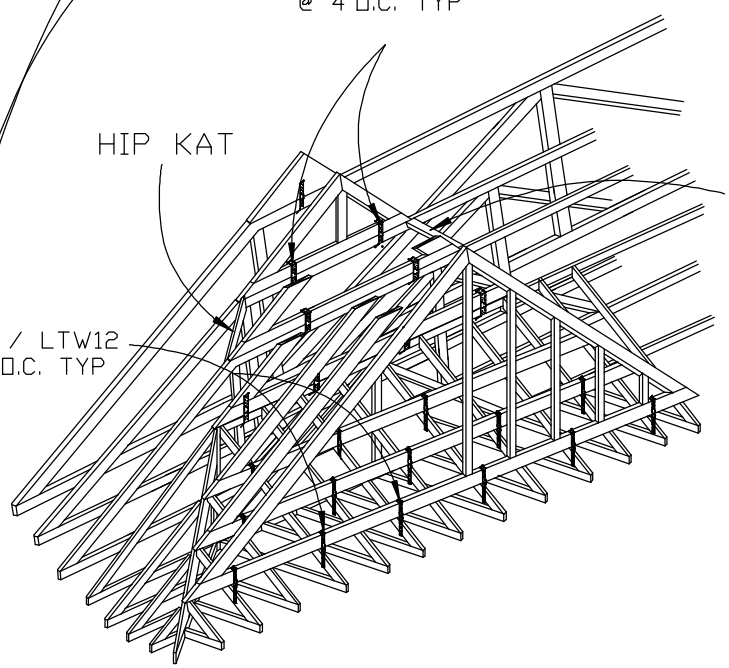


USP / MSTA12
@ 4'O.C. TYP



USP / LTW12
@ 4'O.C. TYP





USP / LTW12
@ 4'O.C. TYP

REVISIONS

Maronda Homes

TRUSS DETAILS

VALLEY CONNECTIONS

DRAWN BY: J.FESSIA

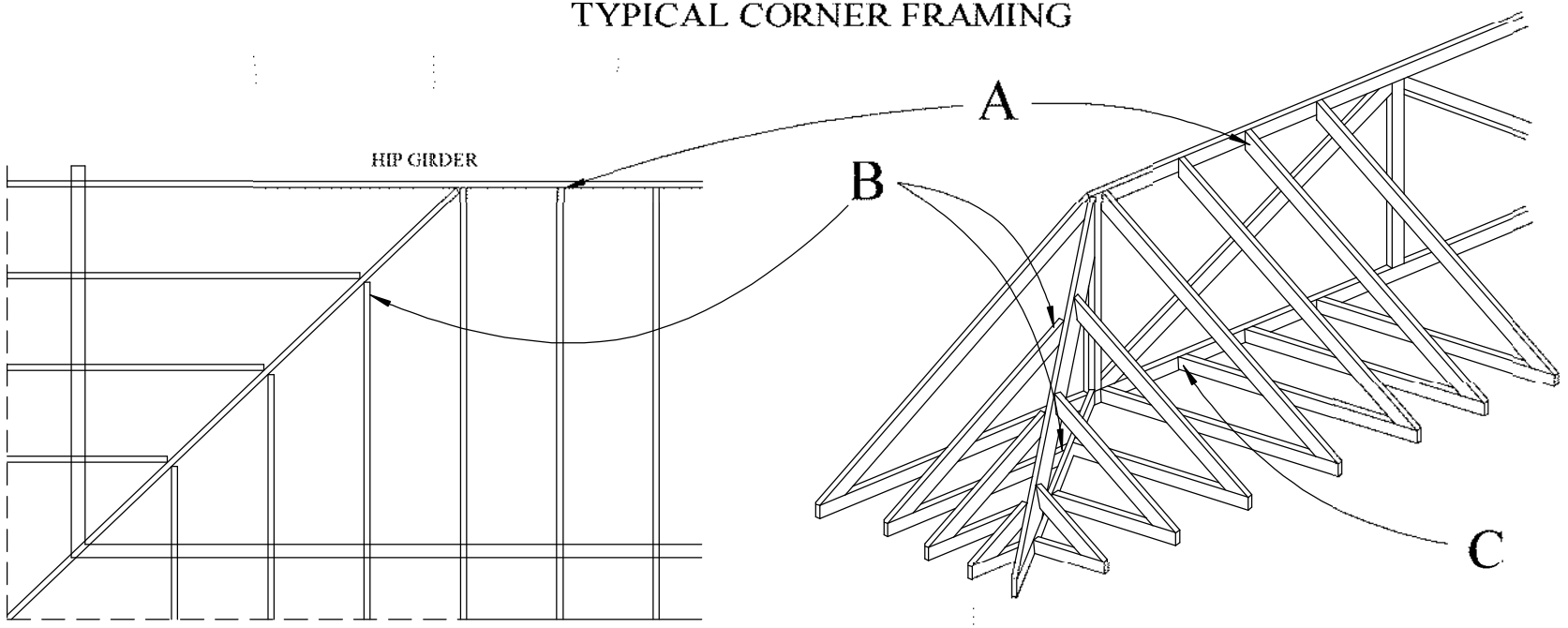
RELEASE DATE: 12/7/09

SHEET:

VC1

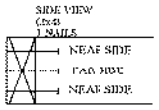
TOE-NAILED CONNECTIONS AT BEARING LOCATIONS

TYPICAL CORNER FRAMING

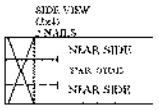


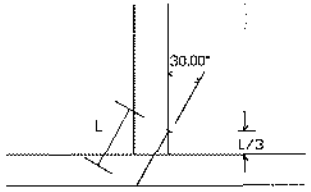
90 DEGREE ANGLE/SQUARE CUT

Connection at A



Connection at C

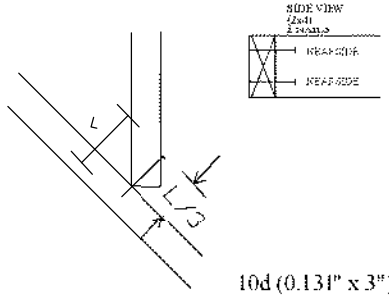




10d (0.131" x 3") nails

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 ULT (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.
MWFRS gable end zone.
Enclosed building (Cond. I)
FBCR-10,TPI-07, ASCE 7-10
Duration of load is 1.60
L= NAIL LENGTH

Marcela Homes

TRUSS DETAILS

TOE-NAILED CONNECTIONS

DRAWN BY: GARAGE

BLD-ASD DATE: 2/9/09

SHEET:

TN1

OCTOBER 15, 2014	STANDARD REPAIR DETAIL FOR BROKEN CHORDS, WEBS AND DAMAGED OR MISSING CHORD SPLICE PLATES	ST-REP01A1

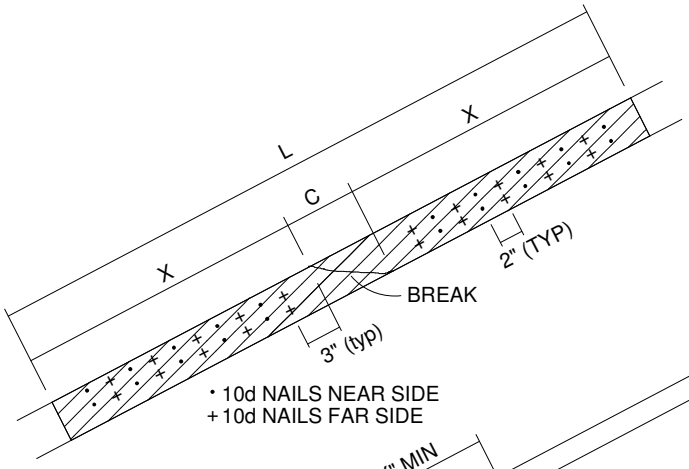
MiTek USA, Inc.

TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *		X 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 APPLING 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 — Run: 8.72 S Aug 20 2023 Print: 8.720 S Aug 20 2023 MiTek Industries, Inc. Tue Oct 24 08:00:05 — Page: 1

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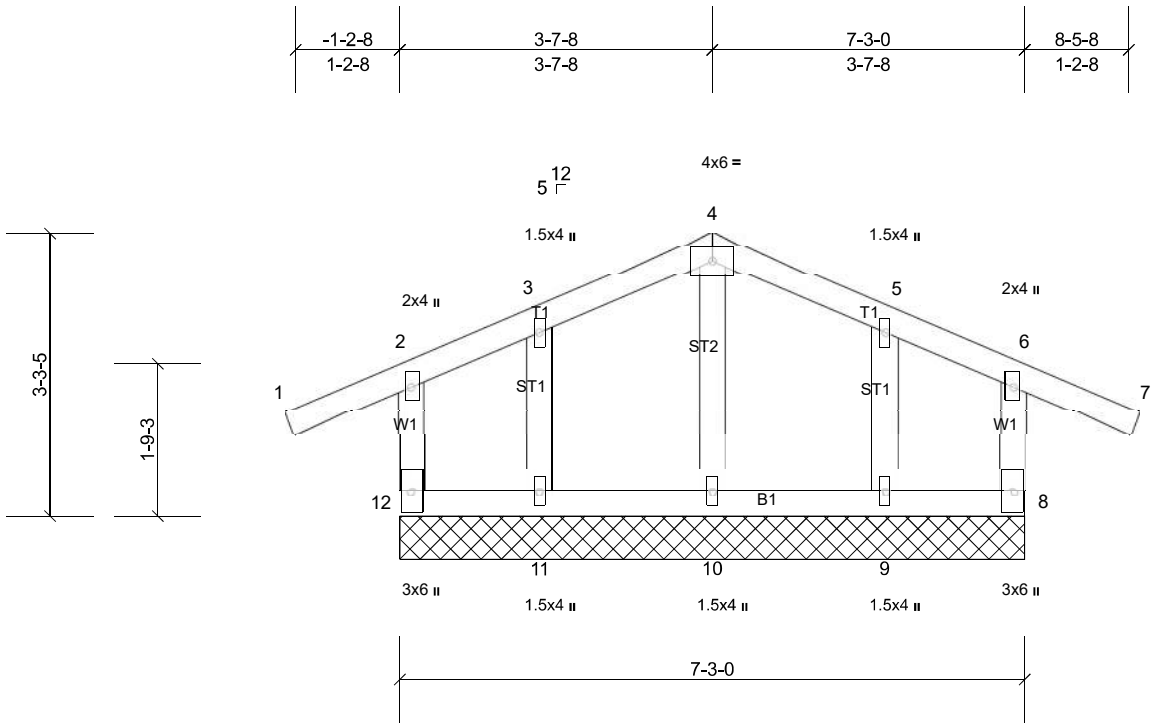

Scale = 1:26.7

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

BRACING

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

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

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 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 100 lb uplift at joint(s) 10 except (jt=lb) 12=147, 8=148, 11=135, 9=133.

LOAD CASE(S) Standard

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

Maronda Homes, Sanford, user — Run: 8.72 S Aug 20 2023 Print: 8.720 S Aug 20 2023 MiTek Industries, Inc. Tue Oct 24 08:00:05 — Page: 1

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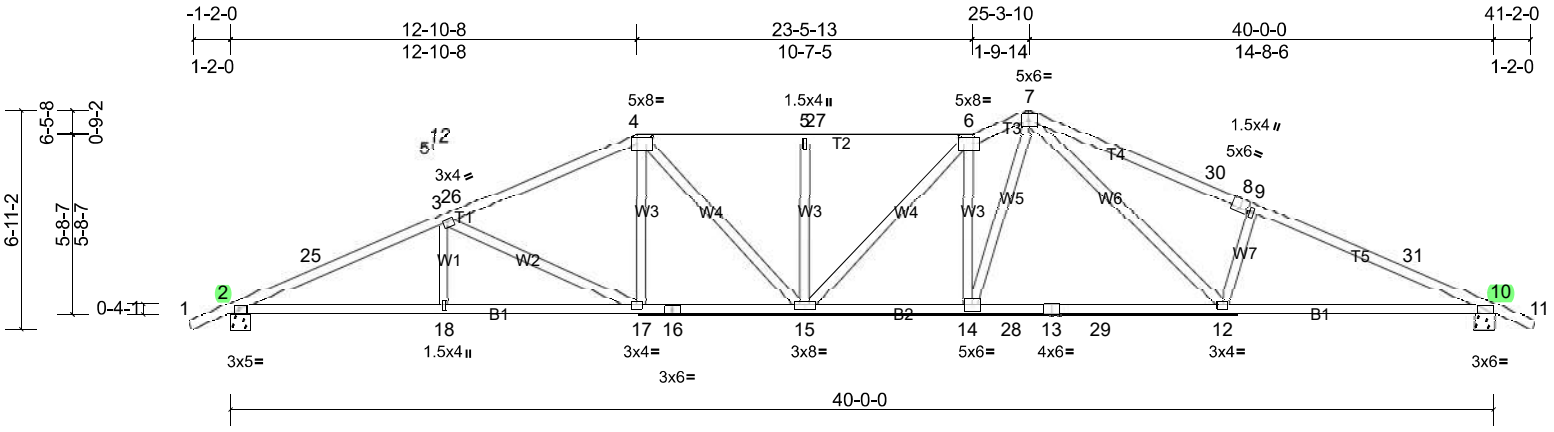

Scale = 1:73

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)	l/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 Structural wood sheathing directly applied.
BOT CHORD 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

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, with BCDL = 10.0psf.
6) 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)

Maronda Homes, Sanford, user — Run: 8.72 S Aug 20 2023 Print: 8.720 S Aug 20 2023 MiTek Industries, Inc. Tue Oct 24 08:00:05 — Page: 1

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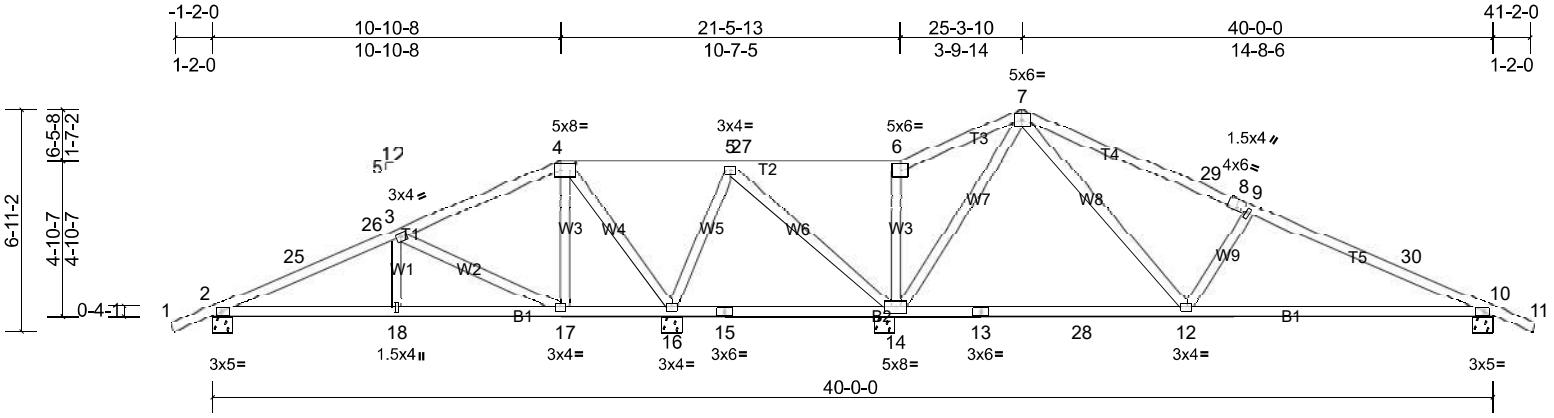

Scale = 1:72

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-3-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

REACTIONS All bearings 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
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, with BCDL = 10.0psf.
6) 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

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

Maronda Homes, Sanford, user — Run: 8.72 S Aug 20 2023 Print: 8.720 S Aug 20 2023 MiTek Industries, Inc. Tue Oct 24 08:00:05 — Page: 1

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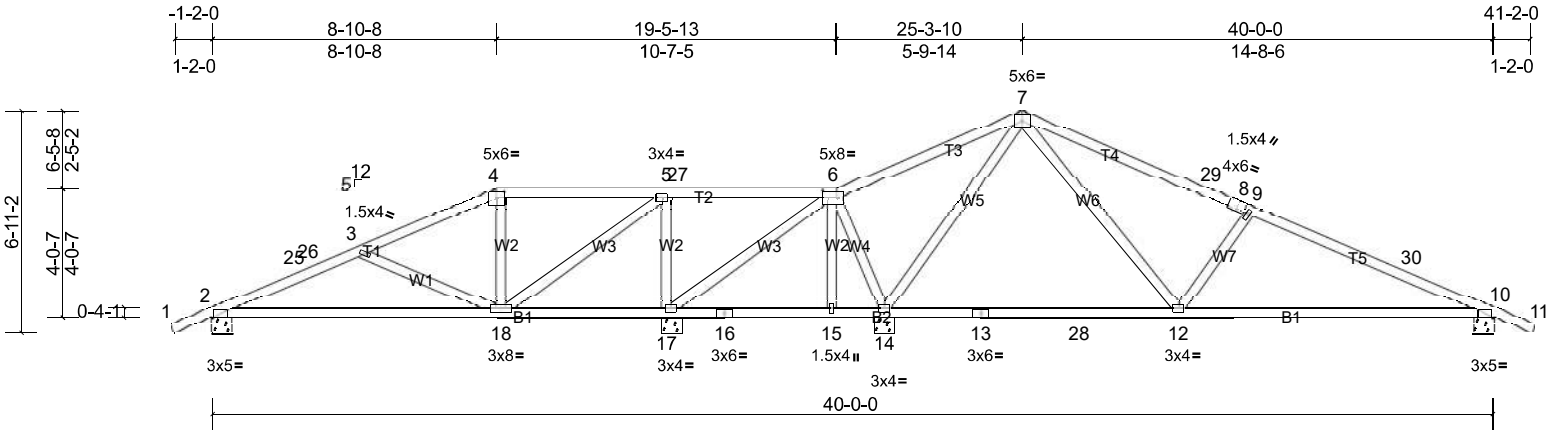

Scale = 1:72

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

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

REACTIONS All bearings 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

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, with BCDL = 10.0psf.
6) 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)

Maronda Homes, Sanford, user — Run: 8.72 S Aug 20 2023 Print: 8.720 S Aug 20 2023 MiTek Industries, Inc. Tue Oct 24 08:00:05 — Page: 1

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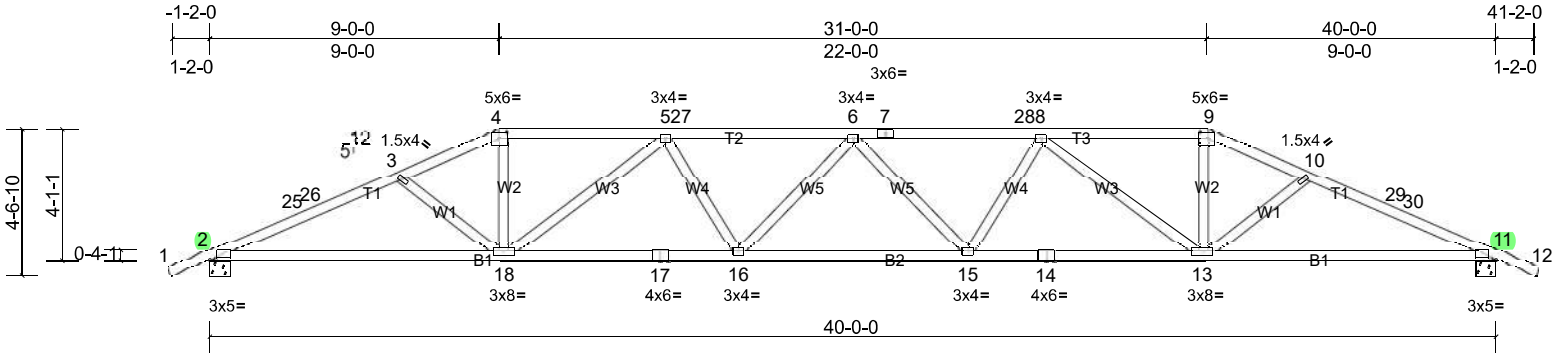

Scale = 1:71.7

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 Structural wood sheathing directly applied or 2-11-9 oc purlins.
BOT CHORD 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
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 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 — Run: 8.72 S Aug 20 2023 Print: 8.720 S Aug 20 2023 MiTek Industries, Inc. Tue Oct 24 08:00:05 — Page: 1

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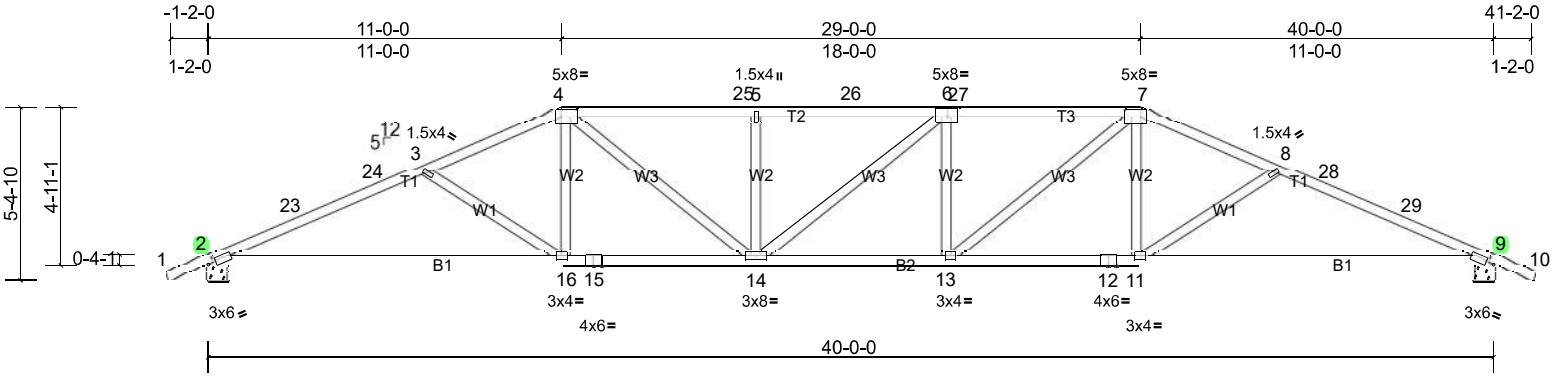

Scale = 1:71.7

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 Structural wood sheathing directly applied or 2-5-10 oc purlins.
BOT CHORD 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

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 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)

Maronda Homes, Sanford, user — Run: 8.72 S Aug 20 2023 Print: 8.720 S Aug 20 2023 MiTek Industries, Inc. Tue Oct 24 08:00:05 — Page: 1

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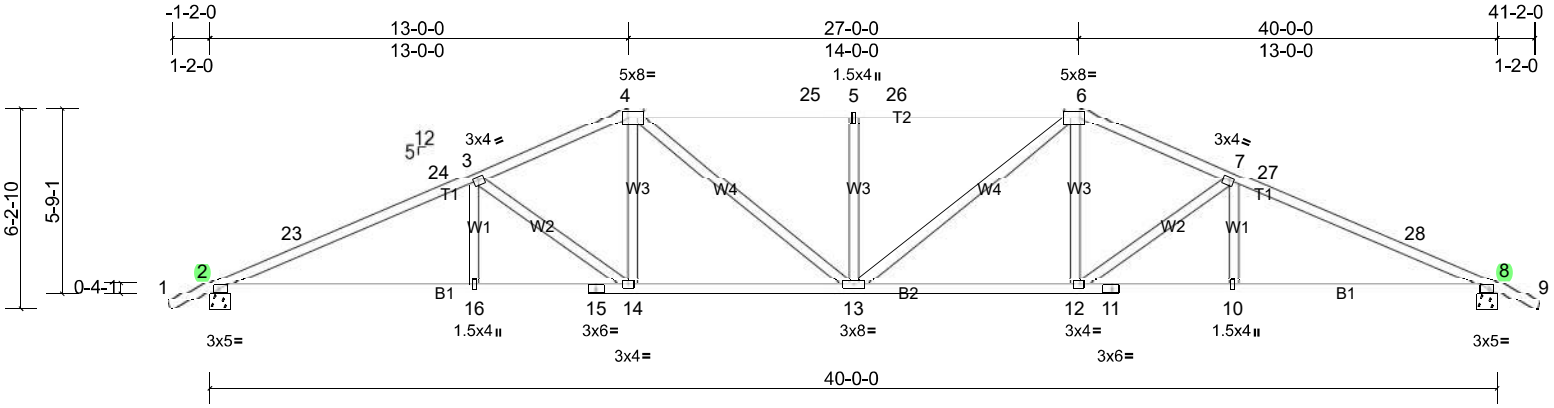

Scale = 1:71.6

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

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

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

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

Maronda Homes, Sanford, user — Run: 8.72 S Aug 20 2023 Print: 8.720 S Aug 20 2023 MiTek Industries, Inc. Tue Oct 24 08:00:05 — Page: 1

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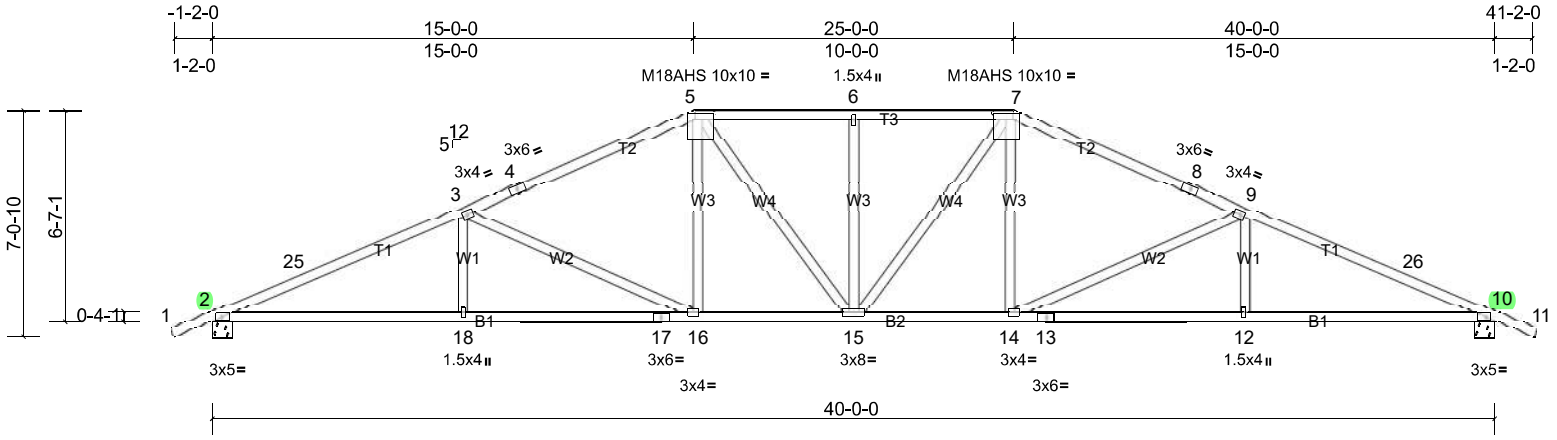

Scale = 1:71.9

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

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	1.00	Vert(LL)	0.35	15-16	>999	240	M18AHS	186/179
TCDL	7.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.41	16-18	>999	180	MT20	244/190
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.15	10	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							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	Structural wood sheathing directly applied or 2-8-10 oc purlins.
BOT CHORD	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.

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

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)

Maronda Homes, Sanford, user — Run: 8.72 S Aug 20 2023 Print: 8.720 S Aug 20 2023 MiTek Industries, Inc. Tue Oct 24 08:00:05 — Page: 1

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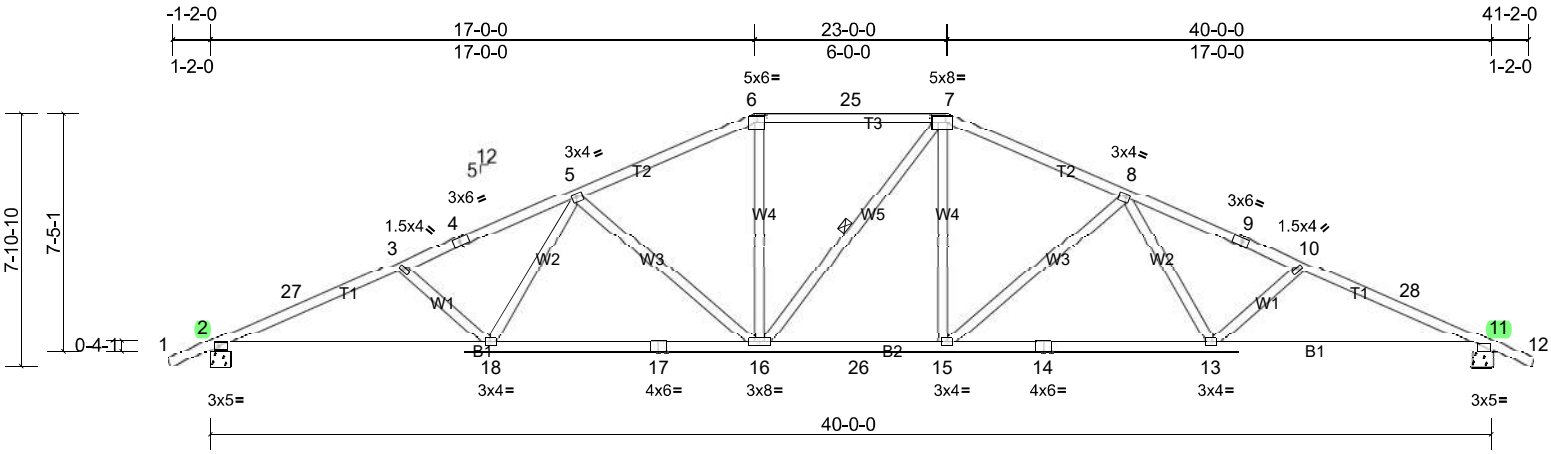

Scale = 1:72

Plate Offsets (X, Y): [6:0-3-12,0-2-8], [7:0-5-12,0-2-8], [11:0-0-2,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	0.66	Vert(LL)	0.32	16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.51	13-15	>945	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.59	Horz(CT)	0.14	11	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 208 lb	FT = 20%

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 Structural wood sheathing directly applied or 2-9-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-10-15 oc bracing.
WEBS 1 Row at midpt 7-16

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), 11=1376/0-7-10, (min. 0-1-9)
Max Horiz 2=234 (LC 10)
Max Uplift 2=-906 (LC 10), 11=-906 (LC 11)
Max Grav 2=1524 (LC 2), 11=1528 (LC 2)

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

TOP CHORD 6-25=-2073/1402, 7-25=-2073/1402, 2-27=-3245/1843, 3-27=-3221/1854, 3-4=-3069/1724, 4-5=-3028/1736, 5-6=-2275/1444, 7-8=-2283/1444, 8-9=-3036/1736, 9-10=-3077/1724, 10-28=-3229/1854, 11-28=-3252/1843
BOT CHORD 2-18=-1805/2977, 17-18=-1386/2523, 16-17=-1386/2523, 16-26=-918/2080, 15-26=-918/2080, 14-15=-1275/2531, 13-14=-1275/2531, 11-13=-1572/2984
WEBS 3-18=-285/422, 5-18=-209/557, 5-16=-608/604, 6-16=-246/647, 7-15=-308/660, 8-15=-608/605, 8-13=-210/556, 10-13=-284/423

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) 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.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 906 lb uplift at joint 2 and 906 lb uplift at joint 11.

LOAD CASE(S) Standard

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

Maronda Homes, Sanford, user — Run: 8.72 S Aug 20 2023 Print: 8.720 S Aug 20 2023 MiTek Industries, Inc. Tue Oct 24 08:00:05 — Page: 1

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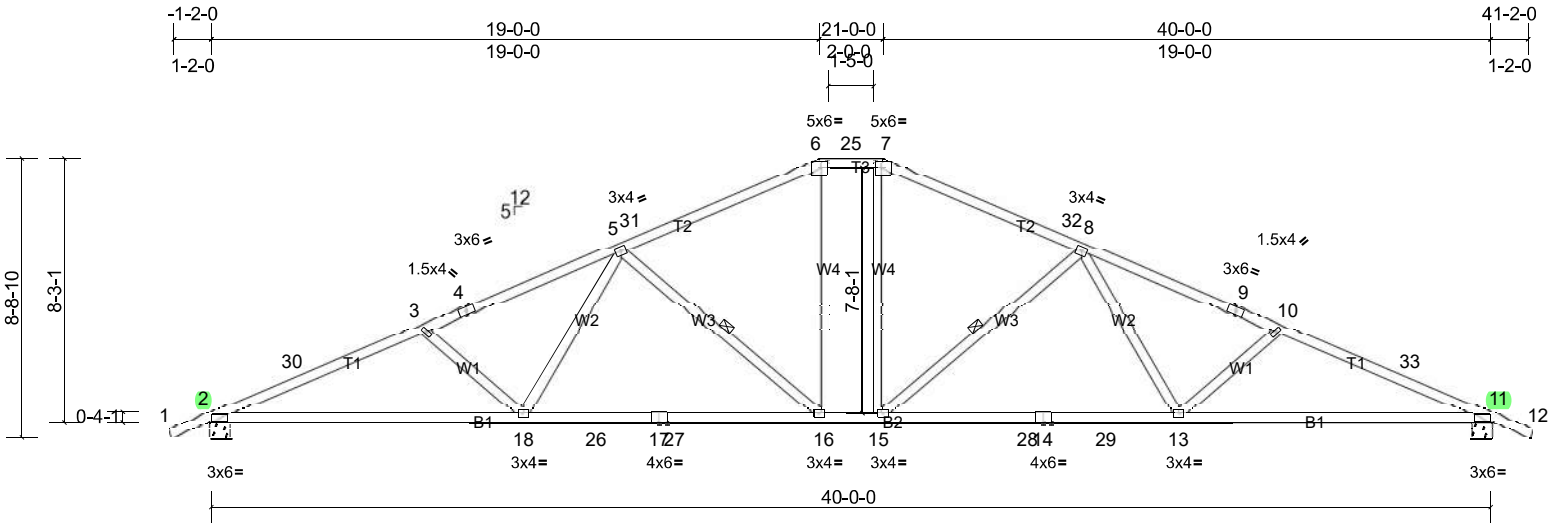

Scale = 1:72

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)	l/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	Structural wood sheathing directly applied or 2-5-10 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 4-10-4 oc bracing.
WEBS	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

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) 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.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 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)

Maronda Homes, Sanford, user — Run: 8.72 S Aug 20 2023 Print: 8.720 S Aug 20 2023 MiTek Industries, Inc. Tue Oct 24 08:00:05 — Page: 1

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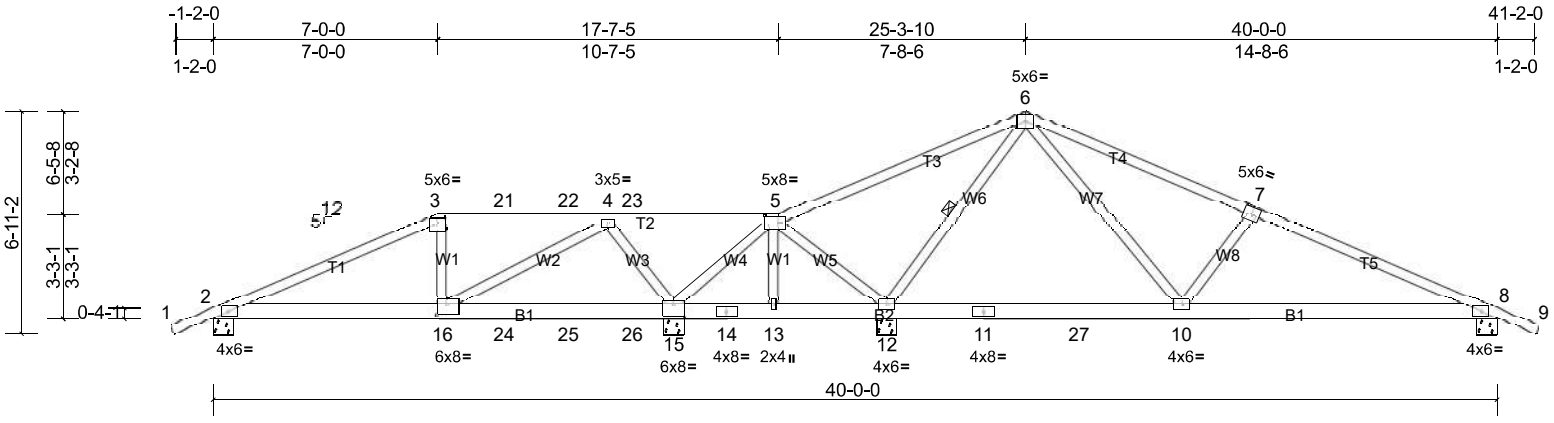

Scale = 1:71.8

Plate Offsets (X, Y): [3:0-3-0,0-2-4], [5:0-5-4,0-2-12], [7:0-3-0,0-3-4], [15:0-4-0,0-4-8], [16:0-3-8,0-3-12]

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	0.74	Vert(LL)	0.14	10-20	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.19	10-20	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 220 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* T3:2x4 SP No.1D
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-6-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-12

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 35)
Max Uplift All uplift 100 (lb) or less at joint(s) except 2=-615 (LC 8), 8=-460 (LC 35), 12=-725 (LC 35), 15=-1554 (LC 8)
Max Grav All reactions 250 (lb) or less at joint(s) except 2=712 (LC 21), 8=638 (LC 26), 12=1118 (LC 26), 15=1689 (LC 21)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1295/1100, 3-21=-1156/1092, 21-22=-1156/1092, 4-22=-1156/1092, 4-23=-665/730, 5-23=-665/730, 5-6=-201/598, 6-7=-749/552, 7-8=-899/649
BOT CHORD 2-16=-1054/1143, 14-15=-701/667, 13-14=-701/667, 12-13=-693/659, 8-10=-442/806
WEBS 3-16=-140/360, 4-16=-1231/1413, 4-15=-1109/1179, 5-15=-285/383, 5-12=-363/436, 6-12=-1060/688, 6-10=-470/846, 7-10=-351/545

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; 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, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 615 lb uplift at joint 2, 1553 lb uplift at joint 15, 724 lb uplift at joint 12 and 460 lb uplift at joint 8.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 65 lb down and 141 lb up at 7-0-0, 8 lb down and 47 lb up at 9-0-12, and 8 lb down and 47 lb up at 11-0-12, and 8 lb down and 47 lb up at 13-0-12 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, and 184 lb down and 162 lb up at 11-0-12, and 184 lb down and 162 lb up at 13-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-46, 3-5=-46, 5-6=-46, 2-8=-20, 6-9=-46
Concentrated Loads (lb)
Vert: 3=2, 16=-473, 21=17, 22=17, 23=17, 24=-184, 25=-184, 26=-184

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

Maronda Homes, Sanford, user — Run: 8.72 S Aug 20 2023 Print: 8.720 S Aug 20 2023 MiTek Industries, Inc. Tue Oct 24 08:00:05 — Page: 1

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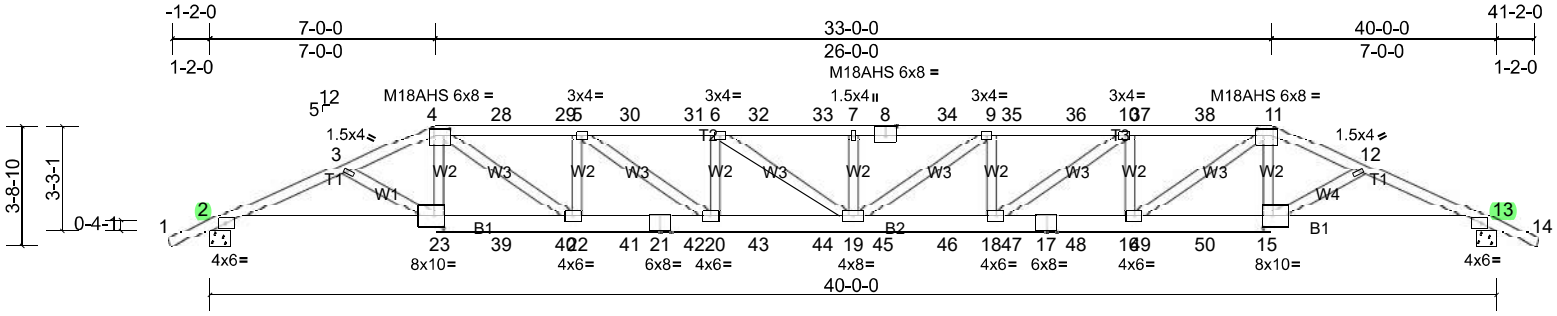

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Plate Offsets (X, Y): [4:0-5-12,0-2-8], [8:0-4-0,Edge], [11:0-5-12,0-2-8], [15:0-3-8,0-4-0], [23:0-3-8,0-4-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/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

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
   Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=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
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2480 lb uplift at joint 2 and 2480 lb uplift at joint 13.

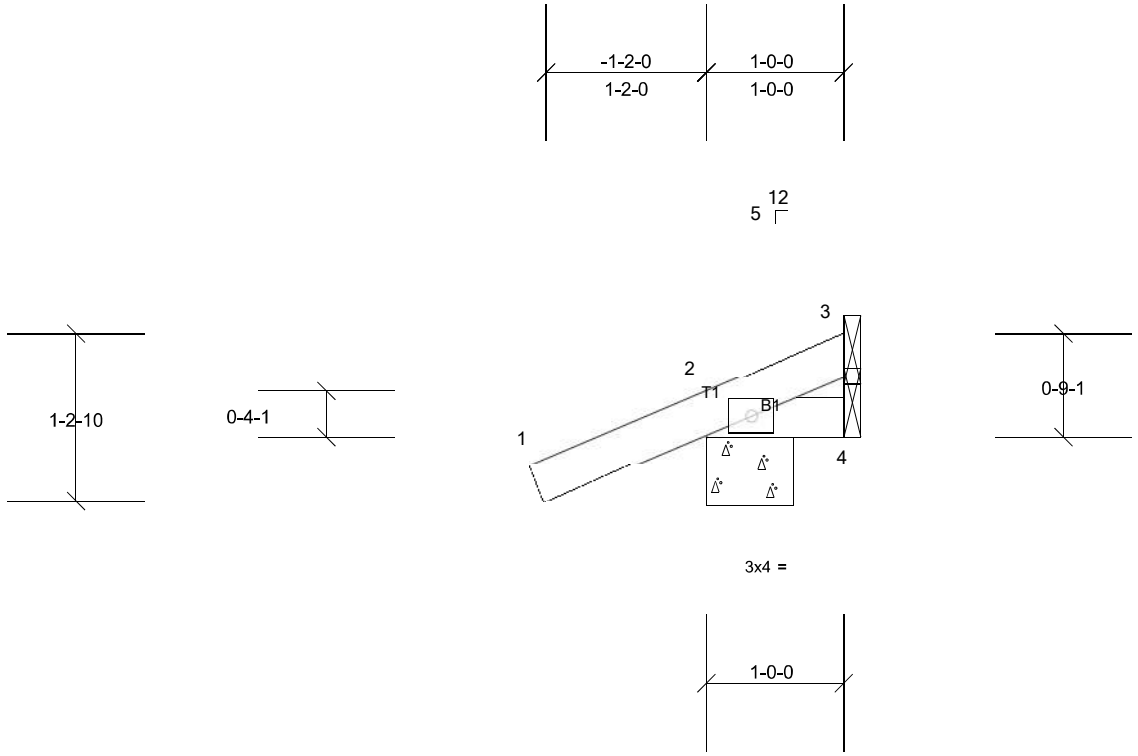
Continued on page 14

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)



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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	0.25	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

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)

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

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.

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

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

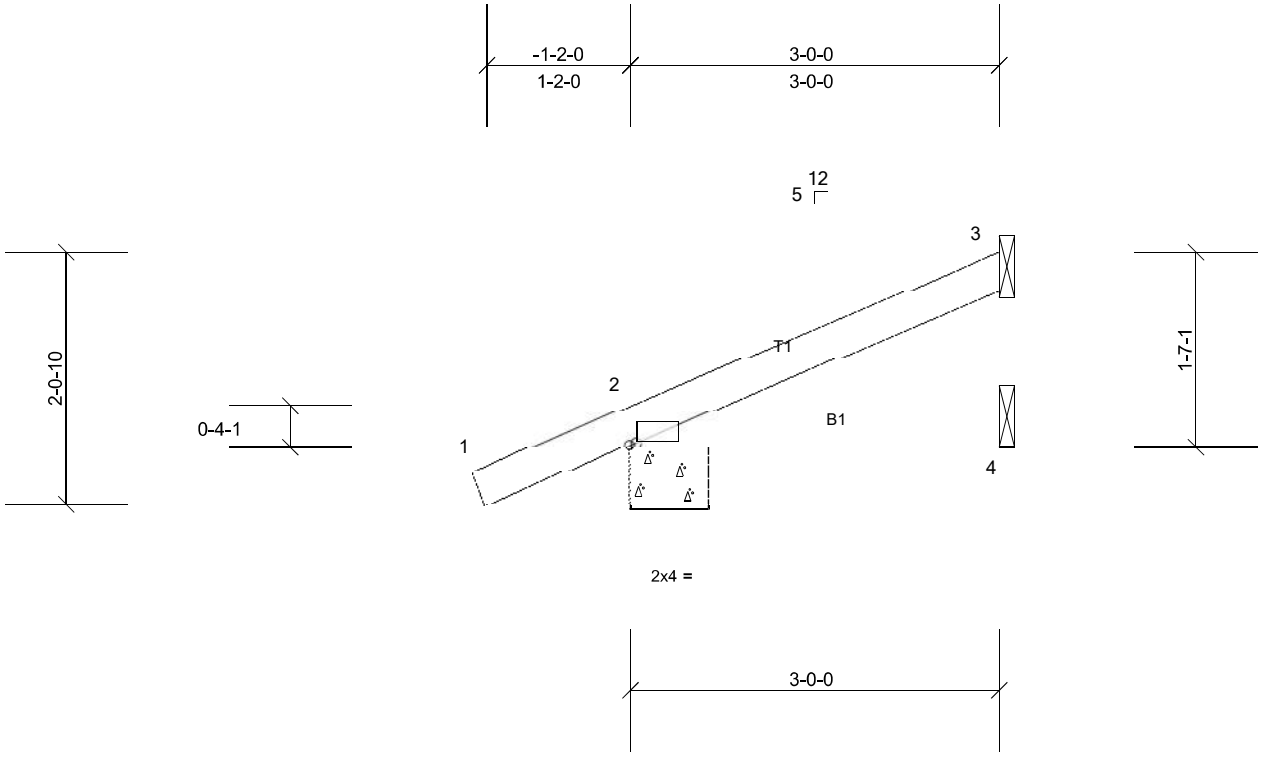

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Plate Offsets (X, Y): [2:0-0-10,Edge]

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	0.25	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

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

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

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
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 77 lb uplift at joint 3, 135 lb uplift at joint 2 and 1 lb uplift at joint 4.

LOAD CASE(S) Standard

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

Maronda Homes, Sanford, user — Run: 8.72 S Aug 20 2023 Print: 8.720 S Aug 20 2023 MiTek Industries, Inc. Tue Oct 24 08:00:06 — Page: 1

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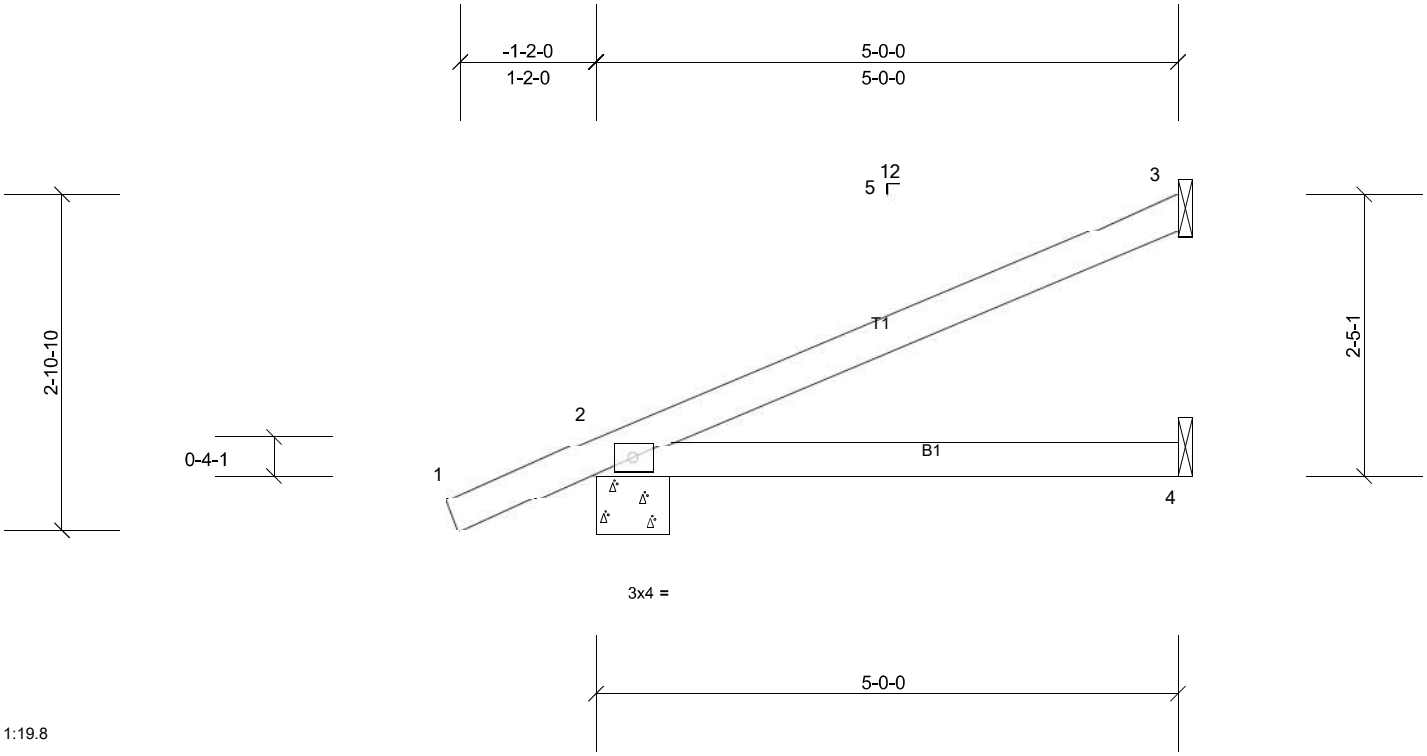

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	0.06	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.42	Vert(CT)	-0.06	4-7	>953	180		
BCLL	0.0 *	Rep Stress Incr	NO	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

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)

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

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

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

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

Maronda Homes, Sanford, user — Run: 8.72 S Aug 20 2023 Print: 8.720 S Aug 20 2023 MiTek Industries, Inc. Tue Oct 24 08:00:06 — Page: 1

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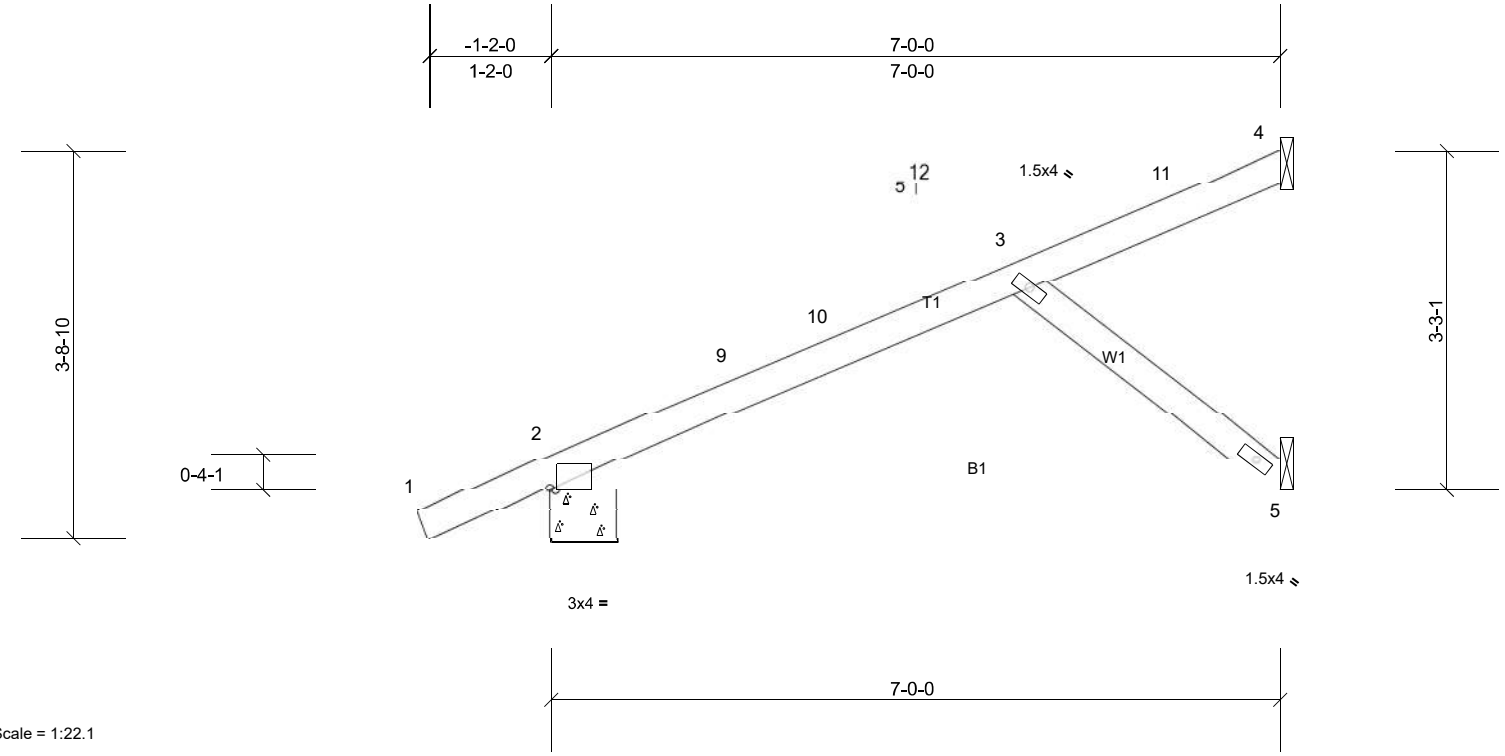

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Plate Offsets (X, Y): [2:0-0-10,Edge]

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	0.43	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

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	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.

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

Job	Truss	Truss Type	Qty	Ply	MAPLE G - BASE
MAPLE F&G	JGR75	Jack-Open Girder	3	1	Job Reference (optional)

Maronda Homes, Sanford, user — Run: 8.72 S Aug 20 2023 Print: 8.720 S Aug 20 2023 MiTek Industries, Inc. Tue Oct 24 08:00:06 — Page: 1

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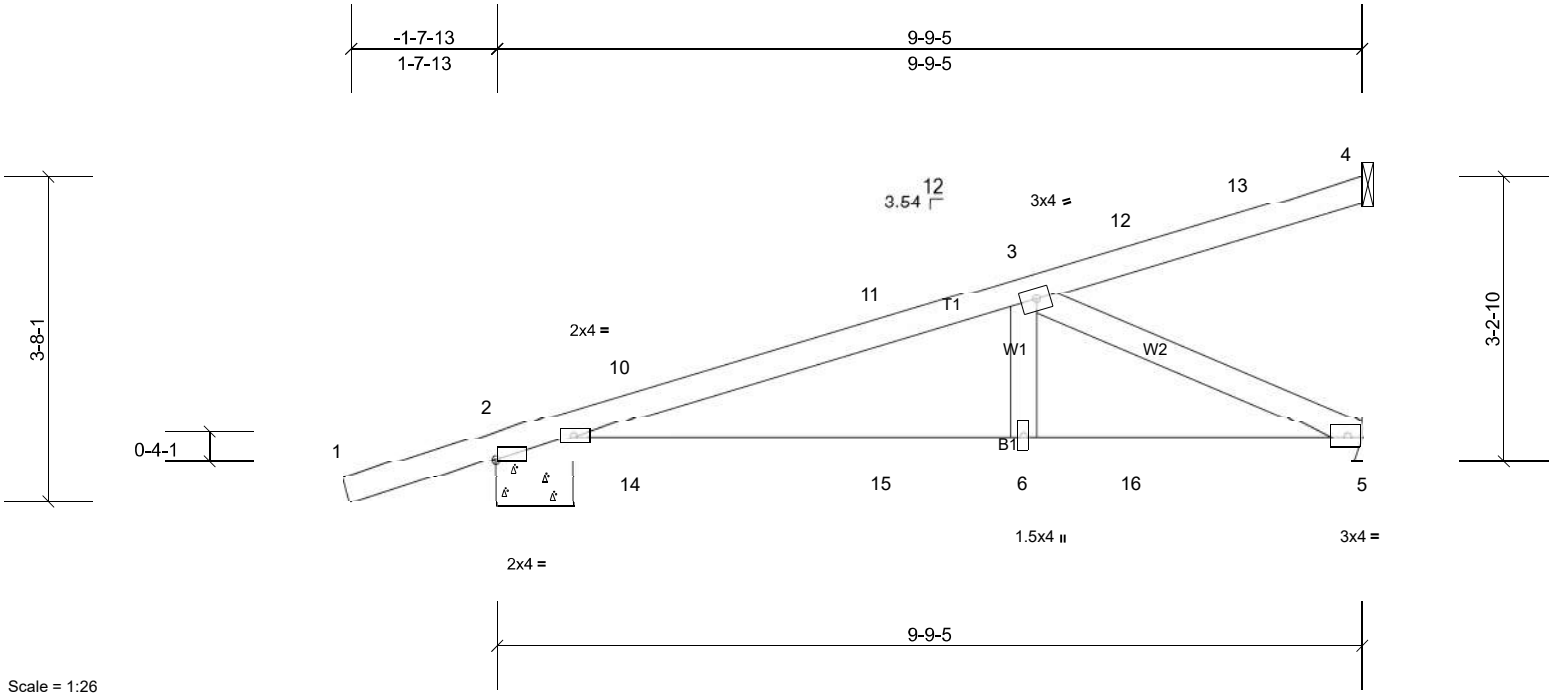

Scale = 1:26

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

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)	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%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 7-4-6 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=370/0-10-7, (min. 0-1-8), 4=79/ Mechanical, (min. 0-1-8), 5=317/ Mechanical, (min. 0-1-8)
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)

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

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) 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).

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, 5-7=-20
Concentrated Loads (lb)
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 — Run: 8.72 S Aug 20 2023 Print: 8.720 S Aug 20 2023 MiTek Industries, Inc. Tue Oct 24 08:00:06 — Page: 1

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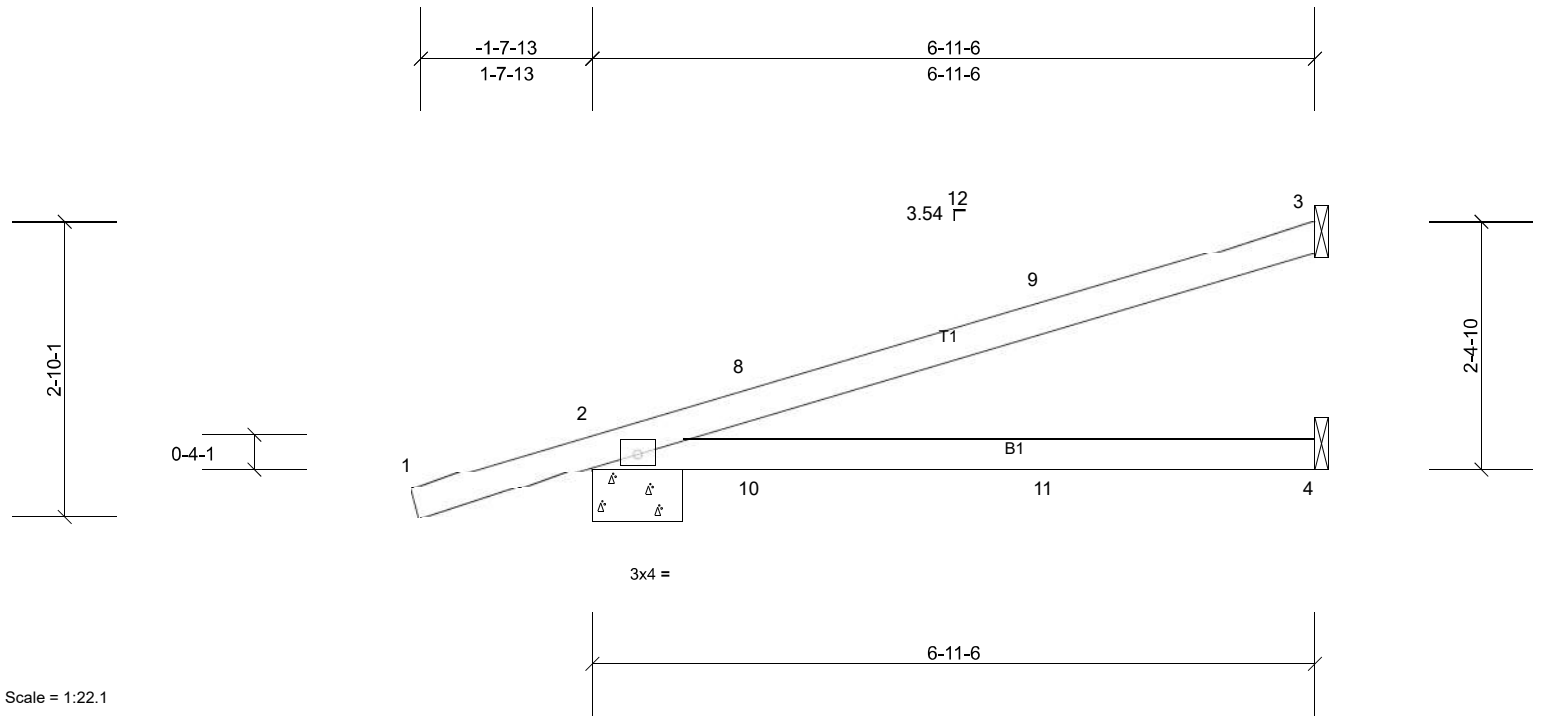


Scale = 1:22.1

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	0.59	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%

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

REACTIONS (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)
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

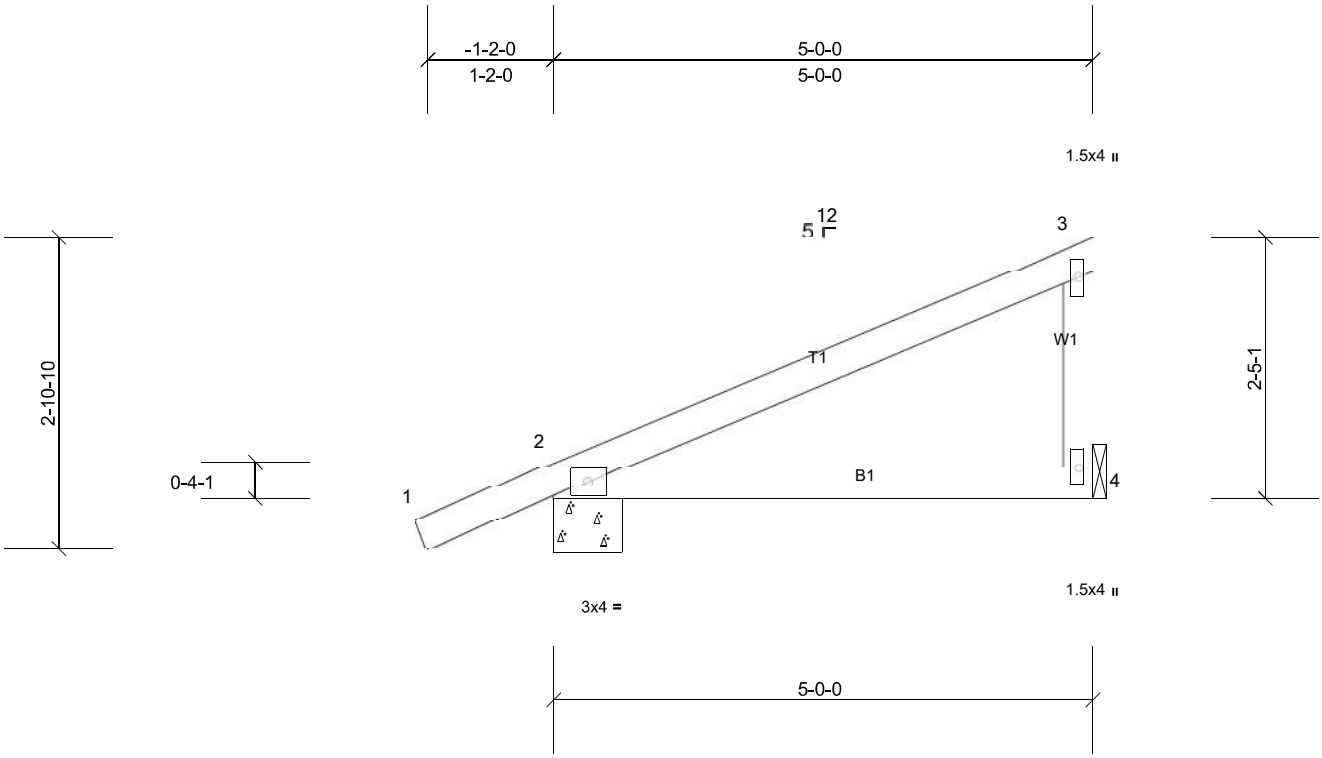
BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

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

Job	Truss	Truss Type	Qty	Ply	MAPLE G - BASE
MAPLE F&G	M90	Jack-Closed	8	1	Job Reference (optional)



Scale = 1:21.4

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	0.51	Vert(LL)	0.05	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.06	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MP							Weight: 20 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-0 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.

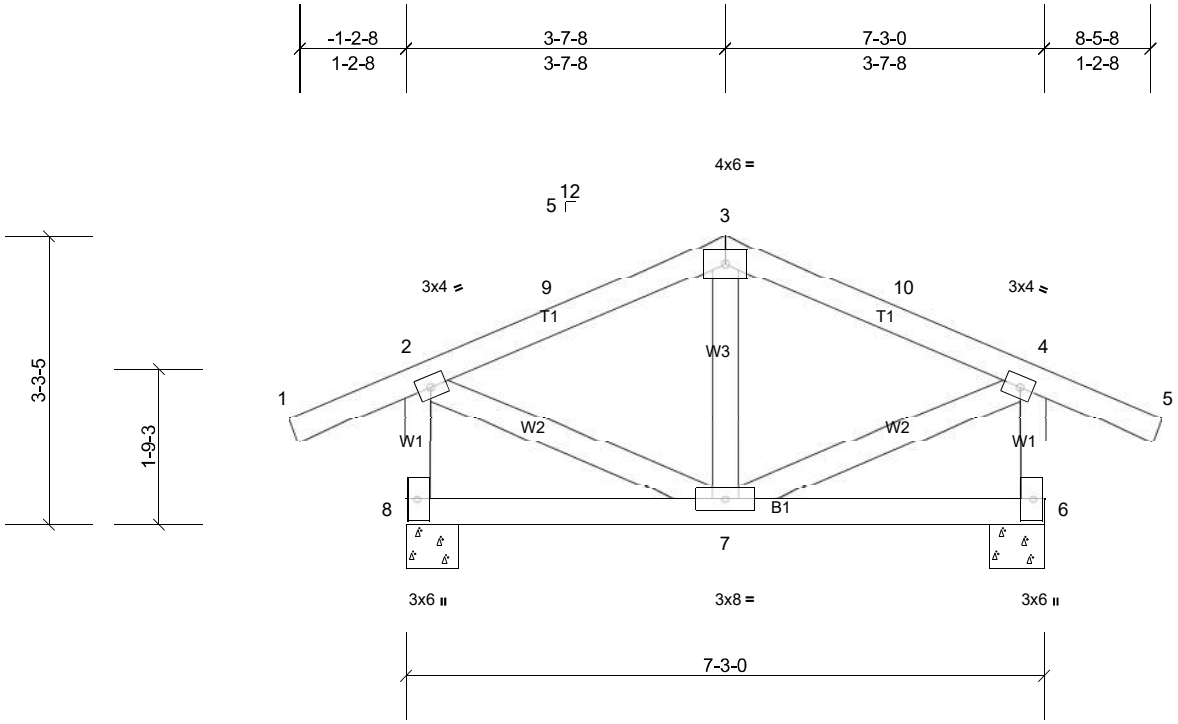
REACTIONS (lb/size) 2=224/0-7-10, (min. 0-1-8), 4=153/ Mechanical, (min. 0-1-8)
Max Horiz 2=175 (LC 10)
Max Uplift 2=-166 (LC 10), 4=-145 (LC 10)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-154/256

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 145 lb uplift at joint 4 and 166 lb uplift at joint 2.

LOAD CASE(S) Standard

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



Scale = 1:26.2

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	0.45	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

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.

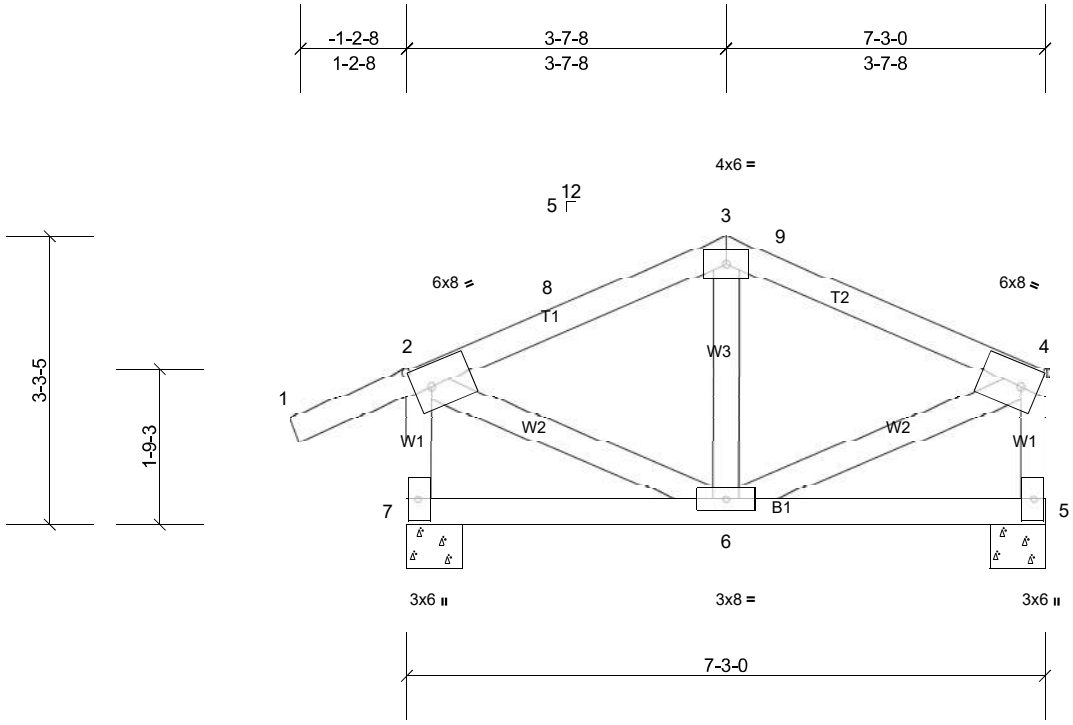
REACTIONS (lb/size) 6=294/0-7-8, (min. 0-1-8), 8=294/0-7-2, (min. 0-1-8)
Max Horiz 8=63 (LC 10)
Max Uplift 6=-211 (LC 11), 8=-211 (LC 10)

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

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)	l/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

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.

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

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

Maronda Homes, Sanford, user — Run: 8.72 S Aug 20 2023 Print: 8.720 S Aug 20 2023 MiTek Industries, Inc. Tue Oct 24 08:00:06 — Page: 1

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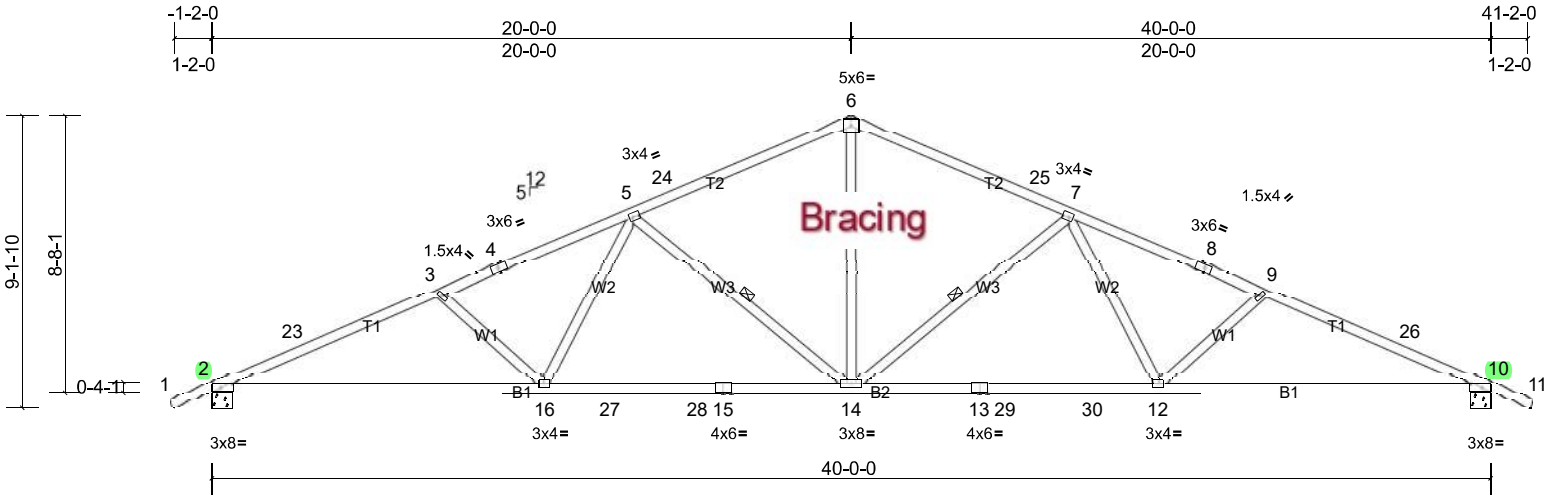

Scale = 1:72.1

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)	l/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	Structural wood sheathing directly applied or 3-0-12 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 4-10-2 oc bracing.
WEBS	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

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) 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, with BCDL = 10.0psf.
5) 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)

Maronda Homes, Sanford, user — Run: 8.72 S Aug 20 2023 Print: 8.720 S Aug 20 2023 MiTek Industries, Inc. Tue Oct 24 08:00:06 — Page: 1

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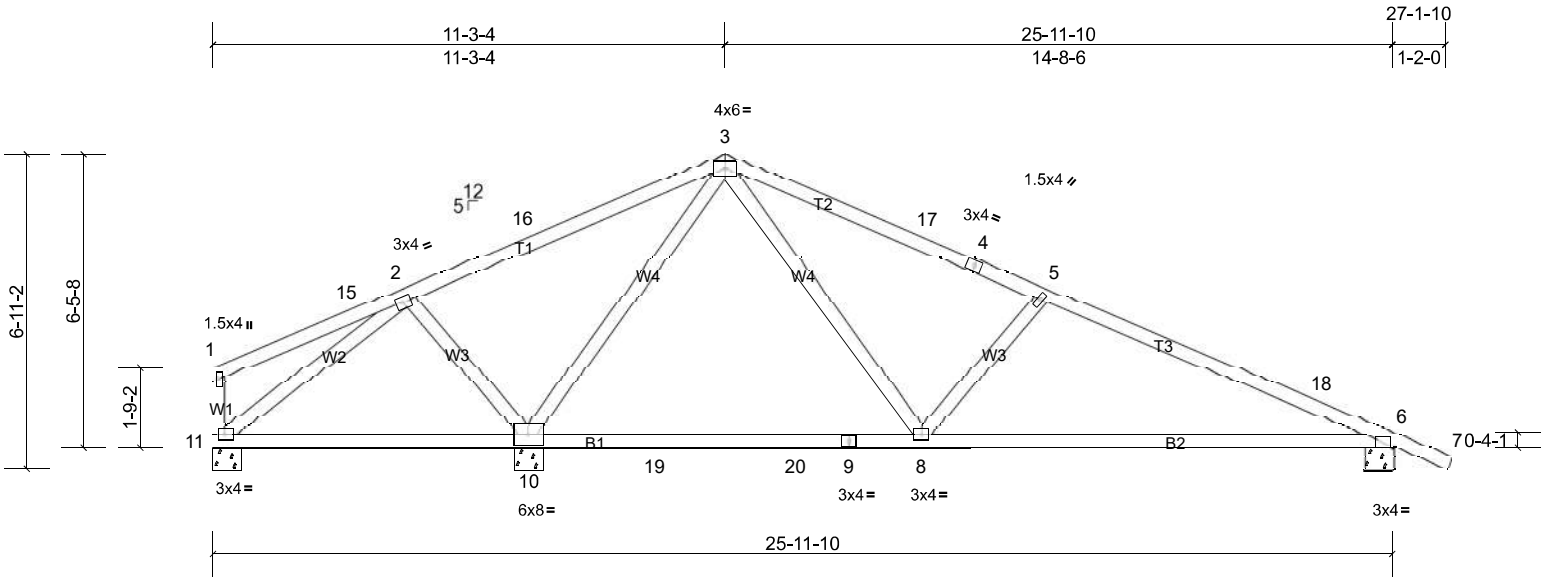

Scale = 1:50.7

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.

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

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)

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

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 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
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, with BCDL = 10.0psf.
5) 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)

Maronda Homes, Sanford, user — Run: 8.72 S Aug 20 2023 Print: 8.720 S Aug 20 2023 MiTek Industries, Inc. Tue Oct 24 08:00:06 — Page: 1

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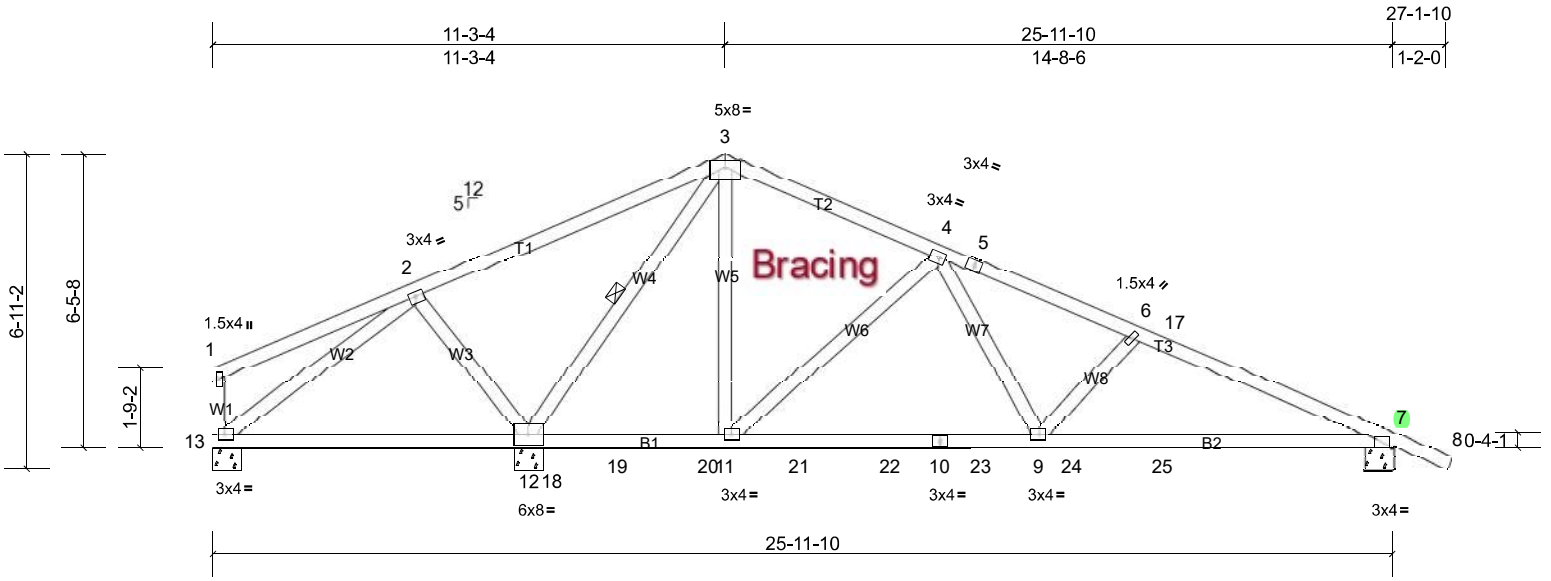

Scale = 1:50.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/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)

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.

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

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; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 3x4 MT20 unless otherwise indicated.
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 1813 lb uplift at joint 12, 943 lb uplift at joint 7 and 283 lb uplift at joint 13.
7) 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

1) 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