

# 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
9FC00801	008	TBD SW CADENCE GLEN LAKE CITY, FL 32024	JAW/9FC	SNAA43B/LH

SIENNA A 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.

Truss ID	Run Date	Drawing Reviewed	Truss ID	Run Date	Drawing Reviewed	No. of Eng. Dwg's:	70
Layout	11/02/23		LT01	11/02/23		<b>Roof Loads-</b>	
REACTION SUMMARY	11/02/23		M04	11/02/23		TC Live:	16.0 psf
MII web plate	2017		M05	11/02/23		TC Dead:	7.0 psf
OR1	2009		MGRD01	11/02/23		BC Live:	0.0 psf
ST-4ply Screw	2012		MGRD02	11/02/23		BC Dead:	10.0 psf
VC1	2009		MGRD03	11/02/23		Total	33.0 psf
TN1	2009		PB01	11/02/23		DurFac- Lbr:	1.25
ST-Rep01A1	2014		PB02	11/02/23		DurFac- Plt:	1.25
MMII-PIGGY-PERP	2019		PB03	11/02/23		O.C. Spacing:	24.0"
F01	11/02/23		PB04	11/02/23		<b>Floor Loads-</b>	
F02	11/02/23		PB05	11/02/23		TC Live:	40.0 psf
G28	11/02/23		PB06	11/02/23		TC Dead:	10.0 psf
G32	11/02/23		PB07	11/02/23		BC Live:	0.0 psf
G33	11/02/23		PB08	11/02/23		BC Dead:	5.0 psf
H08	11/02/23		PB09	11/02/23		Total	55.0 psf
H09	11/02/23		PB10	11/02/23		DurFac- Lbr:	1.00
H09P	11/02/23		PB11	11/02/23		DurFac- Plt:	1.00
H10	11/02/23		T12	11/02/23		O.C. Spacing:	24.0"
H11	11/02/23		T13	11/02/23			
H11P	11/02/23		T22	11/02/23			
H13P	11/02/23		T25	11/02/23			
H15	11/02/23		T26	11/02/23			
H21	11/02/23		T30	11/02/23			
H6617	11/02/23		T31	11/02/23			
H6619	11/02/23		TGRD14	11/02/23			
HGR07P	11/02/23		TGRD23	11/02/23			
J02	11/02/23		V50	11/02/23			
J03B	11/02/23		V51	11/02/23			
J04B	11/02/23						
J16	11/02/23						
J16P	11/02/23						
J16S	11/02/23						
J36	11/02/23						
J36P	11/02/23		INV #	DESC	QNTY		
J56	11/02/23		050060.0110	JUS26	10		
J56P	11/02/23		050060.0047	THD28			
J76	11/02/23		050060.0049	THD28-2			
J76P	11/02/23		050060.0106	HUS26	1		
JGR56	11/02/23		050060.0272	HUS179			
JGR56P	11/02/23		050060.0058	HJC26	2		
JGR76	11/02/23		050060.0312	HJC26-SK60			
JGR76P	11/02/23		SEAT PLATES		129		
			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



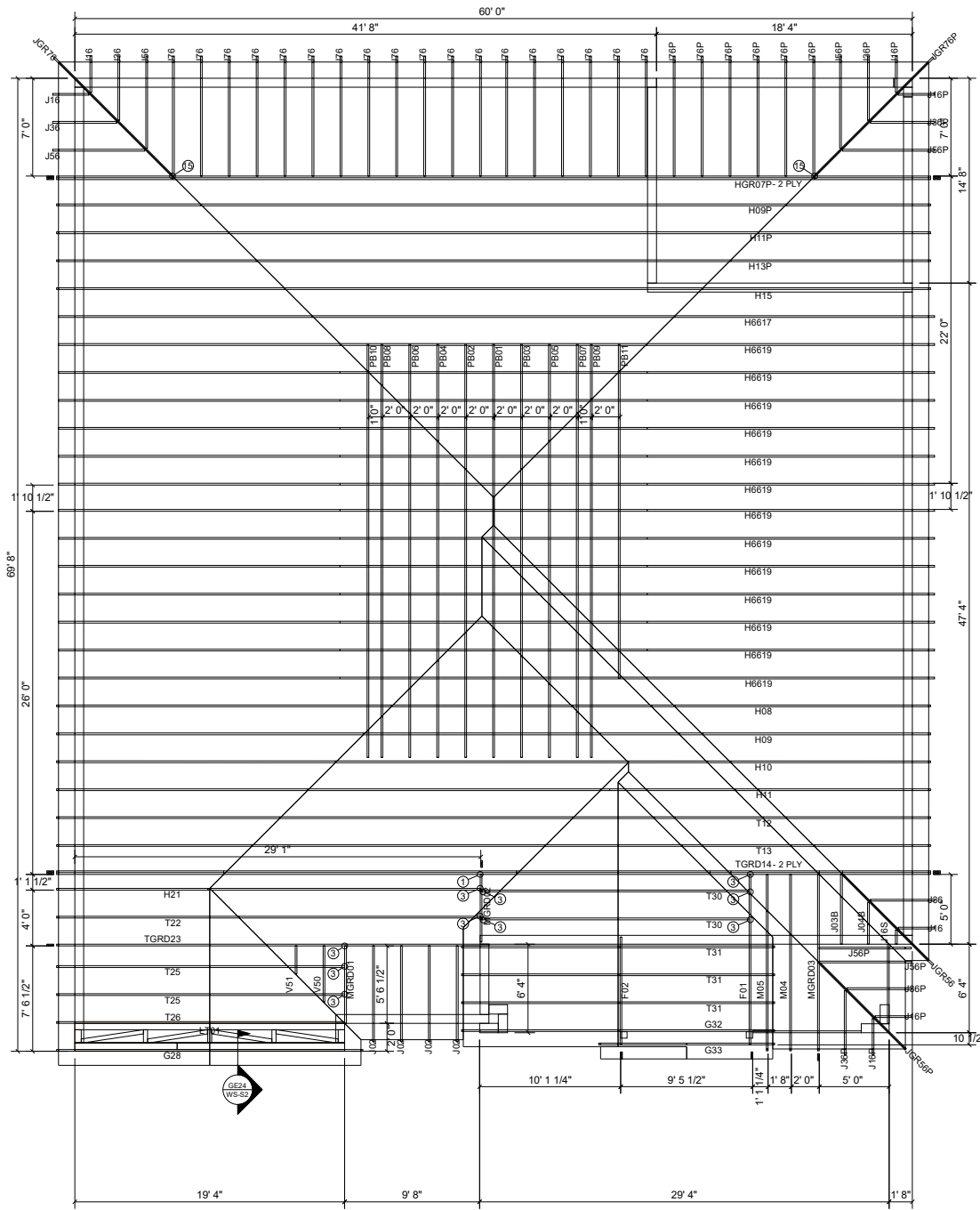
SCOTT A. LEWKOWSKI  
LICENSE  
No. 78750  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

5-5-25  
Signing Date: 05/07/2025

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: 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.
TC LIVE	16.000 lb/ft <sup>2</sup>	SNOW LOAD	0.00	
TC DEAD	7.000 lb/ft <sup>2</sup>	LUMBER DOL	1.25	
BC LIVE	0.000 lb/ft <sup>2</sup>	PLATE DOL	1.25	
BC DEAD	10.000 lb/ft <sup>2</sup>	WIND	160.0 mph Vasd=124.0 mph	
TOTAL	33.0 lb/ft <sup>2</sup>	SPACING	24" O.C.	

## TRUSS PLACEMENT PLAN



# Sienna "A" Base

**MARONDA**  
*Homes*

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

**CUSTOMER: Maronda Systems**

**Model: SIENNA**

**ELEVATION: A BASE**

**DRAWN BY: C. Hunter**

**RELEASE DATE: 11/2/2023**

**GARAGE: LEFT**



**TOTAL SOLUTIONS GROUP**  
258 Southhall Lane, Suite 200  
Maitland, Florida, 32751  
(407) 880 2333  
CA No. 9181

**100% Employee Owned**  
myTSGhome.com

☐ CARL A. BROWN, PE - FL # 56126  
☐ SCOTT A. LEWKOWSKI, PE - FL # 78750  
☐ THIEN BAO DUONG, PE - FL # 94452

**5-5-25**

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.

## 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

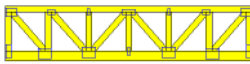
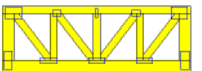


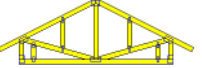
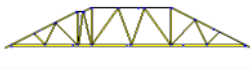
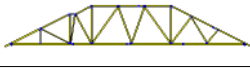
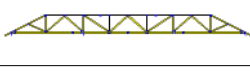


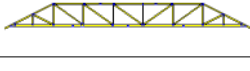





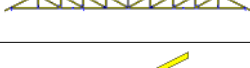

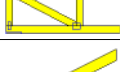

MWF = MAIN WIND FORCE  
C&C = COMPONENTS AND CLADDING  
TOB = TOP OF BEARING  
TC = TOP CHORD  
BC = BOTTOM CHORD  
LL = LIVE LOAD  
DL = DEAD LOAD  
psf = POUNDS PER SQUARE FOOT  
# = POUNDS

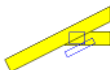
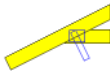
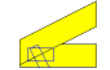

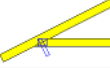
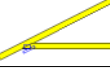
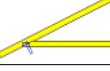
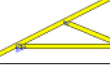
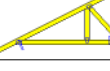

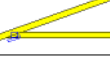
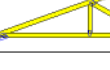
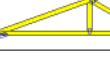

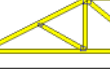
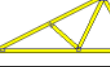
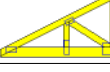

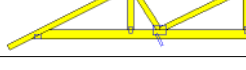
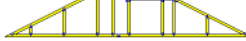
## LOADS PER FBC & FRC

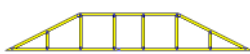
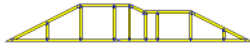
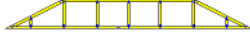


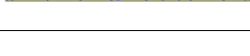


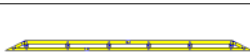

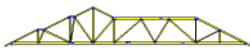
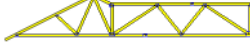
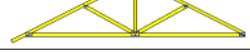
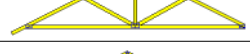
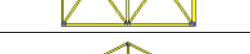




\* NON-CONCURRENT BC LL 10psf  
CONCURRENT STORAGE BC LL 20 psf

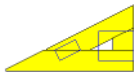
**SHEET:**

# TR1

MARONDA HOMES INC. of 4005 MARONDA WAY SANFORD, FL. 32771 (407) 321-9877 Fax: (407) 688-8522			To: Valued Customer			Reaction				
						Job Number: B2300033 Page: 1 Date: 11/02/23 10:06:36				
Project: Sienna		Block No:	Deliver To:			Account No: 000000001				
Model: A Base		Lot No:				Designer: Charles Hunter				
Contact:	Site:	Office:				Estimator:				
Name:						Salesperson: Inside Sales				
Phone:						Quote Number: B2300033				
Fax:						P.O. Number:				
	Qty:	Truss Id:	Span:	Truss Type:	Slope	Reactions:				
	1	F01	12-02-08	FLAT GIRDER	0.00	Joint 8 593.43 -345.08	Joint 10 1886.82 -1552.98	Joint 14 1209.47 -1039.60		
	1	F02	07-08-08	FLAT GIRDER	0.00	Joint 6 1631.90 -1225.47	Joint 10 1828.50 -1365.95			
	1	G28	19-04-00	COMMON	6.00	Joint 2 175.33 -109.64	Joint 10 175.33 -139.88	Joint 12 226.71 -260.90	Joint 13 93.35 -112.88	Joint 14 148.50 -169.85
	1	G32	19-09-00	ROOF SPECIAL	6.00	Joint 12 180.76 -96.22	Joint 13 207.55 -231.38	Joint 18 707.00 -510.87	Joint 20 347.68 -300.92	
	1	G33	09-11-00	COMMON	6.00	Joint 8 382.94 -308.66	Joint 12 382.88 -308.60			
	1	H08	60-00-00	ROOF SPECIAL	6.00	Joint 2 2361.53 -1401.12	Joint 16 2372.70 -1365.82			
	1	H09	60-00-00	ROOF SPECIAL	6.00	Joint 2 2360.53 -881.36	Joint 14 2378.64 -860.44			
	1	H09P	60-00-00	HIP	6.00	Joint 2 288.91 -313.20	Joint 16 1198.69 -1063.17	Joint 24 2716.34 -2249.29		
	1	H10	60-00-00	ROOF SPECIAL	6.00	Joint 2 2365.54 -877.83	Joint 14 2376.22 -856.73			
	1	H11	60-00-00	ROOF SPECIAL	6.00	Joint 2 2339.49 -862.76	Joint 16 2358.75 -832.90			
	1	H11P	60-00-00	HIP	6.00	Joint 2 229.96 -311.15	Joint 13 1361.77 -662.79	Joint 22 3087.50 -1707.96		
	1	H13P	60-00-00	HIP	6.00	Joint 2 235.51 -301.47	Joint 14 1335.90 -662.14	Joint 21 3099.06 -1678.93		
	1	H15	60-00-00	HIP	6.00	Joint 2 93.46 -83.82	Joint 15 1479.77 -699.30	Joint 24 3676.23 -1457.24	Joint 25 459.53 -701.01	
	1	H21	29-01-00	HALF HIP	6.00	Joint 2 1012.81 -752.46	Joint 9 953.73 -737.14			
	1	H6617	60-00-00	HIP	6.00	Joint 2 2375.84 -1337.76	Joint 15 2375.85 -1337.76			
	13	H6619	60-00-00	HIP	6.00	Joint 2 2385.59 -1333.14	Joint 14 2382.41 -1333.14			
	1	HGR07P	60-00-00	HIP GIRDER	6.00	Joint 2 200.45 -464.72	Joint 14 2390.73 -2213.62	Joint 23 6122.45 -6028.92		
	4	J02	05-06-08	JACK-OPEN	6.00	Joint 2 56.49 -44.15	Joint 3 110.14 -181.03	Joint 4 98.59 -5.90	Joint 11 63.19 -49.82	
	1	J03B	05-00-00	JACK-OPEN	6.00	Joint 3 36.42 -65.21	Joint 4 121.71 -100.88	Joint 6 158.13 -120.07		
	1	J04B	03-00-00	JACK-OPEN	6.00	Joint 3 55.60 -80.81	Joint 4 45.25 -15.05	Joint 6 92.13 -51.69		

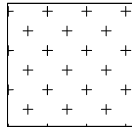
MARONDA HOMES INC. of 4005 MARONDA WAY SANFORD, FL. 32771 (407) 321-9877 Fax: (407) 688-8522			To: Valued Customer			Reaction				
						Job Number: B2300033 Page: 2 Date: 11/02/23 10:06:39				
Project: Sienna		Block No:	Deliver To:			Account No: 000000001				
Model: A Base		Lot No:				Designer: Charles Hunter				
Contact:	Site:	Office:				Estimator:				
Name:						Salesperson: Inside Sales				
Phone:						Quote Number: B2300033				
Fax:						P.O. Number:				
	Qty:	Truss Id:	Span:	Truss Type:	Slope	Reactions:				
	3	J16	01-00-00	JACK-OPEN	6.00	Joint 2 124.60 -130.13	Joint 3 10.78 -3.72	Joint 4 24.83 -5.59		
	4	J16P	01-00-00	JACK-OPEN	6.00	Joint 2 124.60 -130.13	Joint 3 10.78 -3.72	Joint 4 24.83 -5.59		
	1	J16S	01-00-00	JACK	6.00	Joint 1 32.59 -17.66	Joint 2 17.88 -28.47	Joint 3 16.39 -11.68		
	3	J36	03-00-00	JACK-OPEN	6.00	Joint 2 165.49 -128.68	Joint 3 53.84 -84.42	Joint 4 50.52 -0.55		
	4	J36P	03-00-00	JACK-OPEN	6.00	Joint 2 165.49 -128.68	Joint 3 53.84 -84.41	Joint 4 50.52 -35.82		
	2	J56	05-00-00	JACK-OPEN	6.00	Joint 2 226.68 -154.74	Joint 3 98.36 -156.07	Joint 4 88.42 -4.28		
	4	J56P	05-00-00	JACK-OPEN	6.00	Joint 2 226.67 -154.73	Joint 3 98.36 -156.07	Joint 4 88.42 -62.96		
	18	J76	07-00-00	JACK-OPEN	6.00	Joint 2 292.07 -189.09	Joint 4 64.12 -104.57	Joint 5 177.87 -101.85		
	6	J76P	07-00-00	JACK-OPEN	6.00	Joint 2 292.53 -195.25	Joint 4 13.62 -19.52	Joint 5 211.19 -221.82		
	1	JGR56	06-11-06	DIAGONAL HIP	4.24	Joint 2 324.77 -336.39	Joint 3 141.84 -199.23	Joint 4 124.78 -30.92		
	1	JGR56P	06-11-06	JACK-OPEN	4.24	Joint 2 318.70 -459.66	Joint 3 139.39 -217.98	Joint 4 124.37 -112.23		
	1	JGR76	09-09-05	DIAGONAL HIP	4.24	Joint 2 440.51 -425.22	Joint 4 69.42 -108.92	Joint 5 345.76 -312.01		
	1	JGR76P	09-09-05	DIAGONAL HIP	4.24	Joint 2 440.49 -582.66	Joint 4 69.73 -109.75	Joint 5 345.44 -478.42		
	1	LT01	19-04-00	LAY-IN GABLE	0.00	Joint 6 2186.25 -1828.60	Joint 11 2186.25 -1828.59			
	1	M04	11-04-00	HALF HIP	6.00	Joint 2 262.31 -185.45	Joint 6 126.53 -110.55	Joint 7 430.29 -382.32		
	1	M05	11-04-00	HALF HIP	6.00	Joint 2 257.27 -168.14	Joint 6 114.32 -107.38	Joint 7 423.45 -362.60		
	1	MGRD01	05-06-08	MONOPITCH	6.00	Joint 1 710.99 -461.47	Joint 4 877.53 -675.38			
	1	MGRD02	01-00-00	MONOPITCH	6.00	Joint 4 1841.44 -1569.19	Joint 6 1530.99 -1029.61			
	1	MGRD03	11-04-00	HALF HIP	6.00	Joint 2 324.67 -337.06	Joint 5 128.55 -162.58	Joint 6 657.83 -831.57		
	1	PB01	29-06-14	GABLE	6.00	Joint 1 61.60 -30.28	Joint 10 115.01 -64.79	Joint 11 415.85 -429.51	Joint 12 134.77 -42.13	Joint 13 299.97 -237.32

MARONDA HOMES INC. of 4005 MARONDA WAY SANFORD, FL. 32771 (407) 321-9877 Fax: (407) 688-8522			To: Valued Customer			Reaction				
						Job Number: B2300033 Page: 3 Date: 11/02/23 10:06:42				
Project: Sienna		Block No:	Deliver To:			Account No: 000000001				
Model: A Base		Lot No:				Designer: Charles Hunter				
Contact:	Site:	Office:				Estimator:				
Name:						Salesperson: Inside Sales				
Phone:						Quote Number: B2300033				
Fax:						P.O. Number:				
	Qty:	Truss Id:	Span:	Truss Type:	Slope	Reactions:				
	1	PB02	29-06-14	VALLEY	6.00	Joint 1 103.47 -49.73	Joint 8 103.47 -66.22	Joint 9 376.59 -402.15	Joint 10 342.78 -164.67	Joint 11 343.92 -240.61
	1	PB03	29-06-14	VALLEY	6.00	Joint 1 113.71 -69.61	Joint 10 54.15 -1.15	Joint 11 281.56 -305.41	Joint 12 314.61 -198.68	Joint 13 255.89 -241.84
	1	PB04	29-06-14	VALLEY	6.00	Joint 1 73.59 -42.53	Joint 9 53.14 -11.56	Joint 10 244.68 -294.38	Joint 11 250.92 -176.35	Joint 12 278.42 -260.66
	1	PB05	29-06-14	VALLEY	6.00	Joint 1 59.50 -15.60	Joint 10 125.23 -101.39	Joint 11 378.29 -346.69	Joint 12 202.31 -238.45	Joint 13 33.56 -79.10
	1	PB06	29-06-14	VALLEY	6.00	Joint 1 106.67 -74.10	Joint 9 106.67 -91.34	Joint 10 374.06 -324.94	Joint 11 280.77 -266.35	Joint 12 245.93 -215.82
	1	PB07	29-06-14	VALLEY	6.00	Joint 1 94.83 -75.84	Joint 10 0.19 -0.25	Joint 11 364.04 -318.99	Joint 12 209.88 -244.64	Joint 13 17.17 -31.23
	1	PB08	29-06-14	VALLEY	6.00	Joint 1 78.65 -64.32	Joint 9 78.75 -74.24	Joint 10 243.06 -207.15	Joint 11 288.16 -265.74	Joint 12 246.19 -226.61
	1	PB09	29-06-14	VALLEY	6.00	Joint 1 86.76 -70.16	Joint 10 0.20 -0.25	Joint 11 296.29 -258.10	Joint 12 219.81 -242.85	Joint 13 35.35 -37.26
	1	PB10	29-06-14	VALLEY	6.00	Joint 1 47.40 -44.45	Joint 11 47.40 -50.55	Joint 12 204.95 -169.10	Joint 13 282.02 -258.76	Joint 14 270.39 -238.98
	1	PB11	23-10-14	VALLEY	6.00	Joint 1 47.67 -44.45	Joint 9 47.67 -50.52	Joint 10 203.91 -168.17	Joint 11 286.56 -262.54	Joint 12 253.18 -224.24
	1	T12	60-00-00	ROOF SPECIAL	6.00	Joint 2 2324.56 -1412.34	Joint 17 2332.87 -1694.50			
	1	T13	60-00-00	ROOF SPECIAL	6.00	Joint 2 2302.83 -1412.34	Joint 14 2313.01 -1694.50			
	1	T22	29-01-00	ROOF SPECIAL	6.00	Joint 2 1012.81 -606.81	Joint 10 953.73 -718.37			
	2	T25	19-04-00	COMMON	6.00	Joint 2 696.47 -484.56	Joint 6 636.19 -413.84			
	1	T26	19-04-00	COMMON	6.00	Joint 2 696.47 -484.56	Joint 6 636.20 -413.84			
	2	T30	19-02-12	COMMON	6.00	Joint 6 744.38 -427.88	Joint 8 745.03 -427.36			
	3	T31	19-09-00	ROOF SPECIAL	6.00	Joint 8 349.45 -292.91	Joint 11 748.21 -542.69	Joint 13 349.35 -270.79		
	1	TGRD14	60-00-00	ROOF SPECIAL	6.00	Joint 2 3770.22 -2559.70	Joint 15 3125.41 -2018.44			
	1	TGRD23	29-08-00	ROOF SPECIAL	6.00	Joint 2 1409.12 -976.50	Joint 9 1887.22 -1615.04			
	1	V50	03-10-00	VALLEY	6.00	Joint 1 102.34 -59.92	Joint 3 102.34 -121.60			

<b>MARONDA HOMES INC. of</b> <b>4005 MARONDA WAY</b> <b>SANFORD, FL. 32771</b> <b>(407) 321-9877 Fax: (407) 688-8522</b>			To: Valued Customer			<b>Reaction</b>	
Project: Sienna      Block No: Model: A Base      Lot No:			Deliver To:			Job Number: <b>B2300033</b> Page: 4 Date: 11/02/23 10:06:46	
Contact:	Site:	Office:				Account No: 000000001 Designer: Charles Hunter Estimator:	
Name:						Salesperson: Inside Sales Quote Number: B2300033 P.O. Number:	
Phone:							
Fax:							
	Qty:	Truss Id:	Span:	Truss Type:	Slope	Reactions:	
	1	<b>V51</b>	<b>01-10-00</b>	VALLEY	<b>6.00</b>	Joint 1      Joint 3 36.34      36.34 -21.12      -43.33	



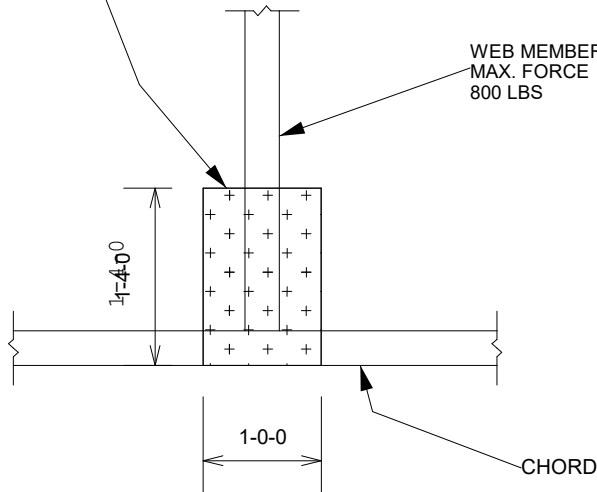
1. ALL MATERIAL IS 2x4
2. THIS DETAIL IS APPLICABLE FOR DESIGNS WITH DOLS. OF 1.15 OR 1.25 AND LUMBER SPECIES SP, DF, HF, OR SPF.
3. DETAIL SHALL BE USED FOR CONDITIONS OF A MISSING OR LOOSE CONNECTOR PLATE ONLY.
4. CHORD MATERIAL IS CONTINUOUS THROUGH JOINT, THERE IS NO MAXIMUM CHORD FORCE AND NO SPLICE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

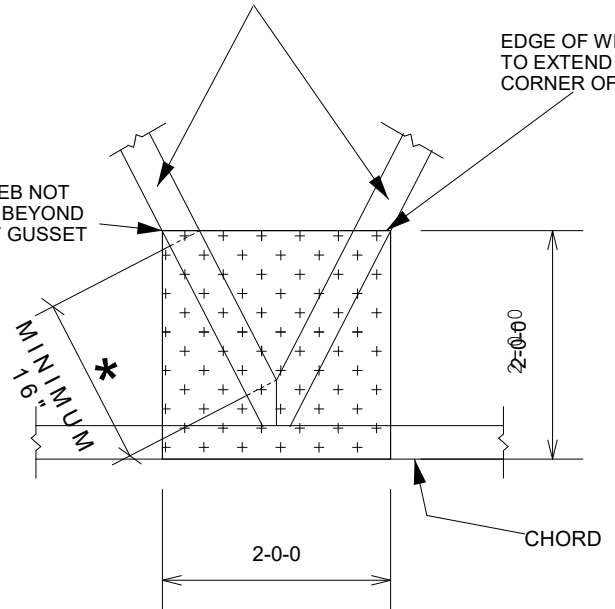
WEB MEMBER  
MAX. FORCE  
800 LBS



WEB MEMBER  
MAX. FORCE  
1200 LBS

EDGE OF WEB NOT TO EXTEND BEYOND CORNER OF GUSSET

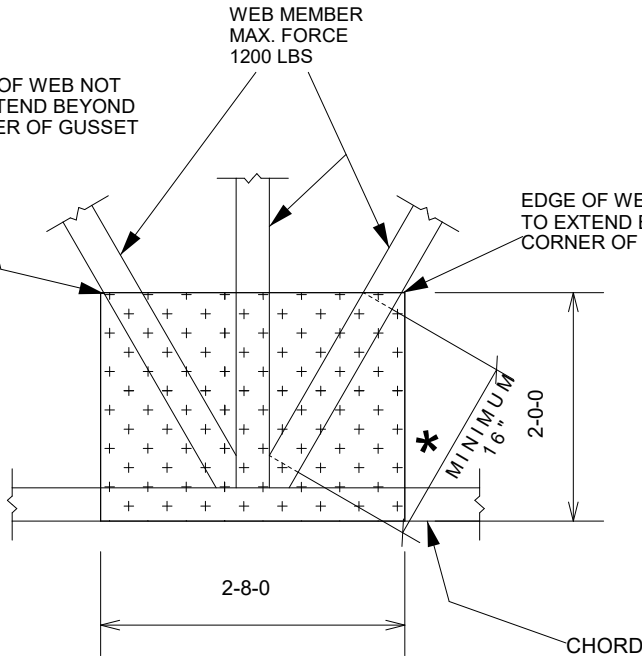
EDGE OF WEB NOT TO EXTEND BEYOND CORNER OF GUSSET



EDGE OF WEB NOT TO EXTEND BEYOND CORNER OF GUSSET

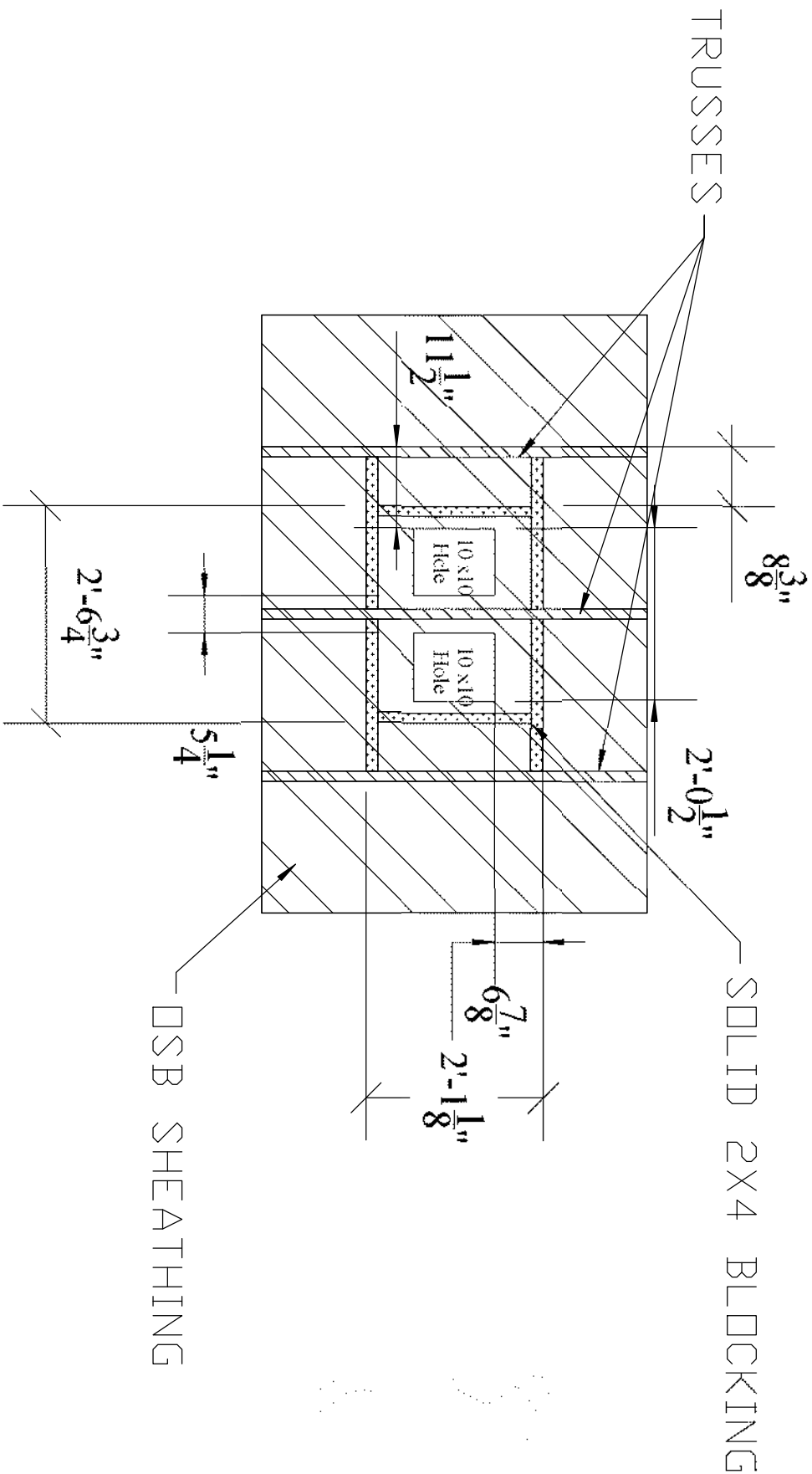
WEB MEMBER  
MAX. FORCE  
1200 LBS

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)

# OFF-RIDGE INSTALLATION



LAMAND OFF RIDGE VENT FRAMING DETAIL

Revisions:	

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**Maronda Homes**

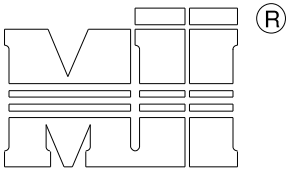
14575 321 Street 4002 Parkdale Way Nanters FL 32064

OR

<b>TRUSS DETAILS</b>	
<b>OFF-RIDGE INSTALLATION</b>	
DRAWN BY: <b>J. FESSIA</b>	GARAGE:
RELEASE DATE: <b>12/9/09</b>	

SHEET	
<b>ORI</b>	



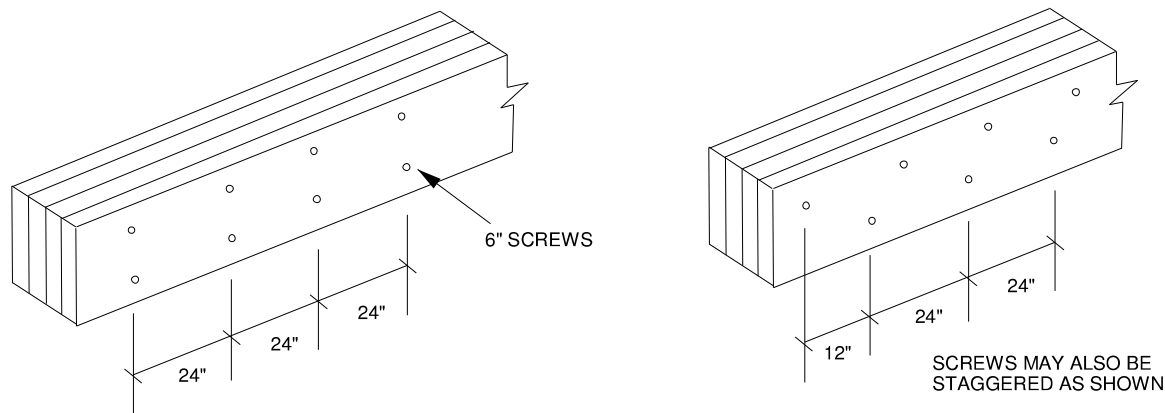


MiTek USA, Inc.

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.

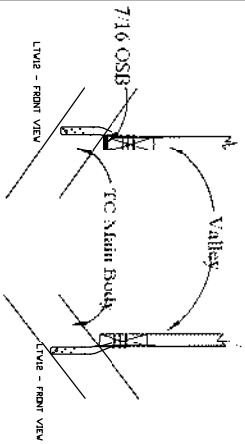


Please note that screws are not required from the back face. However, it is vitally important that the plies are tightly clamped together during the installation of the screws to prevent gaps between the plies.

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  
BUT LIM -HURB

NON-BEVELED  
BOTTOM CHORD  
NO-SHEATHING

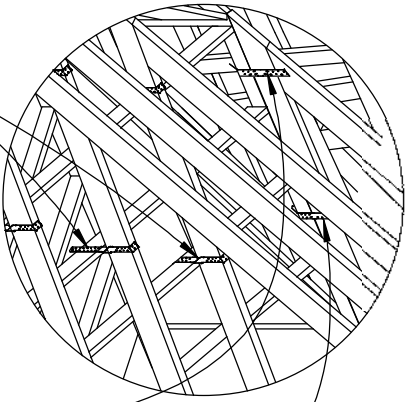


# VALLEY CONNECTIONS

(ELEMENTS NOT SHOWN FOR CLARITY)

VALLEY KAT

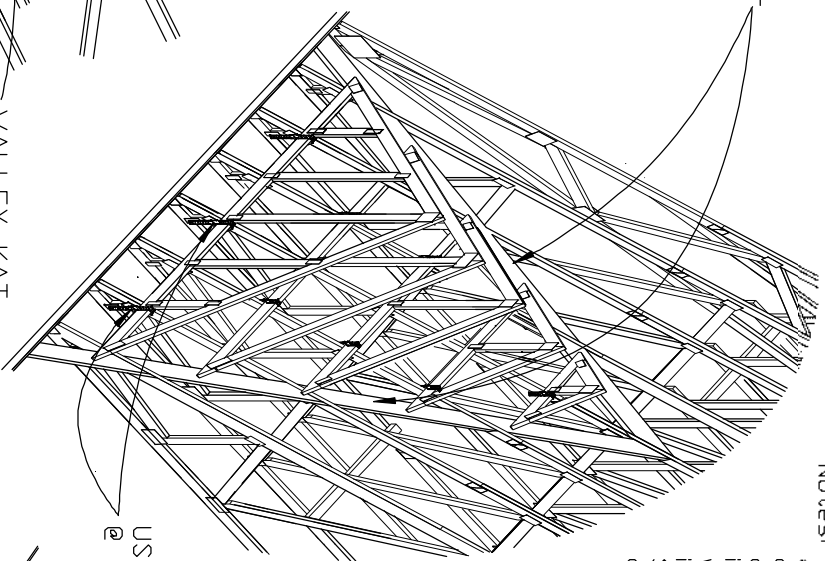
Notes: Valley trusses can be installed either a top main body roof trusses or a top 7/16 sheathing. Connections of strapping remain the same as illustrated. Valley kats are required when a top main body truss option is utilized.  
See truss engineering and standard details for truss bracing requirements. 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 / MST12  
@ 4'D.C. TYP

HIP KAT

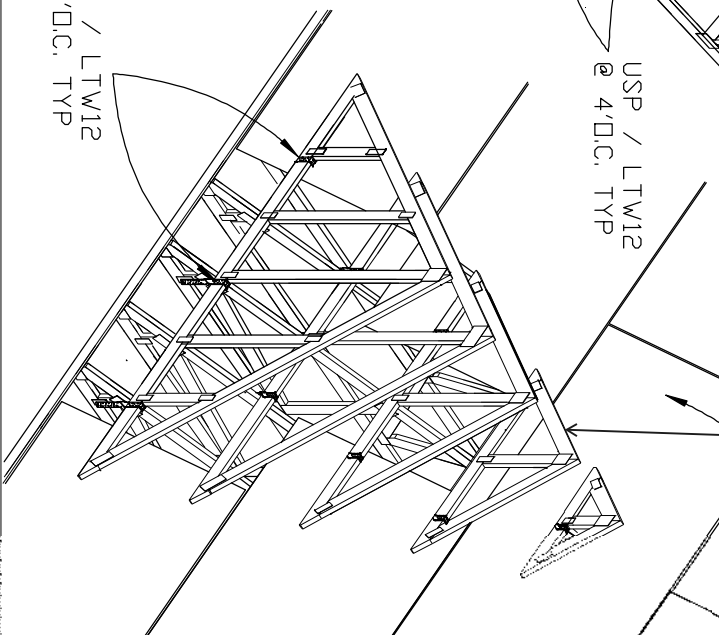
VALLEY KAT



USP / LTM12  
@ 4'D.C. TYP

7/16 Sheathing

USP / LTM12  
@ 4'D.C. TYP



REVISIONS

Maronda Homes

12111-100-1 100% MARONDA HOMES, INC. 12111-100-1

**TRUSS DETAILS**

**VALLEY CONNECTIONS**

DRAWN BY: J.FESSIA      CAPACT:

RELEASE DATE: 12/7/09

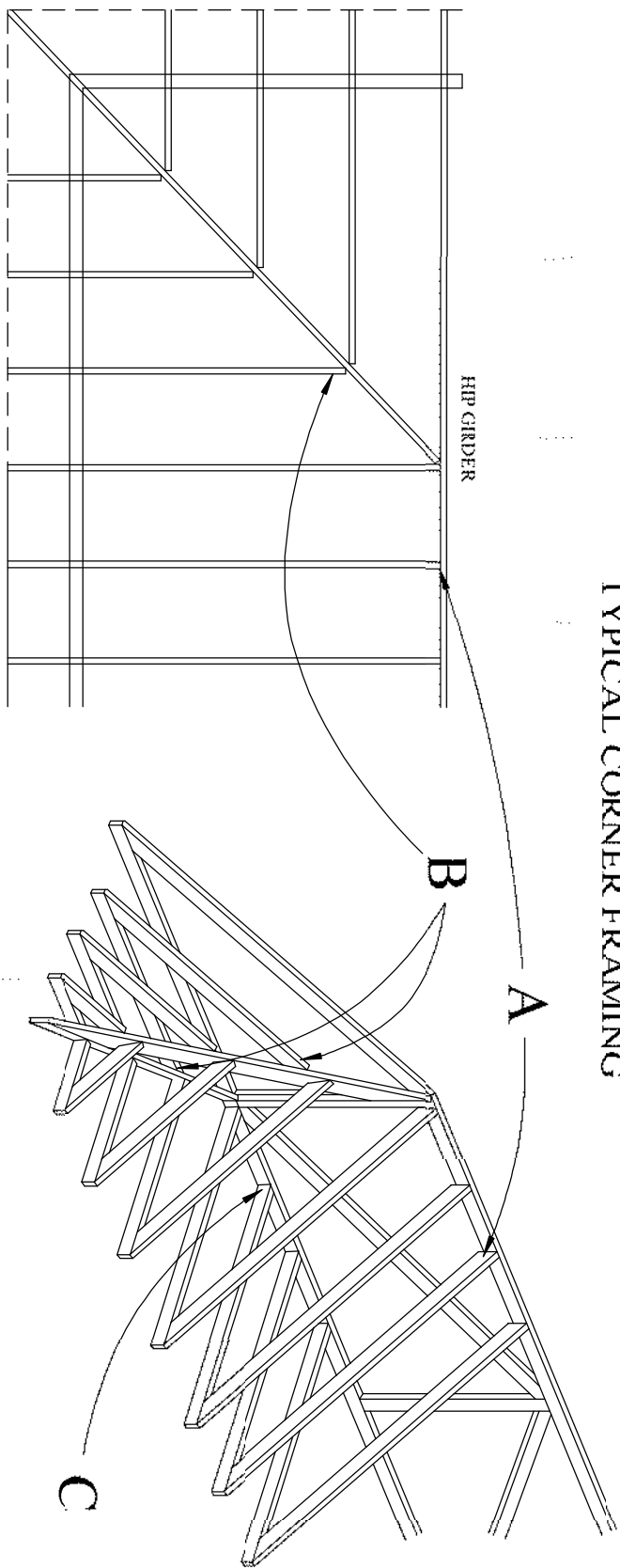
SHEET:

**VCI**

12111-100-1

# TOE-NAILED CONNECTIONS AT BEARING LOCATIONS

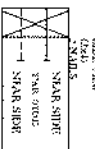
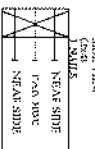
## TYPICAL CORNER FRAMING



### 90 DEGREE ANGLE/SQUARE CUT

Connection at A

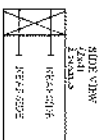
Connection at C



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, Grand Rapids, MI 49503

SHEET

TN1



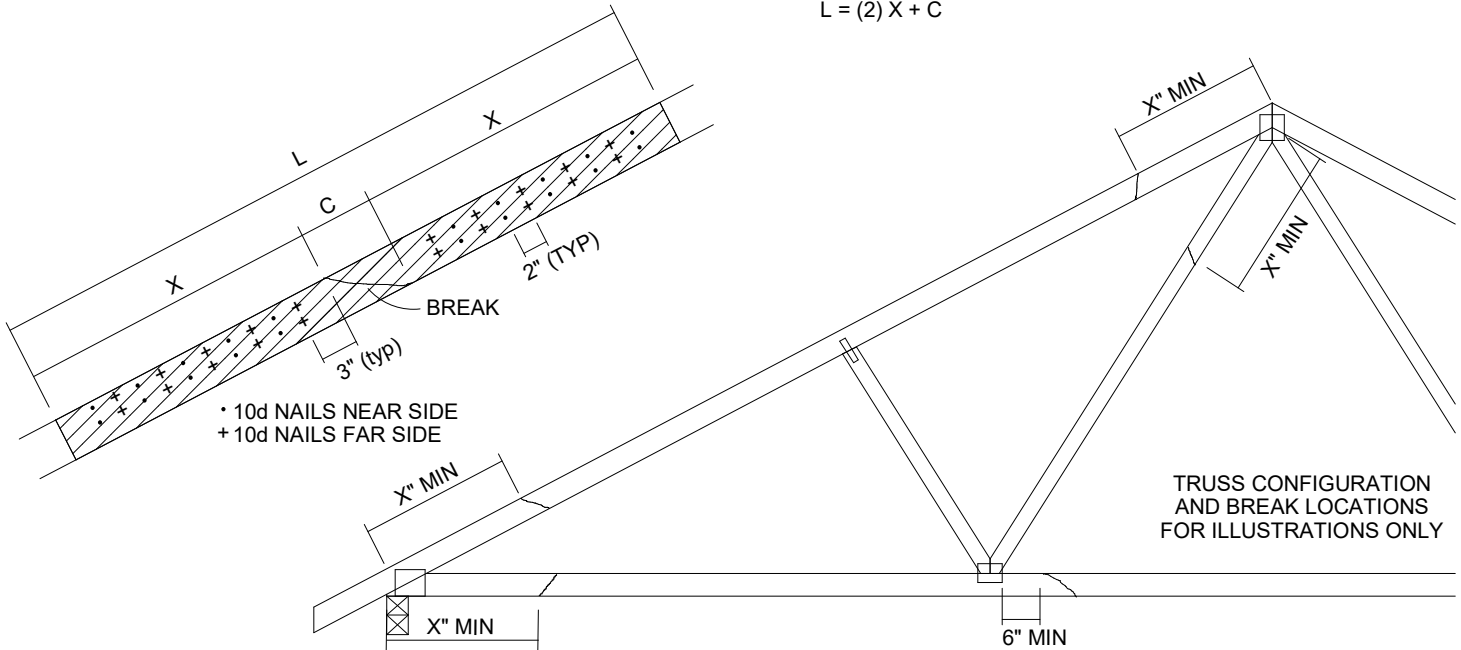
TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *		X INCHES	MAXIMUM FORCE (lbs) 15% LOAD DURATION							
			SP		DF		SPF		HF	
			2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	2125	3187
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 (0.131" X 3") NAILS (TWO ROWS FOR 2x4, THREE ROWS FOR 2x6) SPACED 4" O.C. AS SHOWN. 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:

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

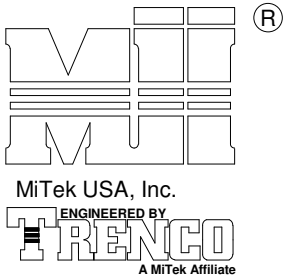


THE LOCATION OF THE BREAK MUST BE GREATER THAN OR EQUAL TO THE REQUIRED X DIMENSION FROM ANY PERIMETER BREAK OR HEEL JOINT AND A MINIMUM OF 6" FROM ANY INTERIOR JOINT (SEE SKETCH ABOVE)

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.



MAX MEAN ROOF HEIGHT = 30 FEET  
 BUILDING CATEGORY II  
 WIND EXPOSURE B or C  
 WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 100 MPH (MWFRS)  
 WIND DESIGN PER ASCE 7-10, ASCE 7-16 125 MPH (MWFRS)  
 DURATION OF LOAD INCREASE  
 FOR WIND LOADS: 1.60

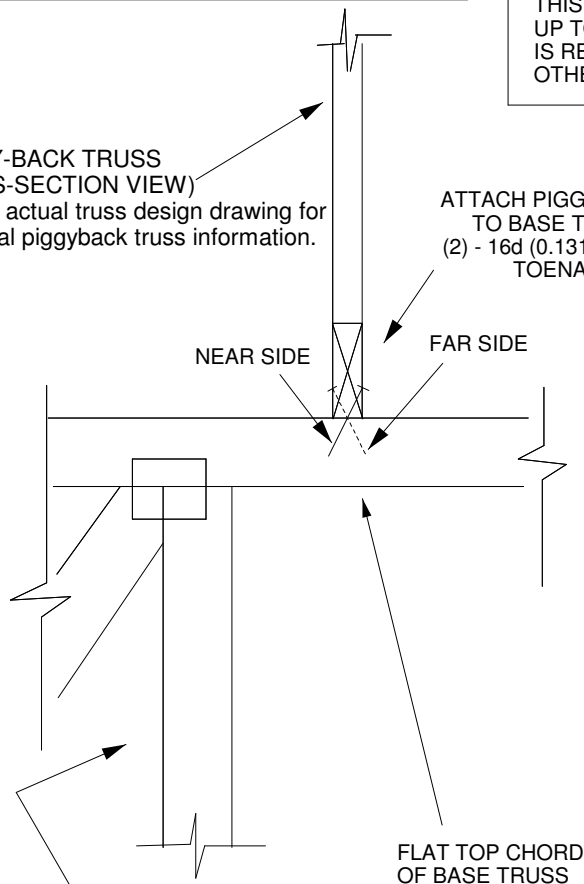
DETAIL IS NOT APPLICABLE FOR TRUSSES  
 TRANSFERRING DRAG LOADS (SHEAR TRUSSES).  
 ADDITIONAL CONSIDERATIONS BY BUILDING  
 ENGINEER/DESIGNER ARE REQUIRED.

THIS DETAIL SHALL BE ONLY USED FOR RESISTING A VERTICAL WIND UPLIFT  
 UP TO 140 LBS MAXIMUM AT EACH CONNECTION POINT. BUILDING DESIGNER  
 IS RESPONSIBLE FOR THE LOAD EXCEEDING THIS LIMITATION AND/OR IN  
 OTHER DIRECTIONS.

#### PIGGY-BACK TRUSS (CROSS-SECTION VIEW)

Refer to actual truss design drawing for  
 additional piggyback truss information.

ATTACH PIGGYBACK TRUSS  
 TO BASE TRUSS WITH  
 (2) - 16d (0.131" X 3.5") NAILS  
 TOENAILED.



BASE TRUSS (SIDE VIEW)  
 Refer to actual truss design drawing  
 for additional base truss information.

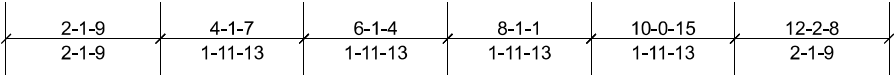
#### NOTES FOR TRUSS:

1. THIS DETAIL IS VALID FOR ONE-PLY PIGGYBACK TRUSS ONLY;
2. THE CHORD MEMBER OF PIGGYBACK AND BASE TRUSSES MUST BE SOUTHERN PINE OR DOUGLAS FIR-LARCH LUMBER;
3. THE SPACING OF PIGGYBACK TRUSSES AND BASE TRUSSES IS 2 FT OR LESS;
4. THE PIGGYBACK TRUSSES SHOULD BE PERPENDICULAR TO BASE TRUSSES.
5. PIGGYBACK TRUSS MAY NOT CANTILEVER OVER BASE TRUSS OR HAVE AN OVERHANG WHICH WILL CREATE A HIGHER UPLIFT AT CONNECTING POINT.

#### NOTES FOR TOE-NAIL:

1. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 30 DEGREES WITH THE MEMBER AND STARTED 1/3 THE LENGTH OF THE NAIL FROM THE MEMBER END AS SHOWN.
2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	F01	Flat Girder	1	1	spec
					Job Reference (optional)



^^^ THIS SIDE UP ^^^

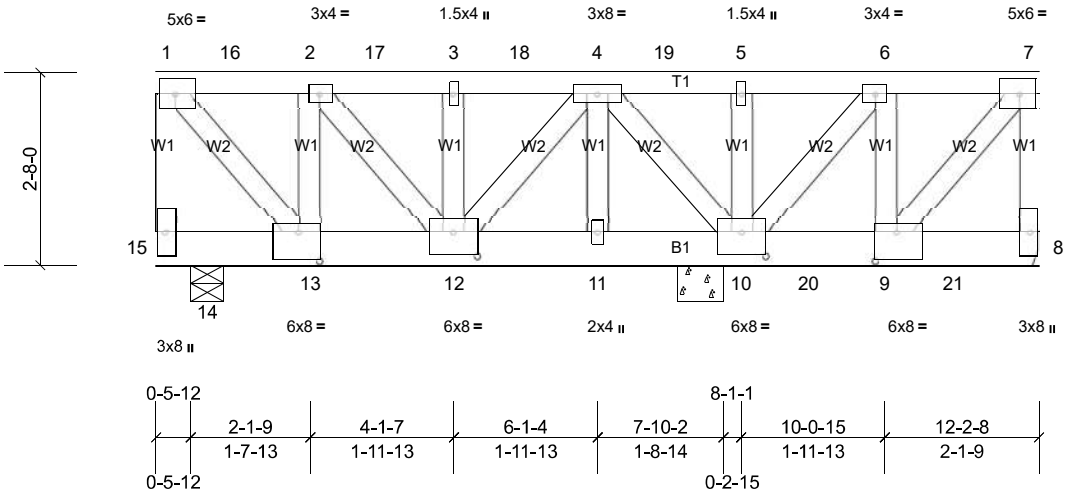


Plate Offsets (X, Y): [9:0-3-8,0-4-8], [10:0-4-0,0-3-12], [12:0-4-0,0-3-12], [13:0-3-8,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.36	Vert(LL)	0.01	12	>999	240	MT20 244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.51	Vert(CT)	-0.01	12	>999	180	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	8	n/a	n/a	
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 89 lb FT = 20%

**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 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 14-15,13-14.

**REACTIONS** (lb/size) 8=471/ Mechanical, (min. 0-1-8), 10=1887/0-7-10, (min. 0-2-4), 14=1209/0-5-8, (min. 0-1-8)  
Max Uplift 8=-334 (LC 8), 10=-1530 (LC 5), 14=-1025 (LC 4)  
Max Grav 8=593 (LC 2), 10=1887 (LC 1), 14=1209 (LC 1)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-15=-784/657, 2-17=-417/376, 3-17=-417/376, 3-18=-417/376, 4-18=-417/376, 4-19=-272/312, 5-19=-272/312, 5-6=-272/312, 7-8=-290/170  
WEBS 1-13=-313/329, 2-13=-690/585, 2-12=-262/309, 3-12=-357/290, 4-12=-307/350, 4-10=-765/683, 5-10=-253/232, 6-10=-769/542, 6-9=-312/550, 7-9=-143/321

- NOTES**
- Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; cantilever left exposed ; porch left exposed; 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.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 334 lb uplift at joint 8, 1530 lb uplift at joint 10 and 1025 lb uplift at joint 14.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 362 lb down and 276 lb up at 0-1-12, 305 lb down and 249 lb up at 1-0-4, 303 lb down and 220 lb up at 3-0-4, and 303 lb down and 220 lb up at 5-0-4, and 303 lb down and 220 lb up at 7-0-4 on top chord, and 725 lb down and 417 lb up at 9-0-4, and 725 lb down and 417 lb up at 11-0-4 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=1.00, Plate Increase=1.00

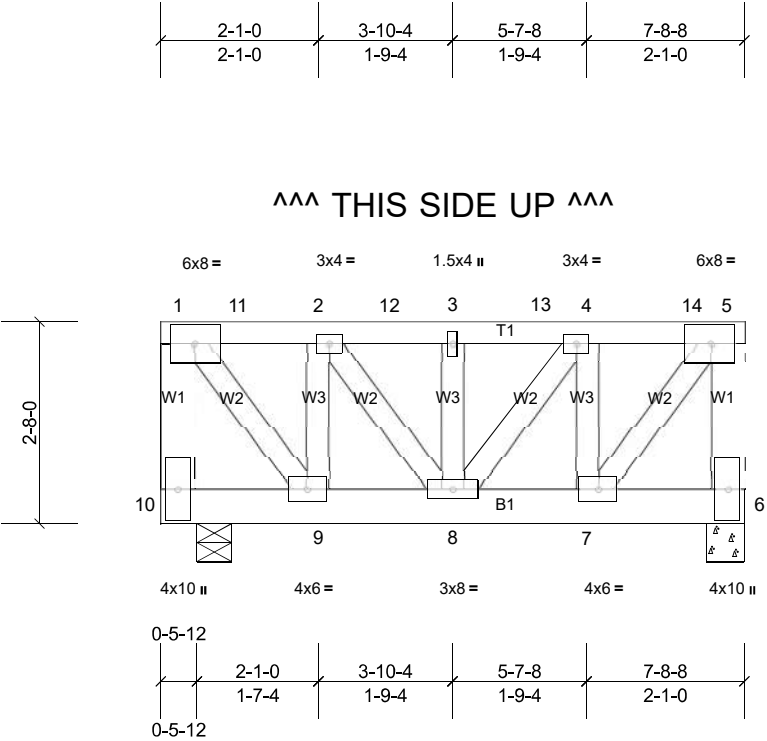
Uniform Loads (lb/ft)

Vert: 1-7=-46, 8-15=-20

Concentrated Loads (lb)

Vert: 1=-362, 16=-305, 17=-303, 18=-303, 19=-303, 20=-602, 21=-602

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	F02	Flat Girder	1	1	spec
					Job Reference (optional)



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	0.03	8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.32	Vert(CT)	-0.03	8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.41	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	FRC2023/TP12014	Matrix-MP							Weight: 61 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-8-7 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-9-10 oc bracing.
WEBS 2x4 SP No.2 *Except* W1:2x6 SP No.2	

REACTIONS (lb/size)	6=1632/0-6-0, (min. 0-1-15), 10=1829/0-5-8, (min. 0-2-3)
Max Horiz	10=-113 (LC 6)
Max Uplift	6=-1200 (LC 5), 10=-1336 (LC 4)
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-10=-1787/1296, 1-11=-904/691, 2-11=-904/691, 2-12=-1116/839, 3-12=-1116/839, 3-13=-1116/839, 4-13=-1116/839, 4-14=-904/675, 5-14=-904/675, 5-6=-1592/1161
BOT CHORD	8-9=-691/904, 7-8=-675/904
WEBS	1-9=-1062/1438, 2-9=-1068/762, 2-8=-273/345, 3-8=-588/411, 4-8=-269/346, 4-7=-1064/769, 5-7=-1073/1438

- NOTES**
- Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; cantilever left exposed ; end vertical left exposed; porch left and right exposed; 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.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1336 lb uplift at joint 10 and 1200 lb uplift at joint 6.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 364 lb down and 276 lb up at 0-2-12, 625 lb down and 410 lb up at 1-0-4, 656 lb down and 440 lb up at 3-0-4, and 656 lb down and 440 lb up at 5-0-4, and 681 lb down and 462 lb up at 7-0-4 on top 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=1.00, Plate Increase=1.00	
Uniform Loads (lb/ft)	
Vert: 1-5=-46, 6-10=-20	
Concentrated Loads (lb)	
Vert: 1=-364, 11=-625, 12=-656, 13=-656, 14=-681	

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	G28	Common Supported Gable	1	1	Job Reference (optional)

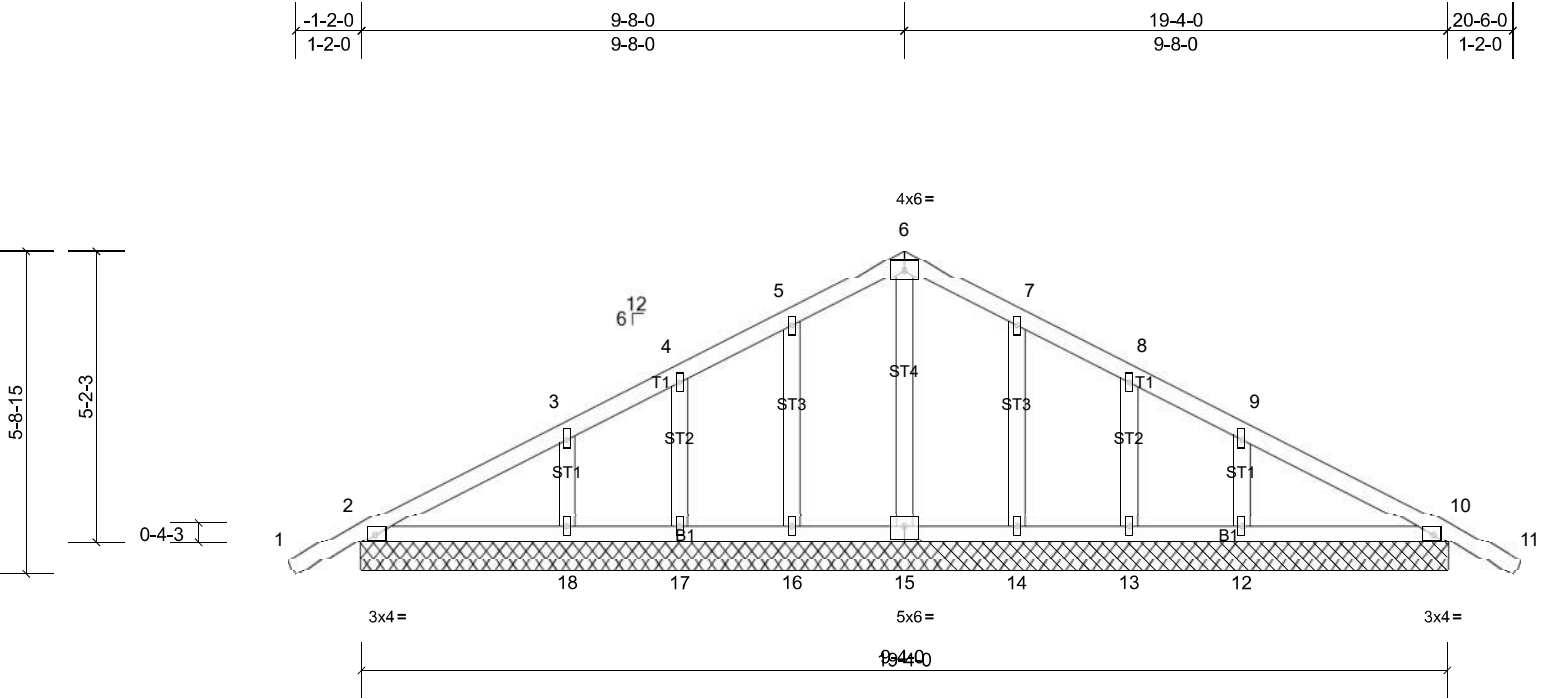


Plate Offsets (X, Y): [15:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	7.0	Lumber DOL	1.00	BC	0.13	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	10	n/a	n/a	Weight: 95 lb
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							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.
OTHERS	2x4 SP No.2		

**REACTIONS** All bearings 19-4-0.  
(lb) - Max Horiz 2=-167 (LC 13), 19=-167 (LC 13)  
Max Uplift All uplift 100 (lb) or less at joint(s) except 2=-106 (LC 13), 10=-135 (LC 13), 12=-252 (LC 13), 13=-110 (LC 13), 14=-164 (LC 13), 16=-166 (LC 12), 17=-108 (LC 12), 18=-254 (LC 12), 19=-106 (LC 13), 22=-135 (LC 13)  
Max Grav All reactions 250 (lb) or less at joint(s) 2, 10, 12, 13, 14, 15, 16, 17, 18, 19, 22

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 5-6=-118/324, 6-7=-118/324  
WEBS 3-18=-176/308, 9-12=-176/308

- 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=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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.
  - All plates are 1.5x4 MT20 unless otherwise indicated.
  - 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 105 lb uplift at joint 2, 166 lb uplift at joint 16, 108 lb uplift at joint 17, 253 lb uplift at joint 18, 164 lb uplift at joint 14, 109 lb uplift at joint 13, 252 lb uplift at joint 12, 135 lb uplift at joint 10, 105 lb uplift at joint 2 and 135 lb uplift at joint 10.
  - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 19.

**LOAD CASE(S)** Standard



Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	G32	Roof Special Structural Gable	1	1	Job Reference (optional)

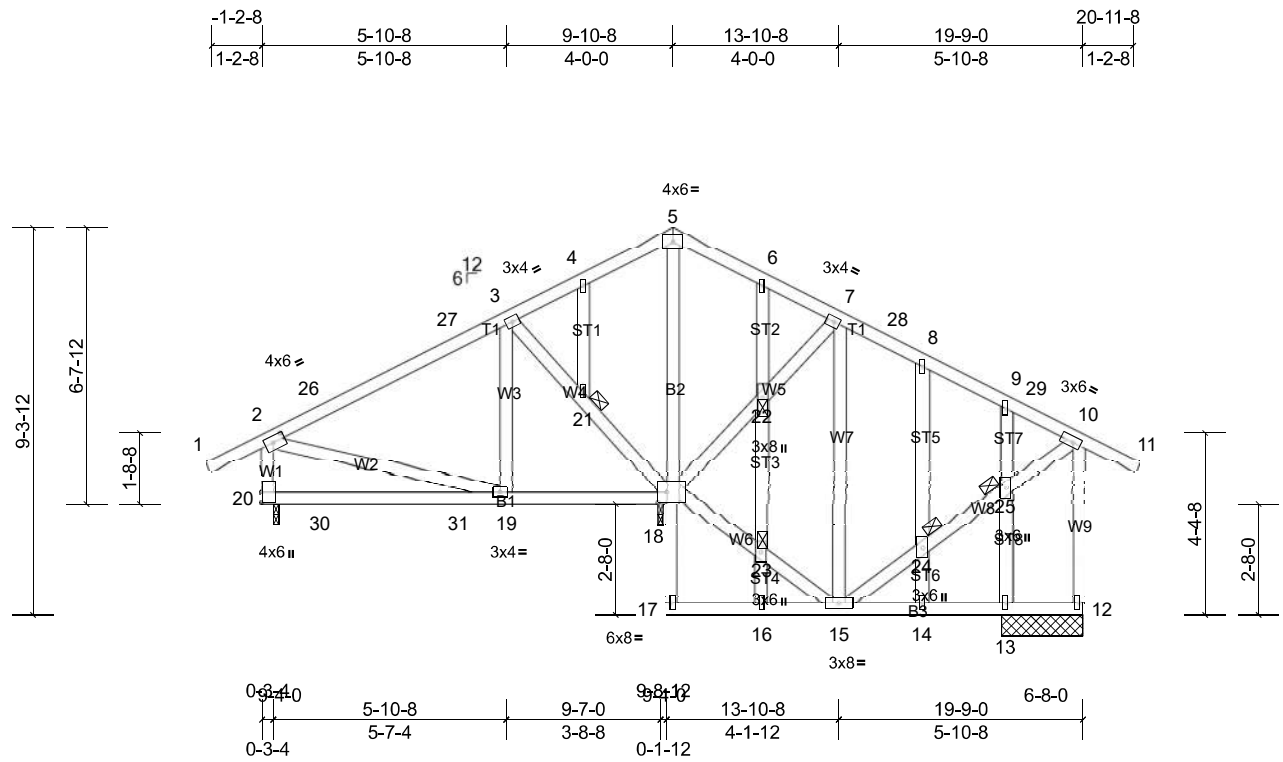


Plate Offsets (X, Y): [2:0-3-0,0-1-8], [18:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.50	Vert(LL)	0.13	19-20	>934	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.51	Vert(CT)	0.12	19-20	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.23	Horz(CT)	-0.01	12	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 175 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, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Brace at Jt(s): 21, 22, 23, 24, 25
BOT CHORD	2x4 SP No.2	BOT CHORD	
WEBS	2x4 SP No.2	JOINTS	
OTHERS	2x4 SP No.2		
<b>REACTIONS</b> All bearings 0-1-8, except 12=1-11-8, 13=1-11-8			
(lb) - Max Horiz 20=445 (LC 11)			
Max Uplift All uplift 100 (lb) or less at joint(s) 12 except 13=-224 (LC 13), 18=-492 (LC 9), 20=-291 (LC 12)			
Max Grav All reactions 250 (lb) or less at joint(s) 12, 13 except 18=708 (LC 1), 20=348 (LC 25)			
<b>FORCES</b> (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.			
TOP CHORD	2-26=-226/531, 26-27=-167/539, 3-27=-128/550, 8-28=-256/243, 2-20=-294/674		
BOT CHORD	20-30=-695/240, 30-31=-695/240, 19-31=-695/240, 18-19=-721/151		
WEBS	18-22=-335/531, 7-22=-308/491, 7-15=-270/169, 3-21=-310/1000, 18-21=-319/1021, 3-19=-613/212		

- 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=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-3-5 to 4-8-11, Zone1 4-8-11 to 9-10-8, Zone2 9-10-8 to 18-4-5, Zone1 18-4-5 to 21-0-5 zone; cantilever left exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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.
  - All plates are 1.5x4 MT20 unless otherwise indicated.
  - 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 at joint(s) 20, 18.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 20=290, 18=492, 13=223.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	G33	Common Structural Gable	1	1	Job Reference (optional)

Maronda Homes, Sanford, user

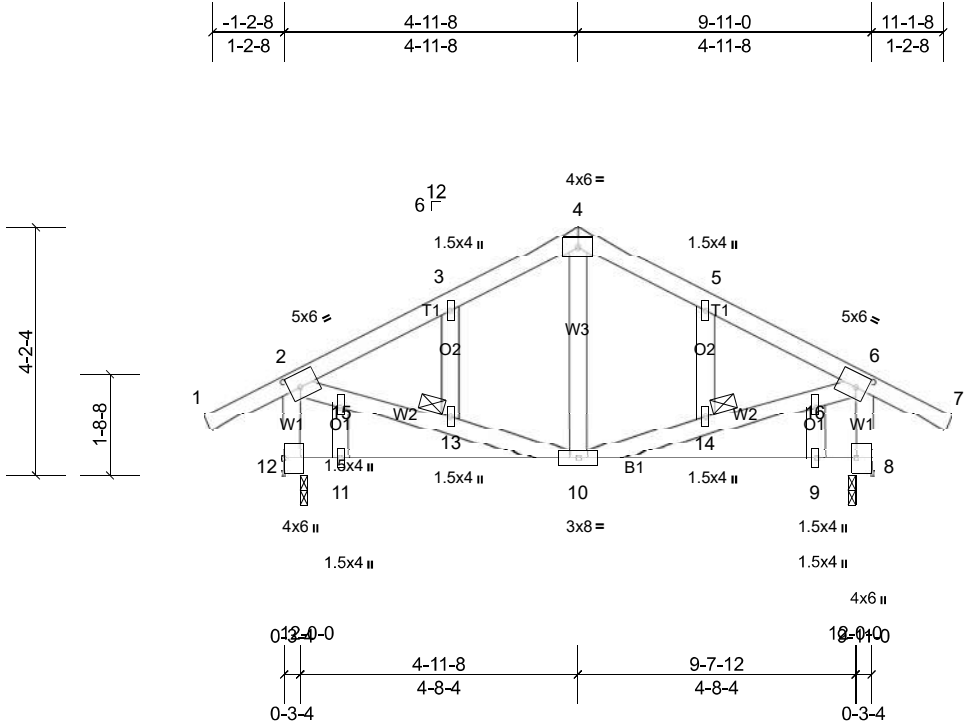


Plate Offsets (X, Y): [2:0-2-11,0-2-8], [5:0-0-0,Edge], [6:0-2-11,0-2-8], [8:Edge,0-3-8], [16:0-0-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.63	Vert(LL)	0.07	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.56	Vert(CT)	0.06	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 67 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2	JOINTS	1 Brace at Jt(s): 13, 14
OTHERS	2x4 SP No.2		

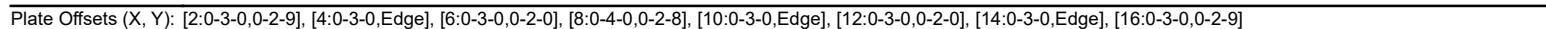
**REACTIONS** (lb/size) 8=383/0-1-8, (min. 0-1-8), 12=383/0-1-8, (min. 0-1-8)  
 Max Horiz 12=168 (LC 11)  
 Max Uplift 8=-297 (LC 13), 12=-297 (LC 12)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-278/1202, 3-4=-236/1243, 4-5=-236/1244, 5-6=-278/1198, 2-12=-314/1357, 6-8=-314/1297  
 WEBS 4-10=-603/112, 2-15=-705/173, 13-15=-682/181, 10-13=-661/170, 10-14=-577/170, 14-16=-601/181, 6-16=-622/173

- 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=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;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.
  - All plates are 1.5x4 MT20 unless otherwise indicated.
  - 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 at joint(s) 12, 8.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 297 lb uplift at joint 12 and 297 lb uplift at joint 8.

LOAD CASE(S) Standard

Maronda Homes, Sanford, user Run: 8.72 S Nov 2 2023 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Tue Nov 05 14:30:35 Page: 1  
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LUMBER		BRACING	
TOP CHORD	2x4 SP No.2 *Except* T8:2x4 SP No.1D	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x6 SP No.1D	BOT CHORD	Rigid ceiling directly applied or 4-11-1 oc bracing.
WEBS	2x4 SP No.2	WEBS	1 Row at midpt 6-24, 7-24, 8-23, 7-23, 12-20, 13-20, 9-21, 9-23, 11-20

<b>FORCES</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
<b>TOP CHORD</b>	2-31=-4717/3143, 3-31=-4660/3154, 3-4=-4578/3051, 4-32=-4538/3058, 5-32=-4531/3069, 5-6=-3836/2702, 6-7=-3410/2507, 7-8=-3767/2733, 8-9=-3412/2523, 9-33=-3792/2722, 10-33=-3792/2722, 10-11=-3792/2722, 11-12=-3294/2439, 12-13=-3716/2606, 13-42=-4467/2994, 14-42=-4476/2982, 14-15=-4530/2973, 15-43=-4635/3073, 16-43=-4691/3061
<b>BOT CHORD</b>	2-26=-2653/4196, 26-34=-2329/3798, 34-35=-2329/3798, 25-35=-2329/3798, 24-25=-2329/3798, 23-24=-1998/3568, 23-36=-2109/3728, 36-37=-2109/3728, 22-37=-2109/3728, 21-22=-2109/3728, 21-38=-2047/3689, 38-39=-2047/3689, 20-39=-2047/3689, 19-20=-2251/3723, 19-40=-2251/3723, 40-41=-2251/3723, 18-41=-2251/3723, 16-18=-2611/4172
<b>WEBS</b>	3-26=-260/416, 5-26=-323/604, 5-24=-598/650, 6-24=-931/1476, 7-24=-926/633, 8-23=-926/1448, 7-23=-724/713, 12-20=-821/1418, 13-20=-655/729, 13-18=-367/660, 15-18=-303/476, 9-21=-63/313, 9-23=-654/555, 11-21=-130/387, 11-20=-778/652

- 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=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-13 to 4-9-3, Zone1 4-9-3 to 17-0-0, Zone3 17-0-0 to 18-0-0; Zone1 18-0-0 to 20-8-1, Zone2 20-8-1 to 29-1-14, Zone1 29-1-14 to 40-11-15, Zone2 40-11-15 to 49-5-12, Zone1 49-5-12 to 61-2-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) All plates are 4x6 MT20 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, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1313 lb uplift at joint 16 and 1348 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	H09	Roof Special	1	1	Job Reference (optional)

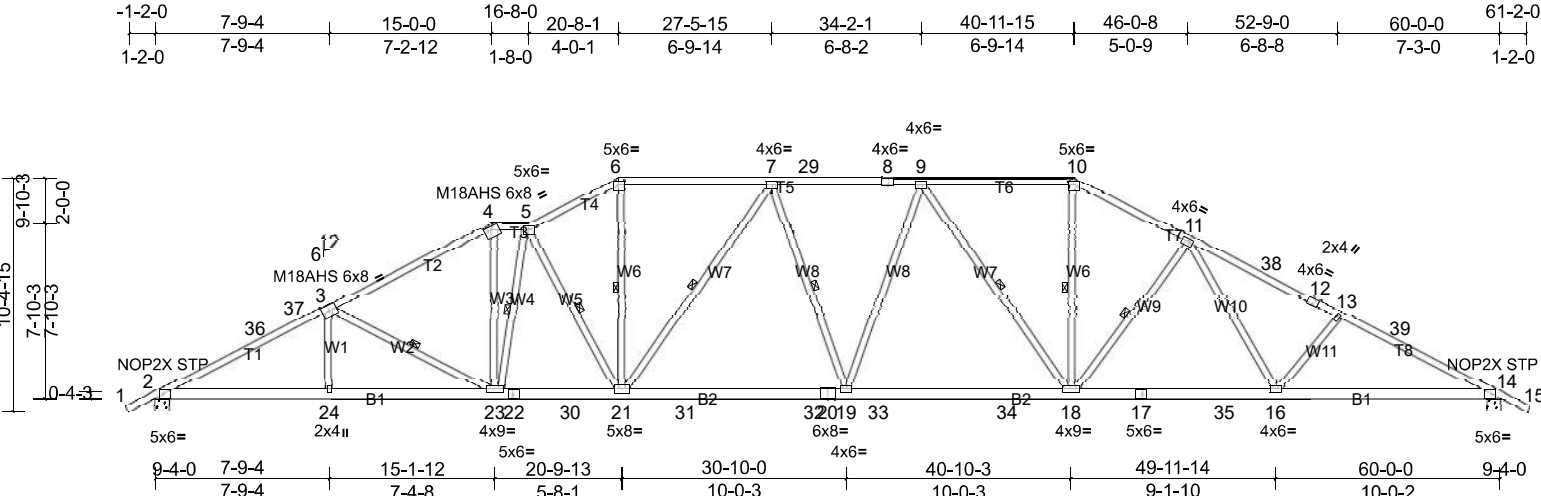


Plate Offsets (X, Y): [2:0-3-0,0-2-9], [3:0-4-0,0-3-4], [4:0-4-0,0-1-15], [6:0-3-0,0-2-0], [8:0-3-0,Edge], [10:0-3-0,0-2-0], [12:0-3-0,Edge], [14:0-3-0,0-2-9]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.98	Vert(LL)	0.48	19-21	>999	240	M18AHS 186/179
TCDL	7.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.79	19-21	>907	180	MT20 244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.20	14	n/a	n/a	
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 410 lb FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2 *Except* T2,T8,T1:2x4 SP No.1D	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.1D	BOT CHORD Rigid ceiling directly applied or 4-10-9 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 3-23, 5-23, 6-21, 5-21, 10-18, 11-18, 7-19, 7-21, 9-18

**REACTIONS** (lb/size) 2=2037/0-7-10, (min. 0-2-6), 14=2037/0-7-10, (min. 0-2-6)  
Max Horiz 2=311 (LC 12)  
Max Uplift 2=-1348 (LC 12), 14=-1313 (LC 13)  
Max Grav 2=2361 (LC 2), 14=2379 (LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**TOP CHORD** 4-5=-3585/2636, 5-6=-3824/2736, 6-7=-3430/2543, 7-29=-3807/2717, 8-29=-3807/2717, 8-9=-3807/2717, 9-10=-3306/2432, 2-36=-4724/3173, 36-37=-4670/3184, 3-37=-4631/3188, 3-4=-4046/2797, 10-11=-3723/2621, 11-38=-4482/3007, 12-38=-4487/2994, 12-13=-4544/2984, 13-39=-4642/3078, 14-39=-4698/3065  
**BOT CHORD** 2-24=-2725/4193, 23-24=-2725/4199, 22-23=-2227/3792, 22-30=-2227/3792, 21-30=-2227/3792, 21-31=-2102/3744, 31-32=-2102/3744, 20-32=-2102/3744, 19-20=-2102/3744, 19-33=-2042/3704, 33-34=-2042/3704, 18-34=-2042/3704, 17-18=-2178/3654, 17-35=-2178/3654, 16-35=-2178/3654, 14-16=-2609/4177  
**WEBS** 4-23=-942/1554, 3-24=-36/360, 3-23=-724/738, 5-23=-1038/717, 6-21=-910/1482, 5-21=-793/791, 10-18=-875/1448, 11-18=-621/717, 11-16=-449/716, 13-16=-329/523, 7-19=-65/308, 7-21=-652/561, 9-19=-128/389, 9-18=-779/652

- 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=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-13 to 4-9-3, Zone1 4-9-3 to 15-0-0, Zone3 15-0-0 to 16-8-0, Zone1 16-8-0 to 20-8-1, Zone2 20-8-1 to 29-1-14, Zone1 29-1-14 to 40-11-15, Zone2 40-11-15 to 49-5-12, Zone1 49-5-12 to 61-2-13 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - WARNING:** This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - 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 1313 lb uplift at joint 14 and 1348 lb uplift at joint 2.

**LOAD CASE(S)** Standard

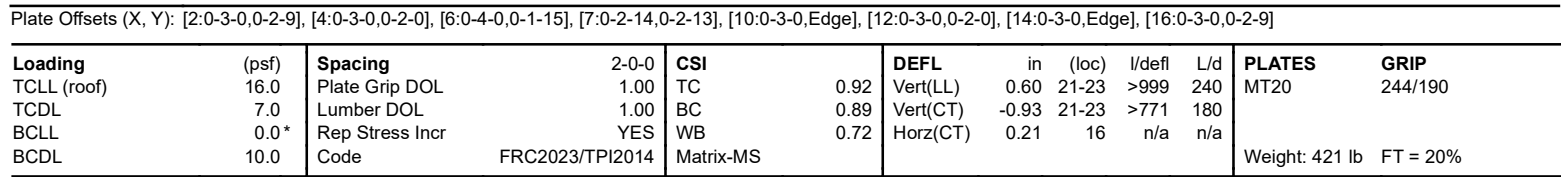
ID:X6 1FihKEUha0d6Et99H?6z6mbu-aSzxtaszz9WH1wUUvlp24vCblrcmlByUNo UnhvyMDOX

- LOAD CASE(S) Standard

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- LOAD CASE(S) Standard

Maronda Homes, Sanford, user Run: 8.72 S Nov 2 2023 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Tue Nov 05 14:30:36 Page: 1  
ID:X6 1FihKEUhg0d6E199H76z6mbu-gSzxtgszz9WH1wUUylp24vCbbrYFIFpUno UnhyMDOX



**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDF=4.2psf; BCDL=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-13 to 4-9-3, Zone1 4-9-3 to 11-0-0, Zone3 11-0-0 to 12-8-0, Zone1 12-8-0 to 19-0-0, Zone3 19-0-0 to 22-4-3, Zone1 22-4-3 to 43-4-0, Zone2 43-4-0 to 51-9-13, Zone1 51-9-13 to 61-2-13 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 1317 lb uplift at joint 2 and 1268 lb uplift at joint 16.

**LOAD CASE(S)**      Standard

ID:X6 1FihKEUha0d6Et99H?6z6mbu-8eXJ40tckSe8f43aWSKHd7kqoEyl1fedcRk1J7vMDOW

- LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	H13P	Hip	1	1	Job Reference (optional)

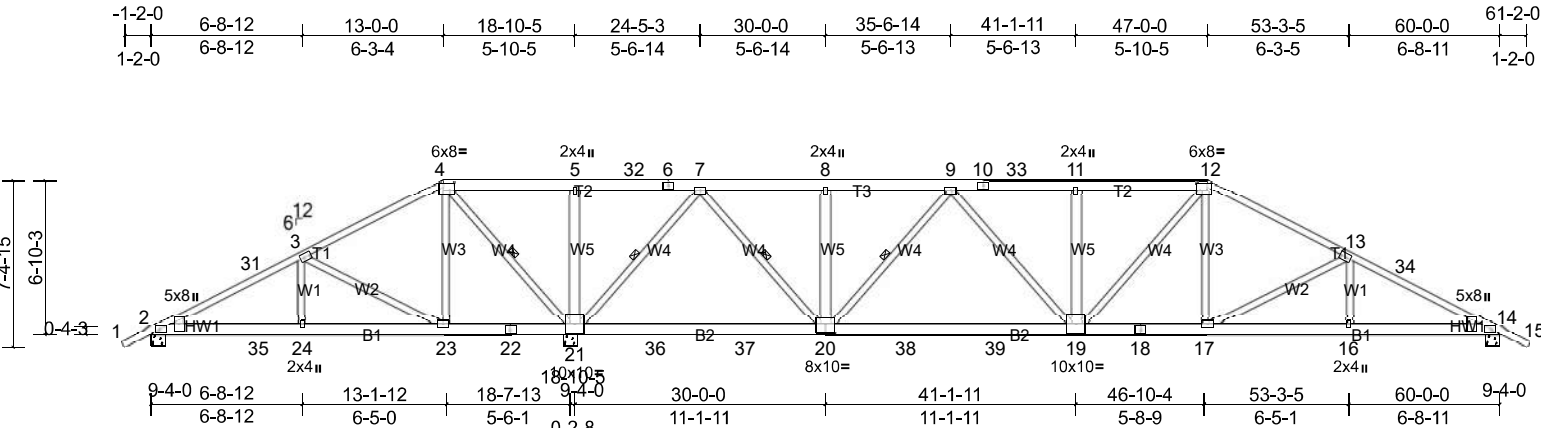


Plate Offsets (X, Y): [2:0-2-4,0-0-10], [4:0-2-4,0-4-0], [12:0-2-4,0-4-0], [13:0-0-0,0-0-0], [14:0-2-4,0-0-10], [20:0-5-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.72	Vert(LL)	0.19	17-19	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.33	19-20	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.05	14	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 428 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x6 SP No.2 *Except* T1:2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-4-14 oc purlins.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 5-8-7 oc bracing.
WEBS	2x4 SP No.2 *Except* W5:2x6 SP No.2	WEBS	1 Row at midpt
WEDGE	Left: 2x4 SP No.2		
	Right: 2x4 SP No.2		4-21, 7-20, 7-21, 9-20

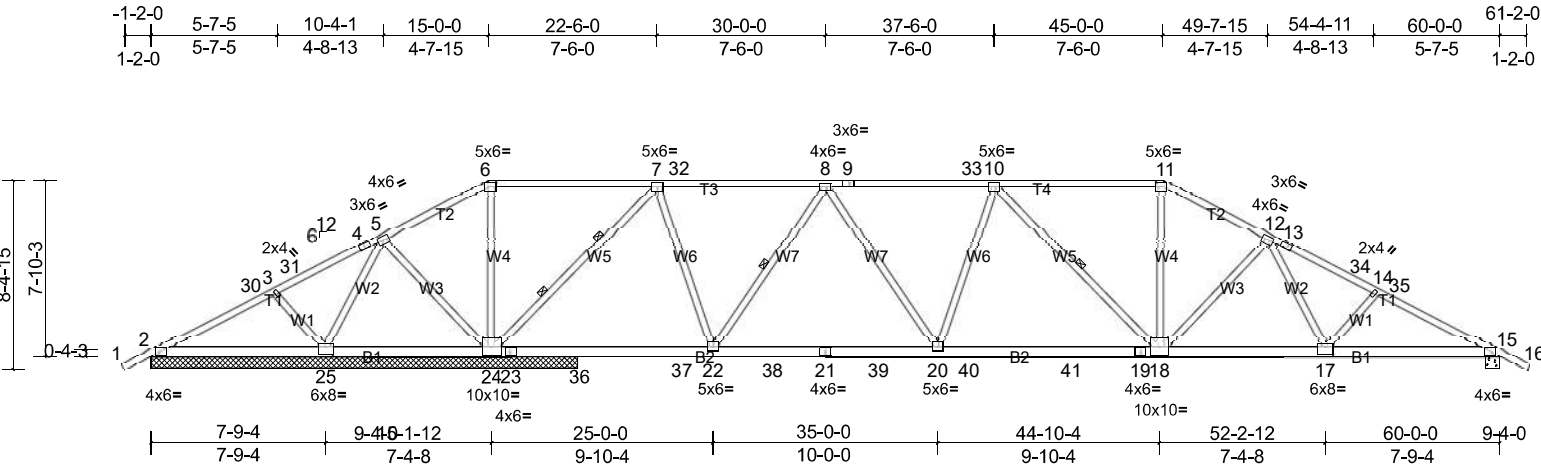
**REACTIONS** (lb/size) 2=189/0-7-10, (min. 0-1-8), 14=1190/0-7-10, (min. 0-1-9), 21=2695/0-7-10, (min. 0-3-11)  
Max Horiz 2=217 (LC 12)  
Max Uplift 2=-294 (LC 12), 14=-1030 (LC 13), 21=-2343 (LC 9)  
Max Grav 2=236 (LC 25), 14=1336 (LC 28), 21=3099 (LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-31=-289/1083, 3-31=-271/1096, 3-4=-450/851, 4-5=-1151/1583, 5-32=-1152/1582, 6-32=-1152/1582, 6-7=-1152/1582, 7-8=-943/761, 8-9=-943/761, 9-10=-1829/1506, 10-33=-1829/1506, 11-33=-1829/1506, 11-12=-1831/1509, 12-13=-1896/1500, 13-34=-2403/1856, 14-34=-2474/1844  
BOT CHORD 2-35=-842/559, 24-35=-842/559, 23-24=-842/559, 22-23=-738/830, 21-22=-738/830, 21-36=-266/745, 36-37=-266/745, 20-37=-266/745, 20-38=-879/1480, 38-39=-879/1480, 19-39=-879/1480, 18-19=-940/1654, 17-18=-940/1654, 16-17=-1485/2192, 14-16=-1485/2192  
WEBS 3-24=-685/321, 3-23=-628/1320, 4-23=-1131/410, 4-21=-1318/1921, 12-17=-245/432, 13-17=-618/620, 13-16=-31/316, 5-21=-297/404, 12-19=-314/338, 11-19=-298/403, 7-20=-1053/1744, 7-21=-2002/1469, 8-20=-257/354, 9-20=-835/806, 9-19=-383/550

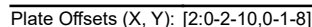
- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-13 to 4-9-3, Zone1 4-9-3 to 13-0-0, Zone2 13-0-0 to 21-5-13, Zone1 21-5-13 to 47-0-0, Zone2 47-0-0 to 55-5-13, Zone1 55-5-13 to 61-2-13 zone; cantilever left and right exposed ; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 4x6 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, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 294 lb uplift at joint 2, 2343 lb uplift at joint 21 and 1030 lb uplift at joint 14.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	H15	Hip Structural Gable	1	1	Job Reference (optional)



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- LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	H6617	Hip	1	1	Job Reference (optional)

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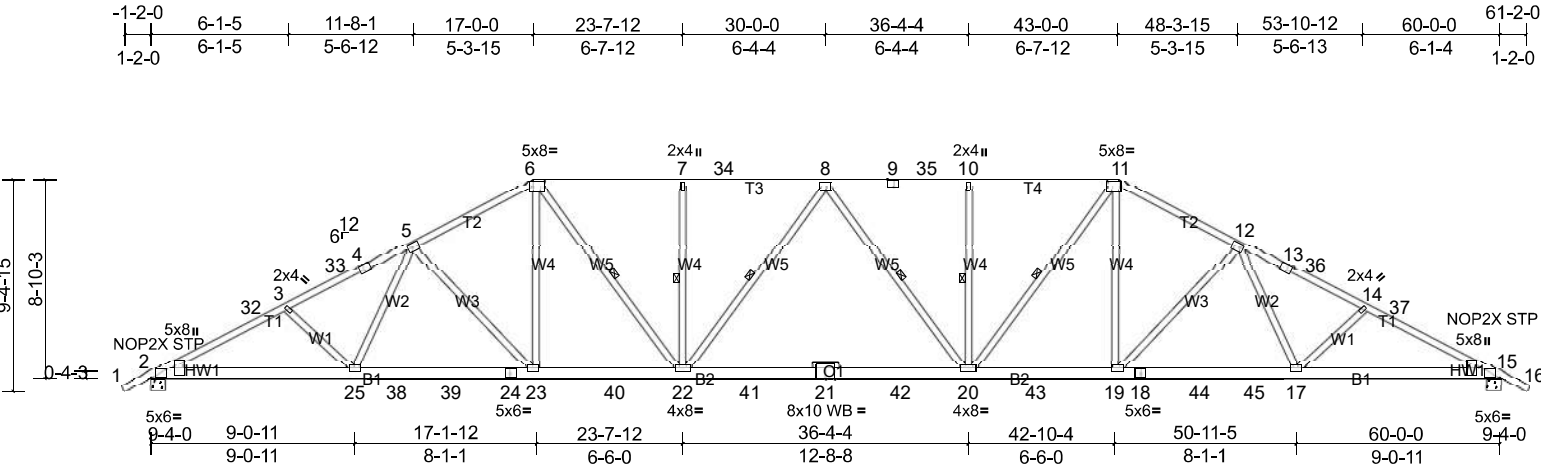


Plate Offsets (X, Y): [2:0-2-4,0-0-1], [4:0-3-0,Edge], [6:0-6-0,0-2-8], [9:0-3-0,Edge], [11:0-6-0,0-2-8], [13:0-3-0,Edge], [15:0-2-4,0-0-1]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.79	Vert(LL)	-0.57	20-22	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-1.00	20-22	>723	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.19	15	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 404 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2 *Except* T3,T4:2x4 SP No.1D	TOP CHORD	Structural wood sheathing directly applied or 2-1-4 oc purlins.
BOT CHORD	2x6 SP No.1D	BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	2x4 SP No.2	WEBS	1 Row at midpt
OTHERS	2x4 SP No.2		
WEDGE	Left: 2x4 SP No.2		
	Right: 2x4 SP No.2		

**REACTIONS** (lb/size) 2=2037/0-7-10, (min. 0-2-6), 15=2037/0-7-10, (min. 0-2-6)  
Max Horiz 2=281 (LC 16)  
Max Uplift 2=-1518 (LC 12), 15=-1518 (LC 13)  
Max Grav 2=2376 (LC 2), 15=2376 (LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**TOP CHORD** 2-32=-4744/2937, 3-32=-4682/2947, 3-33=-4601/2817, 4-33=-4552/2818, 4-5=-4542/2829, 5-6=-3868/2427, 6-7=-4081/2570, 7-34=-4081/2570, 8-34=-4081/2570, 8-9=-4081/2570, 9-35=-4081/2570, 10-35=-4081/2570, 10-11=-4081/2570, 11-12=-3868/2427, 12-13=-4542/2830, 13-36=-4553/2819, 14-36=-4601/2818, 14-37=-4683/2948, 15-37=-4744/2938  
**BOT CHORD** 2-25=-2753/4230, 25-38=-2327/3826, 38-39=-2327/3826, 24-39=-2327/3826, 23-24=-2327/3826, 23-40=-1891/3424, 22-40=-1891/3424, 22-41=-2303/4169, 21-41=-2303/4169, 21-42=-2303/4169, 20-42=-2303/4169, 20-43=-1676/3424, 19-43=-1676/3424, 18-19=-2055/3826, 18-44=-2055/3826, 44-45=-2055/3826, 17-45=-2055/3826, 15-17=-2474/4231  
**WEBS** 6-23=-434/668, 6-22=-803/1140, 7-22=-325/447, 8-22=-270/444, 8-20=-270/444, 10-20=-325/447, 11-20=-803/1140, 11-19=-434/668, 12-19=-605/646, 12-17=-305/597, 14-17=-268/418, 3-25=-268/418, 5-25=-304/597, 5-23=-605/646

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCCL=4.2psf; BCDL=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-13 to 4-9-3, Zone1 4-9-3 to 17-0-0, Zone2 17-0-0 to 25-5-13, Zone1 25-5-13 to 43-0-0, Zone2 43-0-0 to 51-5-13, Zone1 51-5-13 to 61-2-13 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - WARNING:** This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - All plates are 4x6 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, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1518 lb uplift at joint 2 and 1518 lb uplift at joint 15.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	H6619	Hip	13	1	Job Reference (optional)

Maronda Homes, Sanford, user

Run: 8.72 S Nov 2 2023 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Tue Nov 05 14:30:39 Page: 1

ID:a0keJfWpUwmXFw8h7nKctazySMB-41e3VivsG4uruNC3etMlfYq6A2ZKvcZw3d8O7ymDOU

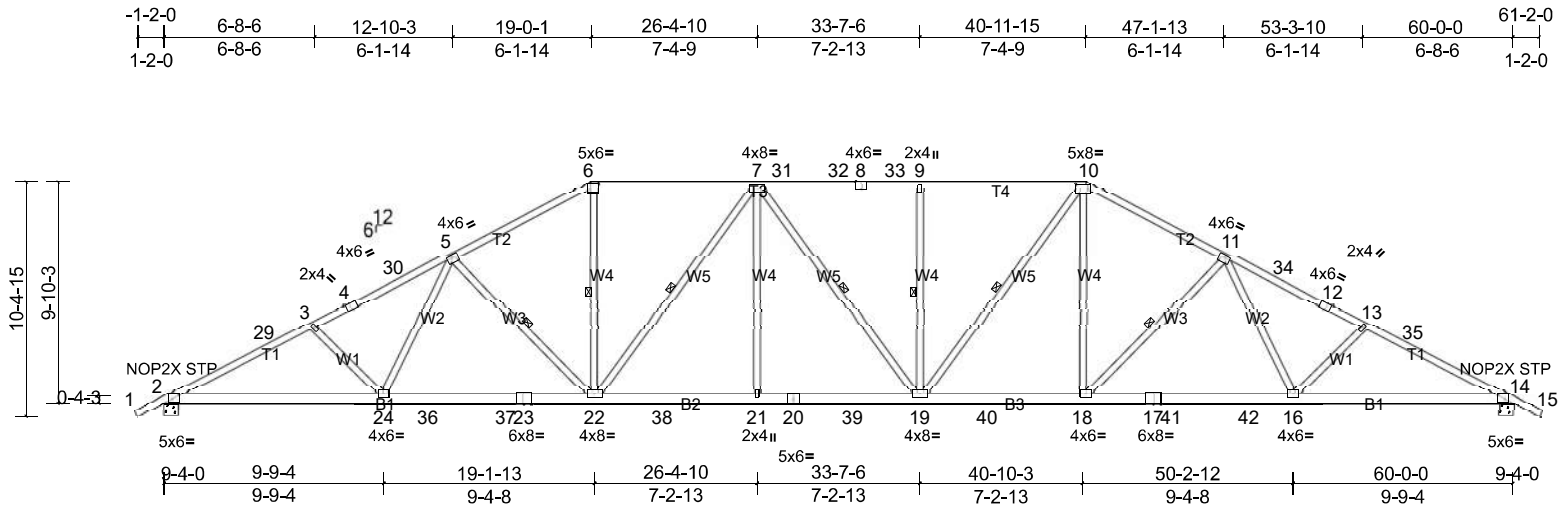


Plate Offsets (X, Y): [2:0-3-0,0-2-9], [4:0-3-0,Edge], [6:0-4-0,0-2-8], [8:0-3-0,Edge], [10:0-5-8,0-2-4], [12:0-3-0,Edge], [14:0-3-0,0-2-9]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.90	Vert(LL)	0.49	19-21	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.70	19-21	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.20	14	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 404 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.1D \*Except\* T2:2x4 SP No.2  
BOT CHORD 2x6 SP No.1D  
WEBS 2x4 SP No.2

#### BRACING

TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Rigid ceiling directly applied or 4-10-0 oc bracing.  
WEBS 1 Row at midpt 5-22, 6-22, 7-22, 7-19, 9-19, 10-19, 11-18

**REACTIONS** (lb/size) 2=2037/0-7-10, (min. 0-2-7), 14=2037/0-7-10, (min. 0-2-7)  
Max Horiz 2=-311 (LC 17)  
Max Uplift 2=-1513 (LC 12), 14=-1513 (LC 13)  
Max Grav 2=2382 (LC 2), 14=2386 (LC 2)

#### FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-29=-4734/2908, 3-29=-4678/2920, 3-4=-4571/2776, 4-30=-4517/2785, 5-30=-4504/2797, 5-6=-3731/2333, 6-7=-3306/2181, 7-31=-3758/2440, 31-32=-3758/2440, 8-32=-3758/2440, 8-33=-3758/2440, 9-33=-3758/2440, 9-10=-3758/2440, 10-11=-3739/2334, 11-34=-4482/2794, 12-34=-4525/2782, 12-13=-4578/2772, 13-35=-4684/2916, 14-35=-4741/2904  
BOT CHORD 2-24=-2755/4212, 24-36=-2267/3751, 36-37=-2267/3751, 23-37=-2267/3751, 22-23=-2267/3751, 22-38=-1907/3770, 21-38=-1907/3770, 20-21=-1907/3770, 20-39=-1907/3770, 19-39=-1907/3770, 19-40=-1569/3304, 18-40=-1569/3304, 17-18=-1999/3757, 17-41=-1999/3757, 41-42=-1999/3757, 16-42=-1999/3757, 14-16=-2440/4218  
WEBS 3-24=-301/476, 5-24=-354/667, 5-22=-666/727, 6-22=-716/1412, 7-22=-859/667, 7-21=0/398, 7-19=-303/309, 9-19=-358/488, 10-19=-667/833, 10-18=-464/833, 11-18=-666/725, 11-16=-351/666, 13-16=-300/476

#### 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=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-13 to 4-9-3, Zone1 4-9-3 to 19-0-1, Zone2 19-0-1 to 27-5-14, Zone1 27-5-14 to 40-11-15, Zone2 40-11-15 to 49-5-12, Zone1 49-5-12 to 61-2-13 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 4x6 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1513 lb uplift at joint 2 and 1513 lb uplift at joint 14.

**LOAD CASE(S)** Standard

ID:X6 1FihKEUhq0d6Et99H?6z6mbu-41e3VivsG4uruNC3etMliYq7n2aqVZqw3lD8O?yMDOU

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	HGR07P	Hip Girder	1	2	Job Reference (optional)

- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 420 lb uplift at joint 2, 2505 lb uplift at joint 14 and 6800 lb uplift at joint 23.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 115 lb down and 132 lb up at 7-0-0, 77 lb down and 26 lb up at 9-0-12, 77 lb down and 26 lb up at 11-0-12, 77 lb down and 26 lb up at 13-0-12, 77 lb down and 26 lb up at 15-0-12, 77 lb down and 26 lb up at 17-0-12, 105 lb down and 211 lb up at 19-0-12, 105 lb down and 211 lb up at 21-0-12, 105 lb down and 211 lb up at 23-0-12, 105 lb down and 211 lb up at 25-0-12, 105 lb down and 211 lb up at 27-0-12, 105 lb down and 210 lb up at 29-0-12, 105 lb down and 210 lb up at 30-11-4, 105 lb down and 211 lb up at 32-11-4, 105 lb down and 211 lb up at 34-11-4, 105 lb down and 211 lb up at 36-11-4, 105 lb down and 211 lb up at 38-11-4, 105 lb down and 211 lb up at 40-11-4, 105 lb down and 211 lb up at 42-11-4, 105 lb down and 211 lb up at 44-11-4, 105 lb down and 211 lb up at 46-11-4, 105 lb down and 211 lb up at 48-11-4, and 105 lb down and 211 lb up at 50-11-4, and 135 lb down and 312 lb up at 53-0-0 on top chord, and 510 lb down and 785 lb up at 7-0-0, 191 lb down and 250 lb up at 9-0-12, 191 lb down and 250 lb up at 11-0-12, 191 lb down and 250 lb up at 13-0-12, 191 lb down and 250 lb up at 15-0-12, 191 lb down and 250 lb up at 17-0-12, 82 lb down and 25 lb up at 19-0-12, 82 lb down and 25 lb up at 21-0-12, 82 lb down and 25 lb up at 23-0-12, 82 lb down and 25 lb up at 25-0-12, 82 lb down and 25 lb up at 27-0-12, 82 lb down and 25 lb up at 29-0-12, 82 lb down and 25 lb up at 30-11-4, 82 lb down and 25 lb up at 32-11-4, 82 lb down and 25 lb up at 34-11-4, 82 lb down and 25 lb up at 36-11-4, 82 lb down and 25 lb up at 38-11-4, 82 lb down and 25 lb up at 40-11-4, 82 lb down and 25 lb up at 42-11-4, 82 lb down and 25 lb up at 44-11-4, 82 lb down and 25 lb up at 46-11-4, 82 lb down and 25 lb up at 48-11-4, and 82 lb down and 25 lb up at 50-11-4, and 377 lb down and 393 lb up at 52-11-4 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=1.00, Plate Increase=1.00
- Uniform Loads (lb/ft)
- Vert: 1-3=-46, 3-13=-46, 13-15=-46, 2-14=-20
- Concentrated Loads (lb)
- Vert: 6=-100, 13=-100, 26=-510, 16=-377, 10=-100, 25=-191, 17=-58, 12=-100, 35=-100, 36=-100, 37=-100, 38=-100, 39=-100, 40=-100, 41=-100, 42=-100, 43=-100, 44=-100, 45=-100, 46=-100, 47=-100, 48=-100, 49=-191, 50=-191, 51=-191, 52=-191, 53=-58, 54=-58, 55=-58, 56=-58, 57=-58, 58=-58, 59=-58, 60=-58, 61=-58, 62=-58, 63=-58, 64=-58, 65=-58, 66=-58, 67=-58, 68=-58

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	J02	Jack-Open	4	1	Job Reference (optional)

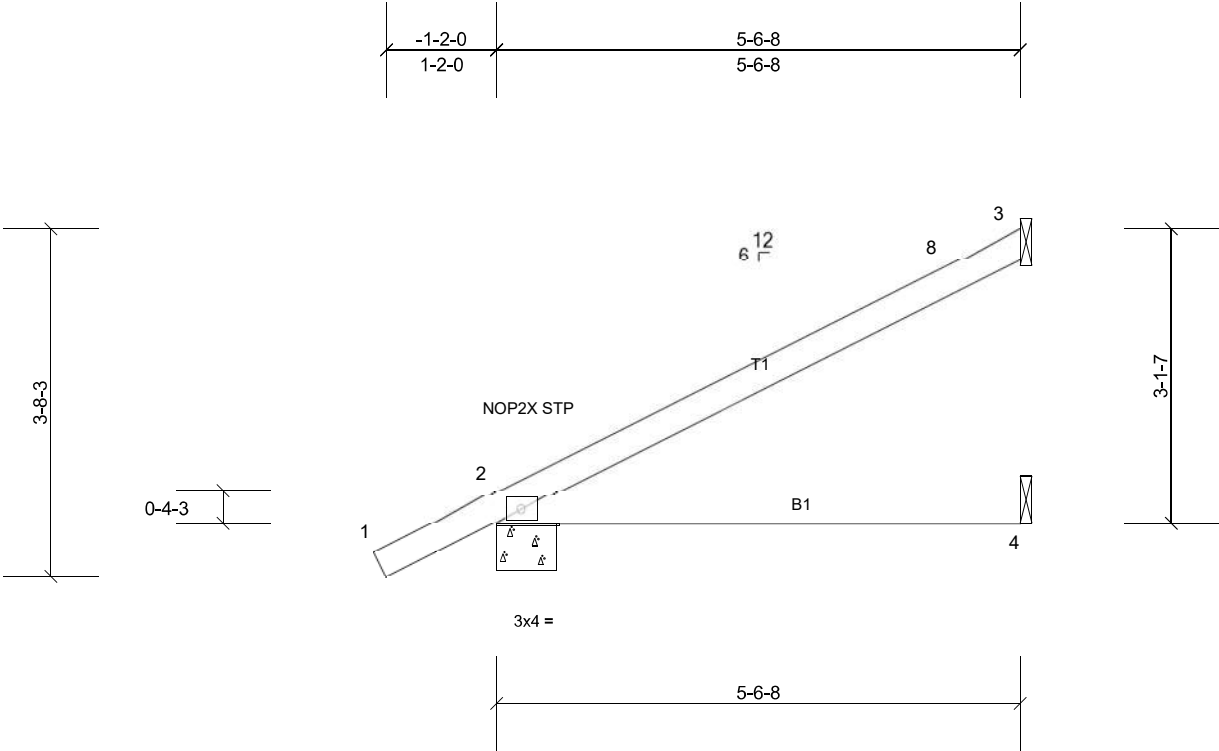


Plate Offsets (X, Y): [2:0-1-4,0-0-2]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.73	Vert(LL)	0.10	4-7	>658	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.56	Vert(CT)	-0.10	4-7	>685	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	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

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 5-6-8 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 2=244/0-7-10, (min. 0-1-8), 3=110/ Mechanical, (min. 0-1-8), 4=64/ Mechanical, (min. 0-1-8)  
Max Horiz 2=232 (LC 12)  
Max Uplift 2=-179 (LC 12), 3=-178 (LC 12), 4=-19 (LC 12)  
Max Grav 2=244 (LC 1), 3=110 (LC 1), 4=99 (LC 3)

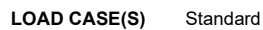
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**NOTES**  
1) Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-13 to 4-9-3, Zone1 4-9-3 to 5-5-12 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60  
2) All plates are MT20 plates unless otherwise indicated.  
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 178 lb uplift at joint 3, 179 lb uplift at joint 2 and 19 lb uplift at joint 4.

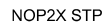
**LOAD CASE(S)** Standard



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Run: 8.72 S Nov 2 2023 Print: 8.810 S Aug 19 2024 MiTek Industries, Inc. Tue Nov 05 14:30:42 Page: 1  
ID:X6 1FihKEUhg0d6Et99H?6z6mbu-VcKC8kxkZ?GQlrxJ0wSKARplFnhI8PMmjRo?KyMDOR

Weight: 11 lb      FT = 20%

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

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

**REACTIONS** (lb/size) 3=56/ Mechanical, (min. 0-1-8), 4=37/ Mechanical, (min. 0-1-8),  
6=92/0-7-10, (min. 0-1-8)  
Max Horiz 6=53 (LC 12)  
Max Uplift 3=-80 (LC 12), 4=-20 (LC 12), 6=-58 (LC 12)  
Max Grav 3=56 (LC 1), 4=45 (LC 3), 6=92 (LC 1)

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

- 1) Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TC DL=4.2psf; BC DL=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-1-12 to 1-5-1, Zone1 1-5-1 to 2-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) All plates are MT20 plates unless otherwise indicated.
- 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.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 6, 80 lb uplift at joint 3 and 20 lb uplift at joint 4.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	J16	Jack-Open	3	1	Job Reference (optional)

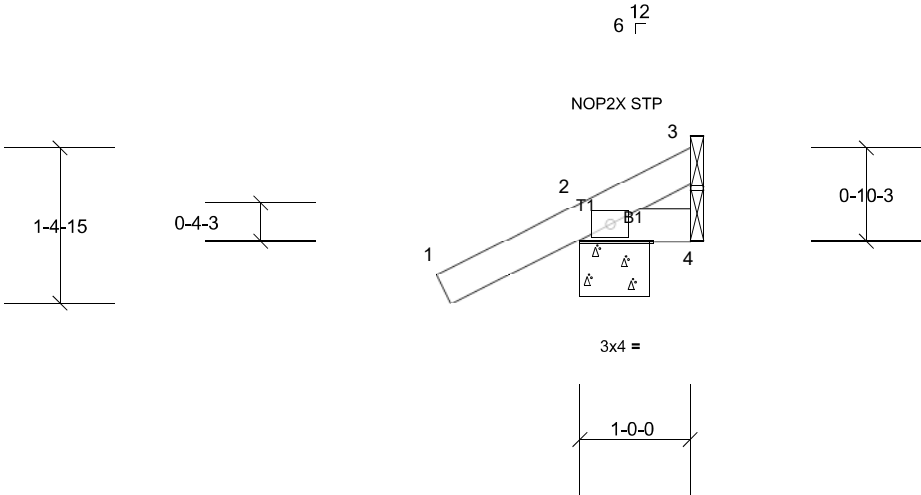
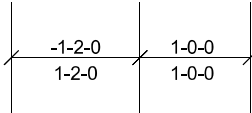


Plate Offsets (X, Y): [2:0-1-4,0-0-2]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	7.0	Lumber DOL	1.00	BC	0.04	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a	
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MP							Weight: 5 lb FT = 0%

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

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

**REACTIONS** (lb/size) 2=125/0-7-10, (min. 0-1-8), 3=3/ Mechanical, (min. 0-1-8), 4=-6/ Mechanical, (min. 0-1-8)  
Max Horiz 2=73 (LC 12)  
Max Uplift 2=-133 (LC 12), 3=-5 (LC 12), 4=-6 (LC 1)  
Max Grav 2=125 (LC 1), 3=10 (LC 8), 4=25 (LC 16)

**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=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60  
2) All plates are MT20 plates unless otherwise indicated.  
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 5 lb uplift at joint 3, 133 lb uplift at joint 2 and 6 lb uplift at joint 4.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	J16P	Jack-Open	4	1	Job Reference (optional)

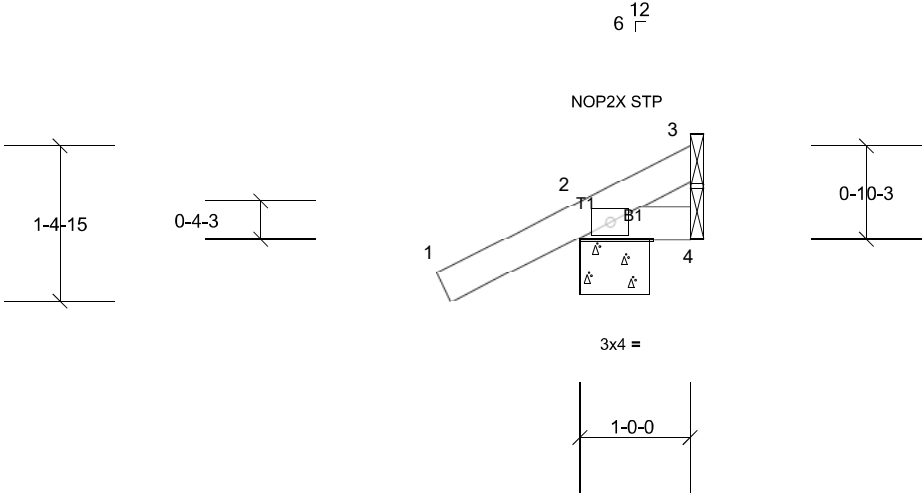
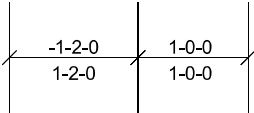


Plate Offsets (X, Y): [2:0-1-4,0-0-2]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MP							Weight: 5 lb	FT = 0%

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

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

**REACTIONS** (lb/size) 2=125/0-7-10, (min. 0-1-8), 3=3/ Mechanical, (min. 0-1-8), 4=-6/ Mechanical, (min. 0-1-8)  
Max Horiz 2=73 (LC 12)  
Max Uplift 2=-133 (LC 12), 3=-5 (LC 12), 4=-6 (LC 1)  
Max Grav 2=125 (LC 1), 3=10 (LC 8), 4=25 (LC 16)

**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=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60  
2) All plates are MT20 plates unless otherwise indicated.  
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 5 lb uplift at joint 3, 133 lb uplift at joint 2 and 6 lb uplift at joint 4.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	J16S	Jack-Open	1	1	Job Reference (optional)

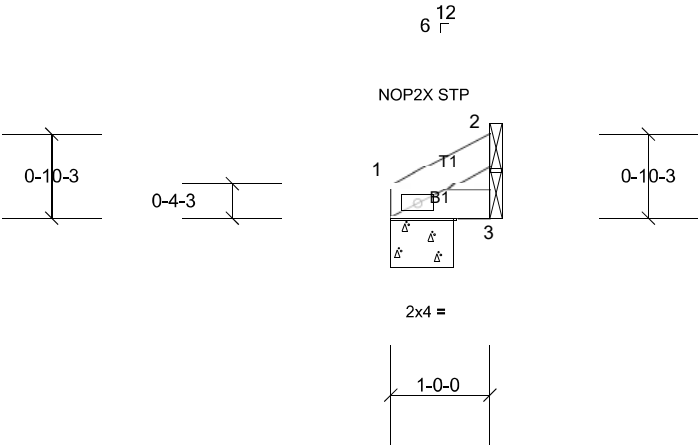
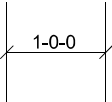


Plate Offsets (X, Y): [1:0-1-4,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.01	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MP							Weight: 3 lb	FT = 20%

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

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

**REACTIONS** (lb/size) 1=33/0-7-10, (min. 0-1-8), 2=18/ Mechanical, (min. 0-1-8), 3=15/ Mechanical, (min. 0-1-8)  
Max Horiz 1=35 (LC 12)  
Max Uplift 1=-18 (LC 12), 2=-26 (LC 12), 3=-12 (LC 12)  
Max Grav 1=33 (LC 1), 2=18 (LC 1), 3=16 (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=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60  
2) All plates are MT20 plates unless otherwise indicated.  
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 18 lb uplift at joint 1, 26 lb uplift at joint 2 and 12 lb uplift at joint 3.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	J36	Jack-Open	3	1	Job Reference (optional)

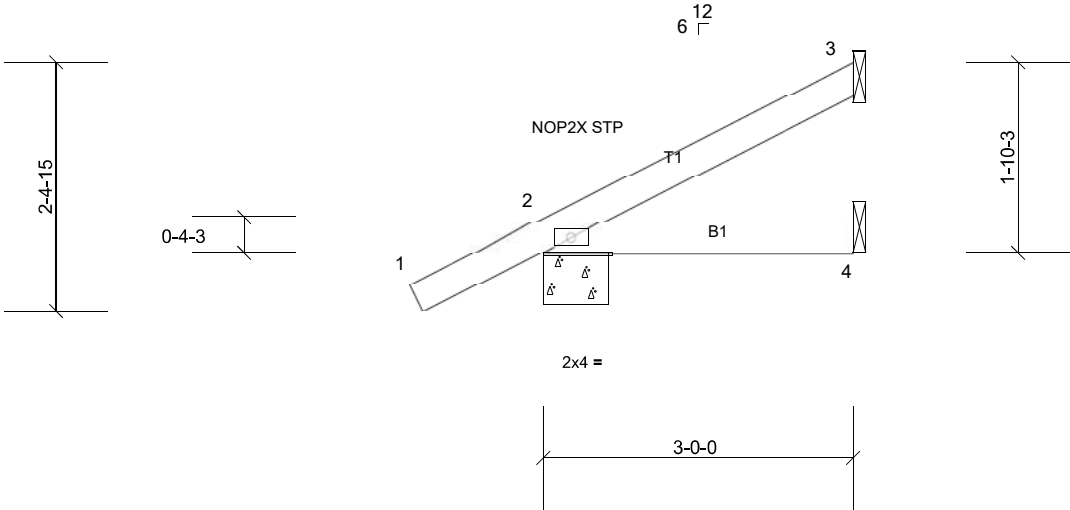
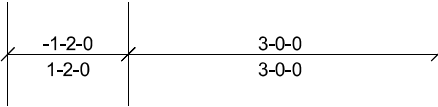


Plate Offsets (X, Y): [2:0-1-4,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.11	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MP							Weight: 12 lb	FT = 0%

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

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

**REACTIONS** (lb/size) 2=165/0-7-10, (min. 0-1-8), 3=54/ Mechanical, (min. 0-1-8), 4=31/ Mechanical, (min. 0-1-8)  
Max Horiz 2=142 (LC 12)  
Max Uplift 2=-137 (LC 12), 3=-86 (LC 12), 4=-8 (LC 12)  
Max Grav 2=165 (LC 1), 3=54 (LC 1), 4=51 (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=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60  
2) All plates are MT20 plates unless otherwise indicated.  
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 86 lb uplift at joint 3, 137 lb uplift at joint 2 and 8 lb uplift at joint 4.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	J36P	Jack-Open	4	1	Job Reference (optional)

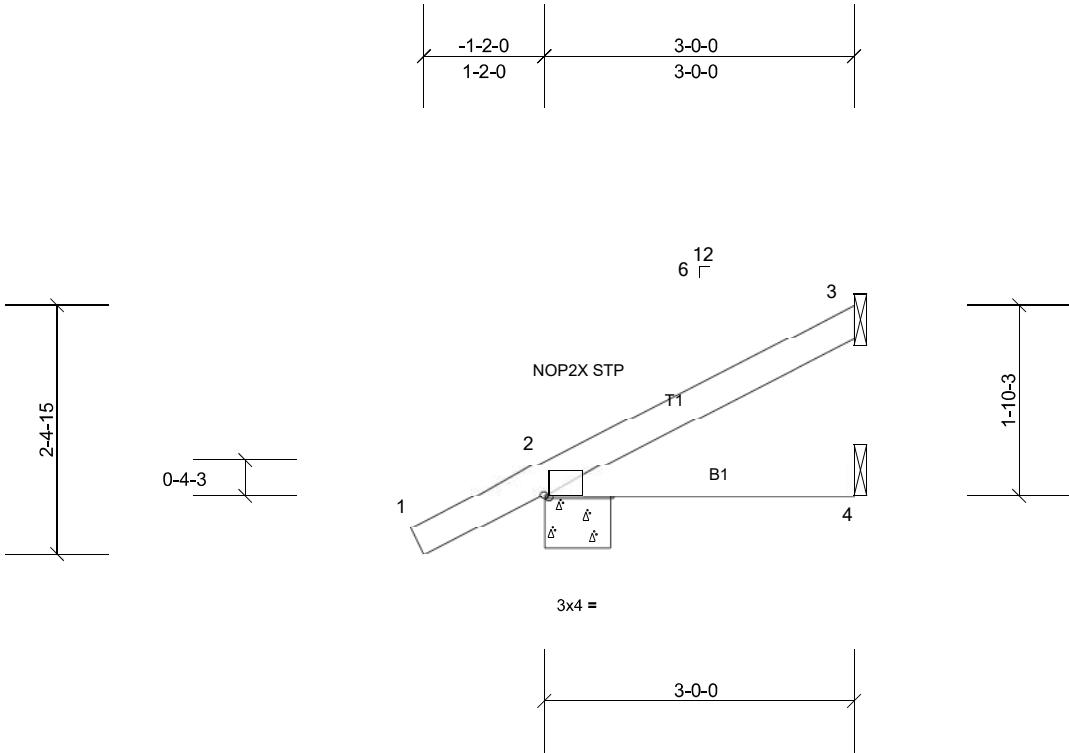


Plate Offsets (X, Y): [2:0-0-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	0.02	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.26	Vert(CT)	0.02	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MP							Weight: 12 lb	FT = 0%

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

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

**REACTIONS** (lb/size) 2=165/0-7-10, (min. 0-1-8), 3=54/ Mechanical, (min. 0-1-8), 4=31/ Mechanical, (min. 0-1-8)  
Max Horiz 2=142 (LC 12)  
Max Uplift 2=-137 (LC 12), 3=-86 (LC 12), 4=43 (LC 9)  
Max Grav 2=165 (LC 1), 3=54 (LC 1), 4=51 (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=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60  
2) All plates are MT20 plates unless otherwise indicated.  
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 86 lb uplift at joint 3, 137 lb uplift at joint 2 and 43 lb uplift at joint 4.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	J56	Jack-Open	2	1	Job Reference (optional)

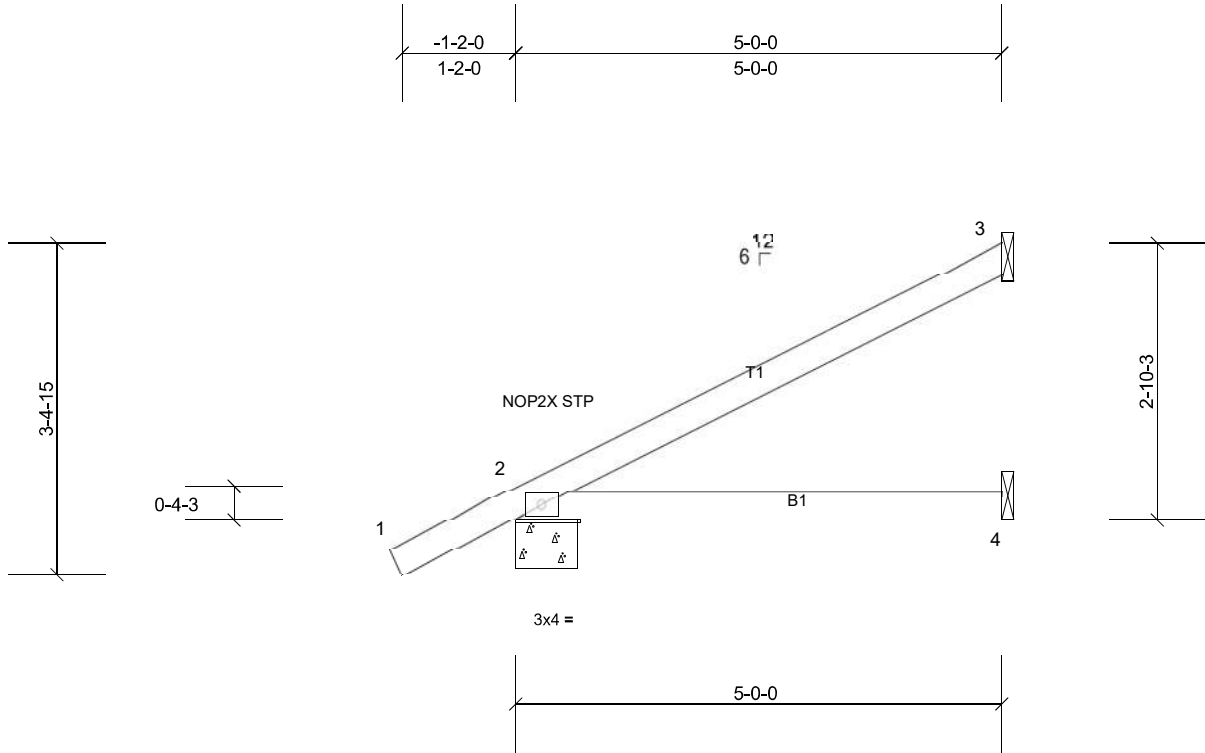


Plate Offsets (X, Y): [2:0-1-4,0-0-2]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.57	Vert(LL)	0.07	4-7	>898	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.45	Vert(CT)	-0.06	4-7	>912	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MP							Weight: 18 lb	FT = 0%

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

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

**REACTIONS** (lb/size) 2=227/0-7-10, (min. 0-1-8), 3=98/ Mechanical, (min. 0-1-8), 4=58/ Mechanical, (min. 0-1-8)  
Max Horiz 2=213 (LC 12)  
Max Uplift 2=-170 (LC 12), 3=-158 (LC 12), 4=-17 (LC 12)  
Max Grav 2=227 (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=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60  
2) All plates are MT20 plates unless otherwise indicated.  
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 158 lb uplift at joint 3, 170 lb uplift at joint 2 and 17 lb uplift at joint 4.

**LOAD CASE(S)** Standard



Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	J56P	Jack-Open	4	1	Job Reference (optional)

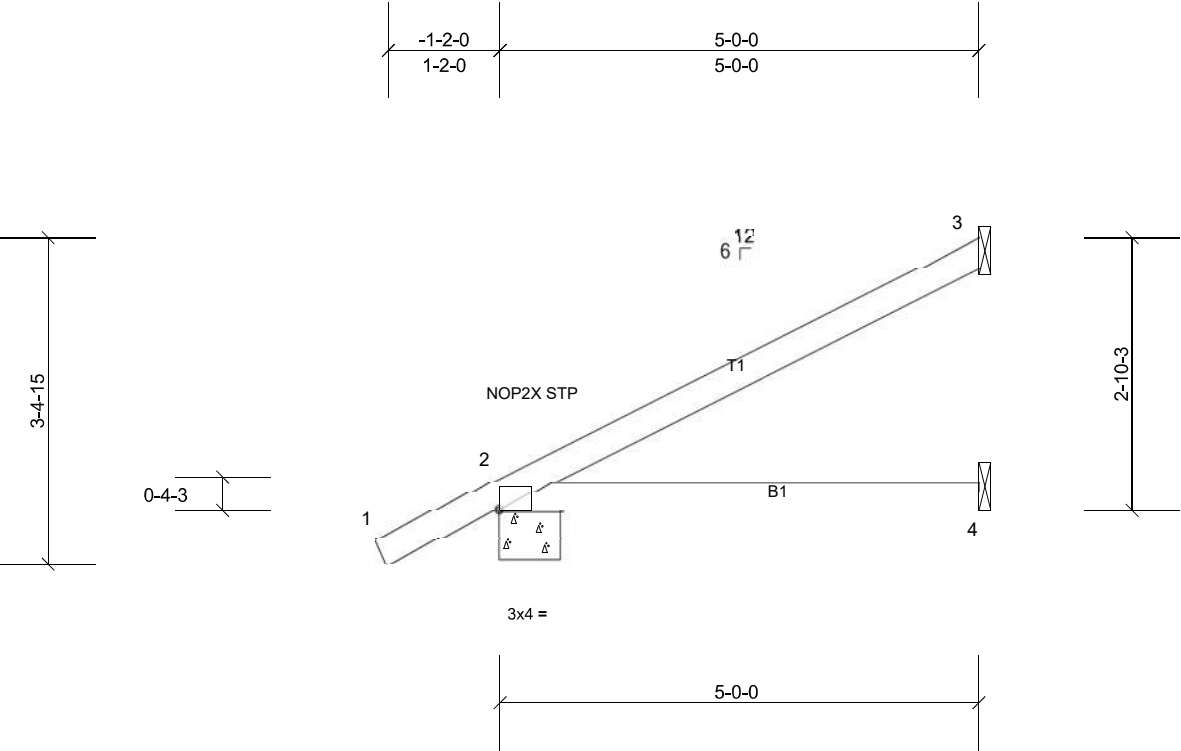


Plate Offsets (X, Y): [2:Edge,0-0-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.86	Vert(LL)	0.20	4-7	>295	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	0.19	4-7	>312	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MP							Weight: 18 lb	FT = 0%

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

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

**REACTIONS** (lb/size) 2=227/0-7-10, (min. 0-1-8), 3=98/ Mechanical, (min. 0-1-8), 4=58/ Mechanical, (min. 0-1-8)  
Max Horiz 2=213 (LC 12)  
Max Uplift 2=-170 (LC 12), 3=-158 (LC 12), 4=-76 (LC 9)  
Max Grav 2=227 (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=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60  
2) All plates are MT20 plates unless otherwise indicated.  
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 158 lb uplift at joint 3, 170 lb uplift at joint 2 and 76 lb uplift at joint 4.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	J76	Jack-Open	18	1	Job Reference (optional)

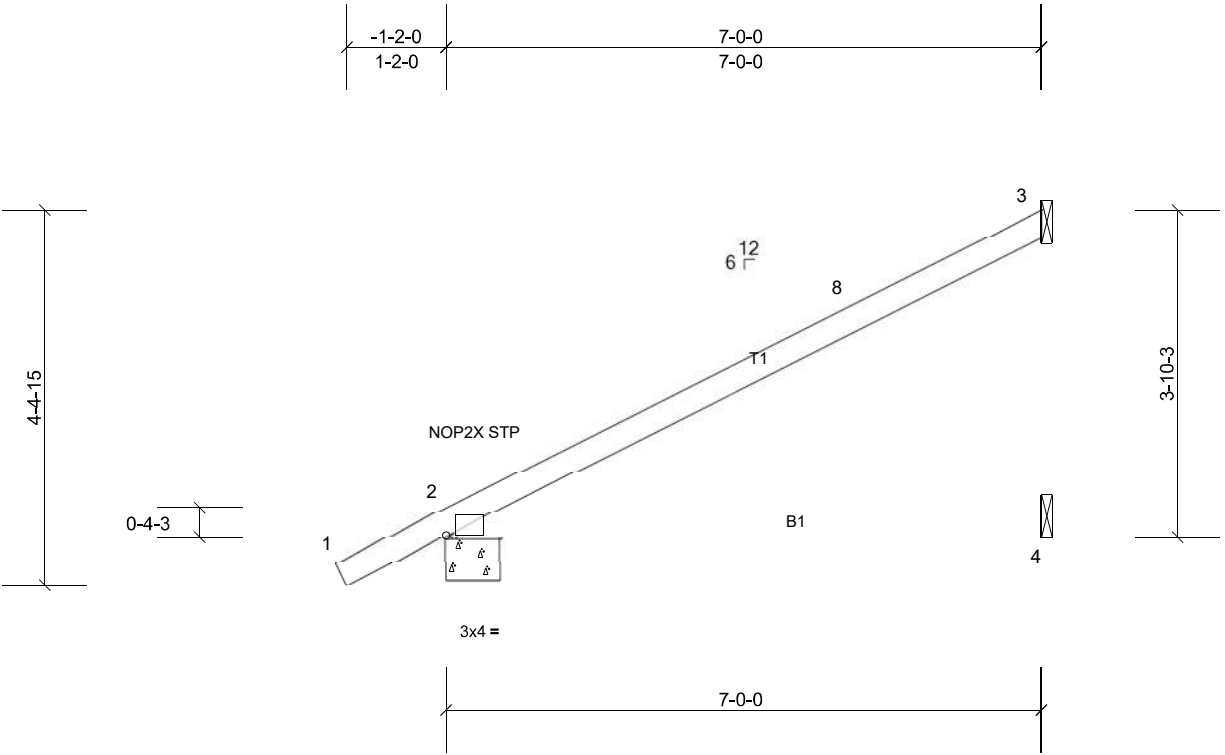


Plate Offsets (X, Y): [2:0-1-4,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.86	Vert(LL)	0.21	4-7	>391	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.21	4-7	>393	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MP							Weight: 24 lb	FT = 0%

**LUMBER**

TOP CHORD 2x4 SP No.1D

BOT CHORD 2x4 SP No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 8-9-0 oc bracing.

**REACTIONS** (lb/size) 2=291/0-7-10, (min. 0-1-8), 3=146/ Mechanical, (min. 0-1-8), 4=78/ Mechanical, (min. 0-1-8)

Max Horiz 2=284 (LC 12)

Max Uplift 2=-206 (LC 12), 3=-233 (LC 12), 4=-19 (LC 12)

Max Grav 2=291 (LC 1), 3=146 (LC 1), 4=122 (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=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-13 to 4-9-3, Zone1 4-9-3 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) All plates are MT20 plates unless otherwise indicated.

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 233 lb uplift at joint 3, 206 lb uplift at joint 2 and 19 lb uplift at joint 4.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	J76P	Jack-Open	6	1	Job Reference (optional)

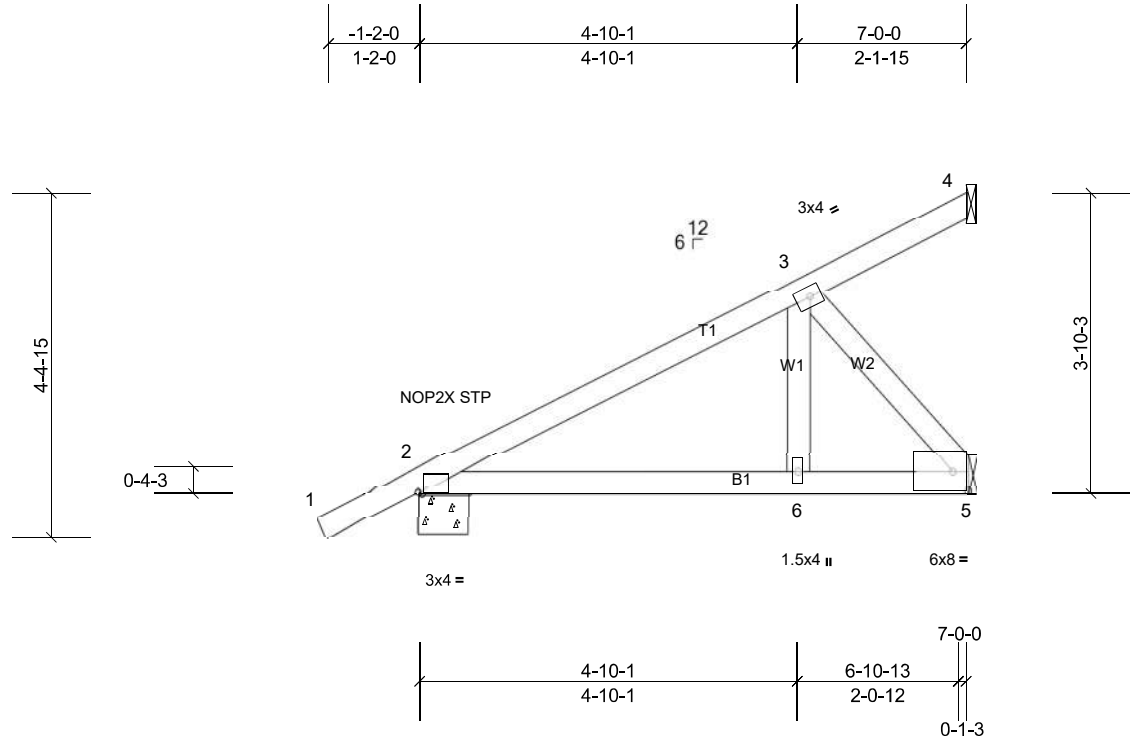


Plate Offsets (X, Y): [2:0-0-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.54	Vert(LL)	0.10	6-9	>840	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.51	Vert(CT)	0.09	6-9	>903	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.22	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MP							Weight: 32 lb	FT = 0%

LUMBER	BRACING
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 5-4-9 oc bracing.
WEBS 2x4 SP No.2	

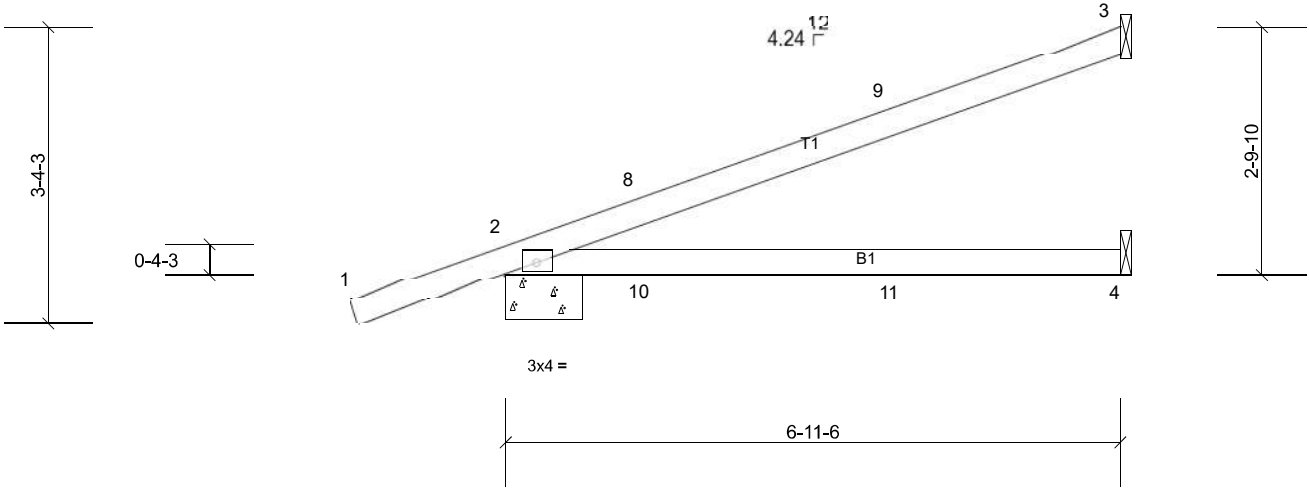
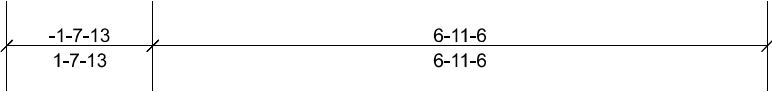
**REACTIONS** (lb/size) 2=293/0-7-10, (min. 0-1-8), 4=12/ Mechanical, (min. 0-1-8), 5=211/ Mechanical, (min. 0-1-8)  
Max Horiz 2=284 (LC 12)  
Max Uplift 2=-216 (LC 9), 4=-27 (LC 12), 5=-244 (LC 9)  
Max Grav 2=293 (LC 1), 4=14 (LC 19), 5=211 (LC 1)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-236/617  
BOT CHORD 2-6=-815/213, 5-6=-815/213  
WEBS 3-5=-322/1234, 3-6=-707/177

- NOTES**
- 1) Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-13 to 4-10-1, Zone1 4-10-1 to 6-11-4 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) All plates are MT20 plates unless otherwise indicated.
  - 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 27 lb uplift at joint 4, 216 lb uplift at joint 2 and 244 lb uplift at joint 5.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	JGR56	Jack-Open Girder	1	1	Job Reference (optional)



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.78	Vert(LL)	0.23	4-7	>359	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.61	Vert(CT)	-0.21	4-7	>393	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPJ2014	Matrix-MP							Weight: 24 lb	FT = 0%

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

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

**REACTIONS** (lb/size) 2=326/0-10-7, (min. 0-1-8), 3=142/ Mechanical, (min. 0-1-8), 4=89/ Mechanical, (min. 0-1-8)  
Max Horiz 2=230 (LC 4)  
Max Uplift 2=-366 (LC 4), 3=-204 (LC 8), 4=-44 (LC 8)  
Max Grav 2=326 (LC 1), 3=142 (LC 1), 4=125 (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=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; 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 204 lb uplift at joint 3, 366 lb uplift at joint 2 and 44 lb uplift at joint 4.  
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 19 lb down and 29 lb up at 1-6-1, 118 lb down and 5 lb up at 1-6-1, and 38 lb down and 85 lb up at 4-4-0, and 38 lb down and 82 lb up at 4-4-0 on top chord, and 5 lb down and 16 lb up at 1-6-1, 24 lb down and 9 lb up at 1-6-1, and 25 lb down and 16 lb up at 4-4-0, and 17 lb down and 29 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=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 1-3=-46, 4-5=-20  
Concentrated Loads (lb)  
Vert: 9=-3, 10=-5, 11=-16

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	JGR56P	Jack-Open Girder	1	1	Job Reference (optional)

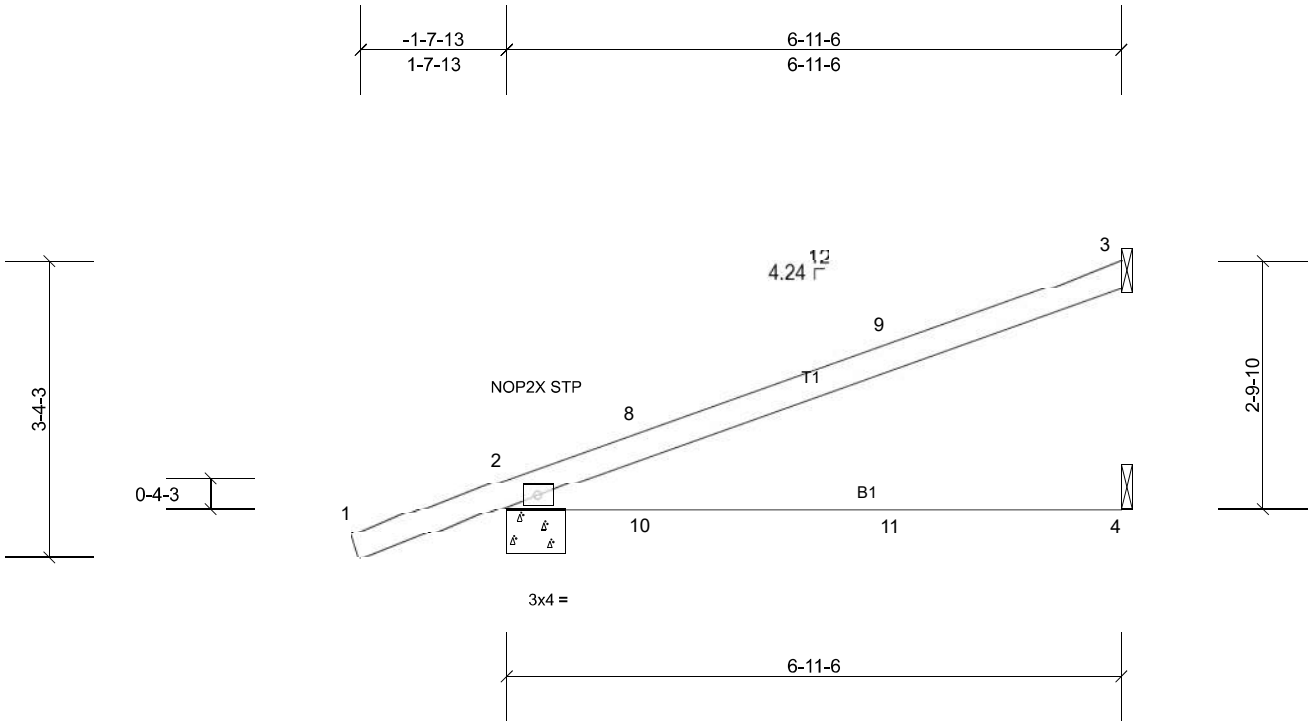


Plate Offsets (X, Y): [2:0-2-5,0-0-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	0.31	4-7	>266	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	0.28	4-7	>298	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.01	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

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

**REACTIONS** (lb/size) 2=319/0-8-0, (min. 0-1-8), 3=139/ Mechanical, (min. 0-1-8),  
4=85/ Mechanical, (min. 0-1-8)  
Max Horiz 2=230 (LC 4)  
Max Uplift 2=-464 (LC 4), 3=-215 (LC 4), 4=-118 (LC 4)  
Max Grav 2=319 (LC 1), 3=139 (LC 1), 4=124 (LC 3)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-8=-274/54

- NOTES**
- Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 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.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 215 lb uplift at joint 3, 464 lb uplift at joint 2 and 118 lb uplift at joint 4.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 118 lb down and 5 lb up at 1-6-1, 118 lb down and 5 lb up at 1-6-1, and 38 lb down and 85 lb up at 4-4-0, and 38 lb down and 85 lb up at 4-4-0 on top chord, and 72 lb down and 9 lb up at 1-6-1, 72 lb down and 9 lb up at 1-6-1, and 22 lb down and 52 lb up at 4-4-0, and 22 lb down and 52 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
- Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 1-3=-46, 4-5=-20  
Concentrated Loads (lb)  
Vert: 9=0, 11=-10

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	JGR76	Jack-Open Girder	1	1	Job Reference (optional)

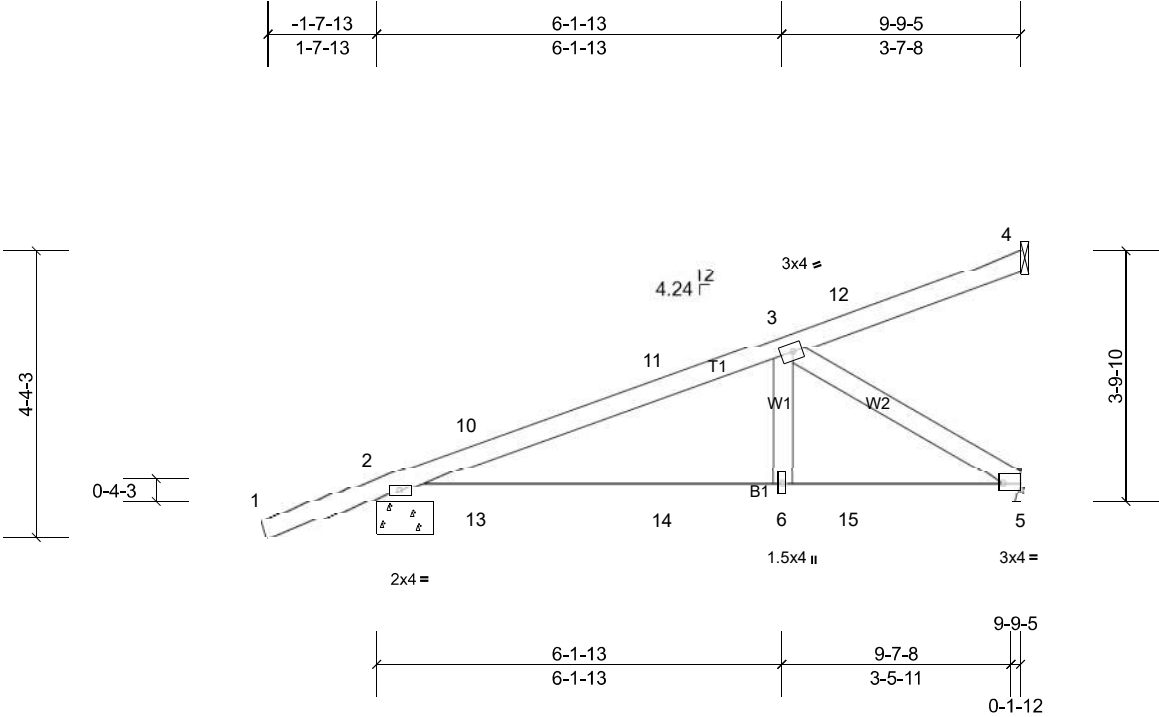


Plate Offsets (X, Y): [5:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	0.07	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.40	Vert(CT)	-0.07	6-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.20	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 42 lb	FT = 0%

LUMBER	BRACING
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 7-4-5 oc bracing.
WEBS 2x4 SP No.2	

**REACTIONS** (lb/size) 2=446/0-10-7, (min. 0-1-8), 4=62/ Mechanical, (min. 0-1-8), 5=347/ Mechanical, (min. 0-1-8)  
Max Horiz 2=301 (LC 4)  
Max Uplift 2=-478 (LC 4), 4=-109 (LC 4), 5=-359 (LC 8)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-10=-577/479, 10-11=-551/485, 3-11=-511/467  
BOT CHORD 2-13=-600/520, 13-14=-600/520, 6-14=-600/520, 6-15=-600/520, 5-15=-600/520  
WEBS 3-6=-70/286, 3-5=-610/704

- NOTES**
- Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; 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.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 109 lb uplift at joint 4, 478 lb uplift at joint 2 and 359 lb uplift at joint 5.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 118 lb down and 5 lb up at 1-6-1, 118 lb down and 5 lb up at 1-6-1, 38 lb down and 85 lb up at 4-4-0, 38 lb down and 85 lb up at 4-4-0, and 64 lb down and 148 lb up at 7-1-15, and 64 lb down and 148 lb up at 7-1-15 on top chord, and 24 lb down and 9 lb up at 1-6-1, 24 lb down and 9 lb up at 1-6-1, 25 lb down and 16 lb up at 4-4-0, 25 lb down and 16 lb up at 4-4-0, and 42 lb down and 25 lb up at 7-1-15, and 42 lb down and 25 lb up at 7-1-15 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=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 1-4=-46, 5-7=-20  
Concentrated Loads (lb)  
Vert: 11=0, 12=-67, 14=-10, 15=-58

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	JGR76P	Jack-Open Girder	1	1	Job Reference (optional)

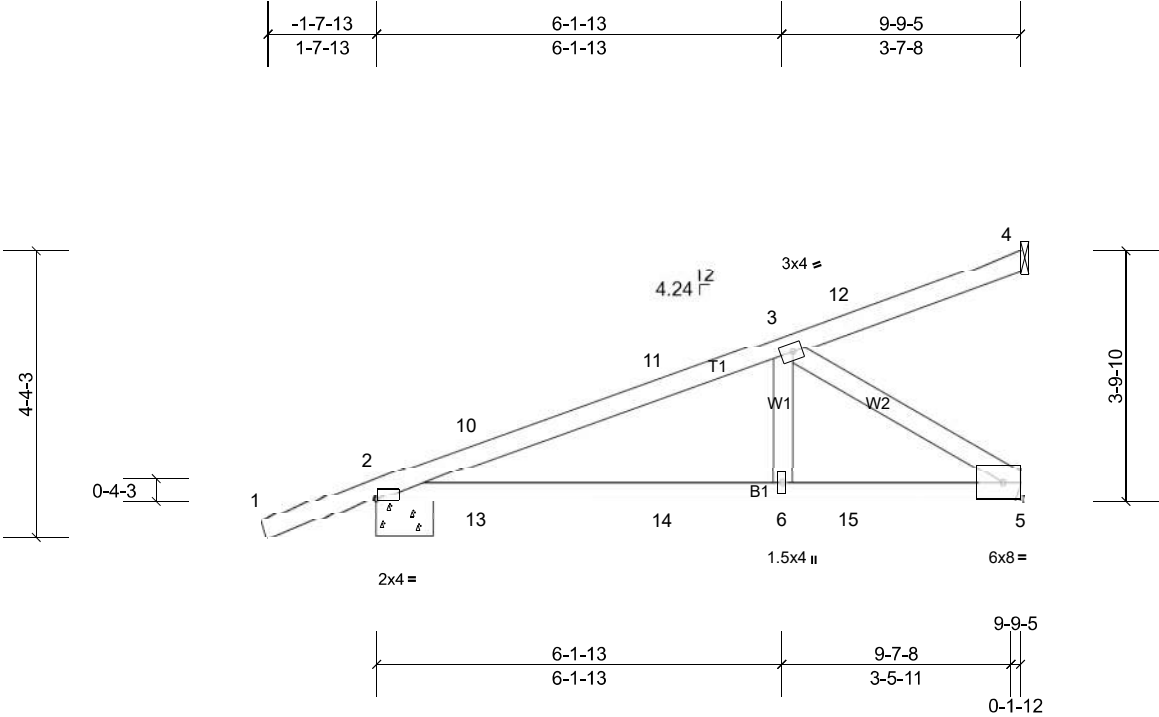


Plate Offsets (X, Y): [2:0-0-1,0-0-3]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.50	Vert(LL)	0.10	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.40	Vert(CT)	0.09	6-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.20	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 42 lb	FT = 0%

LUMBER	BRACING
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 6-3-5 oc bracing.
WEBS 2x4 SP No.2	

**REACTIONS** (lb/size) 2=446/0-10-7, (min. 0-1-8), 4=62/ Mechanical, (min. 0-1-8), 5=347/ Mechanical, (min. 0-1-8)  
Max Horiz 2=301 (LC 4)  
Max Uplift 2=-635 (LC 4), 4=-107 (LC 8), 5=-526 (LC 4)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-10=-577/684, 10-11=-551/688, 3-11=-511/679  
BOT CHORD 2-13=-796/520, 13-14=-796/520, 6-14=-796/520, 6-15=-796/520, 5-15=-796/520  
WEBS 3-6=-250/286, 3-5=-610/933

- NOTES**
- 1) Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; porch left exposed; 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) Refer to girder(s) for truss to truss connections.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 107 lb uplift at joint 4, 635 lb uplift at joint 2 and 526 lb uplift at joint 5.
  - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 118 lb down and 5 lb up at 1-6-1, 118 lb down and 5 lb up at 1-6-1, 38 lb down and 85 lb up at 4-4-0, 38 lb down and 85 lb up at 4-4-0, and 64 lb down and 148 lb up at 7-1-15, and 64 lb down and 148 lb up at 7-1-15 on top chord, and 72 lb down and 9 lb up at 1-6-1, 72 lb down and 9 lb up at 1-6-1, 22 lb down and 52 lb up at 4-4-0, 22 lb down and 52 lb up at 4-4-0, and 44 lb down and 84 lb up at 7-1-15, and 44 lb down and 84 lb up at 7-1-15 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=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 1-4=-46, 5-7=-20  
Concentrated Loads (lb)  
Vert: 11=0, 12=-67, 14=-10, 15=-58

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	LT01	Lay-In Gable	1	1	gable brace
					Job Reference (optional)

Maronda Homes, Sanford, user

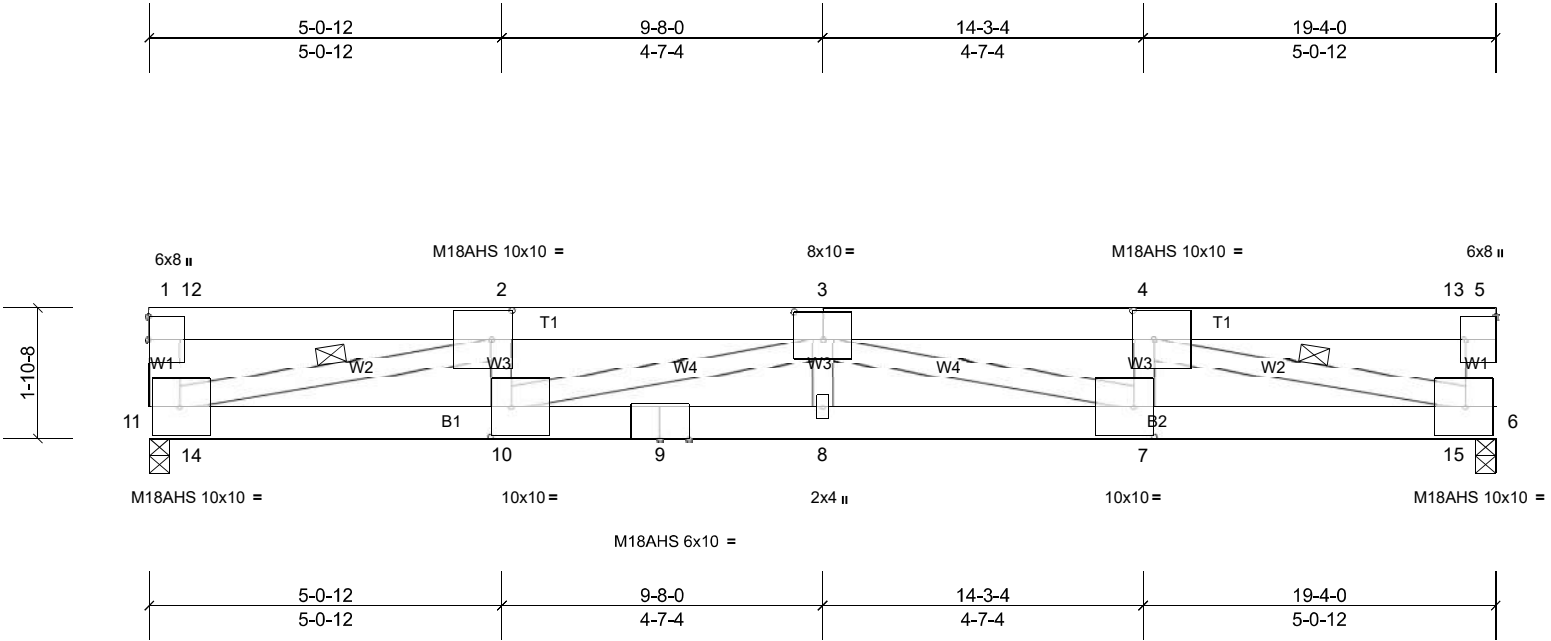


Plate Offsets (X, Y): [2:0-3-8,0-5-0], [3:0-5-0,0-4-12], [4:0-3-8,0-5-0], [5:Edge,0-5-8], [7:0-3-8,0-5-0], [10:0-3-8,0-5-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	5.0	Plate Grip DOL	1.25	TC	0.76	Vert(LL)	0.47	8	>479	360	M18AHS 186/179
TCDL	5.0	Lumber DOL	1.25	BC	0.98	Vert(CT)	-0.50	8	>449	240	MT20 244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.10	6	n/a	n/a	
BCDL	5.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 126 lb FT = 20%

<b>LUMBER</b>		<b>BRACING</b>	
TOP CHORD	2x6 SP No.1D	TOP CHORD	Structural wood sheathing directly applied or 3-0-14 oc purlins, except end verticals.
BOT CHORD	2x6 SP No.1D	BOT CHORD	Rigid ceiling directly applied or 2-11-8 oc bracing.
WEBS	2x4 SP No.2 *Except* W1:2x6 SP No.2, W2:2x4 SP No.1D	WEBS	1 Row at midpt 2-11, 4-6
<b>REACTIONS</b>	(lb/size) 6=2186/0-3-8, (min. 0-2-3), 11=2186/0-3-8, (min. 0-2-3) Max Uplift 6=-1829 (LC 6), 11=-1829 (LC 6)		
<b>FORCES</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	1-11=-517/453, 1-12=-441/373, 2-12=-441/373, 2-3=-5681/4794, 3-4=-5681/4794, 4-13=-441/373, 5-13=-441/373, 5-6=-517/453		
BOT CHORD	11-14=-4794/5681, 10-14=-4794/5681, 9-10=-6242/7411, 8-9=-6242/7411, 7-8=-6242/7411, 7-15=-4794/5681, 6-15=-4794/5681		
WEBS	2-10=-1481/1181, 2-11=-5461/4607, 3-10=-1810/1515, 3-8=-961/734, 3-7=-1810/1515, 4-7=-1481/1181, 4-6=-5461/4607		

- NOTES**
- 1) Provide adequate drainage to prevent water ponding.
  - 2) Dead loads shown include weight of truss. Top chord dead load of 5.0 psf (or less) is not adequate for a shingle roof. Architect to verify adequacy of top chord dead load.
  - 3) All plates are MT20 plates unless otherwise indicated.
  - 4) WARNING: Top chord live load is below 12.0psf. Architect and/or engineer of 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1829 lb uplift at joint 11 and 1829 lb uplift at joint 6.
  - 7) Load case(s) 1, 2, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
  - 8) 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 Except:
- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (lb/ft)  
Vert: 1-12=-20, 12-13=-230, 5-13=-20, 6-11=-10
  - 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (lb/ft)  
Vert: 1-5=-18, 11-14=-10, 14-15=-168 (F=-158), 6-15=-10
  - 5) User defined (1): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (lb/ft)  
Vert: 1-12=-10, 12-13=210 (F=230), 5-13=-10, 6-11=-10
  - 6) User defined (2): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (lb/ft)  
Vert: 1-12=-8, 12-13=-18, 5-13=-8, 11-14=-10, 14-15=220 (F=230), 6-15=-10



Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	M04	Half Hip	1	1	Job Reference (optional)

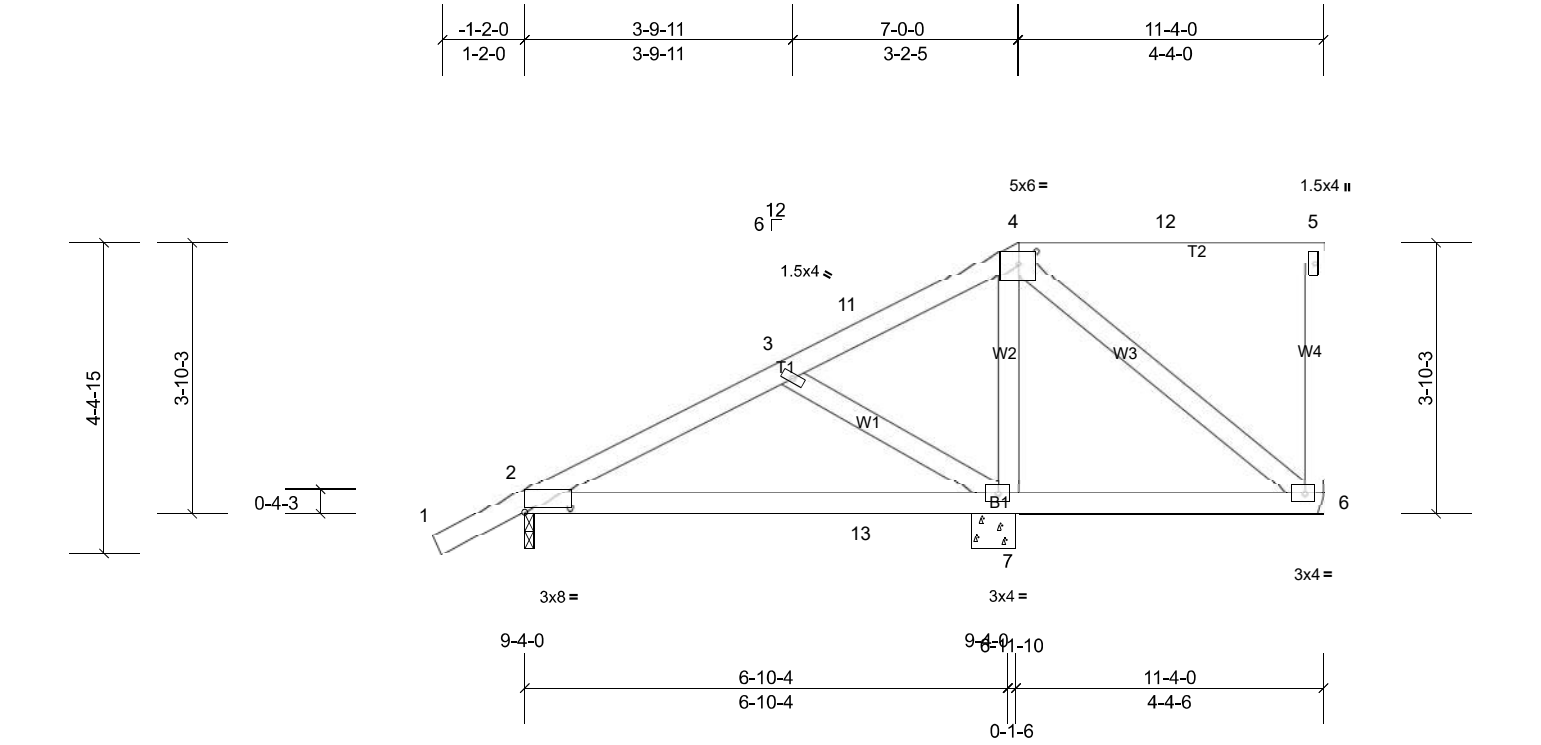


Plate Offsets (X, Y): [2:0-8-0,0-0-14], [4:0-3-0,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	0.22	7-10	>379	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.71	Vert(CT)	0.20	7-10	>401	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 60 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 5-5-10 oc bracing.
WEBS	2x4 SP No.2		

**REACTIONS** (lb/size) 2=262/0-1-8, (min. 0-1-8), 6=102/ Mechanical, (min. 0-1-8), 7=430/0-7-10, (min. 0-1-8)  
Max Horiz 2=288 (LC 12)  
Max Uplift 2=-195 (LC 9), 6=-115 (LC 8), 7=-409 (LC 9)  
Max Grav 2=262 (LC 1), 6=127 (LC 26), 7=430 (LC 1)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-183/273  
BOT CHORD 2-13=-501/182, 7-13=-501/182  
WEBS 4-7=-224/322, 3-7=-228/620

- 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=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-13 to 4-9-3, Zone1 4-9-3 to 7-0-0, Zone3 7-0-0 to 11-2-4 zone; cantilever left exposed ; porch left exposed;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.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 195 lb uplift at joint 2, 409 lb uplift at joint 7 and 115 lb uplift at joint 6.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	M05	Half Hip	1	1	Job Reference (optional)

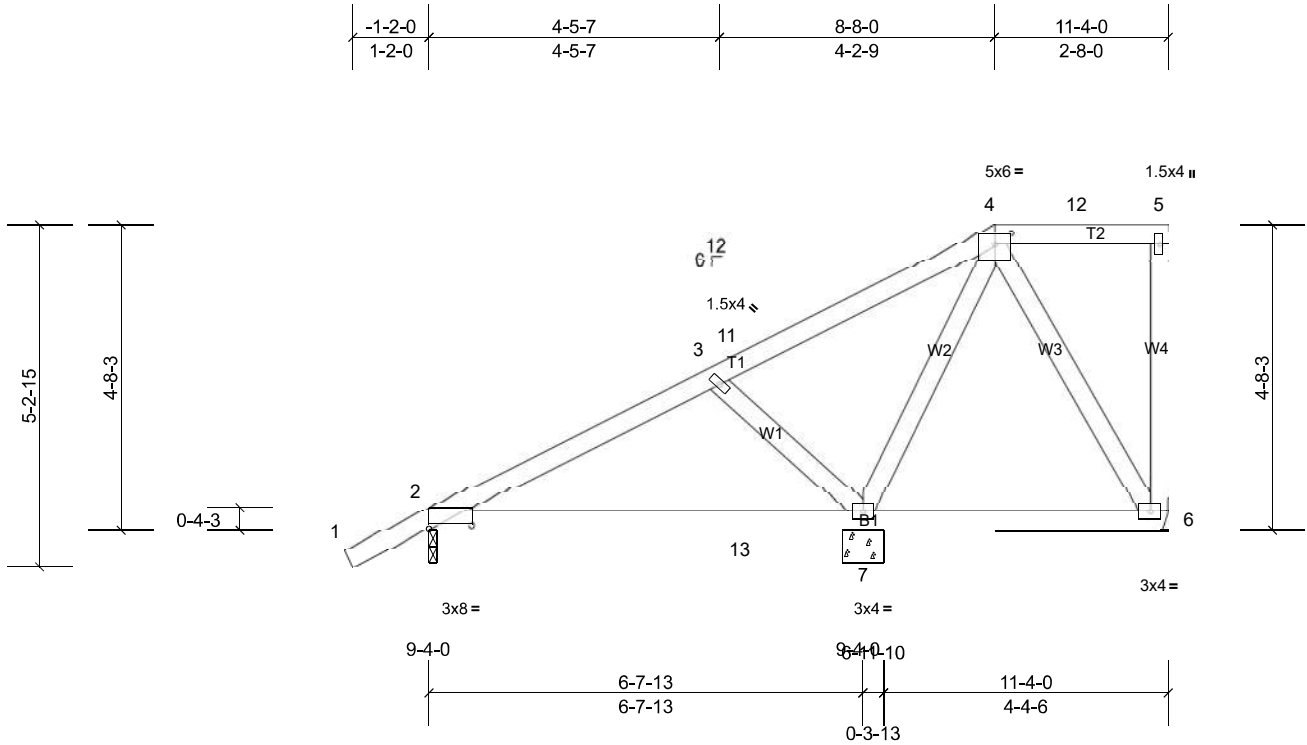


Plate Offsets (X, Y): [2:0-8-0,0-0-14], [4:0-3-0,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	0.22	7-10	>366	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	0.21	7-10	>387	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 62 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-9-5 oc bracing.
WEBS 2x4 SP No.2	

**REACTIONS** (lb/size) 2=257/0-1-8, (min. 0-1-8), 6=114/ Mechanical, (min. 0-1-8), 7=423/0-7-10, (min. 0-1-8)  
Max Horiz 2=347 (LC 12)  
Max Uplift 2=-178 (LC 9), 6=-113 (LC 9), 7=-388 (LC 12)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
BOT CHORD 2-13=-435/165, 7-13=-435/165  
WEBS 3-7=-267/611

- NOTES**
- 1) Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-13 to 4-9-3, Zone1 4-9-3 to 8-8-0, Zone3 8-8-0 to 11-2-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Provide adequate drainage to prevent water ponding.
  - 3) 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.
  - 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) Refer to girder(s) for truss to truss connections.
  - 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 178 lb uplift at joint 2, 388 lb uplift at joint 7 and 113 lb uplift at joint 6.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	MGRD01	Monopitch Girder	1	1	Job Reference (optional)

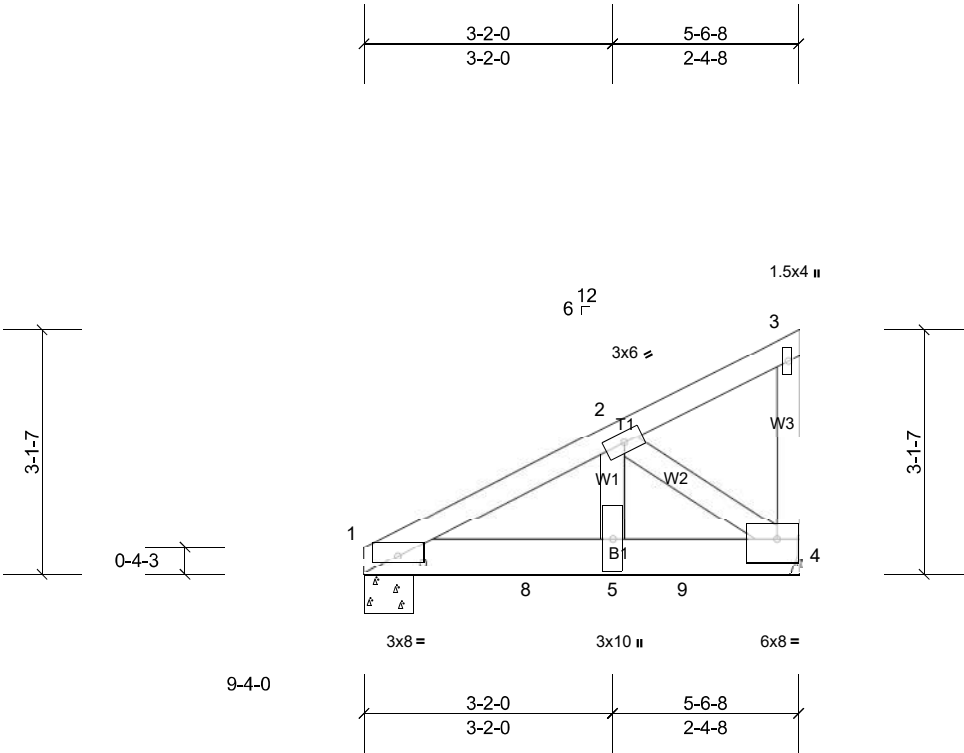


Plate Offsets (X, Y): [1:0-4-0,0-1-1], [4:Edge,0-3-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	0.03	5-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.61	Vert(CT)	-0.03	5-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.28	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MP							Weight: 31 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-5-4 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-9-13 oc bracing.
WEBS 2x4 SP No.2	

**REACTIONS** (lb/size) 1=711/0-7-10, (min. 0-1-8), 4=878/ Mechanical, (min. 0-1-8)  
Max Horiz 1=192 (LC 23)  
Max Uplift 1=-503 (LC 8), 4=-723 (LC 8)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-1112/739  
BOT CHORD 1-8=-792/963, 5-8=-792/963, 5-9=-792/963, 4-9=-792/963  
WEBS 2-4=-1170/962, 2-5=-703/994

- NOTES**
- 1) Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; 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 503 lb uplift at joint 1 and 723 lb uplift at joint 4.
  - 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 616 lb down and 460 lb up at 2-0-12, and 616 lb down and 460 lb up at 4-0-12 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=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 1-3=-46, 1-4=-20  
Concentrated Loads (lb)  
Vert: 8=-616, 9=-616

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	MGRD02	Monopitch Girder	1	1	Job Reference (optional)

Maronda Homes, Sanford, user

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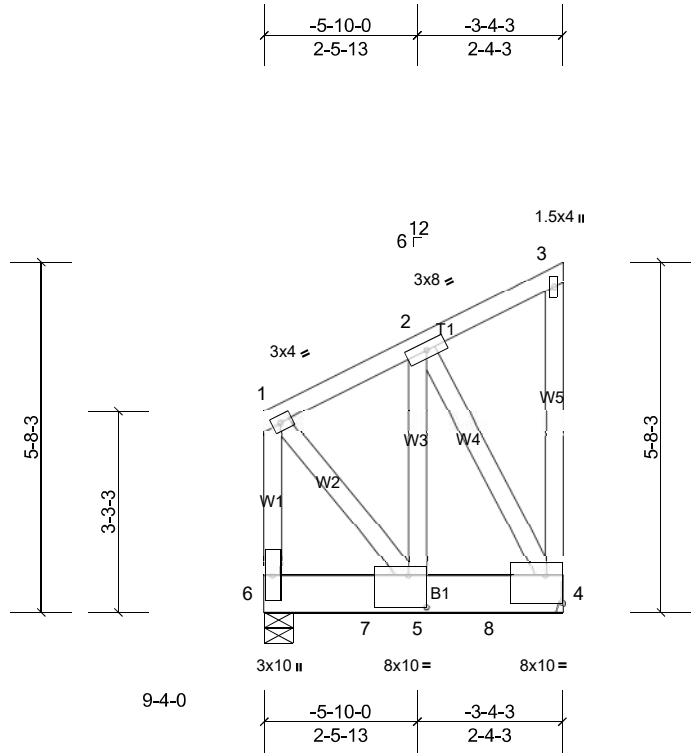


Plate Offsets (X, Y): [4:Edge,0-5-8], [5:0-3-8,0-6-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.19	Vert(LL)	0.02	5-6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.02	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MP							Weight: 50 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x8 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 9-10-10 oc bracing.

**REACTIONS** (lb/size) 4=1841/ Mechanical, (min. 0-1-8), 6=1531/0-5-10, (min. 0-1-13)  
Max Horiz 6=162 (LC 8)  
Max Uplift 4=-1605 (LC 8), 6=-1069 (LC 8)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-682/475, 1-6=-1077/732  
BOT CHORD 5-8=-541/596, 4-8=-541/596  
WEBS 1-5=-648/944, 2-4=-1244/1129, 2-5=-1042/1285

#### NOTES

- Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; 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 1069 lb uplift at joint 6 and 1605 lb uplift at joint 4.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 724 lb down and 417 lb up at 7-5-12, 934 lb down and 782 lb up at 7-7-4, and 724 lb down and 417 lb up at 9-5-12, and 935 lb down and 800 lb up at 9-7-4 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=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 1-3=-46, 4-6=-20  
Concentrated Loads (lb)  
Vert: 7=-1536, 8=-1537

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	MGRD03	Half Hip Girder	1	1	Job Reference (optional)

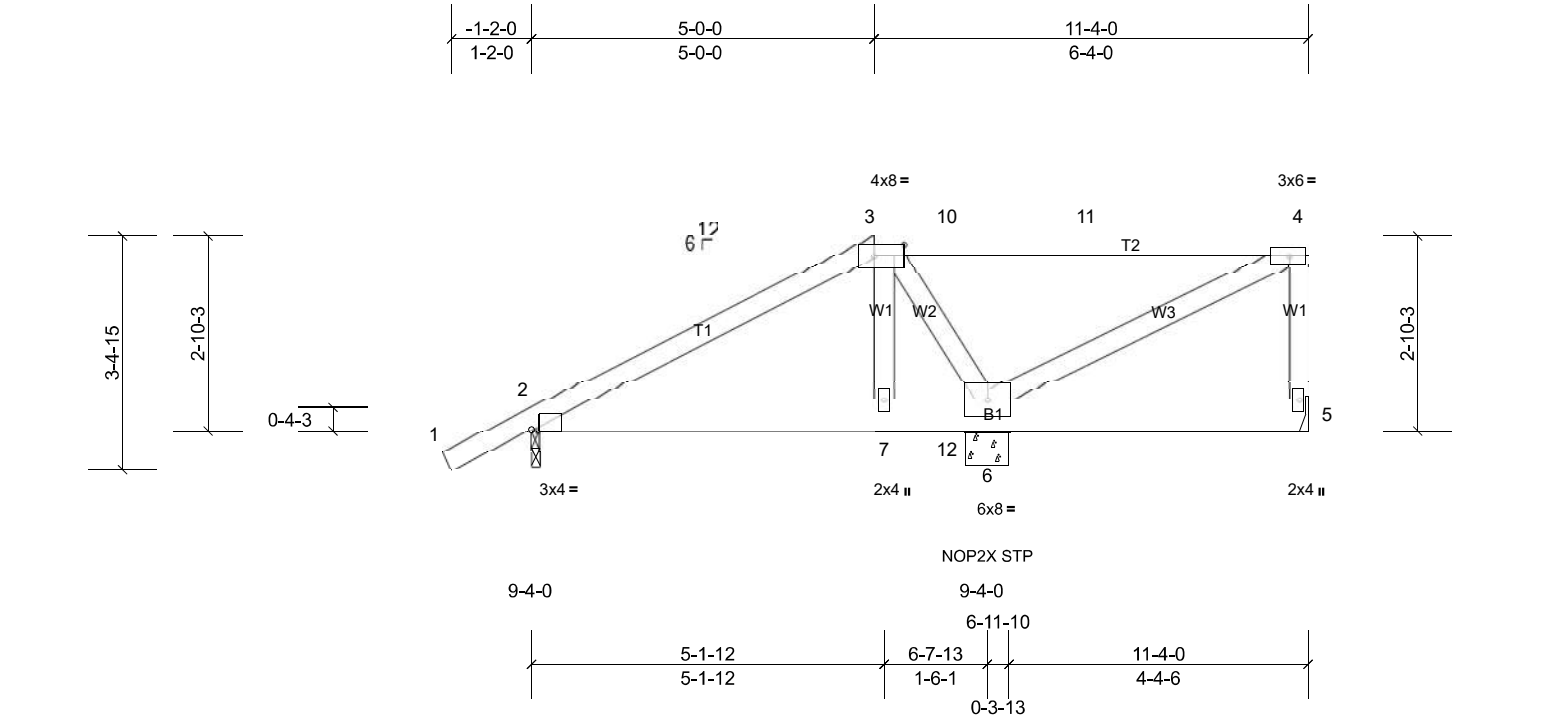


Plate Offsets (X, Y): [2:0-1-4,Edge], [3:0-5-4,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.61	Vert(LL)	0.02	7-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.17	Vert(CT)	0.02	7-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS								
											Weight: 64 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

**REACTIONS** (lb/size) 2=325/0-1-8, (min. 0-1-8), 5=122/ Mechanical, (min. 0-1-8), 6=658/0-7-10, (min. 0-1-8)  
Max Horiz 2=216 (LC 8)  
Max Uplift 2=-334 (LC 8), 5=-157 (LC 25), 6=-855 (LC 5)  
Max Grav 2=325 (LC 1), 5=129 (LC 22), 6=658 (LC 1)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-300/356  
BOT CHORD 2-7=-368/237, 7-12=-384/247, 6-12=-384/247  
WEBS 3-7=-264/257, 3-6=-583/881

- 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=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - 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.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 157 lb uplift at joint 5, 334 lb uplift at joint 2 and 855 lb uplift at joint 6.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 164 lb down and 336 lb up at 5-0-0, and 63 lb down and 140 lb up at 6-0-12 on top chord, and 116 lb down and 208 lb up at 5-0-0, and 48 lb down and 82 lb up at 6-0-12 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=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 1-3=-46, 3-4=-46, 2-5=-20  
Concentrated Loads (lb)  
Vert: 3=-127, 7=-94, 10=-52, 12=-38

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	PB01	GABLE	1	1	user brg
					Job Reference (optional)

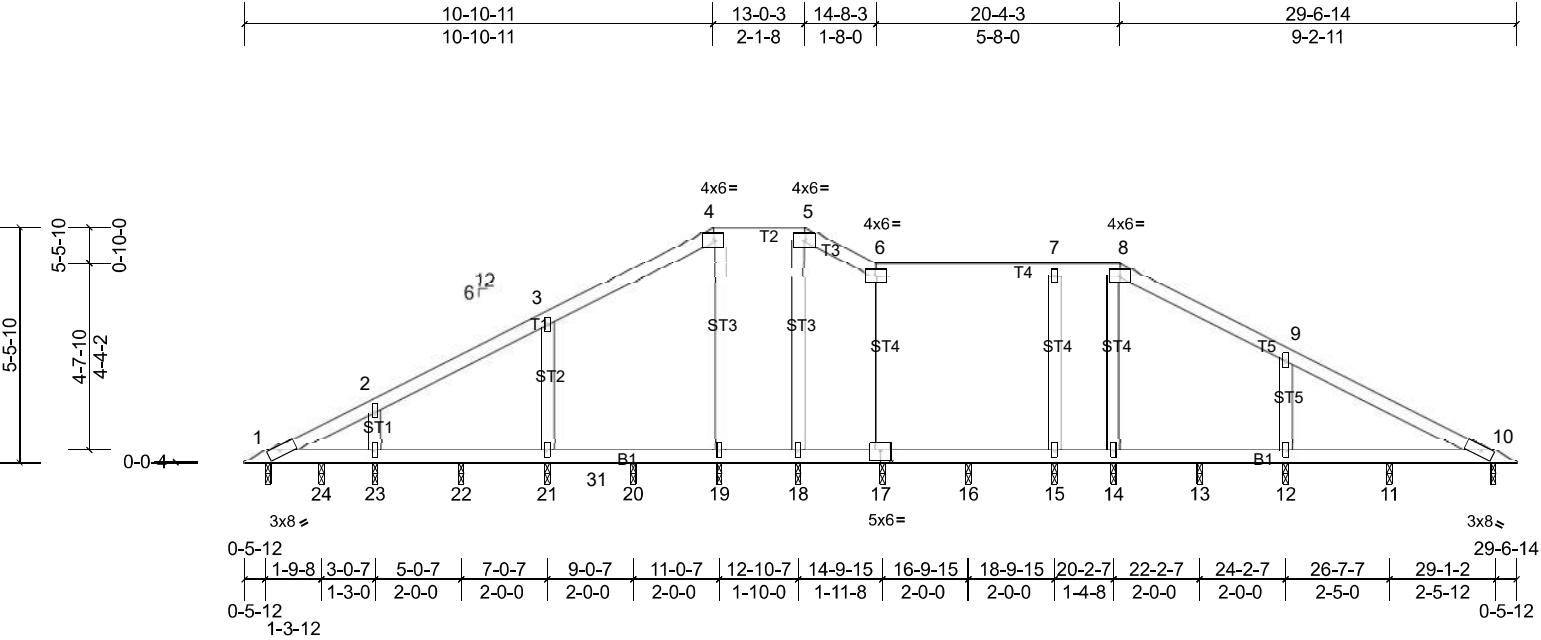


Plate Offsets (X, Y): [17:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	0.01	11-29	>999	240	MT20 244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.26	Vert(CT)	0.01	11-29	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	10	n/a	n/a	
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 132 lb FT = 20%

LUMBER		BRACING	
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, Except:
OTHERS	2x4 SP No.2		6-0-0 oc bracing: 16-17,15-16,14-15.

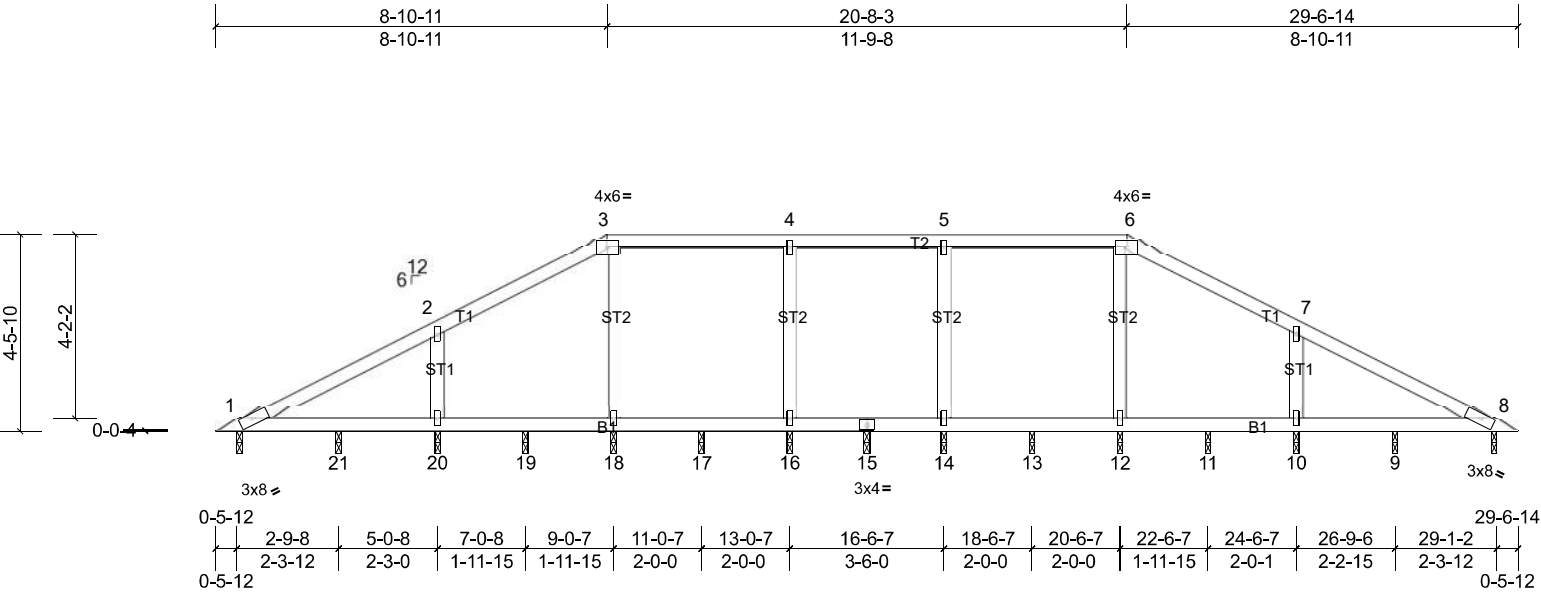
**REACTIONS** All bearings 0-1-8.  
(lb) - Max Horiz 1=159 (LC 16)  
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 10, 11, 14, 18, 19, 24 except 12=-330 (LC 13), 15=-234 (LC 9), 17=-275 (LC 13), 21=-340 (LC 12), 23=-253 (LC 12)  
Max Grav All reactions 250 (lb) or less at joint(s) 1, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 3-4=-96/269, 4-5=-94/306, 5-6=-103/313  
WEBS 6-17=-166/379, 3-21=-209/452, 2-23=-162/348, 7-15=-168/288, 9-12=-224/481

- 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=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 1.5x4 MT20 unless otherwise indicated.
  - Gable studs spaced at 4-0-0 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, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 1, 10, 17, 24, 23, 22, 21, 20, 19, 18, 16, 15, 14, 13, 12, 11.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 10, 24, 19, 18, 14, 11 except (jt=lb) 17=274, 23=253, 21=339, 15=234, 12=330.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	PB02	Valley	1	1	user brg
					Job Reference (optional)



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	0.01	21-23	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.23	Vert(CT)	0.01	21-23	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	FRC2023/TP12014	Matrix-MS							Weight: 118 lb	FT = 20%

LUMBER	BRACING
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.
OTHERS 2x4 SP No.2	

**REACTIONS** All bearings 0-1-8.  
(lb) - Max Horiz 1=-129 (LC 13)  
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 8, 9, 21 except 10=-314 (LC 13), 12=-131 (LC 8), 14=-243 (LC 9), 16=-243 (LC 8), 18=-150 (LC 9), 20=-317 (LC 12)  
Max Grav All reactions 250 (lb) or less at joint(s) 1, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 4-16=-187/321, 2-20=-210/453, 5-14=-187/321, 7-10=-208/448

- 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=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 1.5x4 MT20 unless otherwise indicated.
  - Gable studs spaced at 4-0-0 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, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 1, 8, 15, 21, 20, 19, 18, 17, 16, 14, 13, 12, 11, 10, 9.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8, 21, 9 except (jt=lb) 20=317, 18=150, 16=243, 14=243, 12=131, 10=314.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	PB03	Valley	1	1	user brg
					Job Reference (optional)

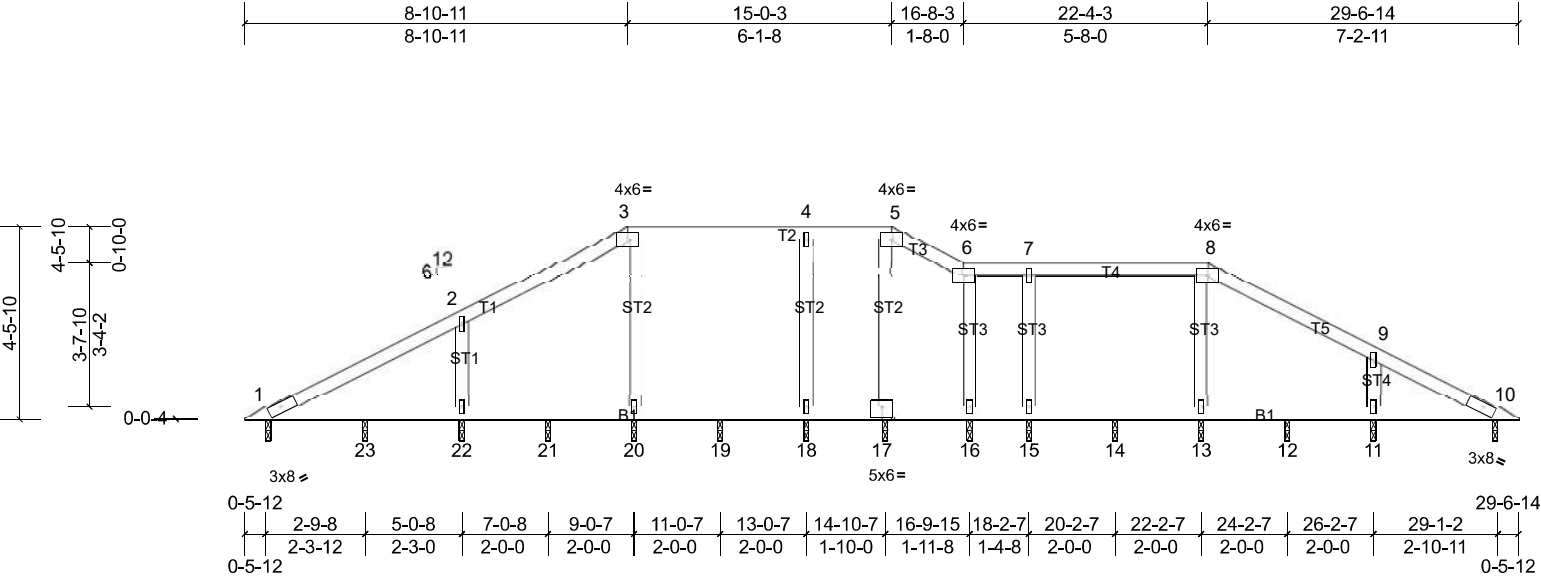


Plate Offsets (X, Y): [17:0-3-0,0-3-0]

Loading	(psf)	Spacing		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	2-0-0	TC	0.27	Vert(LL)	0.01	23-25	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.21	Vert(CT)	0.01	23-25	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 125 lb	FT = 20%

LUMBER		BRACING	
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.
OTHERS	2x4 SP No.2		

**REACTIONS** All bearings 0-1-8.  
(lb) - Max Horiz 1=-129 (LC 13)  
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 10, 23 except 11=-305 (LC 13), 13=-195 (LC 13), 15=-243 (LC 9), 16=-109 (LC 13), 18=-237 (LC 8), 20=-150 (LC 9), 22=-317 (LC 12)  
Max Grav All reactions 250 (lb) or less at joint(s) 1, 10, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23 except 11=253 (LC 20)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 4-18=-182/305, 2-22=-210/452, 8-13=-166/260, 7-15=-176/307, 9-11=-187/392

- 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=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 1.5x4 MT20 unless otherwise indicated.
  - Gable studs spaced at 4-0-0 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, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 1, 10, 17, 23, 22, 21, 20, 19, 18, 16, 15, 14, 13, 12, 11.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 10, 23 except (jt=lb) 22=316, 20=149, 18=237, 16=109, 15=243, 13=195, 11=304.

**LOAD CASE(S)** Standard



Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	PB04	Valley	1	1	user brg
					Job Reference (optional)

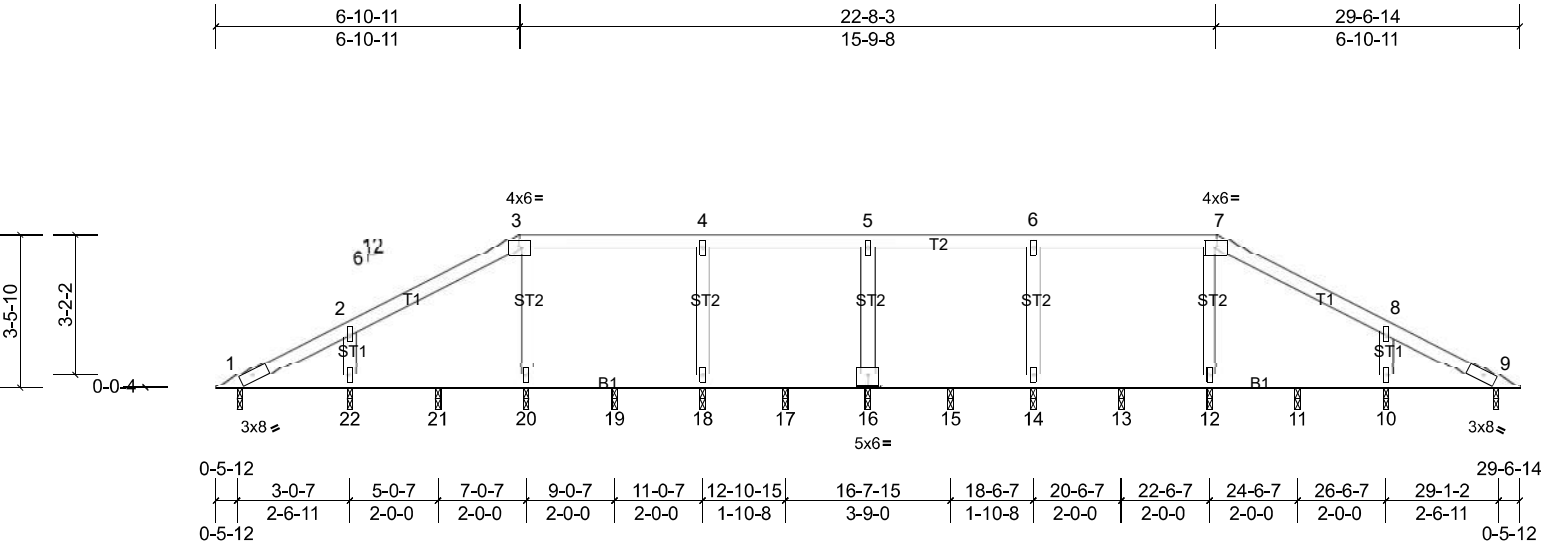


Plate Offsets (X, Y): [16:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.21	Vert(LL)	0.00	10-25	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.04	Vert(CT)	0.00	10-25	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 113 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 6-0-0 oc bracing.
OTHERS	2x4 SP No.2		

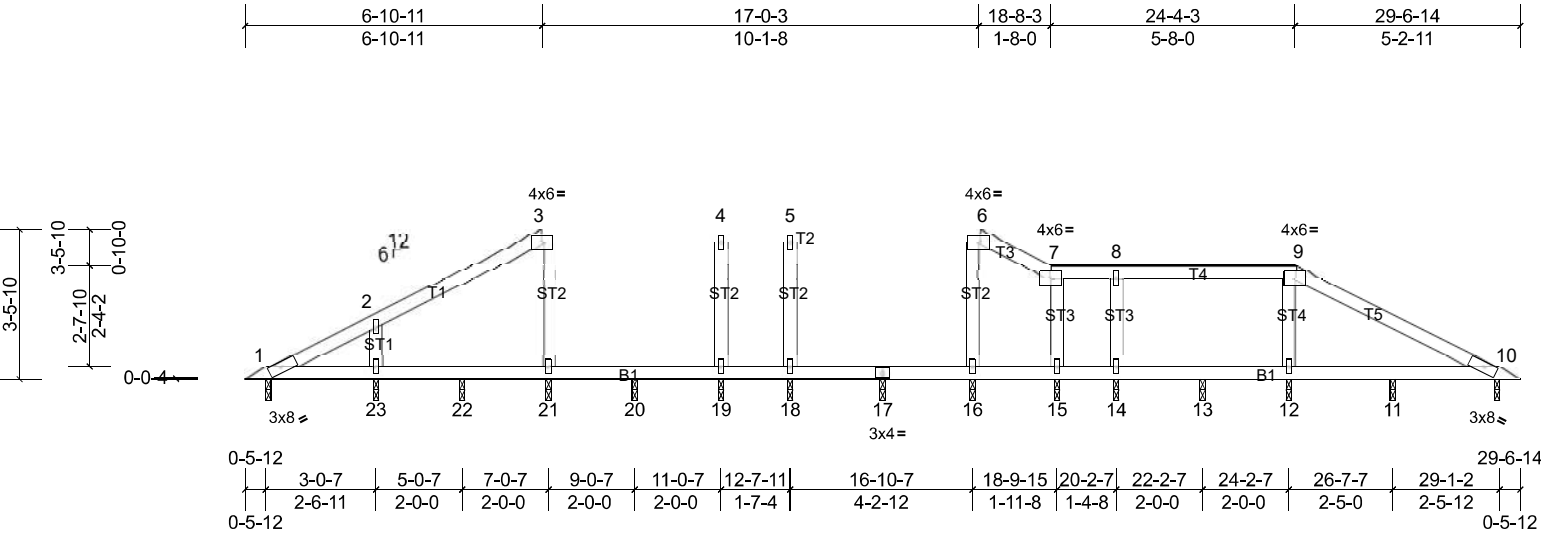
**REACTIONS** All bearings 0-1-8.  
(lb) - Max Horiz 1=-98 (LC 13)  
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 9 except 10=-297 (LC 13), 12=-147 (LC 8), 14=-263 (LC 9), 16=-205 (LC 8), 18=-263 (LC 8), 20=-163 (LC 9), 22=-298 (LC 12)  
Max Grav All reactions 250 (lb) or less at joint(s) 1, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 3-20=-165/250, 4-18=-201/344, 2-22=-184/387, 7-12=-165/250, 6-14=-201/344, 8-10=-184/387, 5-16=-160/285

- 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=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 1.5x4 MT20 unless otherwise indicated.
  - Gable studs spaced at 4-0-0 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 at joint(s) 1, 9, 16, 22, 21, 20, 19, 18, 17, 15, 14, 12, 13, 11, 10.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9 except (jt=lb) 16=204, 22=297, 20=163, 18=263, 14=263, 12=147, 10=297.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	PB05	Valley	1	1	user brg
					Job Reference (optional)



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.22	Vert(LL)	0.01	11-26	>999	240	MT20 244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.30	Vert(CT)	0.01	11-26	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	11	n/a	n/a	
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 117 lb FT = 20%

LUMBER	BRACING
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 6-0-0 oc bracing.
OTHERS 2x4 SP No.2	

**REACTIONS** All bearings 0-1-8.  
(lb) - Max Horiz 1=-98 (LC 13)  
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 10, 15 except 11=-117 (LC 13), 12=-193 (LC 13), 14=-247 (LC 9), 16=-138 (LC 8), 18=-196 (LC 9), 19=-175 (LC 8), 21=-170 (LC 9), 23=-297 (LC 12)  
Max Grav All reactions 250 (lb) or less at joint(s) 1, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23

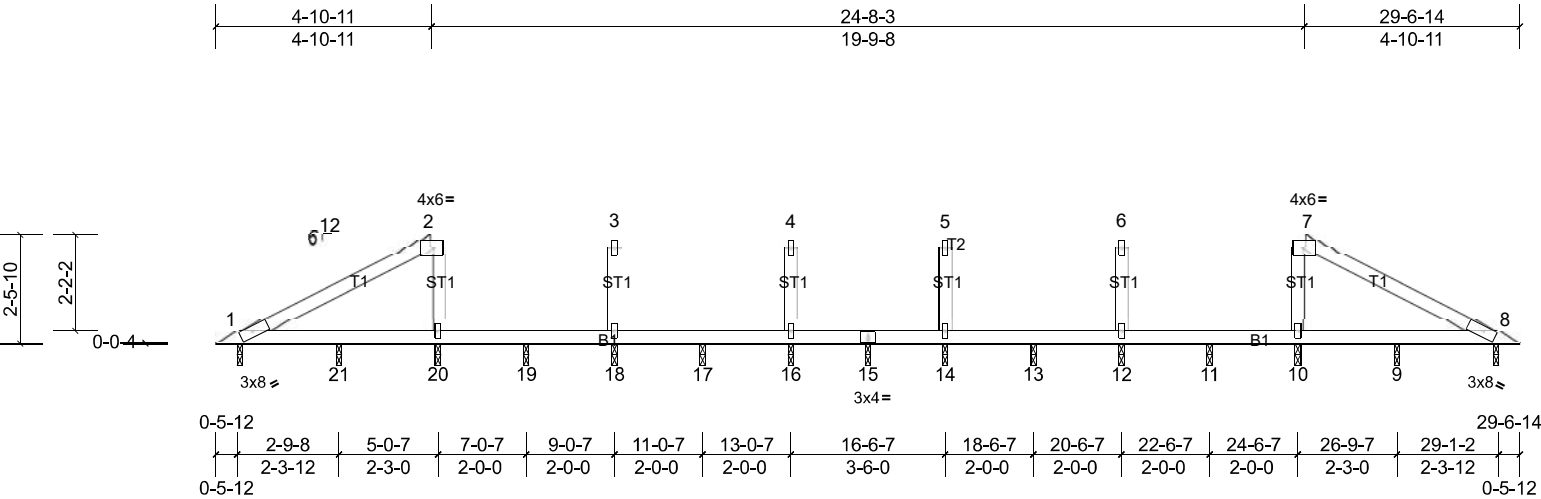
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**WEBS** 5-18=-153/270, 3-21=-171/258, 2-23=-183/385, 9-12=-174/305, 8-14=-176/306

- 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=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 1.5x4 MT20 unless otherwise indicated.
  - Gable studs spaced at 4-0-0 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 at joint(s) 1, 10, 17, 23, 22, 21, 20, 19, 18, 16, 15, 14, 13, 12, 11.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 10, 15 except (jt=lb) 23=297, 21=169, 19=174, 18=196, 16=138, 14=246, 12=193, 11=116.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	PB06	Valley	1	1	user brg
					Job Reference (optional)



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.21	Vert(LL)	0.01	21-22	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.26	Vert(CT)	0.01	21-22	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 105 lb	FT = 20%

LUMBER	BRACING
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 6-0-0 oc bracing, Except:
OTHERS 2x4 SP No.2	10-0-0 oc bracing: 1-21,20-21,9-10,8-9.

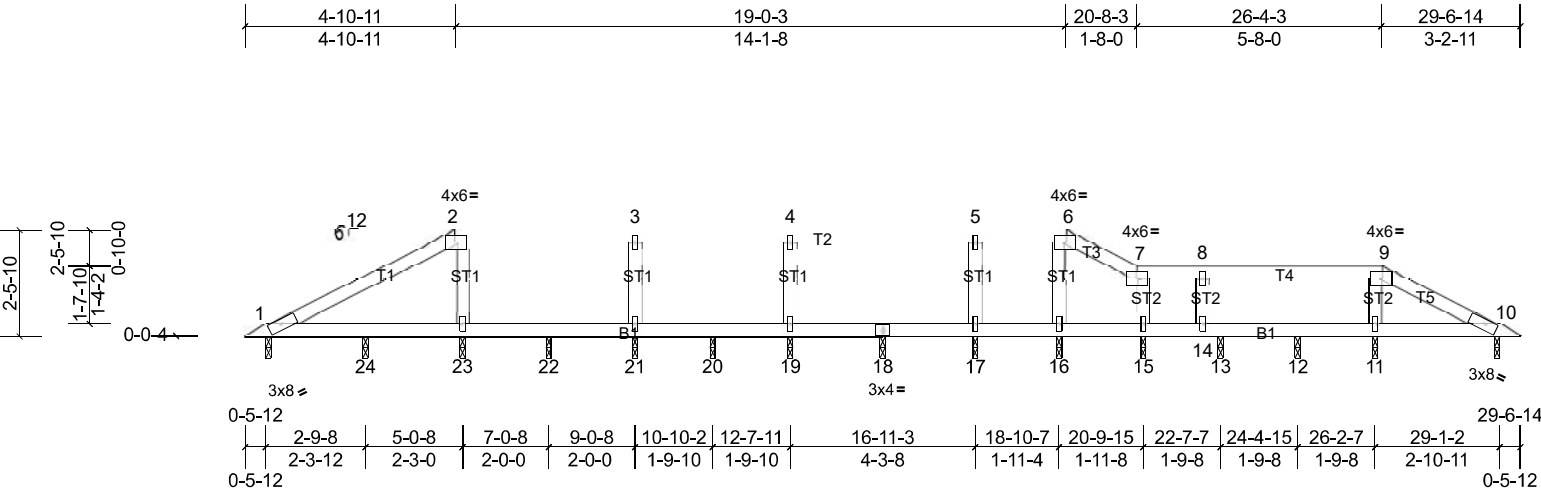
**REACTIONS** All bearings 0-1-8.  
(lb) - Max Horiz 1=-67 (LC 13)  
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 8 except 9=-115 (LC 13), 10=-142 (LC 8), 12=-271 (LC 9), 14=-216 (LC 8), 16=-216 (LC 9), 18=-271 (LC 8), 20=-153 (LC 9), 21=-116 (LC 12)  
Max Grav All reactions 250 (lb) or less at joint(s) 1, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 2-20=-168/282, 3-18=-207/355, 4-16=-167/296, 7-10=-168/282, 6-12=-207/355, 5-14=-167/296

- 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=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 1.5x4 MT20 unless otherwise indicated.
  - Gable studs spaced at 4-0-0 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 at joint(s) 1, 8, 15, 21, 20, 19, 18, 17, 16, 14, 13, 12, 11, 10, 9.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8 except (jt=lb) 21=115, 20=152, 18=270, 16=216, 14=216, 12=270, 10=141, 9=115.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	PB07	Valley	1	1	user brg
					Job Reference (optional)



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.19	Vert(LL)	0.01	24-26	>999	240	MT20 244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.24	Vert(CT)	0.01	24-26	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	10	n/a	n/a	
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 107 lb FT = 20%

LUMBER	BRACING
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 6-0-0 oc bracing, Except:
OTHERS 2x4 SP No.2	10-0-0 oc bracing: 1-24,23-24,10-11.

**REACTIONS** All bearings 0-1-8.  
(lb) - Max Horiz 1=-68 (LC 13)  
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 10, 16 except 11=-226 (LC 13), 13=-211 (LC 9), 15=-124 (LC 13), 17=-229 (LC 9), 19=-236 (LC 9), 21=-248 (LC 8), 23=-158 (LC 9), 24=-109 (LC 12)  
Max Grav All reactions 250 (lb) or less at joint(s) 1, 10, 11, 12, 13, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24

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

**WEBS** 4-19=-182/324, 5-17=-174/302, 2-23=-172/286, 3-21=-190/323, 9-11=-151/264, 8-14=-175/309

- 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=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 1.5x4 MT20 unless otherwise indicated.
  - Gable studs spaced at 4-0-0 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 at joint(s) 1, 10, 18, 24, 23, 22, 21, 20, 19, 17, 16, 15, 13, 12, 11.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 10, 16 except (jt=lb) 24=109, 23=157, 21=247, 19=235, 17=228, 15=123, 13=211, 11=226.

**LOAD CASE(S)** Standard

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**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	PB09	Valley	1	1	user brg
					Job Reference (optional)

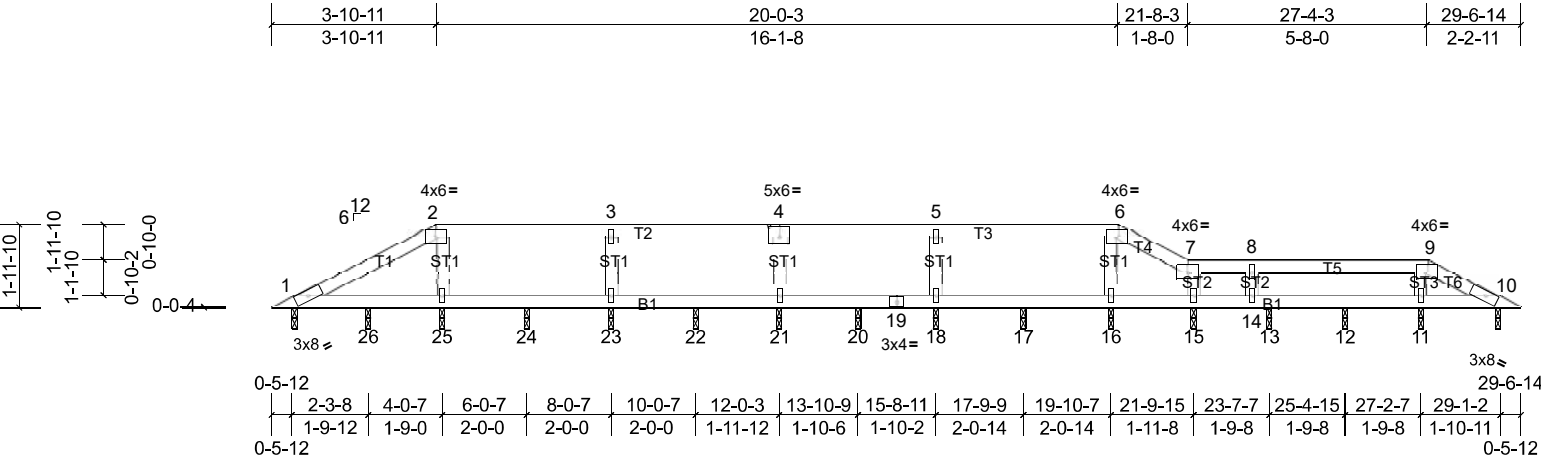


Plate Offsets (X, Y): [4:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.21	Vert(LL)	0.00	26-27	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.13	Vert(CT)	0.00	26-27	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 100 lb	FT = 20%

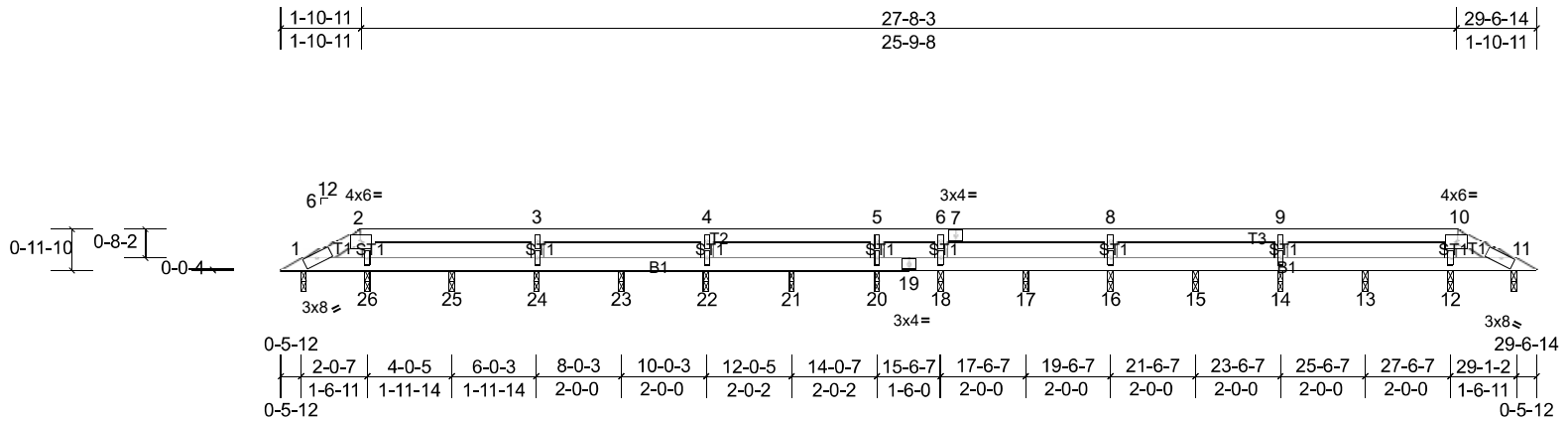
LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
OTHERS 2x4 SP No.2	

**REACTIONS** All bearings 0-1-8.  
(lb) - Max Horiz 1=52 (LC 12)  
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 10, 26 except 11=-191 (LC 13), 13=-212 (LC 9), 15=-103 (LC 13), 16=-139 (LC 8), 18=-263 (LC 9), 21=-210 (LC 9), 23=-271 (LC 8), 25=-145 (LC 9)  
Max Grav All reactions 250 (lb) or less at joint(s) 1, 10, 11, 12, 13, 15, 16, 17, 18, 20, 21, 22, 23, 24, 25, 26

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 5-18=-202/356, 3-23=-207/362, 4-21=-163/289, 8-14=-178/316

- 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=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 1.5x4 MT20 unless otherwise indicated.
  - Gable studs spaced at 4-0-0 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 at joint(s) 1, 10, 26, 25, 24, 23, 22, 21, 20, 18, 17, 16, 15, 13, 12, 11.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 10, 26 except (jt=lb) 25=144, 23=271, 21=209, 18=263, 16=139, 15=102, 13=212, 11=191.

**LOAD CASE(S)** Standard

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	1.00	TC	0.20	Vert(LL)	0.00	30	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.03	Vert(CT)	0.00	30	>999	180		
BCLL	0.0 *	Rep Stress Incr		WB	0.06	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 91 lb	FT = 20%

**LUMBER**

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

## BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 10-0-0 oc bracing: 1-26,11-12.

**REACTIONS** All bearings 0-1-8.

(lb) - Max Horiz 1=22 (LC 12)  
 Max Uplift All uplift 100 (lb) or less at joint(s) 1, 11 except 12=-139 (LC 8),  
 14=-261 (LC 8), 16=-244 (LC 8), 18=-155 (LC 9), 20=-155 (LC  
 8), 22=-244 (LC 9), 24=-261 (LC 9), 26=-142 (LC 9)  
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 11, 12, 13, 14, 15, 16,  
 17, 18, 20, 21, 22, 23, 24, 25, 26

## FORCES

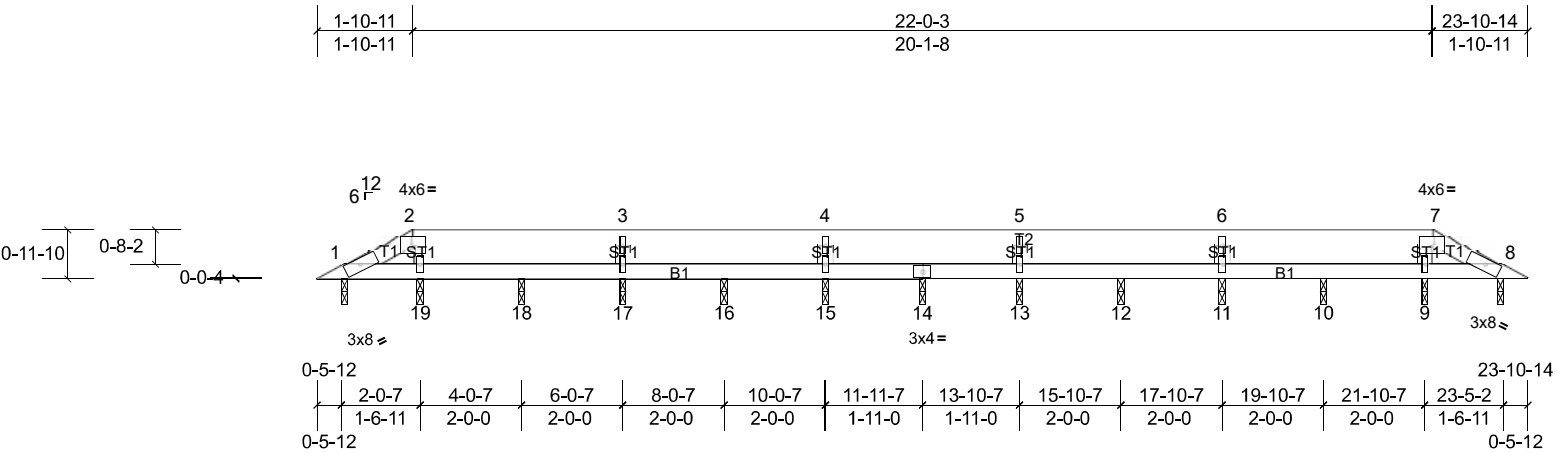
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

## WEBS

- ### NOTES
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TC DL=4.2psf; BCDL=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) All plates are 1.5x4 MT20 unless otherwise indicated.
  - 6) Gable studs spaced at 4-0-0 oc.
  - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 at joint(s) 1, 11, 26, 25, 24, 23, 22, 21, 20, 18, 17, 16, 15, 14, 13, 12.
  - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11 except (jt=lb) 26=142, 24=260, 22=243, 20=155, 18=155, 16=243, 14=260, 12=138.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	PB11	Valley	1	1	user brg
					Job Reference (optional)



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.20	Vert(LL)	0.00	21	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.03	Vert(CT)	0.00	21	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code	FRC2023/TP12014	Matrix-MS							Weight: 73 lb	FT = 20%

LUMBER	BRACING
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 6-0-0 oc bracing, Except:
OTHERS 2x4 SP No.2	10-0-0 oc bracing: 1-19,8-9.

**REACTIONS** All bearings 0-1-8.  
(lb) - Max Horiz 1=-22 (LC 13)  
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 8 except 9=-138 (LC 8), 11=-265 (LC 8), 13=-228 (LC 8), 15=-228 (LC 9), 17=-265 (LC 9), 19=-141 (LC 9)  
Max Grav All reactions 250 (lb) or less at joint(s) 1, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 3-17=-203/359, 4-15=-176/311, 6-11=-203/359, 5-13=-176/311

- 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=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 1.5x4 MT20 unless otherwise indicated.
  - Gable studs spaced at 4-0-0 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 at joint(s) 1, 8, 14, 19, 18, 17, 16, 15, 13, 12, 11, 10, 9.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8 except (jt=lb) 19=140, 17=264, 15=228, 13=228, 11=264, 9=137.

**LOAD CASE(S)** Standard



Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	T12	Roof Special	1	1	Job Reference (optional)

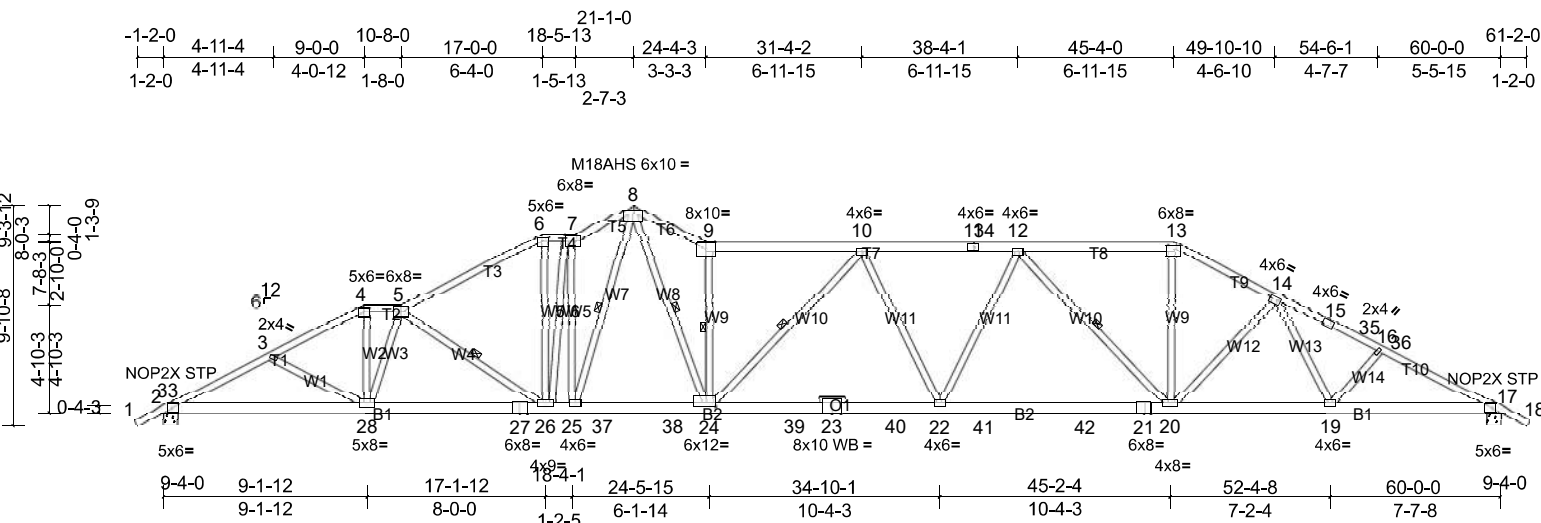


Plate Offsets (X, Y): [2:0-3-0,0-2-9], [4:0-3-0,0-2-0], [6:0-3-8,0-2-4], [7:0-5-8,0-3-4], [13:0-4-0,0-1-15], [15:0-3-0,Edge], [17:0-3-0,0-2-9], [24:0-5-4,0-2-0]												
<b>Loading</b>	(psf)	<b>Spacing</b>	2-0-0	<b>CSI</b>		<b>DEFL</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.87	Vert(LL)	0.79	22-24	>911	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-1.06	22-24	>681	180	M18AHS	186/179
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.22	17	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 443 lb	FT = 20%

<b>LUMBER</b>		<b>BRACING</b>	
TOP CHORD	2x4 SP No.2 *Except* T3:2x4 SP No.1D, T7,T8:2x6 SP No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x6 SP No.1D	BOT CHORD	Rigid ceiling directly applied or 4-9-5 oc bracing.
WEBS	2x4 SP No.2	WEBS	1 Row at midpt 5-26, 8-25, 8-24, 9-24, 10-24, 12-20
OTHERS	2x4 SP No.2		

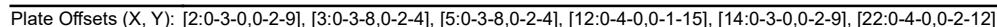
**REACTIONS** (lb/size) 2=2037/0-7-10, (min. 0-2-6), 17=2037/0-7-10, (min. 0-2-6)  
Max Horiz 2=-294 (LC 17)  
Max Uplift 2=-1358 (LC 12), 17=-1632 (LC 13)  
Max Grav 2=2325 (LC 2), 17=2333 (LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**TOP CHORD** 2-33=-4669/3228, 2-33=-4657/3231, 2-3=-4659/3378, 3-4=-4474/3133, 4-5=-4024/2909, 5-6=-4170/2950, 6-7=-3726/2773, 7-8=-4335/3244, 8-9=-5255/3755, 9-10=-4649/3280, 10-11=-4769/3303, 11-34=-4769/3303, 12-34=-4769/3303, 12-13=-3588/2586, 13-14=-4012/2801, 14-15=-4539/3162, 15-35=-4539/3153, 16-35=-4579/3146, 16-36=-4628/3227, 17-36=-4690/3217  
**BOT CHORD** 2-28=-2963/4155, 27-28=-2972/4507, 26-27=-2972/4507, 25-26=-2307/3876, 25-37=-2026/3561, 37-38=-2026/3561, 24-38=-2026/3561, 24-39=-2861/4840, 23-39=-2861/4840, 23-40=-2861/4840, 22-40=-2861/4840, 22-41=-2657/4466, 41-42=-2657/4466, 21-42=-2657/4466, 20-21=-2657/4466, 19-20=-2380/3860, 17-19=-2735/4174  
**WEBS** 3-28=-264/454, 4-28=-1275/1880, 5-28=-1500/1140, 5-26=-985/934, 6-26=-916/1558, 7-25=-944/856, 8-25=-1011/1134, 8-24=-2182/3178, 9-24=-2429/1837, 10-24=-411/464, 10-22=-236/326, 12-22=-257/696, 12-20=-1277/931, 13-20=-944/1600, 14-20=-452/562, 14-19=-287/451, 16-19=-221/353, 7-26=-882/671

- 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=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-13 to 4-9-5, Zone1 4-9-5 to 9-0-0, Zone3 9-0-0 to 10-8-0, Zone1 10-8-0 to 17-0-0, Zone3 17-0-0 to 18-5-13, Zone1 18-5-13 to 21-1-0, Zone3 21-1-0 to 24-4-3, Zone1 24-4-3 to 45-4-0, Zone2 45-4-0 to 53-9-13, Zone1 53-9-13 to 61-2-13 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - WARNING:** This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - All plates are 4x6 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, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1358 lb uplift at joint 2 and 1632 lb uplift at joint 17.

**LOAD CASE(S)** Standard

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- LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	T22	Roof Special	1	1	Job Reference (optional)

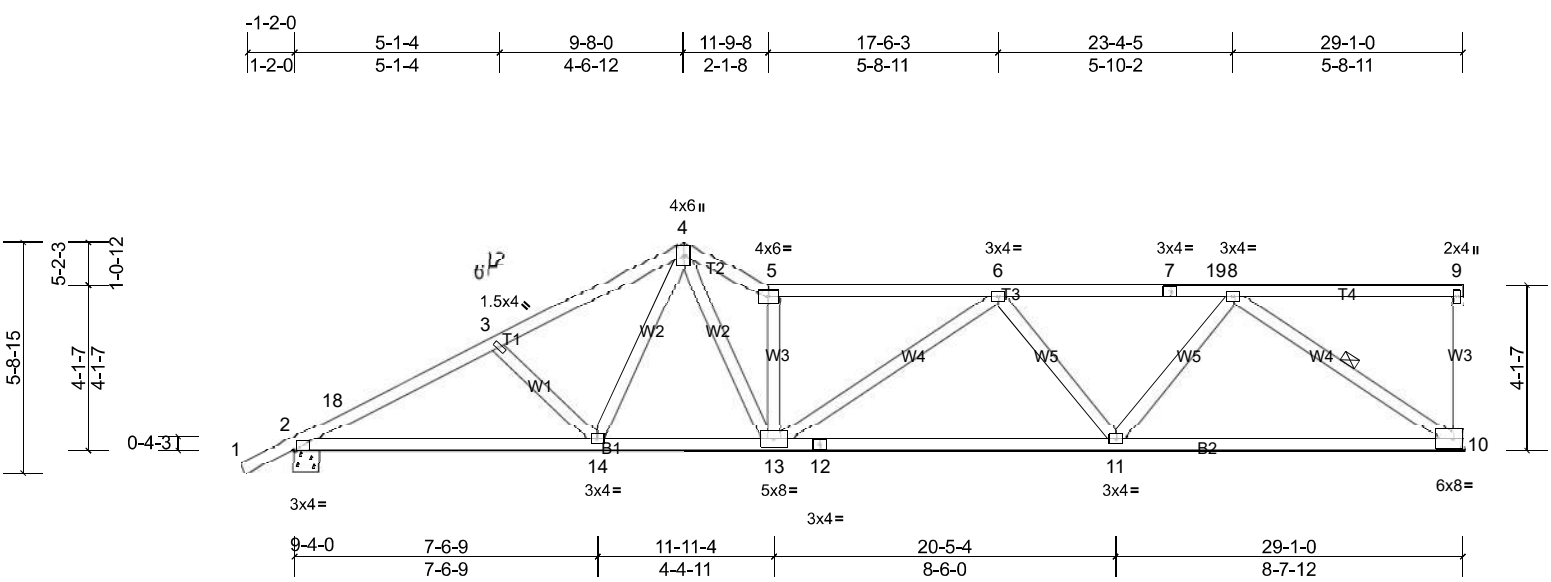


Plate Offsets (X, Y): [2:0-0-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.50	Vert(LL)	0.21	11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.88	Vert(CT)	-0.33	11-13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.07	10	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 154 lb	FT = 20%

<b>LUMBER</b>			<b>BRACING</b>		
TOP CHORD	2x4 SP No.2		TOP CHORD	Structural wood sheathing directly applied or 3-10-15 oc purlins, except end verticals.	
BOT CHORD	2x4 SP No.2		BOT CHORD	Rigid ceiling directly applied or 4-9-1 oc bracing.	
WEBS	2x4 SP No.2		WEBS	1 Row at midpt	8-10
<b>REACTIONS</b> (lb/size) 2=1013/0-7-10, (min. 0-1-8), 10=954/ Mechanical, (min. 0-1-8)					
Max Horiz 2=339 (LC 12)					
Max Uplift 2=-667 (LC 12), 10=-776 (LC 13)					
<b>FORCES</b> (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.					
TOP CHORD 2-18=-1768/1421, 3-18=-1743/1436, 3-4=-1610/1315, 4-5=-2030/1647, 5-6=-1765/1418, 6-7=-1517/1158, 7-19=-1517/1158, 8-19=-1517/1158					
BOT CHORD 2-14=-1498/1559, 13-14=-1070/1269, 12-13=-1400/1747, 11-12=-1400/1747, 10-11=-973/1142					
WEBS 3-14=-255/430, 4-14=-308/333, 4-13=-1027/1269, 5-13=-1044/905, 6-11=-378/410, 8-11=-337/652, 8-10=-1354/1157					

- 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=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-13 to 4-11-14, Zone1 4-11-14 to 9-8-0, Zone3 9-8-0 to 11-9-8, Zone1 11-9-8 to 28-11-4 zone; cantilever left exposed ;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.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 776 lb uplift at joint 10 and 667 lb uplift at joint 2.

LOAD CASE(S) Standard

Page: 1

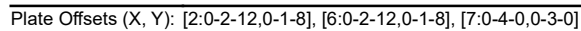
LOAD CASE(S) Standard

Maronda Homes, Sanford, user

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**LUMBER**

## BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-0-15 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-1-13 oc bracing.

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

TOP CHORD 2-14=-1057/1034, 3-14=-1037/1049, 3-4=-809/787, 4-15=-791/808, 5-15=-810/792, 5-16=-1045/1085, 6-16=-1062/1070

BOT CHORD 2-7=-825/928, 6-7=-849/935

WEBS 4-7=-459/560, 5-7=-332/522, 3-7=-335/495

## 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=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2 to 5-0-12, Zone1 5-0-12 to 9-8-0, Zone2 9-8-0 to 18-1-13, Zone1 18-1-13 to 19-4-0 zone; cantilever left exposed ;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 454 lb uplift at joint 6 and 522 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	T30	Common	2	1	Job Reference (optional)

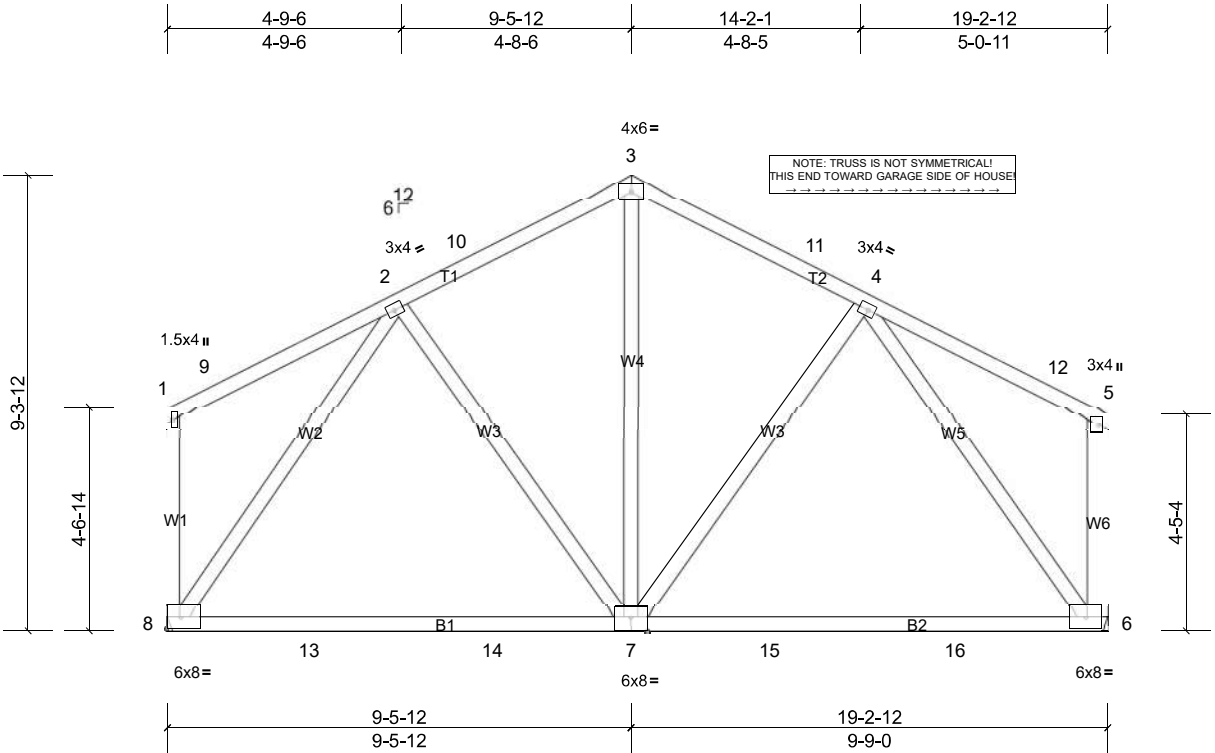


Plate Offsets (X, Y): [7:0-4-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.40	Vert(LL)	-0.21	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.34	7-8	>671	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 136 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.1D	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2 *Except* W6:2x6 SP No.2		

**REACTIONS** (lb/size) 6=622/ Mechanical, (min. 0-1-8), 8=622/ Mechanical, (min. 0-1-8)  
Max Horiz 8=-150 (LC 13)  
Max Uplift 6=-411 (LC 13), 8=-411 (LC 12)  
Max Grav 6=744 (LC 2), 8=745 (LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-10=-537/562, 3-10=-493/578, 3-11=-493/577, 4-11=-537/561  
BOT CHORD 8-13=-339/403, 13-14=-339/403, 7-14=-339/403, 7-15=-320/384, 15-16=-320/384, 6-16=-320/384  
WEBS 3-7=-243/300, 2-8=-603/542, 4-6=-585/528

- 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=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-1-12 to 6-1-12, Zone1 6-1-12 to 9-5-12, Zone2 9-5-12 to 17-11-9, Zone1 17-11-9 to 19-0-0 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.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 411 lb uplift at joint 8 and 411 lb uplift at joint 6.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	T31	Roof Special	3	1	Job Reference (optional)

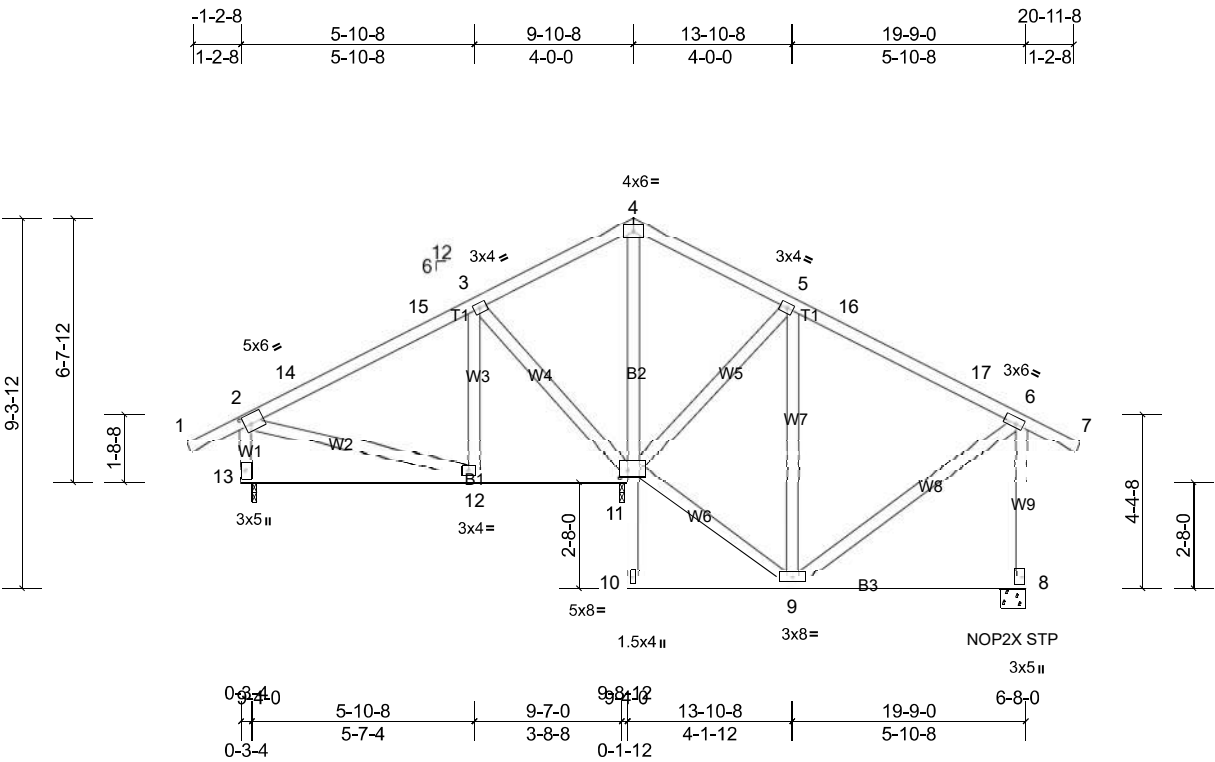


Plate Offsets (X, Y): [2:0-2-11,0-2-8], [11:0-2-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.03	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.24	Vert(CT)	-0.06	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS								
											Weight: 145 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, Except: 6-0-0 oc bracing: 9-10.

**REACTIONS** (lb/size) 8=333/0-7-8, (min. 0-1-8), 11=748/0-1-8, (min. 0-1-8), 13=333/0-1-8, (min. 0-1-8)  
Max Horiz 13=171 (LC 16)  
Max Uplift 8=-282 (LC 13), 11=-522 (LC 12), 13=-261 (LC 12)  
Max Grav 8=349 (LC 26), 11=748 (LC 1), 13=349 (LC 25)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-13=-296/445, 6-8=-298/447  
WEBS 5-11=-312/439, 3-11=-361/436

- 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=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-3-5 to 4-8-11, Zone1 4-8-11 to 9-10-8, Zone2 9-10-8 to 18-4-5, Zone1 18-4-5 to 21-0-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 at joint(s) 13, 11.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 261 lb uplift at joint 13, 522 lb uplift at joint 11 and 282 lb uplift at joint 8.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	TGRD14	Roof Special Girder	1	2	Job Reference (optional)

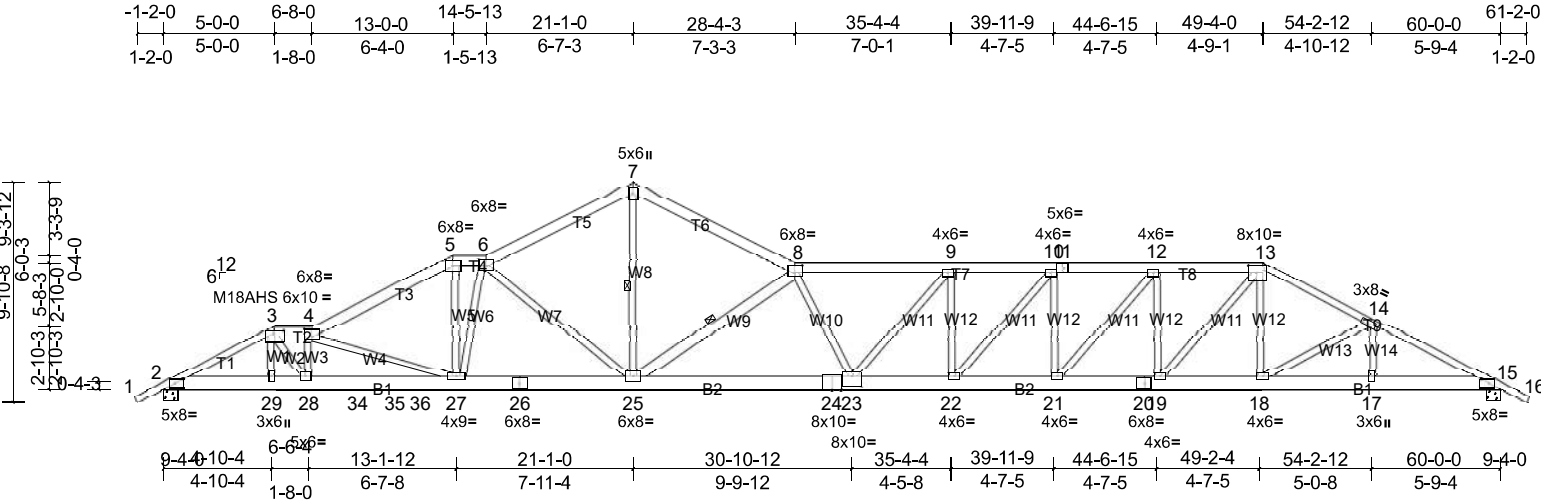


Plate Offsets (X, Y): [2:0-4-0,0-1-15], [3:0-5-0,0-1-7], [4:0-4-0,0-4-4], [6:0-4-0,0-3-8], [8:0-4-0,0-4-4], [13:0-4-4,0-4-4], [15:0-4-0,0-1-15], [23:0-5-0,0-5-12]												
<b>Loading</b>	(psf)	<b>Spacing</b>	2-0-0	<b>CSI</b>		<b>DEFL</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.74	Vert(LL)	0.98	23-25	>732	240	M18AHS	186/179
TCDL	7.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.96	23-25	>752	180	MT20	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.17	15	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 975 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x6 SP No.2 \*Except\* T1,T9:2x4 SP No.2  
BOT CHORD 2x8 SP No.1D  
WEBS 2x4 SP No.2 \*Except\* W9:2x6 SP No.2

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 3-11-6 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-10-14 oc bracing.  
WEBS 1 Row at midpt 7-25, 8-25

**REACTIONS** (lb/size) 2=3770/0-7-10, (min. 0-1-14), 15=3124/0-7-10, (min. 0-1-9)  
Max Horiz 2=292 (LC 8)  
Max Uplift 2=-3011 (LC 8), 15=-2612 (LC 9)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-8158/6494, 3-4=-9411/7528, 4-5=-7974/6279, 5-6=-7193/5755, 6-7=-6632/5419, 7-8=-6649/5367, 8-9=-11804/9786, 9-10=-10774/9023, 10-11=-9331/7849, 11-12=-9331/7849, 12-13=-7651/6490, 13-14=-6279/5266, 14-15=-6607/5478  
BOT CHORD 2-29=-5924/7274, 28-29=-5908/7255, 28-34=-7696/9599, 34-35=-7696/9599, 35-36=-7696/9599, 27-36=-7696/9599, 26-27=-5667/7549, 25-26=-5667/7549, 24-25=-9076/11457, 23-24=-9076/11457, 22-23=-8611/10774, 21-22=-7437/9331, 20-21=-6075/7649, 19-20=-6075/7649, 18-19=-4376/5582, 17-18=-4740/5881, 15-17=-4740/5881  
WEBS 3-29=-259/318, 3-28=-3146/3999, 4-28=-3045/2348, 4-27=-2641/2465, 5-27=-2424/3061, 6-27=-1500/1268, 6-25=-2126/1983, 13-18=-280/435, 14-18=-357/463, 7-25=-4391/5470, 8-25=-6794/5900, 13-19=-2521/3066, 9-22=-1482/1283, 9-23=-1433/1661, 10-22=-1776/2164, 10-21=-1803/1571, 12-21=-2042/2522, 12-19=-2197/1907, 8-23=-762/908

**NOTES**  
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x8 - 3 rows staggered at 0-7-0 oc.  
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered 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=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60  
5) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.  
6) Provide adequate drainage to prevent water ponding.  
7) All plates are MT20 plates unless otherwise indicated.  
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.  
9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.  
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3011 lb uplift at joint 2 and 2612 lb uplift at joint 15.



Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	TGRD14	Roof Special Girder	1	2	Job Reference (optional)

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 147 lb down and 246 lb up at 5-0-0 on top chord, and 162 lb down and 156 lb up at 5-0-0, 133 lb down and 163 lb up at 6-8-12, 107 lb down and 121 lb up at 8-8-12, 94 lb down and 119 lb up at 10-4-12, and 573 lb down and 340 lb up at 11-6-8, and 1821 lb down and 1611 lb up at 30-10-12 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=1.00, Plate Increase=1.00
- Uniform Loads (lb/ft)
- Vert: 1-3=-46, 3-4=-46, 4-5=-46, 5-6=-46, 6-7=-46, 7-8=-46, 8-13=-46, 13-16=-46, 2-15=-20
- Concentrated Loads (lb)
- Vert: 3=-77, 29=-162, 28=-109, 23=-1821, 34=-107, 35=-94, 36=-451

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	TGRD23	Roof Special Girder	1	1	Job Reference (optional)

Maronda Homes, Sanford, user

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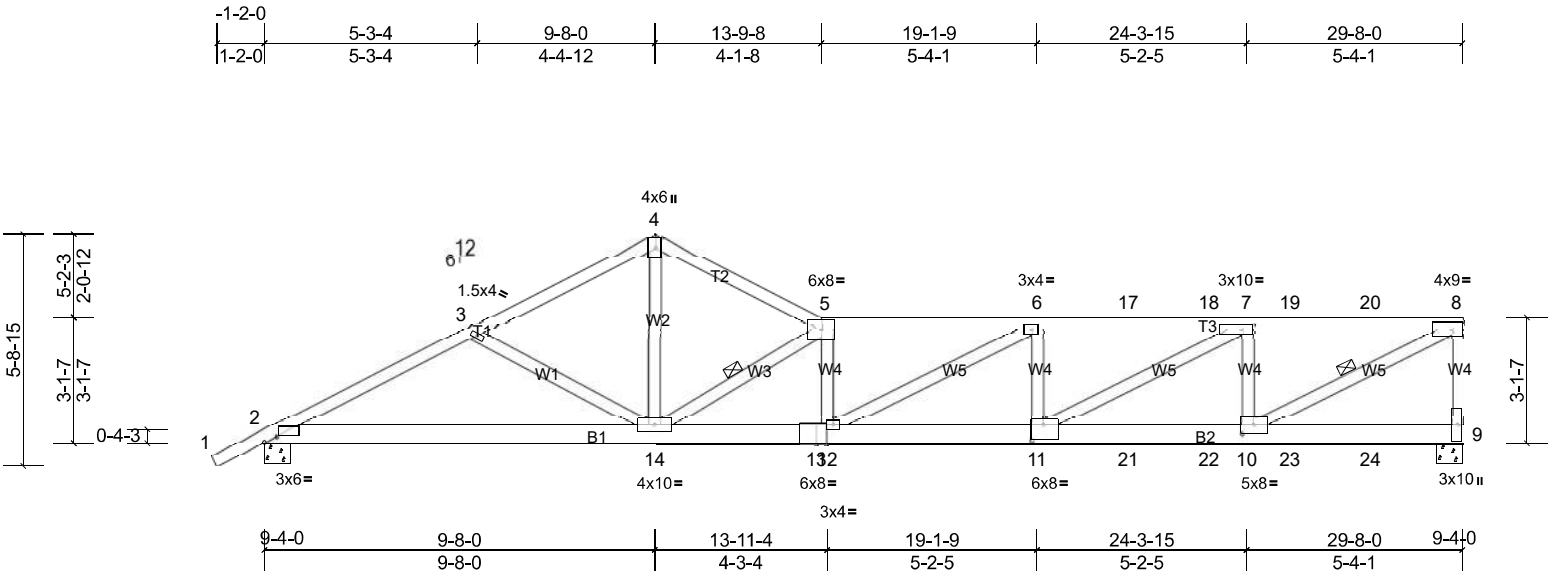


Plate Offsets (X, Y): [2:0-4-4,0-2-1], [7:0-3-8,0-1-8], [10:0-3-8,0-2-8], [11:0-3-8,0-4-4], [13:0-3-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	0.50	11-12	>703	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.48	11-12	>740	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.99	Horz(CT)	-0.08	9	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 177 lb	FT = 20%

#### LUMBER

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

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 2-5-10 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 4-0-0 oc bracing.  
WEBS 1 Row at midpt 5-14, 8-10

**REACTIONS** (lb/size) 2=1409/0-7-10, (min. 0-1-8), 9=1887/0-7-10, (min. 0-1-15)  
Max Horiz 2=299 (LC 27)  
Max Uplift 2=-1056 (LC 8), 9=-1719 (LC 9)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-2647/2018, 3-4=-2424/1920, 4-5=-2410/1887, 5-6=-4482/3719, 6-17=-5028/4338, 17-18=-5028/4338, 7-18=-5028/4338, 7-19=-3163/2851, 19-20=-3163/2851, 8-20=-3163/2851, 8-9=-1793/1691  
BOT CHORD 2-14=-1912/2347, 13-14=-3704/4466, 12-13=-3704/4466, 11-12=-4338/5028, 11-21=-2851/3163, 21-22=-2851/3163, 10-22=-2851/3163  
WEBS 5-12=-357/366, 4-14=-1484/1917, 5-14=-2812/2513, 3-14=-263/436, 8-10=-3159/3517, 6-11=-308/553, 6-12=-716/844, 7-11=-1681/2109, 7-10=-1417/1458

#### NOTES

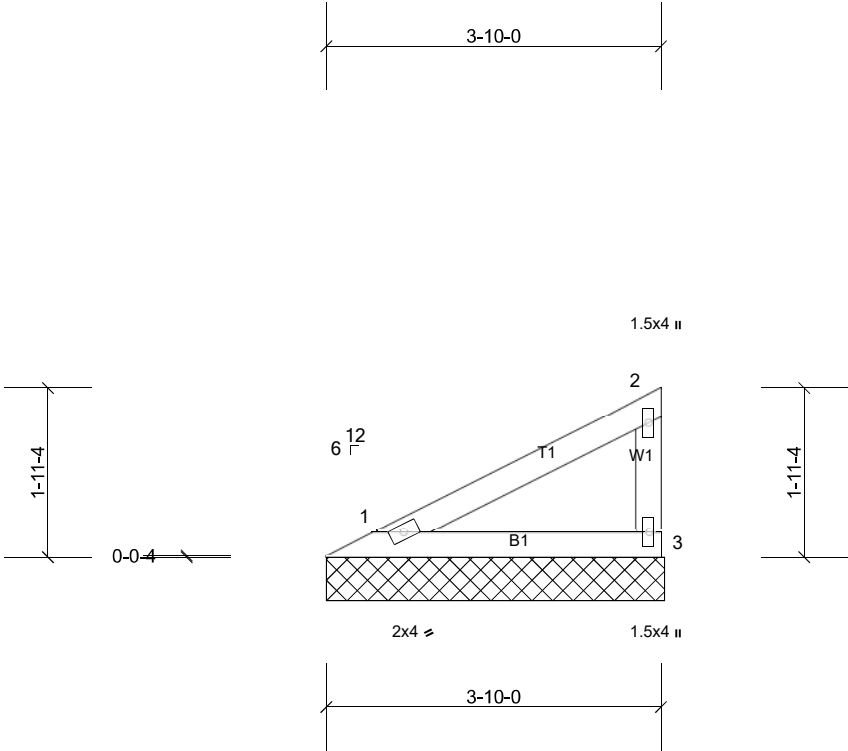
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; cantilever left exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1719 lb uplift at joint 9 and 1056 lb uplift at joint 2.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 96 lb down and 157 lb up at 21-4-12, 96 lb down and 157 lb up at 23-4-12, and 96 lb down and 157 lb up at 25-4-12, and 96 lb down and 157 lb up at 27-4-12 on top chord, and 858 lb down and 729 lb up at 19-4-12, 59 lb down and 25 lb up at 21-4-12, 59 lb down and 25 lb up at 23-4-12, and 59 lb down and 25 lb up at 25-4-12, and 59 lb down and 25 lb up at 27-4-12 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=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 1-4=-46, 4-5=-46, 5-8=-46, 2-9=-20  
Concentrated Loads (lb)  
Vert: 11=-858, 17=-64, 18=-64, 19=-64, 20=-64, 21=-44, 22=-44, 23=-44, 24=-44

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	V50	Valley	1	1	user brg
					Job Reference (optional)



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-P							Weight: 13 lb	FT = 20%

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

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 3-10-8 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

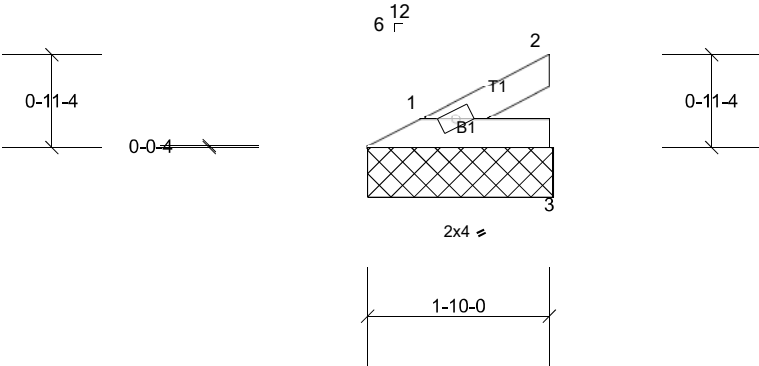
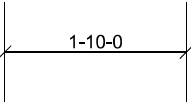
**REACTIONS** (lb/size) 1=102/3-10-8, (min. 0-1-8), 3=102/3-10-8, (min. 0-1-8)  
Max Horiz 1=111 (LC 12)  
Max Uplift 1=-60 (LC 12), 3=-116 (LC 12)

**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=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60  
2) Gable requires continuous bottom chord bearing.  
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 60 lb uplift at joint 1 and 116 lb uplift at joint 3.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	A BASE
Sienna _	V51	Valley	1	1	user brg
					Job Reference (optional)



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.00	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-P							Weight: 5 lb	FT = 20%

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

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 1=41/1-10-8, (min. 0-1-8), 2=29/1-10-8, (min. 0-1-8), 3=12/1-10-8, (min. 0-1-8)  
Max Horiz 1=45 (LC 12)  
Max Uplift 1=-24 (LC 12), 2=-50 (LC 12)  
Max Grav 1=41 (LC 1), 2=29 (LC 1), 3=25 (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=3.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 1 and 50 lb uplift at joint 2.

**LOAD CASE(S)** Standard

LOAD CASE(S) Standard