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
9FC00301	003	TBD SW CADENCE GLEN LAKE CITY, FL 32024	JAW/9FC	HRMJ42F/RH

HARMONY J 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
Layout	12/04/23		V1	12/04/23	
REACTION SUMMARY	12/04/23		V2	12/04/23	
MII web plate	2017		V3	12/04/23	
OR1	2009				
ST-4ply Screw	2012				
VC1	2009				
TN1	2009				
ST-Rep01A1	2014				
MII-PIGGY-PERP	2019				
G11F	12/04/23				
GP2	12/04/23				
GRD15F	12/04/23				
H5509PF	12/04/23				
H5511PF	12/04/23				
H5513PF	12/04/23				
H5515F	12/04/23				
H5517F	12/04/23				
H5519F	12/04/23				
HG5507PF	12/04/23				
J15APF	12/04/23				
J15F	12/04/23				
J15PF	12/04/23				
J35F	12/04/23				
J35PF	12/04/23				
J35SF	12/04/23				
J55F	12/04/23				
J55PF	12/04/23				
J75F	12/04/23				
J75PF	12/04/23				
JGR35PF	12/04/23				
JGR55F	12/04/23				
JGR75F	12/04/23				
JGR75PF	12/04/23				
MGRD01	12/04/23		INV #	DESC	QNTY
T12F	12/04/23		050060.0110	JUS26	
T13F	12/04/23		050060.0047	THD28	
T14F	12/04/23		050060.0049	THD28-2	
			050060.0106	HUS26	
			050060.0272	HUS179	
			050060.0058	HJC26	2
			050060.0312	HJC26-SK60	
			SEAT PLATES		
			FLOOR SEAT PLATES		

No. of Eng. Dwgs: **40**

Roof Loads-

TC Live:	16.0 psf
TC Dead:	7.0 psf
BC Live:	0.0 psf
BC Dead:	10.0 psf
Total	33.0 psf
DurFac- Lbr:	1.25
DurFac- Plt:	1.25
O.C. Spacing:	24.0"

Floor Loads-

TC Live:	40.0 psf
TC Dead:	10.0 psf
BC Live:	0.0 psf
BC Dead:	5.0 psf
Total	55.0 psf
DurFac- Lbr:	1.00
DurFac- Plt:	1.00
O.C. Spacing:	24.0"

WWW.FDSENG.COM
FDS ENGINEERING ASSOCIATES
258 Southhall Lane, Suite 200
Maitland, FL 32751
O: 321-972-0491 F: 407-880-2304
Certificate Of Authorization No. 9161
☐ CARL A. BROWN, PE - FL # 56126
☐ LUIS JOSE BURGOS PASADO, PE -FL #92724
☐ SCOTT A. LEWKOWSKI, PE - FL # 78750

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

9-3-24 Signing Date: 09/09/2024

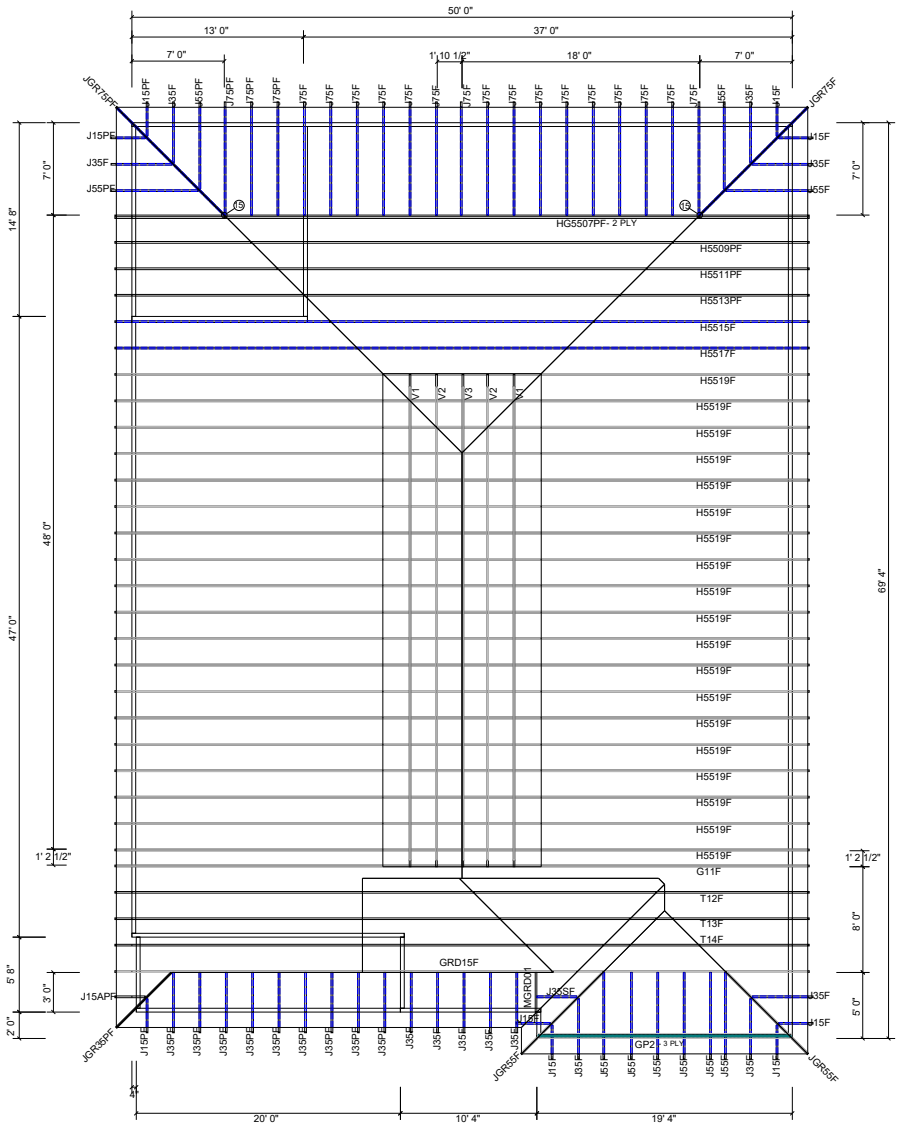
TO THE BEST OF THE ENGINEER'S KNOWLEDGE AND UNDERSTANDING, THE STRUCTURAL PLANS AND SPECIFICATIONS COMPLY WITH THE FLORIDA BUILDING CODE SIGNED AND SEALED FOR THE STRUCTURAL PORTION OF THIS DRAWING.

		EXPOSURE	
TC LIVE	16.000 lb/ft²	SNOW LOAD	0.00
TC DEAD	7.000 lb/ft²	LUMBER DOL	1.25
BC LIVE	0.000 lb/ft²	PLATE DOL	1.25
BC DEAD	10.000 lb/ft²	WIND	140.0 mph Vasd=108.0 mph
TOTAL	33.0 lb/ft²	SPACING	24" O.C.

GENERAL TRUSS NOTES:

1. INFORMATION BASED ON 140.0 MPH WIND LOAD. ALL PRESSURES WERE CALCULATED USING MWFRS/C-C HYBRID WIND ASCE 7-16.
2. PROVIDE TRUSS BRACING PER TRUSS ENGINEERING AND BCSI I-03.

TRUSS PLACEMENT PLAN



HARMONY "J" BASE

(ADD GP2)

MARONDA Homes

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

Page 1 of 1

CUSTOMER:Maronda Systems

Model: HARMONY

ELEVATION: J BASE

DRAWN BY:

RELEASE DATE: 12-04-23

GARAGE: RIGHT

WWW.FDSENG.COM

FDS ENGINEERING ASSOCIATES

258 Southhall Lane, Suite 200
Maitland, FL 32751

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

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

9-3-24

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

TEMPLATE REVISION DATE 11/16/23: CDH

Page 1 of 1

MARONDA HOMES INC. of
4005 MARONDA WAY
SANFORD, FL. 32771
(407) 321-9877 Fax: (407) 688-8522

Project: Harmony J Frame
Model: Base
Block No:
Lot No:

Contact:	Site:	Office:
Name:		
Phone:		
Fax:		

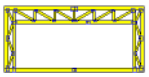
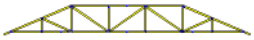
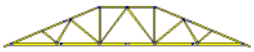
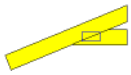
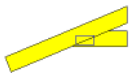
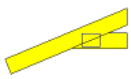
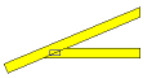
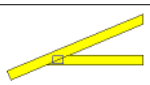
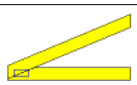
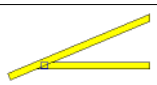
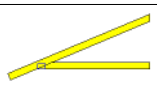
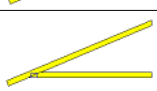
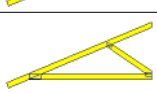
To:
Valued Customer
,

Deliver To:

Reaction

Job Number: **B2300036**
Page: 1
Date: 12/04/23 15:27:24

Account No: 000000001
Designer:
Estimator:
Salesperson: Inside Sales
Quote Number: B2300036
P.O. Number: 000

	Qty:	Truss Id:	Span:	Truss Type:	Slope	Reactions:
	1	**G11F**	**50-00-00**	HIP	**5.00**	Joint 2 1706.25 -736.49 Joint 19 1706.25 -736.49
	1	**GP2**	**18-00-08**	ROOF SPECIAL	**0.00**	Joint 18 3636.36 -3378.14 Joint 20 706.76 -636.77 Joint 21 2102.21 -2126.93 Joint 24 1983.43 -1724.31
	1	**GRD15F**	**50-00-00**	ROOF SPECIAL	**5.00**	Joint 2 283.18 -339.01 Joint 24 1063.21 -540.11 Joint 36 3948.66 -1864.05
	1	**H5509PF**	**50-00-00**	HIP	**5.00**	Joint 2 107.63 -239.04 Joint 12 1094.54 -555.83 Joint 18 2355.70 -1307.94
	1	**H5511PF**	**50-00-00**	HIP	**5.00**	Joint 2 102.36 -278.71 Joint 10 1085.85 -555.47 Joint 18 2402.66 -1280.41
	1	**H5513PF**	**50-00-00**	HIP	**5.00**	Joint 2 78.47 -192.01 Joint 10 1240.61 -568.86 Joint 18 2630.62 -1173.05
	1	**H5515F**	**50-00-00**	HIP	**5.00**	Joint 2 1930.44 -742.09 Joint 10 1927.36 -742.09
	1	**H5517F**	**50-00-00**	HIP	**5.00**	Joint 2 1924.26 -739.57 Joint 10 1924.26 -739.57
	19	**H5519F**	**50-00-00**	HIP	**5.00**	Joint 2 1948.56 -736.63 Joint 12 1948.56 -736.63
	1	**HG5507PF**	**50-00-00**	HIP GIRDER	**5.00**	Joint 2 100.70 -525.17 Joint 11 2136.71 -1108.09 Joint 18 5145.64 -2957.11
	1	**J15APF**	**01-00-00**	JACK-OPEN	**5.00**	Joint 2 186.65 -164.14 Joint 3 34.66 -27.11 Joint 4 51.11 -38.12
	6	**J15F**	**01-00-00**	JACK-OPEN	**5.00**	Joint 2 123.66 -108.75 Joint 3 8.15 -1.18 Joint 4 22.23 -5.38
	3	**J15PF**	**01-00-00**	JACK-OPEN	**5.00**	Joint 2 123.66 -121.54 Joint 3 6.68 -5.43 Joint 4 17.98 -5.37
	12	**J35F**	**03-00-00**	JACK-OPEN	**5.00**	Joint 2 164.89 -93.62 Joint 3 53.56 -55.98 Joint 4 49.85
	9	**J35PF**	**03-00-00**	JACK-OPEN	**5.00**	Joint 2 164.89 -129.60 Joint 3 53.56 -55.98 Joint 4 49.85 -23.96
	1	**J35SF**	**03-00-00**	JACK-OPEN	**5.00**	Joint 1 96.95 -35.38 Joint 2 59.09 -61.44 Joint 3 51.74 -3.22
	8	**J55F**	**05-00-00**	JACK-OPEN	**5.00**	Joint 2 226.15 -113.55 Joint 3 98.21 -105.04 Joint 4 87.64
	2	**J55PF**	**05-00-00**	JACK-OPEN	**5.00**	Joint 2 226.15 -161.60 Joint 3 98.21 -105.05 Joint 4 87.65 -41.93
	16	**J75F**	**07-00-00**	JACK-OPEN	**5.00**	Joint 2 290.14 -136.18 Joint 3 141.59 -152.84 Joint 4 124.98
	3	**J75PF**	**07-00-00**	JACK-OPEN	**5.00**	Joint 2 291.97 -198.40 Joint 4 19.38 -45.18 Joint 5 204.02 -154.50

MARONDA HOMES INC. of
4005 MARONDA WAY
SANFORD, FL. 32771
(407) 321-9877 Fax: (407) 688-8522

Project: Harmony J Frame — Block No:
Model: Base — Lot No:

Contact:	Site:	Office:
Name:		
Phone:		
Fax:		

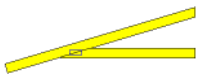
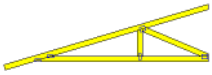
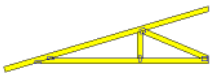
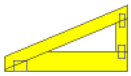
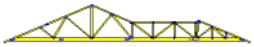
To:
Valued Customer
,

Deliver To:

Reaction

Job Number: **B2300036**
Page: 2
Date: 12/04/23 15:27:28

Account No: 000000001
Designer:
Estimator:
Salesperson: Inside Sales
Quote Number: B2300036
P.O. Number: 000

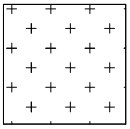
	Qty:	Truss Id:	Span:	Truss Type:	Slope	Reactions:
	1	**JGR35PF**	**04-01-07**	DIAGONAL HIP	**3.54**	Joint 2: 192.46, -171.25 — Joint 3: 49.67, -52.16 — Joint 4: 56.48
	2	**JGR55F**	**06-11-06**	DIAGONAL HIP	**3.54**	Joint 2: 252.93, -222.90 — Joint 3: 128.22, -133.40 — Joint 4: 124.80
	1	**JGR75F**	**09-09-05**	DIAGONAL HIP	**3.54**	Joint 2: 411.20, -276.31 — Joint 4: 79.53, -87.39 — Joint 5: 323.57, -137.85
	1	**JGR75PF**	**09-09-05**	DIAGONAL HIP	**3.54**	Joint 2: 411.20, -424.47 — Joint 4: 79.53, -88.25 — Joint 5: 323.57, -312.15
	1	**MGRD01**	**03-00-00**	JACK-OPEN	**5.00**	Joint 1: 142.83, -65.06 — Joint 3: 122.50, -79.52
	1	**T12F**	**50-00-00**	ROOF SPECIAL	**5.00**	Joint 2: 1883.59, -638.52 — Joint 15: 1879.56, -815.92
	1	**T13F**	**50-00-00**	ROOF SPECIAL	**5.00**	Joint 2: 1703.33, -638.52 — Joint 13: 1703.33, -815.92
	1	**T14F**	**50-00-00**	ROOF SPECIAL	**5.00**	Joint 2: 480.70, -280.14 — Joint 11: 784.25, -396.05 — Joint 19: 2707.35, -1021.83
	2	**V1**	**36-00-04**	JACK-CLOSED	**5.00**	Joint 1: 58.46, -27.24 — Joint 15: 41.82, -28.53 — Joint 16: 56.98 — Joint 17: 175.71, -156.36 — Joint 18: 66.30
	2	**V2**	**36-00-04**	JACK-CLOSED	**5.00**	Joint 1: 34.54 — Joint 14: 41.89, -28.60 — Joint 15: 56.99 — Joint 16: 175.61, -156.25 — Joint 17: 66.30
	1	**V3**	**36-00-04**	HALF HIP	**5.00**	Joint 1: 36.95 — Joint 14: 41.94, -28.65 — Joint 15: 56.99 — Joint 16: 175.52, -156.16 — Joint 17: 66.30

JANUARY 17, 2017	MISSING PLATE REPAIR DETAIL	MII WEB PLATE

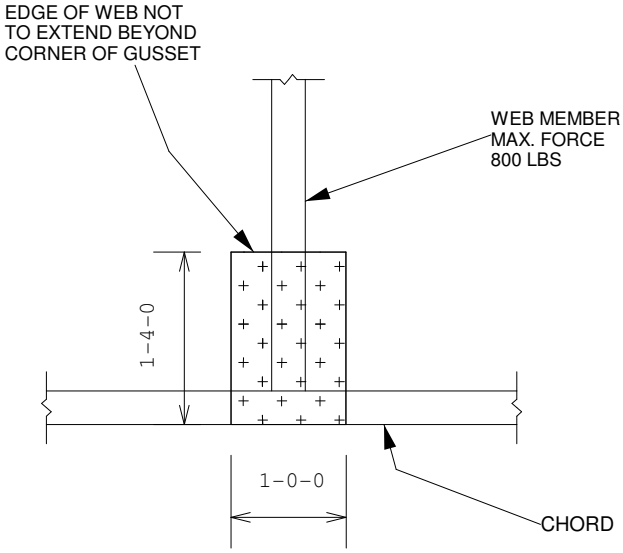
MiTek USA, Inc.

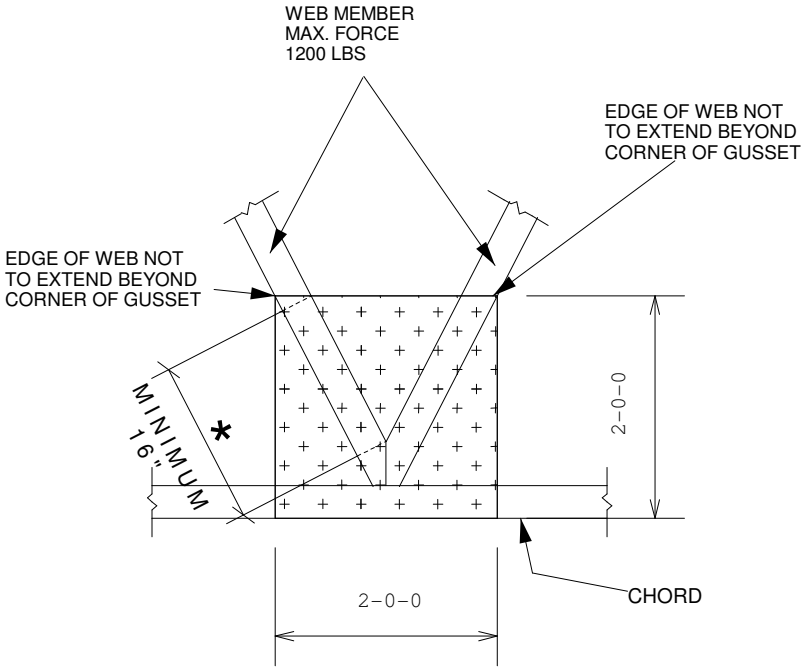
ENGINEERED BY TRENCO
A MiTek Affiliate

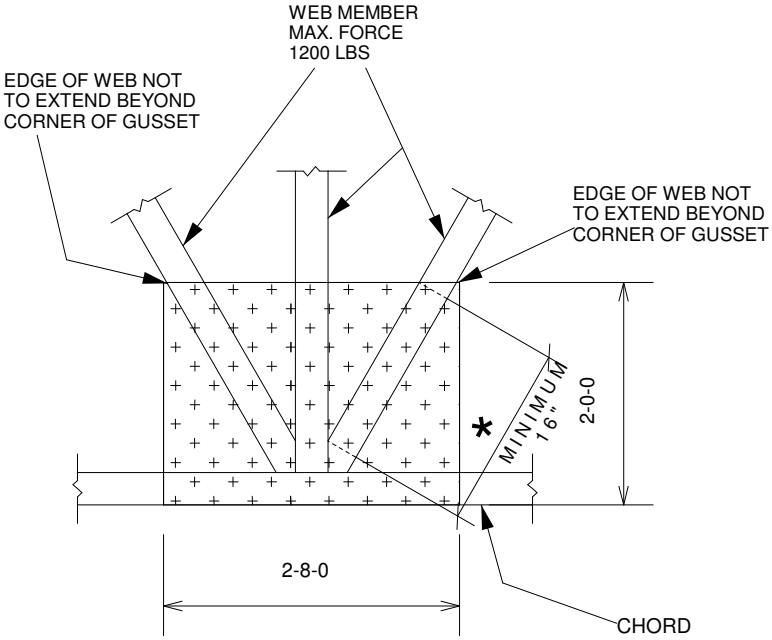
1. ALL MATERIAL IS 2x4
2. THIS DETAIL IS APPLICABLE FOR DESIGNS WITH DOLS. OF 1.15 OR 1.25 AND LUMBER SPECIES SP, DF, HF, OR SPF.
3. DETAIL SHALL BE USED FOR CONDITIONS OF A MISSING OR LOOSE CONNECTOR PLATE ONLY.
4. CHORD MATERIAL IS CONTINUOUS THROUGH JOINT, THERE IS NO MAXIMUM CHORD FORCE AND NO SPLICE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



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

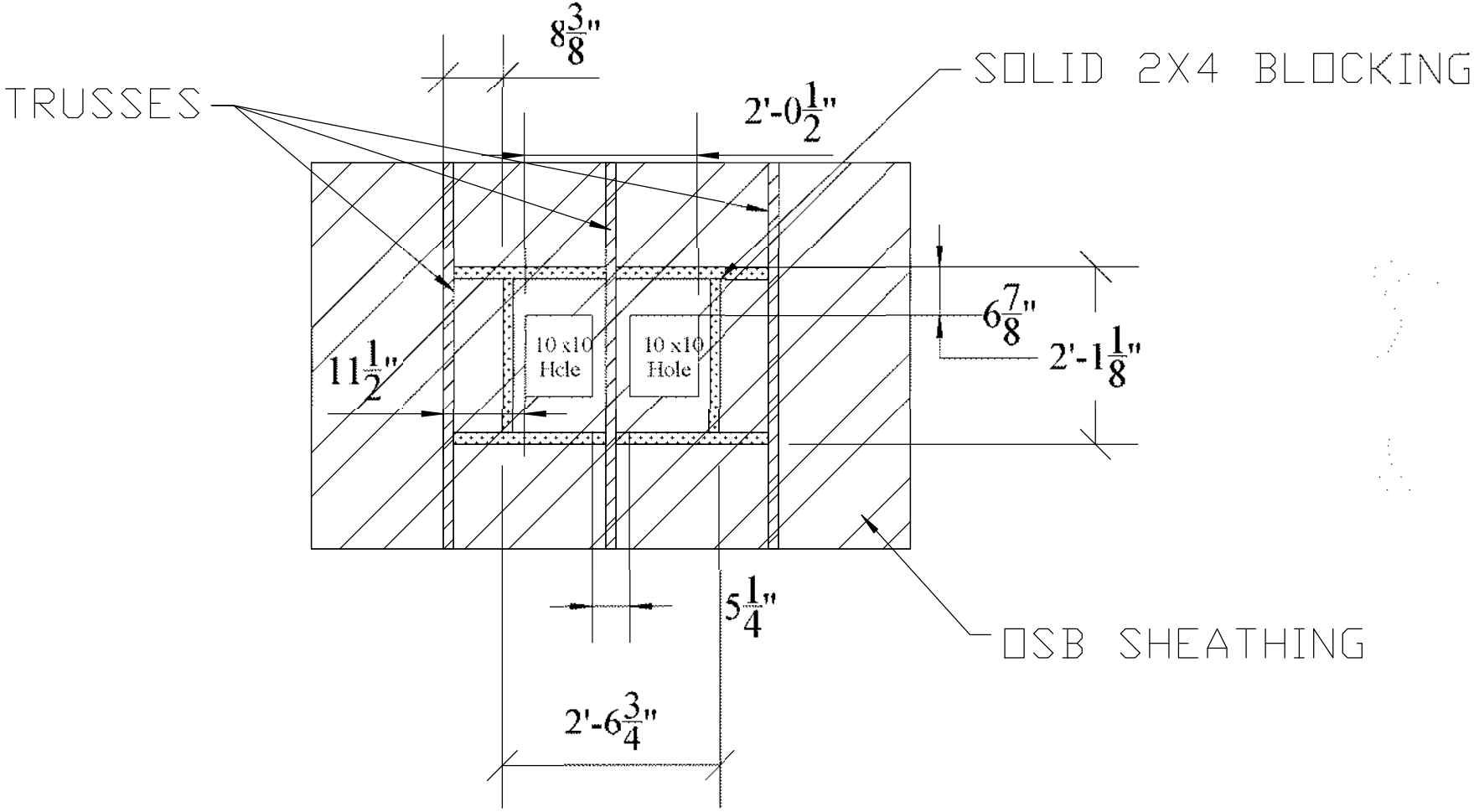






* MEASUREMENT TAKEN AT POINTS WHERE WEB ACHIEVES FULL MEMBER DEPTH (AS MEASURED PERPENDICULAR TO WEB'S SAW-MILLED EDGE)

OFF-RIDGE INSTALLATION



LAMANCO OFF RIDGE VENT FRAMING DETAIL

Maronda Homes

TRUSS DETAILS

OFF-RIDGE INSTALLATION

DRAWN BY: J.FESSIA

RELEASE DATE: 12/9/09

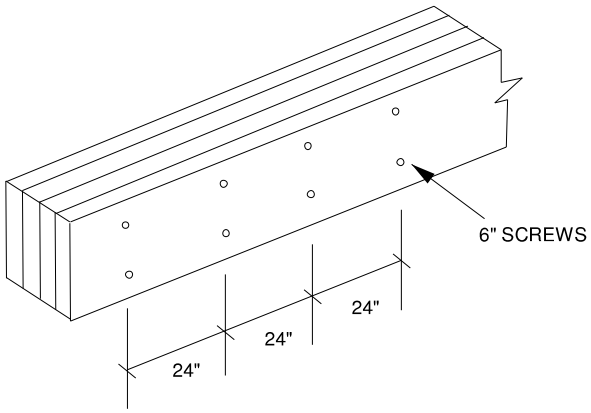
SHEET:

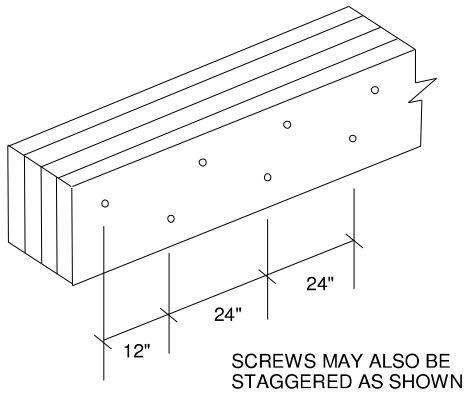
OR1

FLORIDA RESIDENTIAL

MiTek USA, Inc.

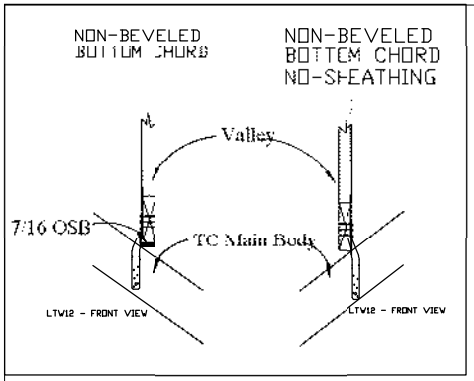
Four ply girder trusses are to be connected together using the nailing or screw schedule provided by Mitek 20/20 software. In addition to the nailing typically specified, 1/2" dia. bolts are sometimes specified throughout certain chords as indicated on the truss design drawing. In lieu of these bolts, the following wood screws may be used: USP WS6, MiTek Trusslok 6", or equivalent.
These screws are to be installed in two rows spaced 24"o.c. in 2x 6 and larger chords (use one row in 2x 4 chords) as shown in the detail below.
These connections are intended to provide clamping force to aid in allowing the four ply assembly to act as a unit and are not included in the calculation of ply to ply load transfer.





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

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



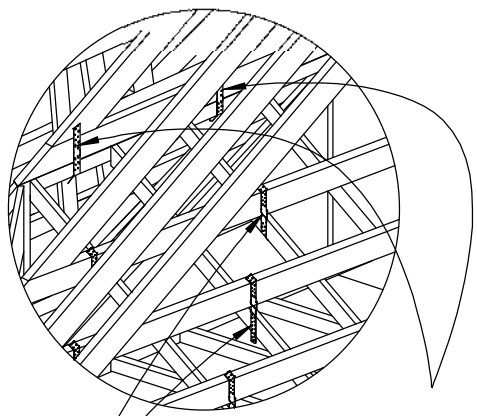
VALLEY CONNECTIONS

(ELEMENTS NOT SHOWN FOR CLARITY)

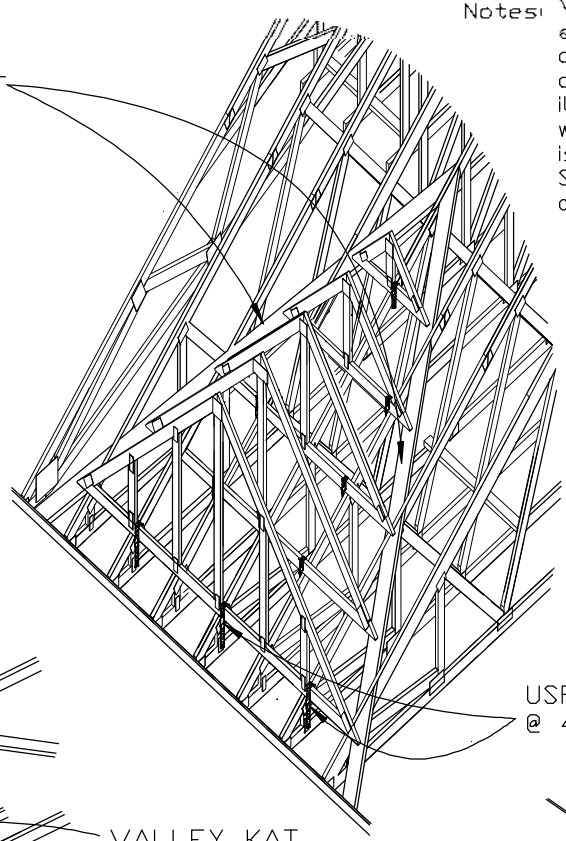
Notes:

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

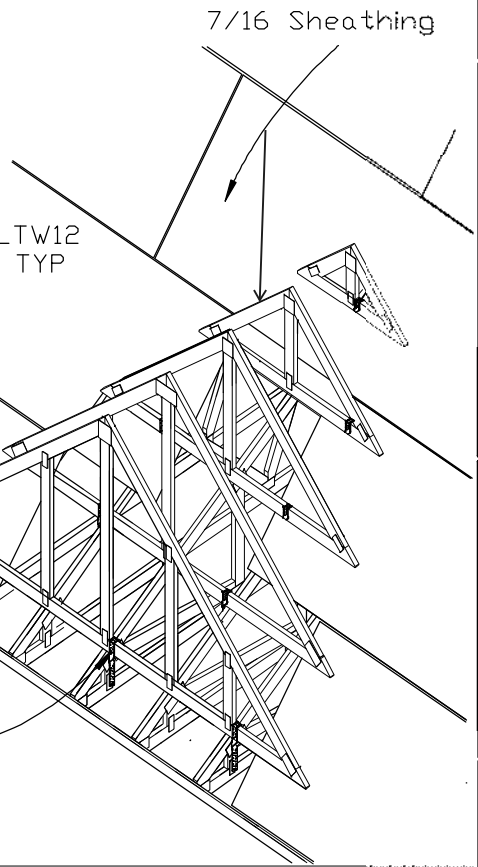
Main body trusses 2'OC perpendicular to valley is considered to be continuous bearing. If sheathing exists under valleys, Sheathing is not required to be continuous See NON BEVELED BOTTOM CHORD Detail

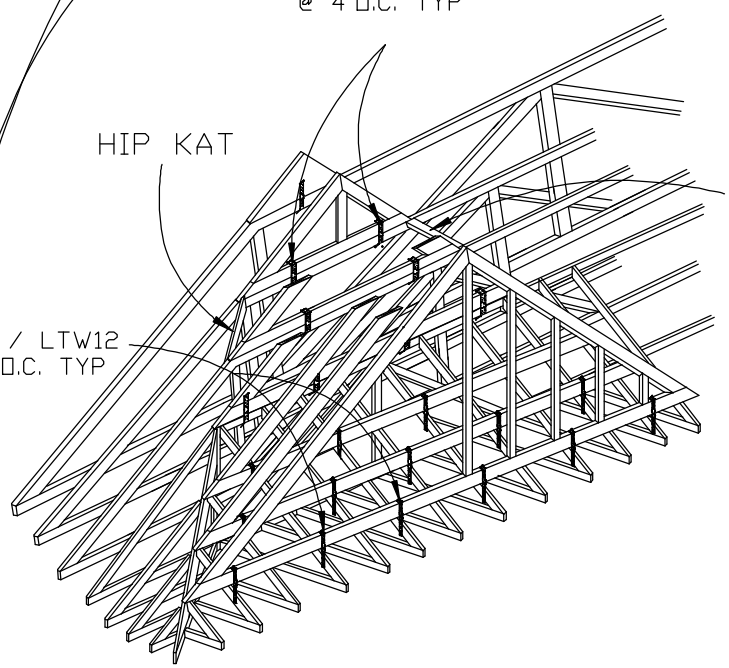


USP / MSTA12
@ 4'O.C. TYP



USP / LTW12
@ 4'O.C. TYP





USP / LTW12
@ 4'O.C. TYP

REVISIONS

Maronda Homes

TRUSS DETAILS

VALLEY CONNECTIONS

DRAWN BY: J.FESSIA

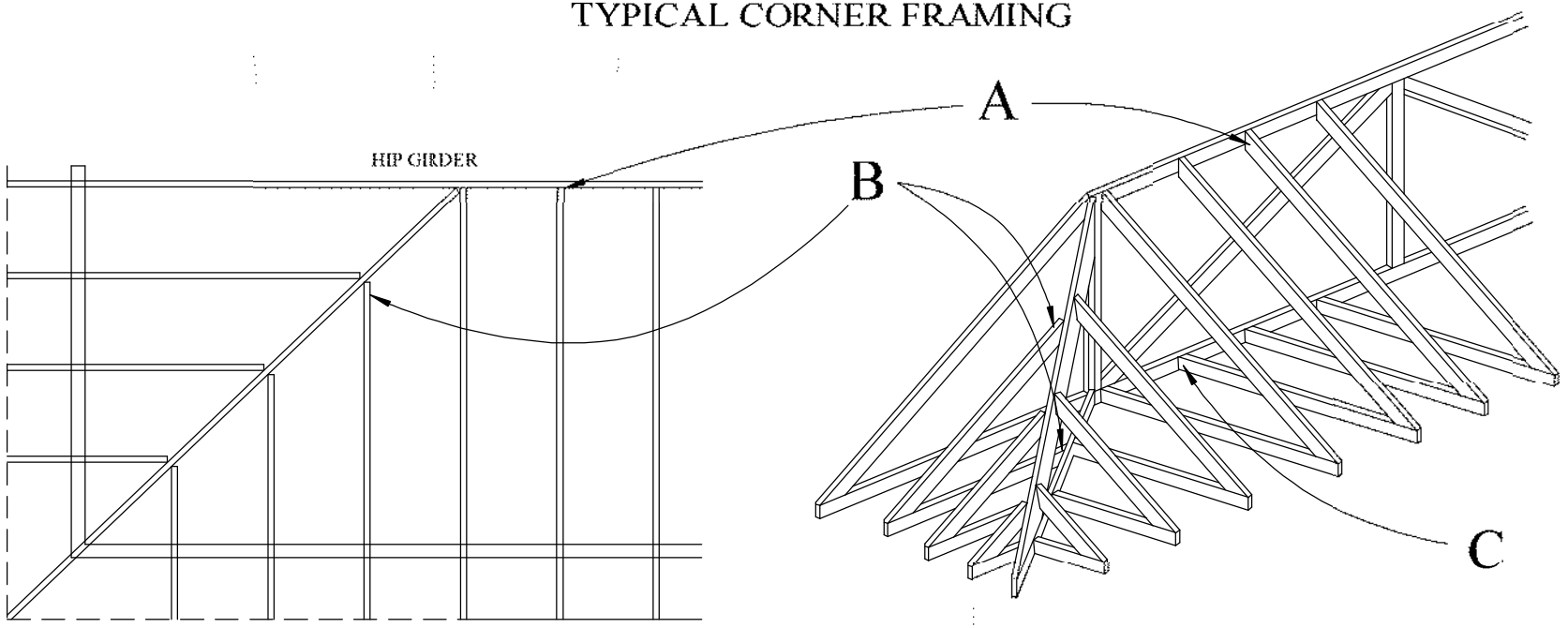
RELEASE DATE: 12/7/09

SHEET:

VC1

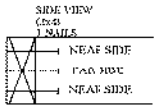
TOE-NAILED CONNECTIONS AT BEARING LOCATIONS

TYPICAL CORNER FRAMING

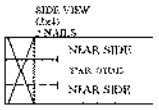


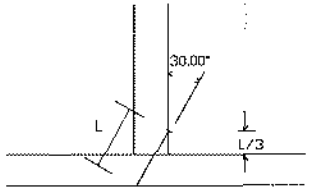
90 DEGREE ANGLE/SQUARE CUT

Connection at A



Connection at C

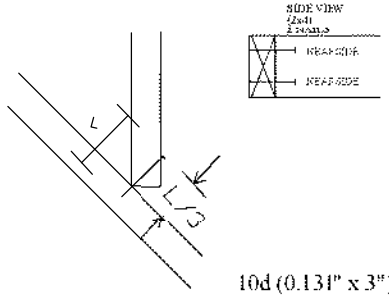




10d (0.131" x 3") nails

45 DEGREE ANGLE / SQUARE CUT

Connection at B



10d (0.131" x 3") nails

CONNECTION VALUES:

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

Wind loading: Basic wind speed is 160 MPH ULT (124 ASD).
Exposure category B or C.
Occupancy category II
4.8 psf top chord dead load.
4.2 psf bottom chord dead load.
25' roof height.
MWFRS gable end zone.
Enclosed building (Cond. I)
FBCR-10,TPI-07, ASCE 7-10
Duration of load is 1.60
L= NAIL LENGTH

Marcela Homes

TRUSS DETAILS

TOE-NAILED CONNECTIONS

DRAWN BY: GARAGE

BLD-ASD DATE: 2/9/09

SHEET:

TN1

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

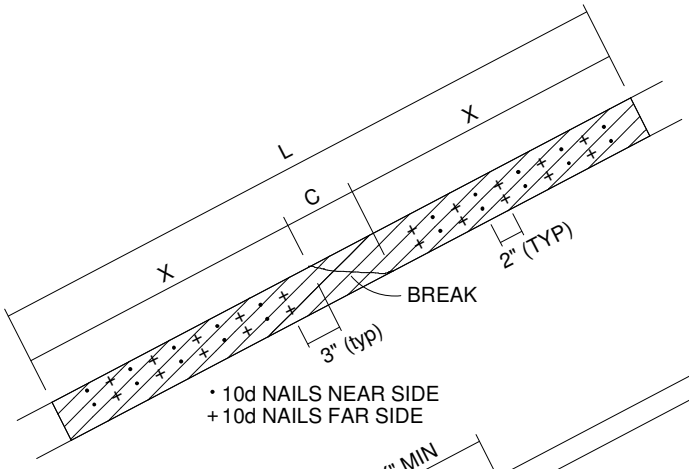
MiTek USA, Inc.

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

* DIVIDE EQUALLY FRONT AND BACK

ATTACH 2x_ SCAB OF THE SAME SIZE AND GRADE AS THE BROKEN MEMBER TO EACH FACE OF THE TRUSS (CENTER ON BREAK OR SPLICE) WITH 10d NAILS (TWO ROWS FOR 2x4, THREE ROWS FOR 2x6) SPACED 4" O.C. AS SHOWN.(.131"dia. x 3") STAGGER NAIL SPACING FROM FRONT FACE AND BACK FACE FOR A NET 0-2-0 O.C. SPACING IN THE MAIN MEMBER. USE A MIN. 0-3-0 MEMBER END DISTANCE.

THE LENGTH OF THE BREAK (C) SHALL NOT EXCEED 12". (C=PLATE LENGTH FOR SPLICE REPAIRS)
THE MINIMUM OVERALL SCAB LENGTH REQUIRED (L) IS CALCULATED AS FOLLOWS:
L = (2) X + C



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

DO NOT USE REPAIR FOR JOINT SPLICES

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

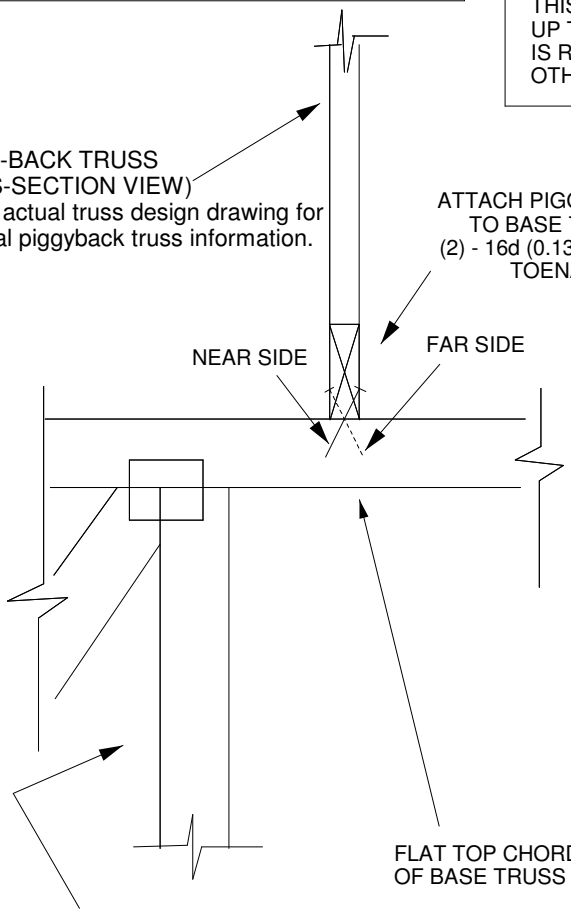
APRIL 12, 2019	STANDARD PIGGYBACK TRUSS CONNECTION DETAIL (PERPENDICULAR)	MII-PIGGY-PERP.

MiTek USA, Inc.
ENGINEERED BY TRENCO
A MiTek Affiliate

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 TRANSFERING 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.



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	J BASE
HARMONY FRAME	G11F	Hip Structural Gable	1	1	Job Reference (optional)

Maronda Homes, Sanford, user — Run: 8.72 S Nov 2 2023 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Tue Aug 27 15:21:28 — Page: 1

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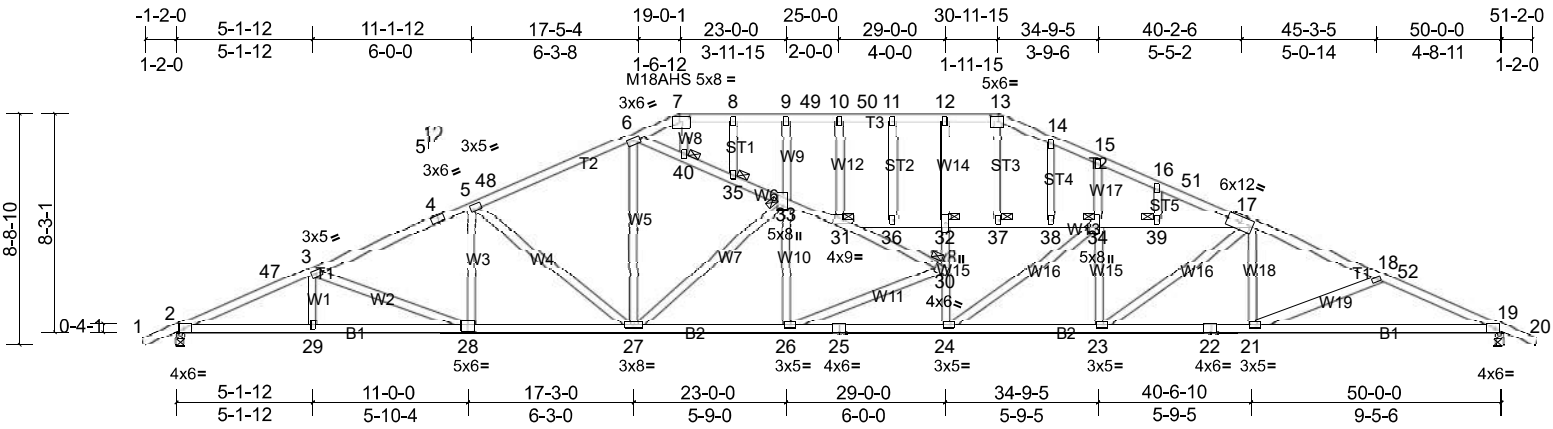

Plate Offsets (X, Y): [7:0-4-8,0-2-0], [13:0-3-8,0-2-4], [17:0-5-8,0-3-0], [28:0-3-0,0-3-0], [33:0-3-0,0-2-8], [34:0-2-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.75	Vert(LL)	0.58	24-26	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.77	Vert(CT)	-0.87	24-26	>691	180	M18AHS	186/179
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.23	19	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 349 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.1D *Except* B2:2x4 SP No.2
WEBS	2x4 SP No.2 *Except* W6,W13:2x4 SP No.1D
OTHERS	2x4 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 2-3-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 5-3-1 oc bracing.
JOINTS	1 Brace at Jt(s): 30, 31, 32, 33, 34, 35, 37, 39, 40

REACTIONS (lb/size) 2=1706/0-3-8, (min. 0-1-12), 19=1706/0-3-8, (min. 0-1-12)
Max Horiz 2=-199 (LC 13)
Max Uplift 2=-736 (LC 12), 19=-736 (LC 13)

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

TOP CHORD 2-47=-3837/1562, 3-47=-3782/1570, 3-4=-3415/1380, 4-5=-3319/1391, 5-48=-2857/1212, 6-48=-2781/1228, 6-7=-2235/1044, 7-8=-2177/1025, 8-9=-2177/1025, 9-49=-2177/1025, 10-49=-2177/1025, 10-50=-2179/1025, 11-50=-2179/1025, 11-12=-2179/1025, 12-13=-2180/1025, 13-14=-2352/1079, 14-15=-2341/1039, 15-16=-2370/998, 16-51=-2372/979, 17-51=-2422/970, 17-18=-3531/1422, 18-52=-3749/1627, 19-52=-3798/1615

BOT CHORD 2-29=-1556/3506, 28-29=-1556/3506, 27-28=-1269/3104, 26-27=-982/2834, 25-26=-937/2843, 24-25=-937/2843, 23-24=-1082/3031, 22-23=-1131/3197, 21-22=-1131/3197, 19-21=-1410/3487

WEBS 6-40=-660/449, 35-40=-438/347, 33-35=-496/386, 31-33=-700/420, 30-31=-310/260, 31-36=-545/238, 32-36=-545/238, 32-37=-615/278, 37-38=-614/277, 34-38=-614/277, 34-39=-851/547, 17-39=-849/546, 6-27=-242/778, 24-30=-109/357, 30-32=-118/449, 27-33=-409/178, 3-28=-431/305, 5-28=-33/376, 5-27=-676/435, 17-21=-14/375, 24-34=-364/332, 23-34=-14/304, 18-21=-292/308, 13-37=-243/578, 7-40=-272/564

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-11 to 3-9-5, Zone1 3-9-5 to 19-0-1, Zone2 19-0-1 to 26-0-14, Zone1 26-0-14 to 30-11-15, Zone2 30-11-15 to 38-0-13, Zone1 38-0-13 to 51-2-11 zone; cantilever left exposed ;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 MT20 plates unless otherwise indicated.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
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 736 lb uplift at joint 2 and 736 lb uplift at joint 19.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	J BASE
HARMONY FRAME	GP2	Roof Special Girder	1	3	Job Reference (optional)

Maronda Homes, Sanford, user — Run: 8.72 S Nov 2 2023 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Tue Aug 27 15:21:30 — Page: 1

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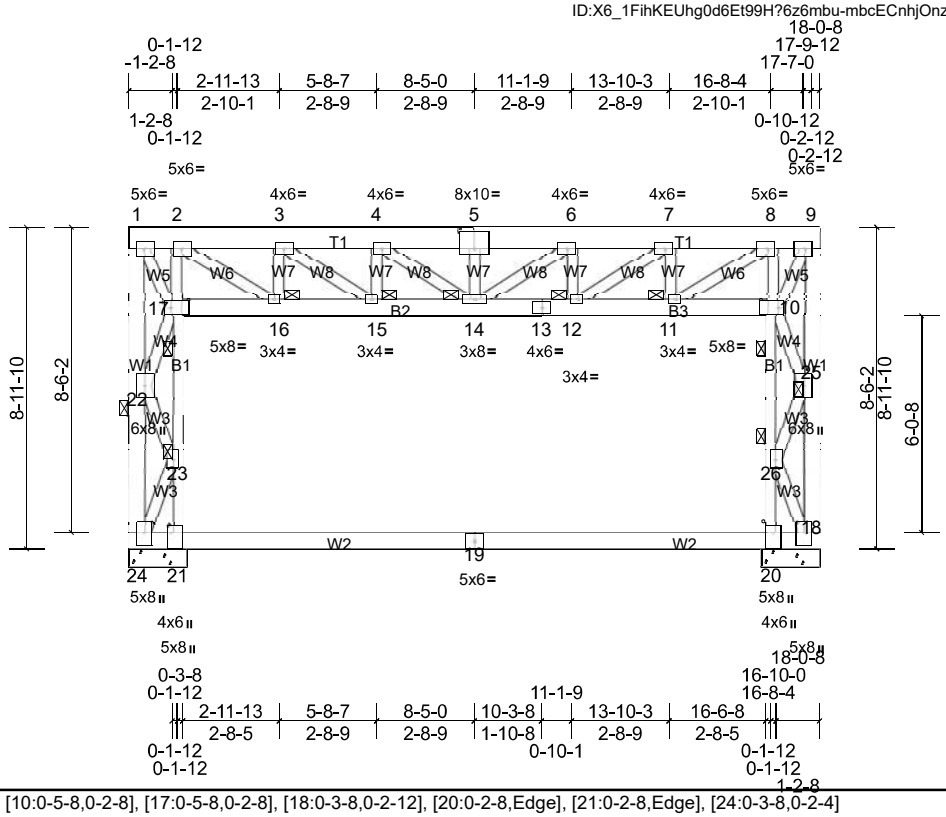

Plate Offsets (X, Y): [5:0-5-0,0-6-0], [10:0-5-8,0-2-8], [17:0-5-8,0-2-8], [18:0-3-8,0-2-12], [20:0-2-8,Edge], [21:0-2-8,Edge], [24:0-3-8,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.13	Vert(LL)	0.05	14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.21	Vert(CT)	-0.06	14	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.21	Horz(CT)	-0.01	18	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 791 lb	FT = 20%

LUMBER

TOP CHORD	2x8 SP No.2
BOT CHORD	2x4 SP No.2 *Except* B2,B3:2x6 SP No.2
WEBS	2x4 SP No.2 *Except* W1,W2:2x6 SP No.2

REACTIONS All bearings 1-7-8.

(lb) - Max Horiz 24=799 (LC 31)

Max Uplift All uplift 100 (lb) or less at joint(s) except 18=-3379 (LC 27), 20=-637 (LC 25), 21=-2127 (LC 27), 24=-1725 (LC 24)

Max Grav All reactions 250 (lb) or less at joint(s) except 18=3637 (LC 28), 20=707 (LC 30), 21=2103 (LC 28), 24=1984 (LC 1)

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 6-0-0 oc bracing: 20-26, 8-26, 21-23, 2-23
WEBS	1 Row at midpt 9-18
JOINTS	1 Brace at Jt(s): 22, 23, 26, 16, 11, 15, 14, 12

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

TOP CHORD	1-2=-369/389, 2-3=-2040/1514, 3-4=-3623/2255, 4-5=-4123/2553, 5-6=-4123/2590, 6-7=-3606/2309, 7-8=-2013/1579, 8-9=-377/427, 18-25=-2140/2000, 9-25=-581/800
BOT CHORD	20-26=-953/883, 10-26=-2556/2180, 8-10=-2611/2198, 21-23=-2055/2080, 17-23=-2236/1820, 2-17=-2525/1912, 16-17=-1413/1384, 15-16=-1657/1869, 14-15=-2307/3150, 13-14=-2191/3133, 12-13=-1684/3133, 11-12=-1494/1741, 10-11=-1372/1212
WEBS	21-24=-721/767, 19-21=-722/766, 19-20=-722/766, 18-20=-731/777, 22-24=-1010/805, 1-22=-847/894, 1-17=-752/712, 17-22=-1083/982, 22-23=-890/941, 23-24=-1086/1026, 9-10=-674/547, 10-25=-1442/1303, 25-26=-1358/1467, 18-26=-1669/1537, 2-16=-2141/2796, 3-16=-1593/1295, 8-11=-2189/2811, 7-11=-1603/1330, 3-15=-1818/2180, 4-15=-1201/1077, 4-14=-1146/1243, 5-14=-692/396, 6-12=-1211/1064, 6-14=-1145/1274, 7-12=-1802/2203

NOTES

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
   Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
   Web connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) 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.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3378 lb uplift at joint 18, 637 lb uplift at joint 20, 2127 lb uplift at joint 21 and 1724 lb uplift at joint 24.
10) Load case(s) 14, 44, 45, 46, 47 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

Continued on page 2

11) This truss has been designed for a total drag load of 4000 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 19-3-0 for 207.8 plf.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (lb/ft)
   Vert: 10-17=-20
   Trapezoidal Loads (lb/ft)
   Vert: 1=-208-to-2=-215, 2=-215-to-3=-232, 3=-232-to-4=-249, 4=-249-to-5=-266, 5=-266-to-6=-249, 6=-249-to-7=-232, 7=-232-to-8=-215, 8=-215-to-9=-208
14) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
   Uniform Loads (lb/ft)
   Vert: 10-17=-20
   Trapezoidal Loads (lb/ft)
   Vert: 1=-99-to-2=-103, 2=-103-to-3=-114, 3=-114-to-4=-125, 4=-125-to-5=-135, 5=-135-to-6=-125, 6=-125-to-7=-114, 7=-114-to-8=-103, 8=-103-to-9=-99
44) Dead + DragE LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (lb/ft)
   Vert: 10-17=-20
   Drag: 2-9=222, 10-20=-208, 8-10=-208, 17-21=-208, 2-17=-208, 10-17=-208
   Trapezoidal Loads (lb/ft)
   Vert: 1=-99-to-2=-103, 2=-103-to-3=-114, 3=-114-to-4=-125, 4=-125-to-5=-135, 5=-135-to-6=-125, 6=-125-to-7=-114, 7=-114-to-8=-103, 8=-103-to-9=-99
45) Dead + DragE LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (lb/ft)
   Vert: 10-17=-20
   Drag: 2-9=-222, 10-20=208, 8-10=208, 17-21=208, 2-17=208, 10-17=208
   Trapezoidal Loads (lb/ft)
   Vert: 1=-99-to-2=-103, 2=-103-to-3=-114, 3=-114-to-4=-125, 4=-125-to-5=-135, 5=-135-to-6=-125, 6=-125-to-7=-114, 7=-114-to-8=-103, 8=-103-to-9=-99
46) 0.6 Dead + DragE LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (lb/ft)
   Vert: 10-17=-12
   Drag: 2-9=222, 10-20=-208, 8-10=-208, 17-21=-208, 2-17=-208, 10-17=-208
   Trapezoidal Loads (lb/ft)
   Vert: 1=-59-to-2=-62, 2=-62-to-3=-69, 3=-69-to-4=-75, 4=-75-to-5=-81, 5=-81-to-6=-75, 6=-75-to-7=-69, 7=-69-to-8=-62, 8=-62-to-9=-59
47) 0.6 Dead + DragE LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (lb/ft)
   Vert: 10-17=-12
   Drag: 2-9=-222, 10-20=208, 8-10=208, 17-21=208, 2-17=208, 10-17=208
   Trapezoidal Loads (lb/ft)
   Vert: 1=-59-to-2=-62, 2=-62-to-3=-69, 3=-69-to-4=-75, 4=-75-to-5=-81, 5=-81-to-6=-75, 6=-75-to-7=-69, 7=-69-to-8=-62, 8=-62-to-9=-59

Job	Truss	Truss Type	Qty	Ply	J BASE
HARMONY FRAME	GRD15F	Roof Special Girder	1	1	Job Reference (optional)

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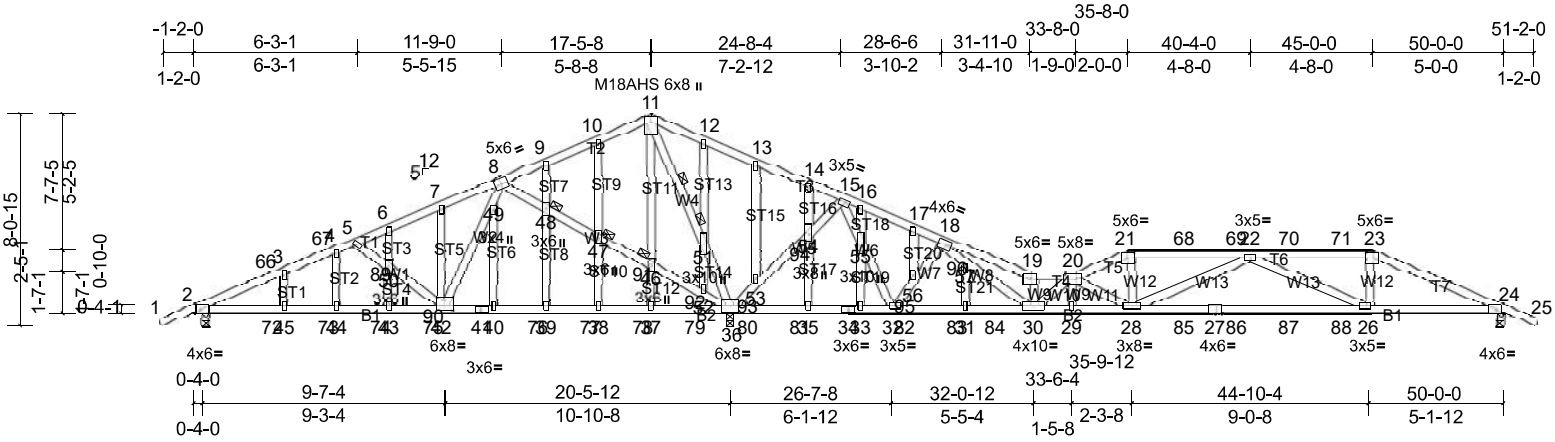

Plate Offsets (X, Y): [8:0-3-0,0-3-0], [20:0-5-4,0-2-8], [21:0-3-0,0-2-4], [23:0-3-0,0-2-4], [42:0-4-0,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.91	Vert(LL)	0.27	28	>999	240	M18AHS	186/179
TCDL	7.0	Lumber DOL	1.25	BC	0.91	Vert(CT)	-0.59	26-28	>598	180	MT20	244/190
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.83	Horz(CT)	-0.02	36	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 331 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-9-4 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 4-6-10 oc bracing.
WEBS	1 Row at midpt 11-51
JOINTS	1 Brace at Jt(s): 46, 47, 48, 51

REACTIONS (lb/size) 2=135/0-3-8, (min. 0-1-8), 24=1054/0-3-8, (min. 0-1-8), 36=3949/0-3-8, (req. 0-4-0)
Max Horiz 2=-183 (LC 13)
Max Uplift 2=-339 (LC 4), 24=-540 (LC 9), 36=-1864 (LC 5)
Max Grav 2=283 (LC 21), 24=1063 (LC 22), 36=3949 (LC 1)

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

TOP CHORD 2-66=-248/735, 3-66=-213/763, 3-67=-213/739, 4-67=-192/768, 4-5=-145/842, 5-6=-273/1088, 6-7=-283/1140, 7-8=-267/1161, 8-9=-816/1937, 9-10=-814/1971, 10-11=-794/1986, 11-12=-1278/3061, 12-13=-1327/3058, 13-14=-1378/3071, 14-15=-1398/3014, 15-16=-872/1922, 16-17=-876/1875, 17-18=-888/1835, 18-19=-691/296, 19-20=-593/217, 20-21=-2118/914, 21-68=-1987/875, 68-69=-1987/875, 22-69=-1987/875, 22-70=-2095/986, 70-71=-2095/986, 23-71=-2095/986, 23-24=-2275/1019

BOT CHORD 2-72=-679/422, 45-72=-679/422, 45-73=-679/422, 44-73=-679/422, 44-74=-679/422, 43-74=-679/422, 43-75=-679/422, 42-75=-679/422, 41-42=-1192/668, 40-41=-1192/668, 40-76=-1192/668, 39-76=-1192/668, 39-77=-1192/668, 38-77=-1192/668, 38-78=-1192/668, 37-78=-1192/668, 37-79=-1192/668, 36-79=-1192/668, 36-80=-2062/1189, 80-81=-2062/1189, 35-81=-2062/1189, 34-35=-2062/1189, 33-34=-2062/1189, 32-33=-2062/1189, 32-82=-1098/668, 82-83=-1098/668, 31-83=-1098/668, 31-84=-1098/668, 30-84=-1098/668, 29-30=-777/1759, 28-29=-762/1765, 28-85=-1212/2445, 27-85=-1212/2445, 27-86=-1212/2445, 86-87=-1212/2445, 87-88=-1212/2445, 26-88=-1212/2445, 24-26=-847/2060

WEBS 5-89=-554/397, 50-89=-584/413, 50-90=-577/415, 42-90=-611/433, 42-49=-324/452, 8-49=-494/715, 8-48=-1016/706, 47-48=-998/696, 47-91=-1041/724, 46-91=-1067/736, 46-92=-963/672, 52-92=-988/685, 36-52=-1046/723, 11-51=-2602/1182, 36-51=-2563/1167, 36-93=-1161/604, 53-93=-1123/598, 53-94=-1031/513, 54-94=-993/506, 15-54=-1066/548, 19-30=-333/209, 20-30=-1501/838, 20-28=-93/415, 21-28=-34/558, 22-28=-527/529, 22-26=-386/409, 23-26=-9/609, 11-46=-245/334, 40-49=-184/281, 33-55=-101/278, 31-57=-152/347, 15-55=-471/981, 32-55=-382/811, 32-95=-1101/621, 56-95=-1057/613, 18-56=-1063/596, 18-96=-1104/2290, 57-96=-1097/2251, 30-57=-1004/2035

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; 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
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 MT20 plates unless otherwise indicated.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.

Continued on page 2

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) WARNING: Required bearing size at joint(s) 36 greater than input bearing size.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 339 lb uplift at joint 2, 1864 lb uplift at joint 36 and 540 lb uplift at joint 24.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 142 lb down and 110 lb up at 3-0-0, 193 lb down and 219 lb up at 35-8-0, 84 lb down and 95 lb up at 37-9-13, 84 lb down and 95 lb up at 39-9-13, 84 lb down and 95 lb up at 41-9-13, and 84 lb down and 95 lb up at 43-9-13, and 193 lb down and 219 lb up at 45-0-0 on top chord, and 101 lb down and 37 lb up at 3-0-0, 17 lb down and 37 lb up at 5-1-13, 17 lb down and 37 lb up at 7-1-13, 17 lb down and 37 lb up at 9-1-13, 17 lb down and 37 lb up at 11-1-13, 17 lb down and 37 lb up at 13-1-13, 17 lb down and 37 lb up at 15-1-13, 17 lb down and 37 lb up at 17-1-13, 17 lb down and 37 lb up at 19-1-13, 17 lb down at 21-1-13, 14 lb down at 23-1-13, 14 lb down at 25-1-13, 14 lb down at 27-1-13, 14 lb down at 29-1-13, 102 lb down and 92 lb up at 30-7-4, 116 lb down at 35-8-0, 48 lb down at 37-9-13, 48 lb down at 39-9-13, 48 lb down at 41-9-13, and 48 lb down at 43-9-13, and 116 lb down at 44-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-11=-46, 11-19=-46, 19-20=-46, 20-21=-46, 21-23=-46, 23-25=-46, 58-63=-20
Concentrated Loads (lb)
Vert: 21=-115, 23=-115, 41=-65, 28=-85, 26=-85, 34=-65, 66=-8, 67=-54, 68=-52, 69=-52, 70=-52, 71=-52, 72=-7, 73=-12, 74=-12, 75=-12, 76=-65, 77=-65, 78=-12, 79=-12, 80=-12, 81=-12, 82=-12, 83=-12, 84=-102, 85=-38, 86=-38, 87=-38, 88=-38, 89=-54, 90=-54, 91=-54, 92=-54, 93=-54, 94=-54, 95=-54, 96=-54

Job	Truss	Truss Type	Qty	Ply	J BASE
HARMONY FRAME	H5509PF	Hip	1	1	Job Reference (optional)

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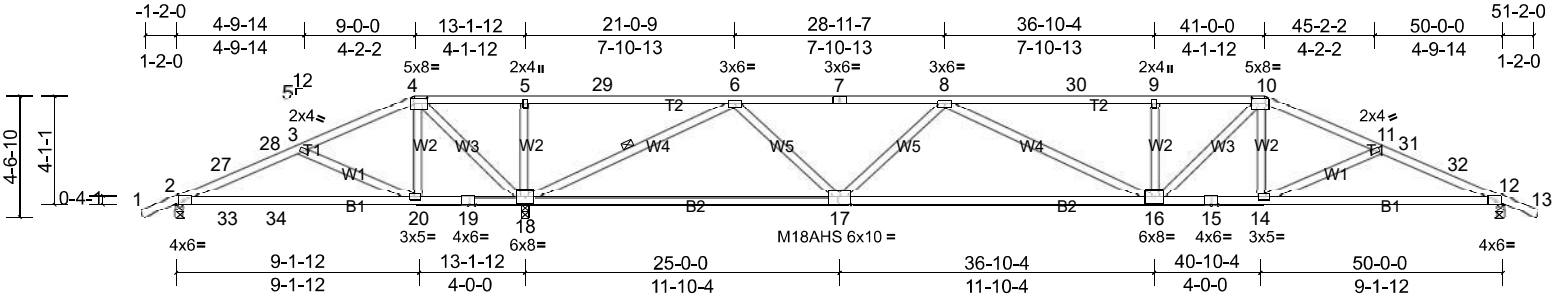

Plate Offsets (X, Y): [4:0-5-12,0-2-8], [10:0-5-12,0-2-8], [17:0-5-0,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.80	Vert(LL)	0.35	20-26	>447	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.77	16-17	>577	180	M18AHS	186/179
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.06	12	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 246 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.1D *Except* B1:2x4 SP No.2
WEBS	2x4 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-4-5 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 6-18

REACTIONS (lb/size) 2=-30/0-3-8, (min. 0-1-8), 12=1087/0-3-8, (min. 0-1-8), 18=2356/0-3-8, (min. 0-2-6)
Max Horiz 2=-100 (LC 13)
Max Uplift 2=-239 (LC 26), 12=-556 (LC 13), 18=-1308 (LC 8)
Max Grav 2=108 (LC 13), 12=1095 (LC 26), 18=2356 (LC 1)

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

TOP CHORD 2-27=-337/880, 27-28=-327/885, 3-28=-325/899, 3-4=-429/1038, 4-5=-809/1705, 5-29=-809/1705, 6-29=-809/1705, 6-7=-1432/662, 7-8=-1432/662, 8-30=-2168/1102, 9-30=-2168/1102, 9-10=-2168/1102, 10-11=-1960/966, 11-31=-2188/1161, 31-32=-2229/1155, 12-32=-2244/1150

BOT CHORD 2-33=-800/453, 33-34=-800/453, 20-34=-800/453, 19-20=-950/592, 18-19=-950/592, 17-18=-264/663, 16-17=-883/1938, 15-16=-705/1776, 14-15=-705/1776, 12-14=-980/2059

WEBS 3-20=-372/502, 4-20=-703/301, 10-14=-63/286, 11-14=-319/303, 5-18=-329/319, 9-16=-307/305, 4-18=-1105/1142, 10-16=-301/596, 6-17=-368/1097, 6-18=-2563/1363, 8-17=-713/591, 8-16=-111/312

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-11 to 3-9-5, Zone1 3-9-5 to 9-0-0, Zone2 9-0-0 to 16-0-14, Zone1 16-0-14 to 41-0-0, Zone2 41-0-0 to 48-0-14, Zone1 48-0-14 to 51-2-11 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1308 lb uplift at joint 18, 556 lb uplift at joint 12 and 239 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	J BASE
HARMONY FRAME	H5511PF	Hip	1	1	Job Reference (optional)

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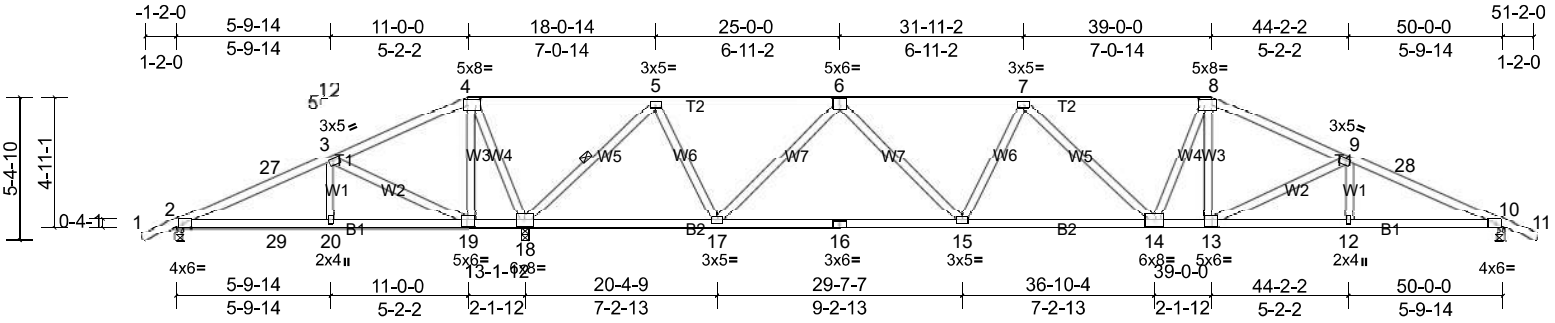

Plate Offsets (X, Y): [4:0-5-12,0-2-8], [6:0-3-0,0-3-0], [8:0-5-12,0-2-8], [13:0-3-0,0-3-0], [19:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.76	Vert(LL)	0.19	14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.78	Vert(CT)	-0.40	15-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 258 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 3-7-13 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 5-4-2 oc bracing.
WEBS	1 Row at midpt 5-18

REACTIONS (lb/size) 2=-65/0-3-8, (min. 0-1-8), 10=1075/0-3-8, (min. 0-1-8), 18=2403/0-3-8, (min. 0-2-13)
Max Horiz 2=120 (LC 12)
Max Uplift 2=-279 (LC 26), 10=-555 (LC 13), 18=-1280 (LC 8)
Max Grav 2=102 (LC 13), 10=1086 (LC 26), 18=2403 (LC 1)

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

TOP CHORD 2-27=-371/957, 3-27=-356/977, 3-4=-494/1276, 4-5=-703/1592, 5-6=-344/209, 6-7=-1580/802, 7-8=-1668/896, 8-9=-1781/921, 9-28=-2179/1095, 10-28=-2237/1086

BOT CHORD 2-29=-883/505, 20-29=-883/505, 19-20=-883/505, 18-19=-1139/624, 17-18=-204/382, 16-17=-449/1113, 15-16=-449/1113, 14-15=-706/1727, 13-14=-623/1599, 12-13=-911/2028, 10-12=-911/2028

WEBS 3-20=-376/258, 3-19=-533/861, 4-19=-616/275, 8-13=-101/285, 9-13=-475/319, 4-18=-1077/1047, 5-17=-374/1065, 5-18=-1904/1003, 6-17=-1105/625, 6-15=-280/678, 7-15=-340/339

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-11 to 3-9-5, Zone1 3-9-5 to 11-0-0, Zone2 11-0-0 to 18-0-14, Zone1 18-0-14 to 39-0-0, Zone2 39-0-0 to 46-0-14, Zone1 46-0-14 to 51-2-11 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1280 lb uplift at joint 18, 555 lb uplift at joint 10 and 279 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	J BASE
HARMONY FRAME	H5513PF	Hip	1	1	Job Reference (optional)

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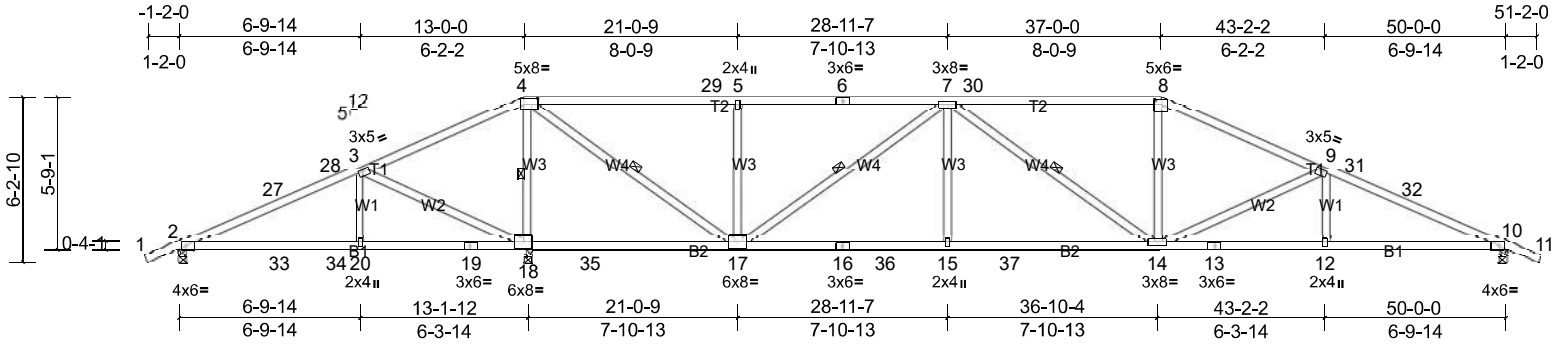

Plate Offsets (X, Y): [4:0-6-4,0-2-12], [8:0-3-0,0-2-4], [18:0-3-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	-0.22	14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.80	Vert(CT)	-0.41	14-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 255 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 3-2-5 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 4-9-4 oc bracing.
WEBS	1 Row at midpt 4-18, 4-17, 7-17, 7-14

REACTIONS (lb/size) 2=22/0-3-8, (min. 0-1-8), 10=1105/0-3-8, (min. 0-1-8), 18=2285/0-3-8, (min. 0-3-2)
Max Horiz 2=140 (LC 12)
Max Uplift 2=-192 (LC 26), 10=-569 (LC 13), 18=-1173 (LC 8)
Max Grav 2=78 (LC 25), 10=1241 (LC 28), 18=2631 (LC 2)

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

TOP CHORD 2-27=-266/839, 27-28=-256/849, 3-28=-248/865, 3-4=-561/1380, 4-29=-697/399, 5-29=-697/399, 5-6=-697/399, 6-7=-697/399, 7-30=-1755/867, 8-30=-1755/867, 8-9=-1937/878, 9-31=-2467/1109, 31-32=-2503/1099, 10-32=-2540/1098

BOT CHORD 2-33=-774/433, 33-34=-774/433, 20-34=-774/433, 19-20=-774/433, 18-19=-774/433, 18-35=-1292/756, 17-35=-1292/756, 16-17=-545/1706, 16-36=-545/1706, 15-36=-545/1706, 15-37=-545/1706, 14-37=-545/1706, 13-14=-912/2319, 12-13=-912/2319, 10-12=-912/2319

WEBS 3-20=-457/273, 3-18=-673/1033, 4-18=-2071/981, 4-17=-977/2339, 5-17=-391/388, 7-17=-1245/566, 7-15=0/407, 8-14=-37/483, 9-14=-635/401, 9-12=0/260

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-11 to 3-9-5, Zone1 3-9-5 to 13-0-0, Zone2 13-0-0 to 20-0-14, Zone1 20-0-14 to 37-0-0, Zone2 37-0-0 to 44-0-14, Zone1 44-0-14 to 51-2-11 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 192 lb uplift at joint 2, 1173 lb uplift at joint 18 and 569 lb uplift at joint 10.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	J BASE
HARMONY FRAME	H5515F	Hip	1	1	Job Reference (optional)

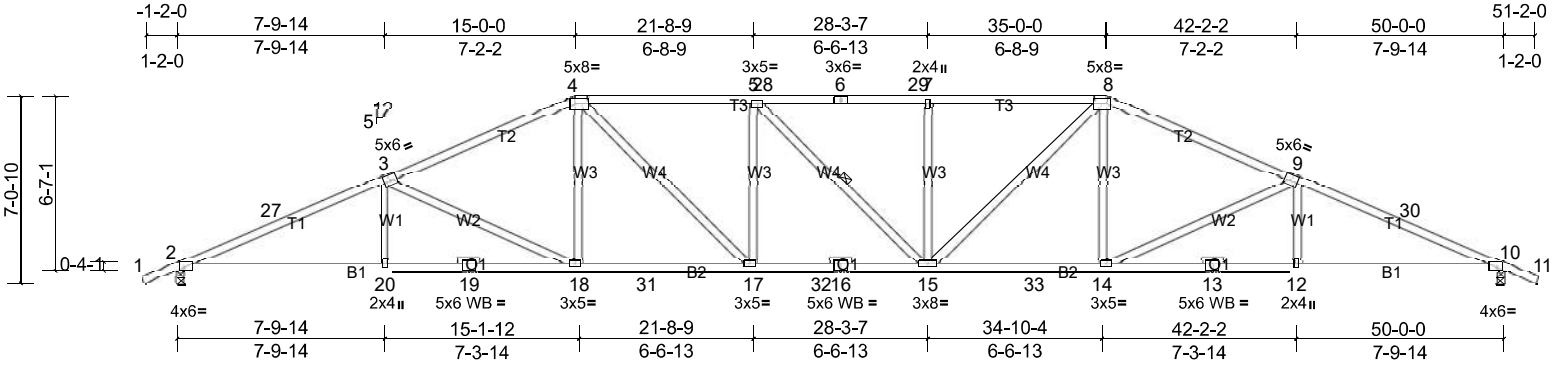

Plate Offsets (X, Y): [3:0-2-12,0-3-4], [4:0-5-12,0-2-8], [8:0-5-12,0-2-8], [9:0-2-12,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.95	Vert(LL)	0.47	15-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.77	Vert(CT)	-0.79	15-17	>762	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.23	10	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 267 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied or 5-5-4 oc bracing.
WEBS	1 Row at midpt 5-15

REACTIONS (lb/size) 2=1706/0-3-8, (min. 0-1-15), 10=1706/0-3-8, (min. 0-1-15)
Max Horiz 2=159 (LC 12)
Max Uplift 2=-742 (LC 12), 10=-742 (LC 13)
Max Grav 2=1930 (LC 2), 10=1927 (LC 2)

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

TOP CHORD 2-27=-4243/1505, 3-27=-4208/1519, 3-4=-3532/1309, 4-5=-3772/1500, 5-28=-3759/1499, 6-28=-3759/1499, 6-29=-3759/1499, 7-29=-3759/1499, 7-8=-3759/1499, 8-9=-3524/1309, 9-30=-4200/1519, 10-30=-4235/1506

BOT CHORD 2-20=-1435/3886, 19-20=-1439/3870, 18-19=-1439/3870, 18-31=-1016/3219, 17-31=-1016/3219, 17-32=-1260/3772, 16-32=-1260/3772, 15-16=-1260/3772, 15-33=-985/3212, 14-33=-985/3212, 13-14=-1280/3863, 12-13=-1280/3863, 10-12=-1277/3878

WEBS 3-20=0/315, 3-18=-737/471, 4-18=-114/588, 8-14=-115/590, 9-14=-737/471, 9-12=0/315, 5-17=-395/328, 4-17=-366/842, 7-15=-325/320, 8-15=-365/834

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-11 to 3-9-5, Zone1 3-9-5 to 15-0-0, Zone2 15-0-0 to 22-0-14, Zone1 22-0-14 to 35-0-0, Zone2 35-0-0 to 41-11-14, Zone1 41-11-14 to 51-2-11 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 742 lb uplift at joint 2 and 742 lb uplift at joint 10.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	J BASE
HARMONY FRAME	H5517F	Hip	1	1	Job Reference (optional)

Maronda Homes, Sanford, user — Run: 8.72 S Nov 2 2023 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Tue Aug 27 15:21:39 — Page: 1

ID:VP4h1aTLpc3xX83FMyxH2?zHeDm-?Kfe5roMGY6M?cXgPsTbejAYYTO3jKtRnAqlWRyjdAw

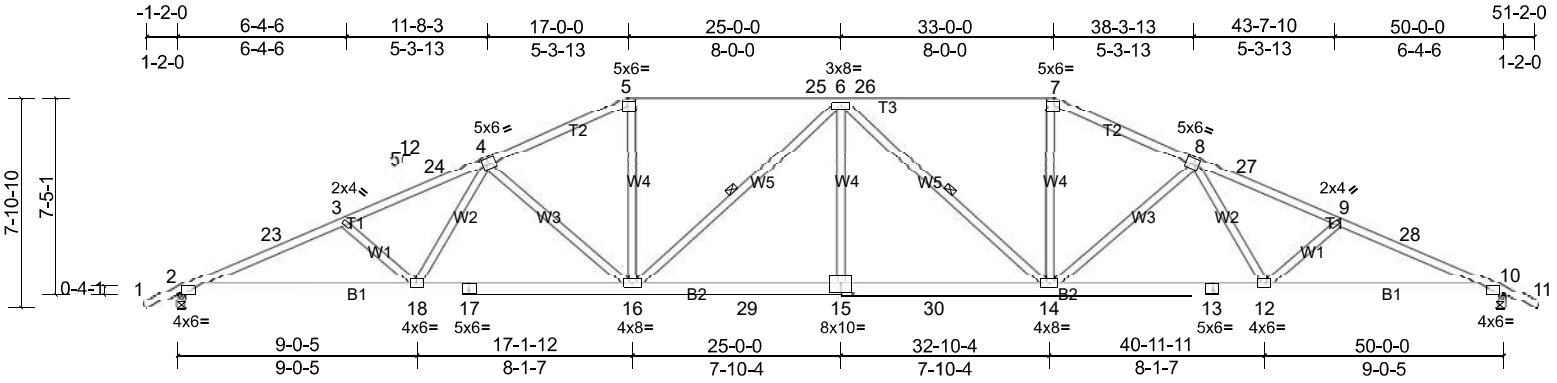

Plate Offsets (X, Y): [2:0-1-13,0-0-1], [4:0-3-0,0-3-0], [5:0-3-0,0-2-4], [7:0-3-0,0-2-4], [8:0-3-0,0-3-0], [10:0-1-13,0-0-1], [15:0-5-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	0.39	15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.68	15-16	>885	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.18	10	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 306 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2 *Except* T3:2x4 SP No.1D
BOT CHORD	2x6 SP No.1D *Except* B2:2x6 SP No.2
WEBS	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 6-7-14 oc bracing.
WEBS	1 Row at midpt 6-16, 6-14

REACTIONS (lb/size) 2=1706/0-3-8, (min. 0-1-15), 10=1706/0-3-8, (min. 0-1-15)
Max Horiz 2=179 (LC 12)
Max Uplift 2=-740 (LC 12), 10=-740 (LC 13)
Max Grav 2=1924 (LC 2), 10=1924 (LC 2)

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

TOP CHORD 2-23=-4320/1590, 3-23=-4288/1599, 3-24=-4153/1476, 4-24=-4099/1485, 4-5=-3351/1236, 5-25=-3076/1191, 6-25=-3076/1191, 6-26=-3076/1191, 7-26=-3076/1191, 7-8=-3351/1236, 8-27=-4099/1482, 9-27=-4153/1474, 9-28=-4288/1596, 10-28=-4320/1587

BOT CHORD 2-18=-1545/3969, 17-18=-1243/3515, 16-17=-1243/3515, 16-29=-1059/3472, 15-29=-1059/3472, 15-30=-1059/3472, 14-30=-1059/3472, 13-14=-1097/3515, 12-13=-1097/3515, 10-12=-1363/3969

WEBS 3-18=-272/312, 4-18=-148/580, 4-16=-615/417, 5-16=-255/1049, 6-16=-637/338, 6-15=0/433, 6-14=-637/338, 7-14=-255/1049, 8-14=-615/416, 8-12=-147/580, 9-12=-272/312

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-11 to 3-9-5, Zone1 3-9-5 to 17-0-0, Zone2 17-0-0 to 24-0-14, Zone1 24-0-14 to 33-0-0, Zone2 33-0-0 to 40-0-14, Zone1 40-0-14 to 51-2-11 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 740 lb uplift at joint 2 and 740 lb uplift at joint 10.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	J BASE
HARMONY FRAME	H5519F	Hip	19	1	Job Reference (optional)

Maronda Homes, Sanford, user — Run: 8.72 S Nov 2 2023 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Tue Aug 27 15:21:40 — Page: 1

ID:07QcY_d33PNklXI_pyC5lRzHeEr-TWD0IBp_1sEDdl6sya?qBwjilsh1SjNa0qZl2tyjdAv

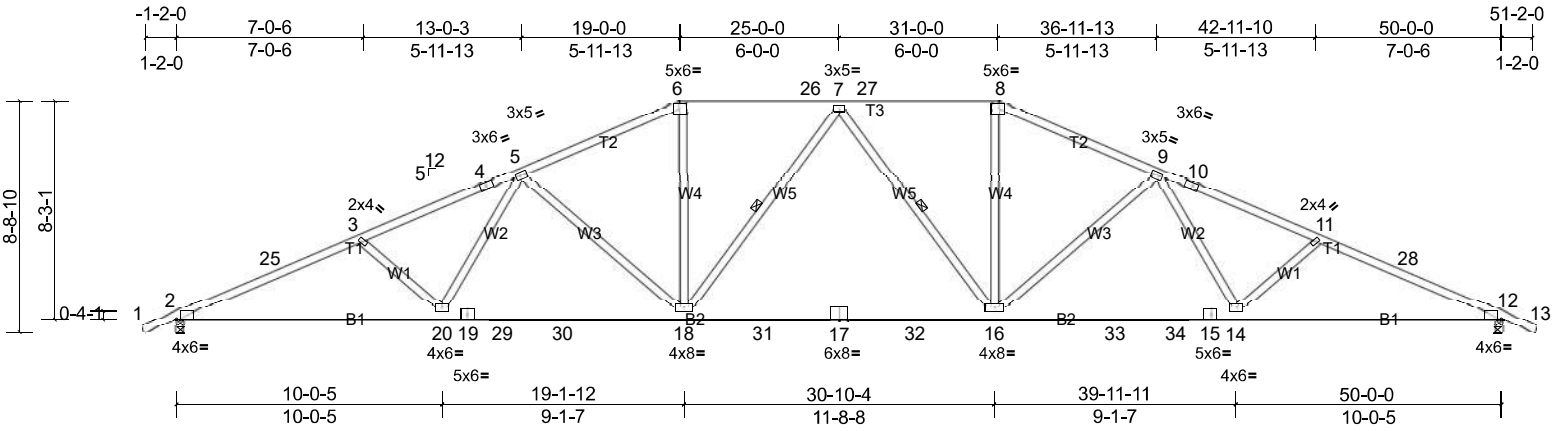

Plate Offsets (X, Y): [2:0-1-13,0-0-1], [6:0-3-0,0-2-4], [8:0-3-0,0-2-4], [12:0-1-13,0-0-1]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.76	Vert(LL)	-0.49	16-18	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.88	16-18	>686	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.18	12	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 303 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.1D *Except* B2:2x6 SP No.2
WEBS 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 6-7-13 oc bracing.
WEBS 1 Row at midpt 7-18, 7-16

REACTIONS (lb/size) 2=1706/0-3-8, (min. 0-1-15), 12=1706/0-3-8, (min. 0-1-15)
Max Horiz 2=198 (LC 12)
Max Uplift 2=-737 (LC 12), 12=-737 (LC 13)
Max Grav 2=1949 (LC 2), 12=1949 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-25=-4321/1565, 3-25=-4290/1575, 3-4=-4132/1437, 4-5=-4052/1447, 5-6=-3230/1189, 6-26=-2955/1151, 7-26=-2955/1151, 7-27=-2955/1151, 8-27=-2955/1151, 8-9=-3230/1189, 9-10=-4052/1445, 10-11=-4132/1435, 11-28=-4290/1572, 12-28=-4321/1562
BOT CHORD 2-20=-1534/3967, 19-20=-1193/3458, 19-29=-1193/3458, 29-30=-1193/3458, 18-30=-1193/3458, 18-31=-856/3047, 17-31=-856/3047, 17-32=-856/3047, 16-32=-856/3047, 16-33=-1058/3458, 33-34=-1058/3458, 15-34=-1058/3458, 14-15=-1058/3458, 12-14=-1333/3967
WEBS 3-20=-305/347, 5-20=-172/646, 5-18=-695/486, 6-18=-248/1021, 7-18=-339/302, 7-16=-339/302, 8-16=-248/1021, 9-16=-695/485, 9-14=-170/646, 11-14=-305/347

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-11 to 3-9-5, Zone1 3-9-5 to 19-0-0, Zone2 19-0-0 to 26-0-14, Zone1 26-0-14 to 31-0-0, Zone2 31-0-0 to 38-0-14, Zone1 38-0-14 to 51-2-11 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 737 lb uplift at joint 2 and 737 lb uplift at joint 12.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	J BASE
HARMONY FRAME	HG5507PF	Hip Girder	1	**2**	Job Reference (optional)

Maronda Homes, Sanford, user — Run: 8.72 S Nov 2 2023 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Tue Aug 27 15:21:41 — Page: 1

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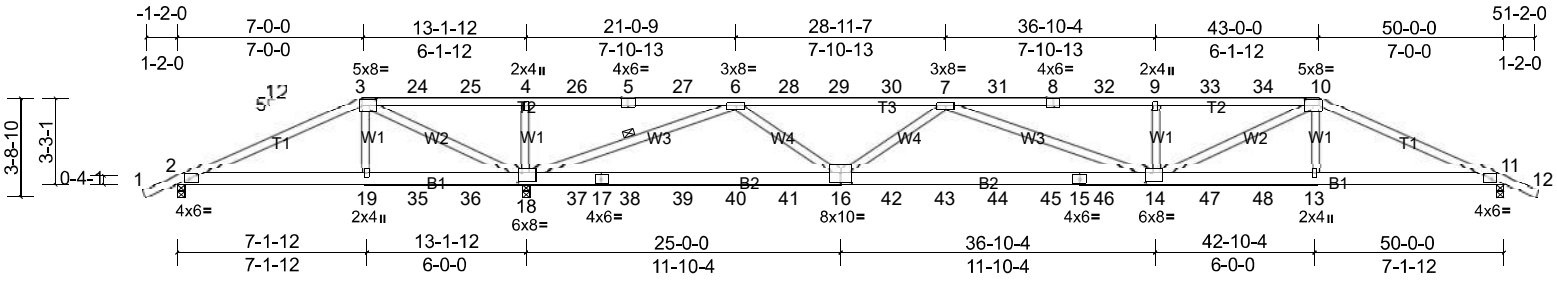


Plate Offsets (X, Y): [3:0-6-4,0-2-12], [5:0-3-0,Edge], [8:0-3-0,Edge], [10:0-6-4,0-2-12], [14:0-2-12,0-4-4], [16:0-5-0,0-4-8], [18:0-1-12,0-4-8]

Loading	(psf)	**Spacing**	2-0-0	**CSI**		**DEFL**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	0.42	14-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.86	Vert(CT)	-0.61	14-16	>721	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.07	11	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 537 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.1D *Except* T1:2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-11-13 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 6-18

REACTIONS (lb/size) 2=-339/0-3-8, (min. 0-1-8), 11=2135/0-3-8, (min. 0-1-8), 18=5146/0-3-8, (min. 0-3-1)
Max Horiz 2=-81 (LC 9)
Max Uplift 2=-525 (LC 22), 11=-1108 (LC 9), 18=-2957 (LC 4)
Max Grav 2=101 (LC 9), 11=2137 (LC 22), 18=5146 (LC 1)

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

TOP CHORD 2-3=-466/1724, 3-24=-2447/4720, 24-25=-2447/4720, 4-25=-2447/4720, 4-26=-2447/4720, 5-26=-2447/4720, 5-27=-2447/4720, 6-27=-2447/4720, 6-28=-4178/1824, 28-29=-4178/1824, 29-30=-4178/1824, 7-30=-4178/1824, 7-31=-6437/3232, 8-31=-6437/3232, 8-32=-6437/3232, 9-32=-6437/3232, 9-33=-6437/3232, 33-34=-6437/3232, 10-34=-6437/3232, 10-11=-4954/2534

BOT CHORD 2-19=-1584/489, 19-35=-1544/449, 35-36=-1544/449, 18-36=-1544/449, 18-37=-1002/1897, 17-37=-1002/1897, 17-38=-1002/1897, 38-39=-1002/1897, 39-40=-1002/1897, 40-41=-1002/1897, 16-41=-1002/1897, 16-42=-2887/5629, 42-43=-2887/5629, 43-44=-2887/5629, 44-45=-2887/5629, 15-45=-2887/5629, 15-46=-2887/5629, 14-46=-2887/5629, 14-47=-2219/4564, 47-48=-2219/4564, 13-48=-2219/4564, 11-13=-2213/4535

WEBS 3-19=-762/742, 10-13=-122/655, 4-18=-578/523, 9-14=-695/744, 3-18=-3623/2539, 10-14=-988/2142, 6-16=-884/2826, 6-18=-7021/3799, 7-16=-1798/1501, 7-14=-258/929

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
   Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 525 lb uplift at joint 2, 2957 lb uplift at joint 18 and 1108 lb uplift at joint 11.

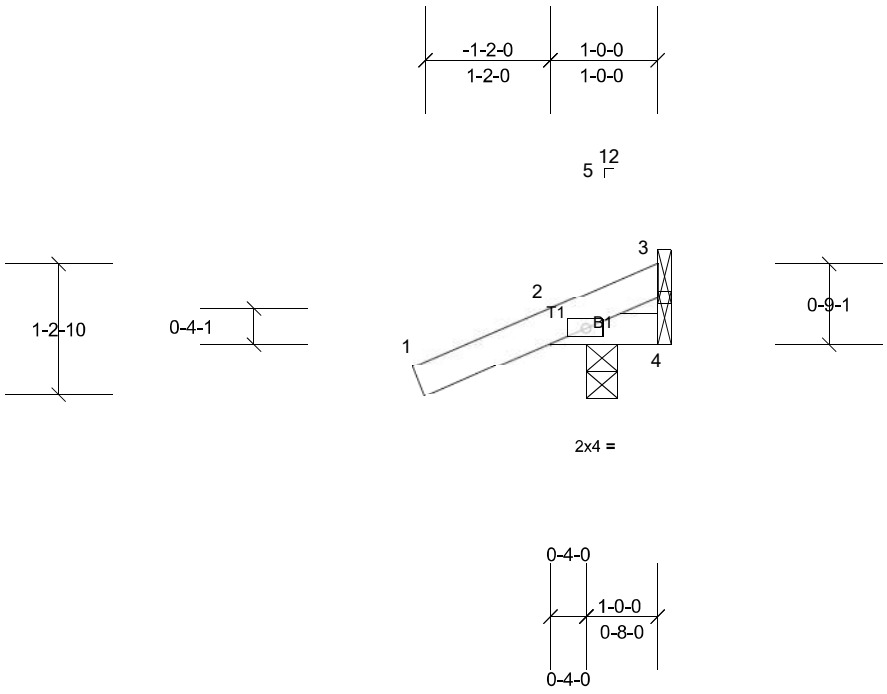
Continued on page 2

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 41 lb down and 138 lb up at 7-0-0, 3 lb down and 49 lb up at 9-0-12, 3 lb down and 49 lb up at 11-0-12, 111 lb down at 13-0-12, 96 lb down and 137 lb up at 15-0-12, 96 lb down and 137 lb up at 17-0-12, 96 lb down and 137 lb up at 19-0-12, 96 lb down and 137 lb up at 21-0-12, 96 lb down and 137 lb up at 23-0-12, 96 lb down and 134 lb up at 24-11-4, 96 lb down and 137 lb up at 26-11-4, 96 lb down and 137 lb up at 28-11-4, 96 lb down and 137 lb up at 30-11-4, 96 lb down and 137 lb up at 32-11-4, 96 lb down and 137 lb up at 34-11-4, 96 lb down and 137 lb up at 36-11-4, 96 lb down and 137 lb up at 38-11-4, and 96 lb down and 137 lb up at 40-11-4, and 148 lb down and 223 lb up at 43-0-0 on top chord, and 473 lb down and 501 lb up at 7-0-0, 184 lb down and 172 lb up at 9-0-12, 184 lb down and 172 lb up at 11-0-12, 85 lb down at 15-0-12, 85 lb down at 17-0-12, 85 lb down at 19-0-12, 85 lb down at 21-0-12, 85 lb down at 23-0-12, 85 lb down at 24-11-4, 85 lb down at 26-11-4, 85 lb down at 28-11-4, 85 lb down at 30-11-4, 85 lb down at 32-11-4, 85 lb down at 34-11-4, 85 lb down at 36-11-4, 85 lb down at 38-11-4, and 85 lb down at 40-11-4, and 352 lb down and 127 lb up at 42-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (lb/ft)
   Vert: 1-3=-46, 3-10=-46, 10-12=-46, 2-11=-20
   Concentrated Loads (lb)
   Vert: 3=3, 5=-96, 10=-110, 19=-473, 13=-351, 4=-52, 14=-62, 9=-96, 6=-96, 16=-62, 7=-96, 8=-96, 24=17, 25=17, 26=-96, 27=-96, 28=-96, 29=-96, 30=-96, 31=-96, 32=-96, 33=-96, 34=-96, 35=-184, 36=-184, 37=-62, 38=-62, 39=-62, 40=-62, 41=-62, 42=-62, 43=-62, 44=-62, 45=-62, 46=-62, 47=-62, 48=-62

Job	Truss	Truss Type	Qty	Ply	J BASE
HARMONY FRAME	J15APF	Jack-Open	1	1	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	1.25	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.18	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 = 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) 2=187/0-3-8, (min. 0-1-8), 3=-27/ Mechanical, (min. 0-1-8), 4=-38/ Mechanical, (min. 0-1-8)
Max Horiz 2=46 (LC 12)
Max Uplift 2=-164 (LC 8), 3=-27 (LC 1), 4=-38 (LC 1)
Max Grav 2=187 (LC 1), 3=35 (LC 8), 4=51 (LC 8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-310/117
BOT CHORD 2-4=-147/430

NOTES
1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; 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) 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 27 lb uplift at joint 3, 38 lb uplift at joint 4 and 164 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	J BASE
HARMONY FRAME	J15F	Jack-Open	6	1	Job Reference (optional)

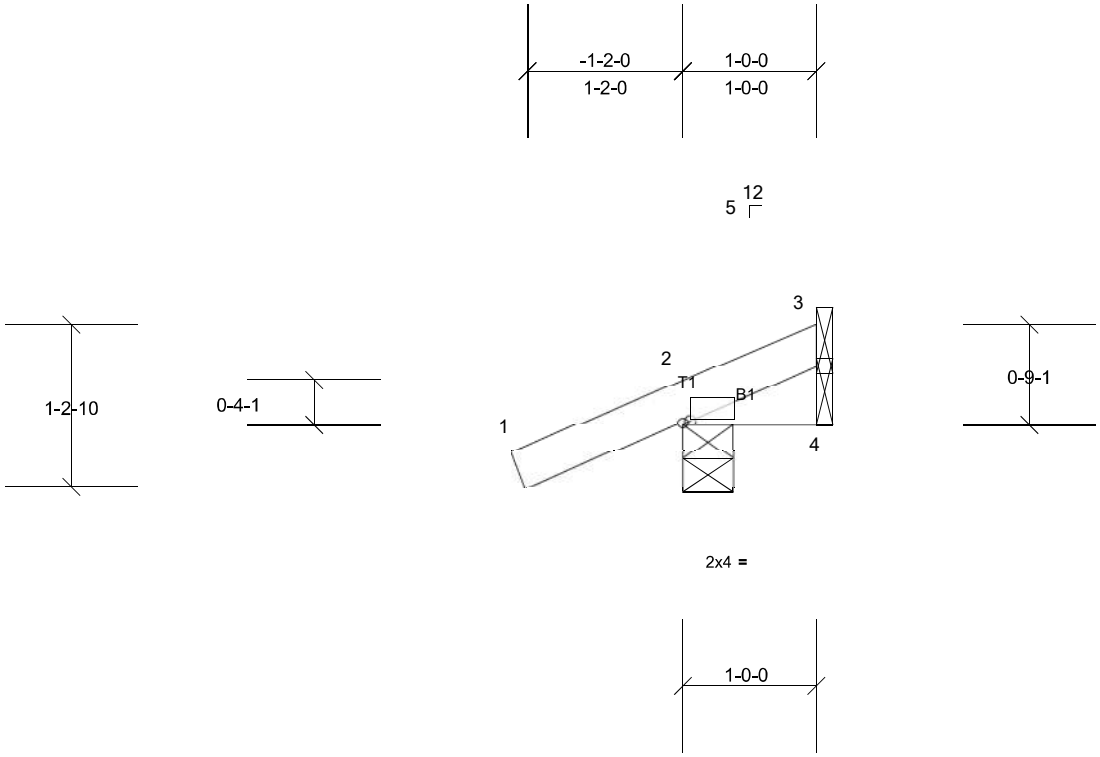


Plate Offsets (X, Y): [2:0-0-10,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	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 = 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.

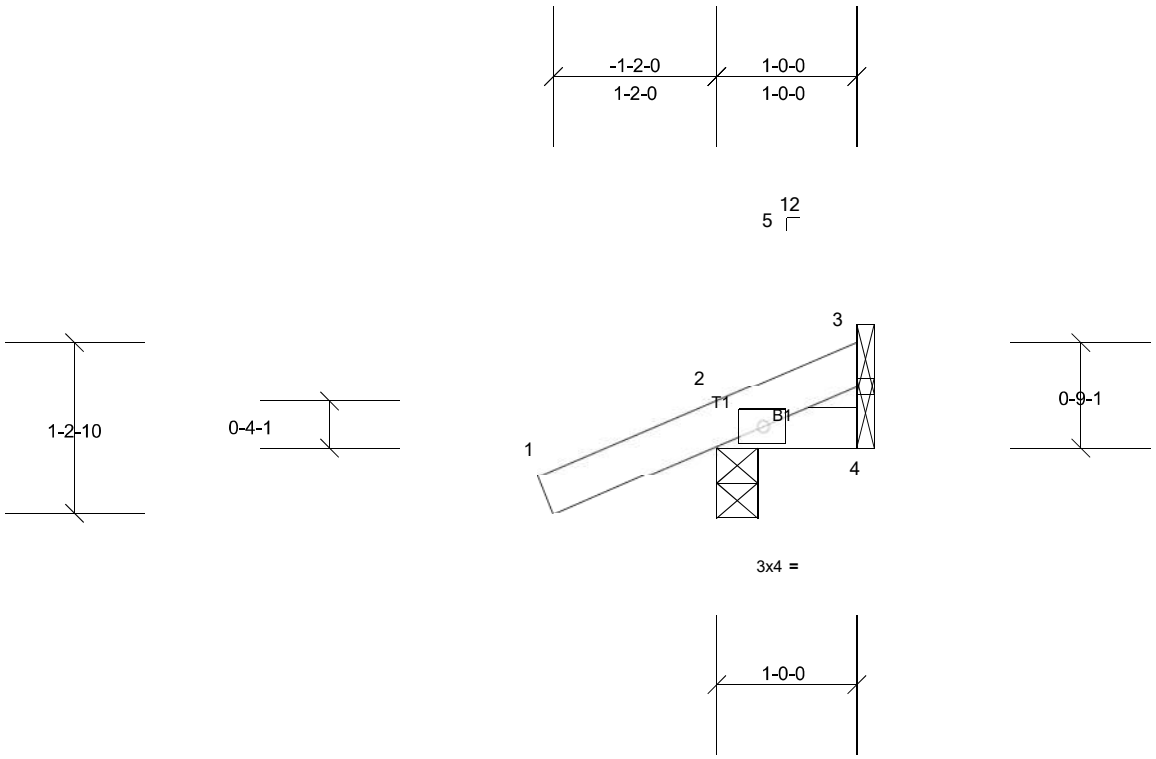
REACTIONS (lb/size) 2=124/0-4-8, (min. 0-1-8), 3=3/ Mechanical, (min. 0-1-8), 4=-5/ Mechanical, (min. 0-1-8)
Max Horiz 2=46 (LC 12)
Max Uplift 2=-109 (LC 8), 3=-1 (LC 12), 4=-5 (LC 1)
Max Grav 2=124 (LC 1), 3=8 (LC 8), 4=22 (LC 8)

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

NOTES
1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; 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) 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 1 lb uplift at joint 3, 109 lb uplift at joint 2 and 5 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	J BASE
HARMONY FRAME	J15PF	Jack-Open	3	1	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	1.25	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	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 = 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.

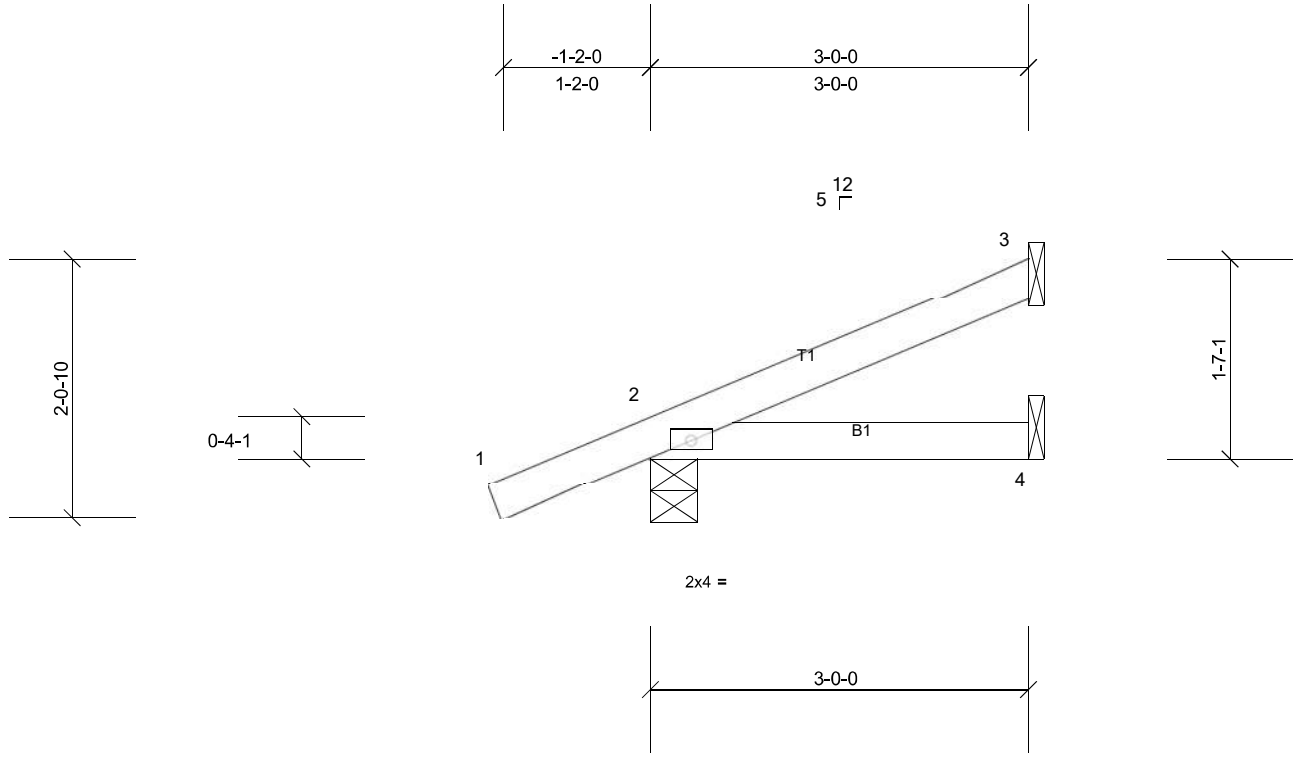
REACTIONS (lb/size) 2=124/0-3-8, (min. 0-1-8), 3=3/ Mechanical, (min. 0-1-8), 4=-5/ Mechanical, (min. 0-1-8)
Max Horiz 2=46 (LC 12)
Max Uplift 2=-122 (LC 8), 3=-5 (LC 9), 4=-5 (LC 1)
Max Grav 2=124 (LC 1), 3=7 (LC 3), 4=18 (LC 16)

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

NOTES
1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 3, 122 lb uplift at joint 2 and 5 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	J BASE
HARMONY FRAME	J35F	Jack-Open	12	1	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	1.25	TC	0.16	Vert(LL)	0.00	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	-0.01	4-7	>999	180		
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: 11 lb	FT = 20%

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

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

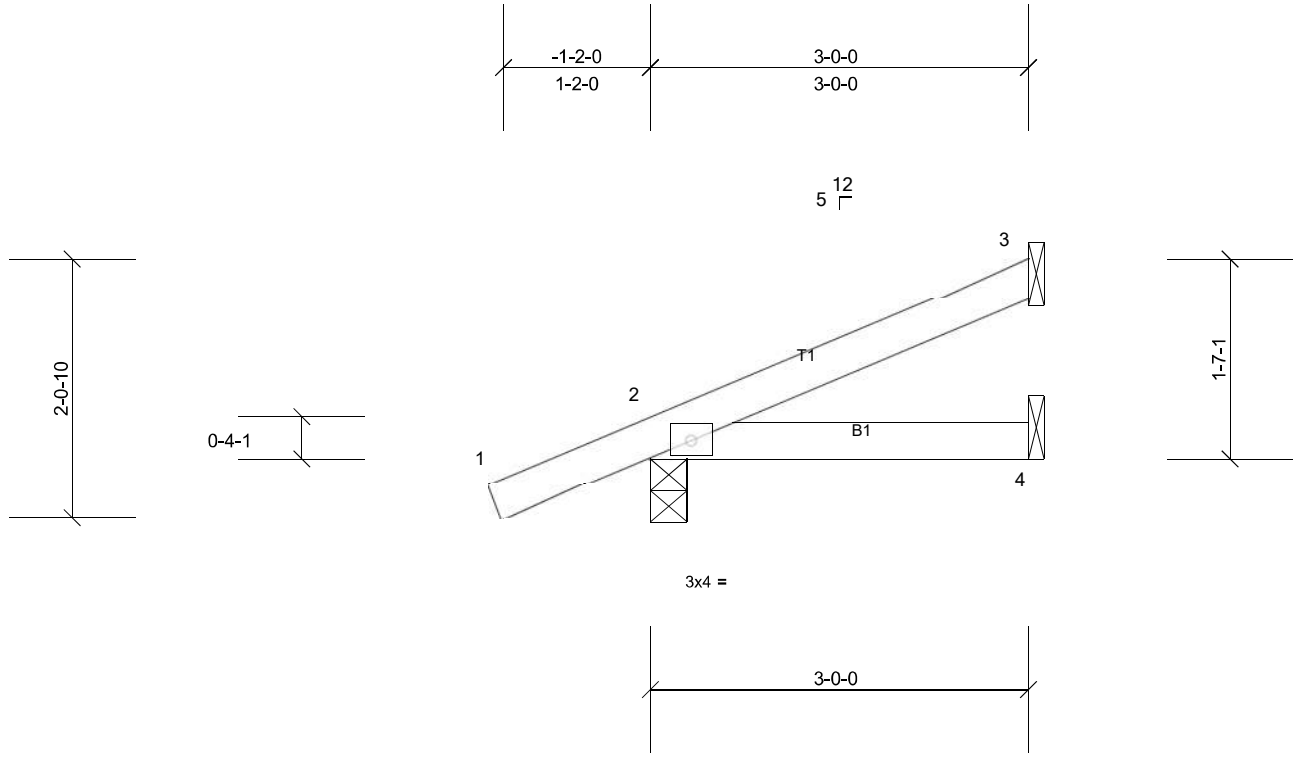
REACTIONS (lb/size) 2=165/0-4-8, (min. 0-1-8), 3=54/ Mechanical, (min. 0-1-8), 4=32/ Mechanical, (min. 0-1-8)
Max Horiz 2=90 (LC 12)
Max Uplift 2=-94 (LC 12), 3=-56 (LC 12)
Max Grav 2=165 (LC 1), 3=54 (LC 1), 4=50 (LC 3)

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

NOTES
1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; 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) 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 56 lb uplift at joint 3 and 94 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	J BASE
HARMONY FRAME	J35PF	Jack-Open	9	1	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	1.25	TC	0.17	Vert(LL)	0.02	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.19	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: 11 lb	FT = 20%

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

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

REACTIONS (lb/size) 2=165/0-3-8, (min. 0-1-8), 3=54/ Mechanical, (min. 0-1-8), 4=32/ Mechanical, (min. 0-1-8)
Max Horiz 2=90 (LC 12)
Max Uplift 2=-130 (LC 8), 3=-56 (LC 12), 4=-24 (LC 9)
Max Grav 2=165 (LC 1), 3=54 (LC 1), 4=50 (LC 3)

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

NOTES
1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; 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) 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 56 lb uplift at joint 3, 130 lb uplift at joint 2 and 24 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	J BASE
HARMONY FRAME	J35SF	Jack-Open	1	1	Job Reference (optional)

Maronda Homes, Sanford, user — Run: 8.72 S Nov 2 2023 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Tue Aug 27 15:21:45 — Page: 1

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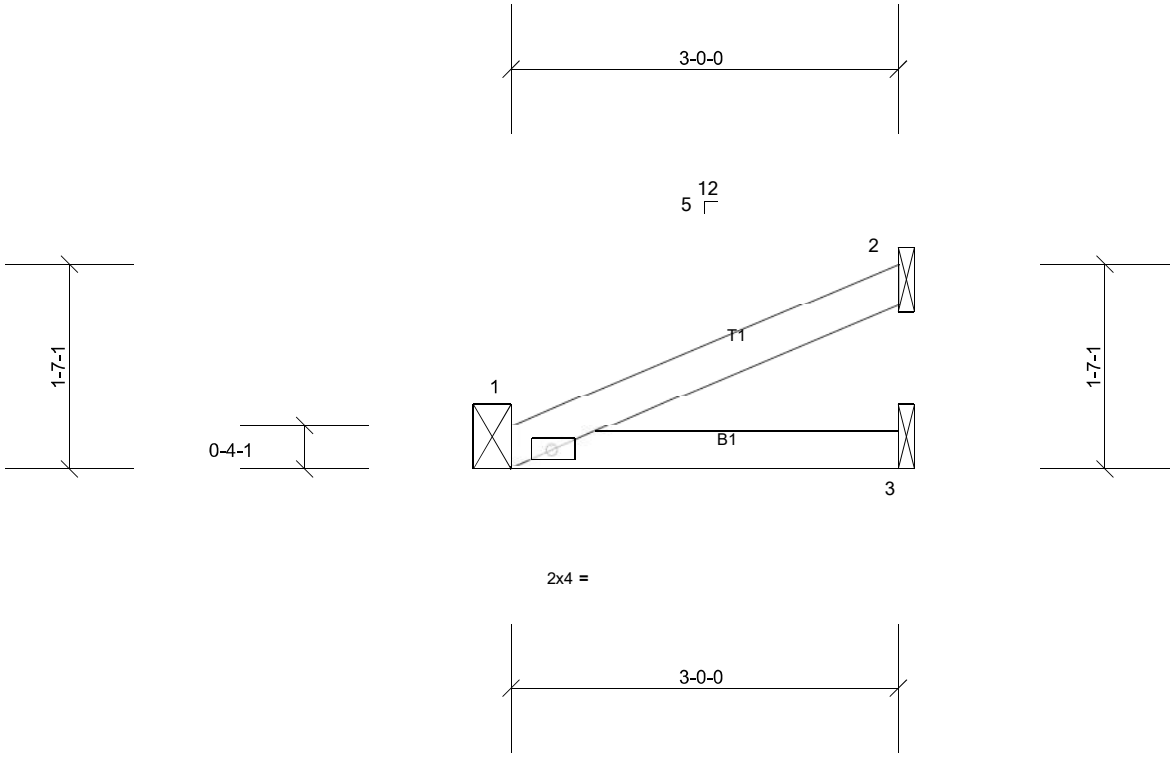


Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.11	Vert(LL)	0.01	3-6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	-0.01	3-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MP							Weight: 9 lb	FT = 20%

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

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

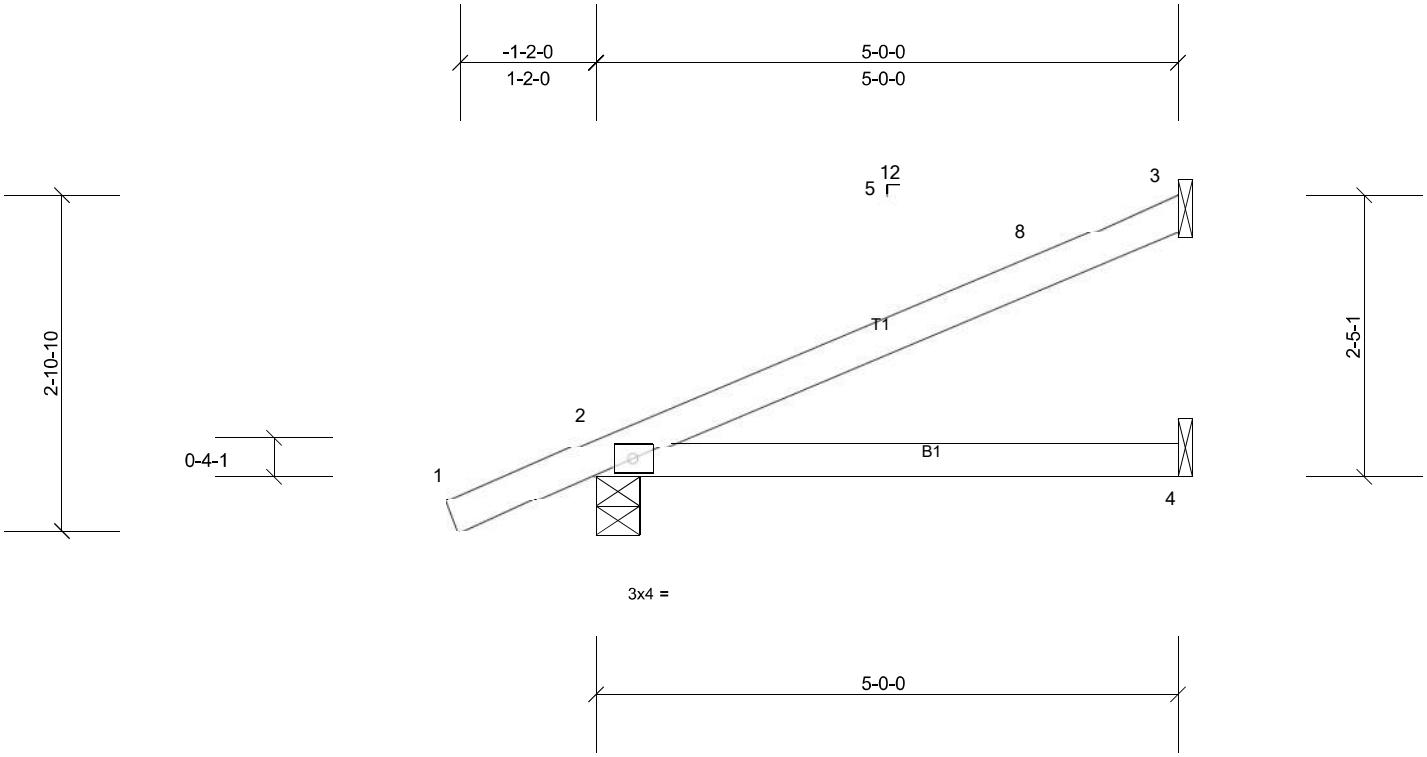
REACTIONS (lb/size) 1=97/ Mechanical, (min. 0-1-8), 2=59/ Mechanical, (min. 0-1-8), 3=38/ Mechanical, (min. 0-1-8)
Max Horiz 1=67 (LC 12)
Max Uplift 1=-35 (LC 12), 2=-61 (LC 12), 3=-3 (LC 12)
Max Grav 1=97 (LC 1), 2=59 (LC 1), 3=52 (LC 3)

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

NOTES
1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; 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) 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 35 lb uplift at joint 1, 61 lb uplift at joint 2 and 3 lb uplift at joint 3.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	J BASE
HARMONY FRAME	J55F	Jack-Open	8	1	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	1.25	TC	0.36	Vert(LL)	0.05	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.32	Vert(CT)	-0.05	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: 18 lb	FT = 20%

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

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

REACTIONS (lb/size) 2=226/0-4-8, (min. 0-1-8), 3=98/ Mechanical, (min. 0-1-8), 4=58/ Mechanical, (min. 0-1-8)
Max Horiz 2=136 (LC 12)
Max Uplift 2=-114 (LC 12), 3=-105 (LC 12)
Max Grav 2=226 (LC 1), 3=98 (LC 1), 4=88 (LC 3)

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

NOTES
1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-11 to 3-9-5, Zone1 3-9-5 to 4-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 105 lb uplift at joint 3 and 114 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	J BASE
HARMONY FRAME	J55PF	Jack-Open	2	1	Job Reference (optional)

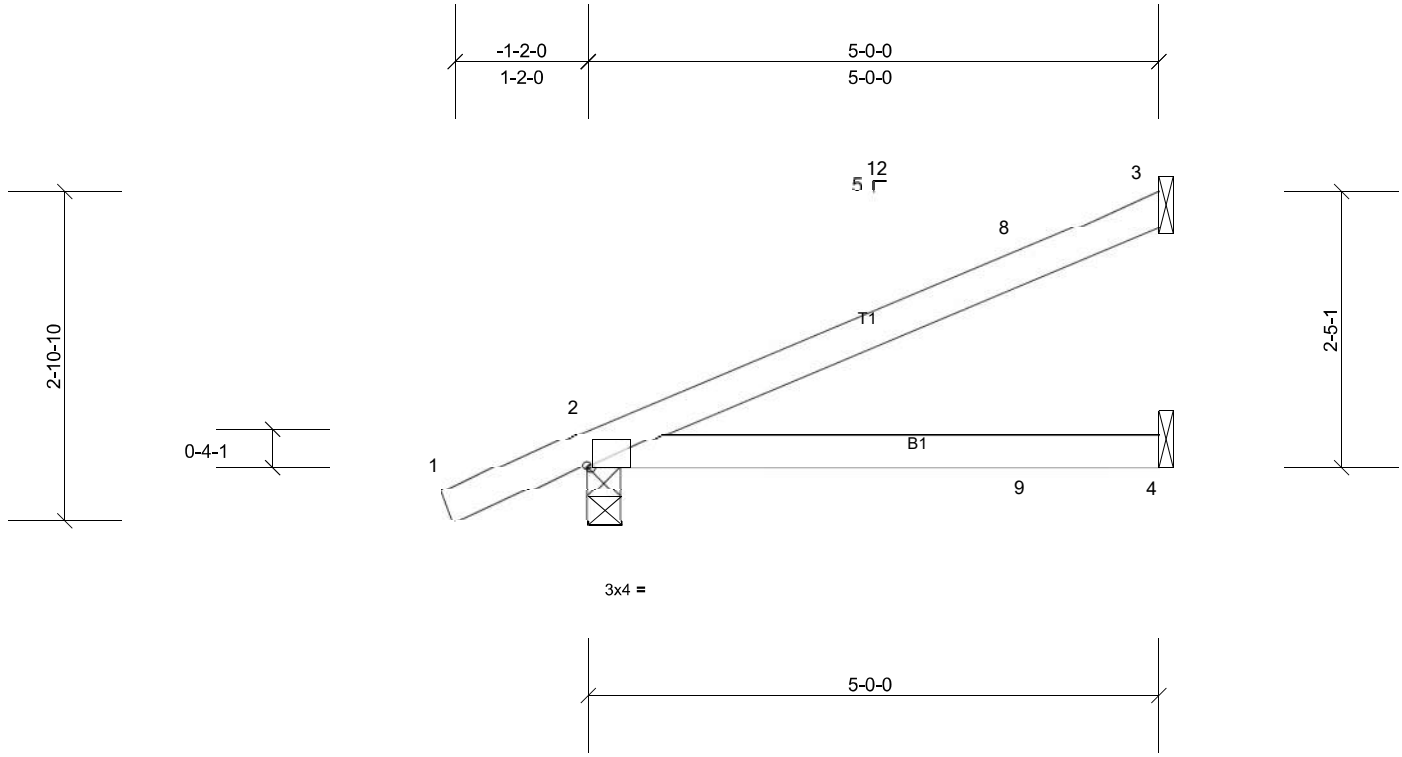


Plate Offsets (X, Y): [2:0-0-6,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	0.15	4-7	>398	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	0.13	4-7	>456	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 = 20%

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

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

REACTIONS (lb/size) 2=226/0-3-8, (min. 0-1-8), 3=98/ Mechanical, (min. 0-1-8), 4=58/ Mechanical, (min. 0-1-8)
Max Horiz 2=136 (LC 12)
Max Uplift 2=-162 (LC 8), 3=-105 (LC 12), 4=-42 (LC 9)
Max Grav 2=226 (LC 1), 3=98 (LC 1), 4=88 (LC 3)

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

NOTES
1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-11 to 3-9-5, Zone1 3-9-5 to 4-11-4 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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 105 lb uplift at joint 3, 162 lb uplift at joint 2 and 42 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	J BASE
HARMONY FRAME	J75F	Jack-Open	16	1	Job Reference (optional)

Maronda Homes, Sanford, user — Run: 8.72 S Nov 2 2023 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Tue Aug 27 15:21:47 — Page: 1

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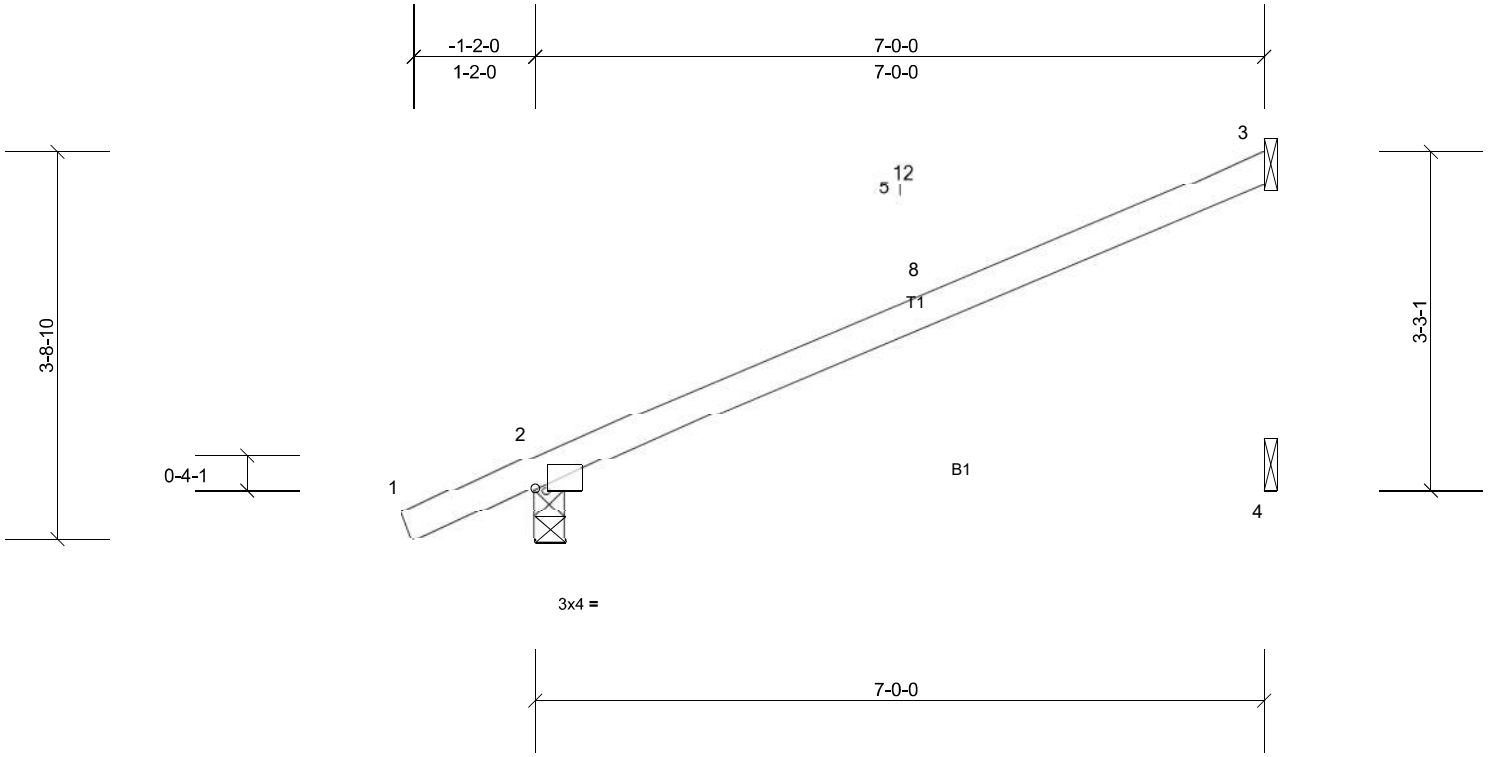


Plate Offsets (X, Y): [2:0-1-6,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.79	Vert(LL)	0.18	4-7	>460	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.66	Vert(CT)	-0.21	4-7	>391	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: 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=290/0-3-8, (min. 0-1-8), 3=142/ Mechanical, (min. 0-1-8), 4=82/ Mechanical, (min. 0-1-8)
Max Horiz 2=181 (LC 12)
Max Uplift 2=-136 (LC 12), 3=-153 (LC 12)
Max Grav 2=290 (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=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-11 to 3-9-5, Zone1 3-9-5 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 153 lb uplift at joint 3 and 136 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	J BASE
HARMONY FRAME	J75PF	Jack-Open	3	1	Job Reference (optional)

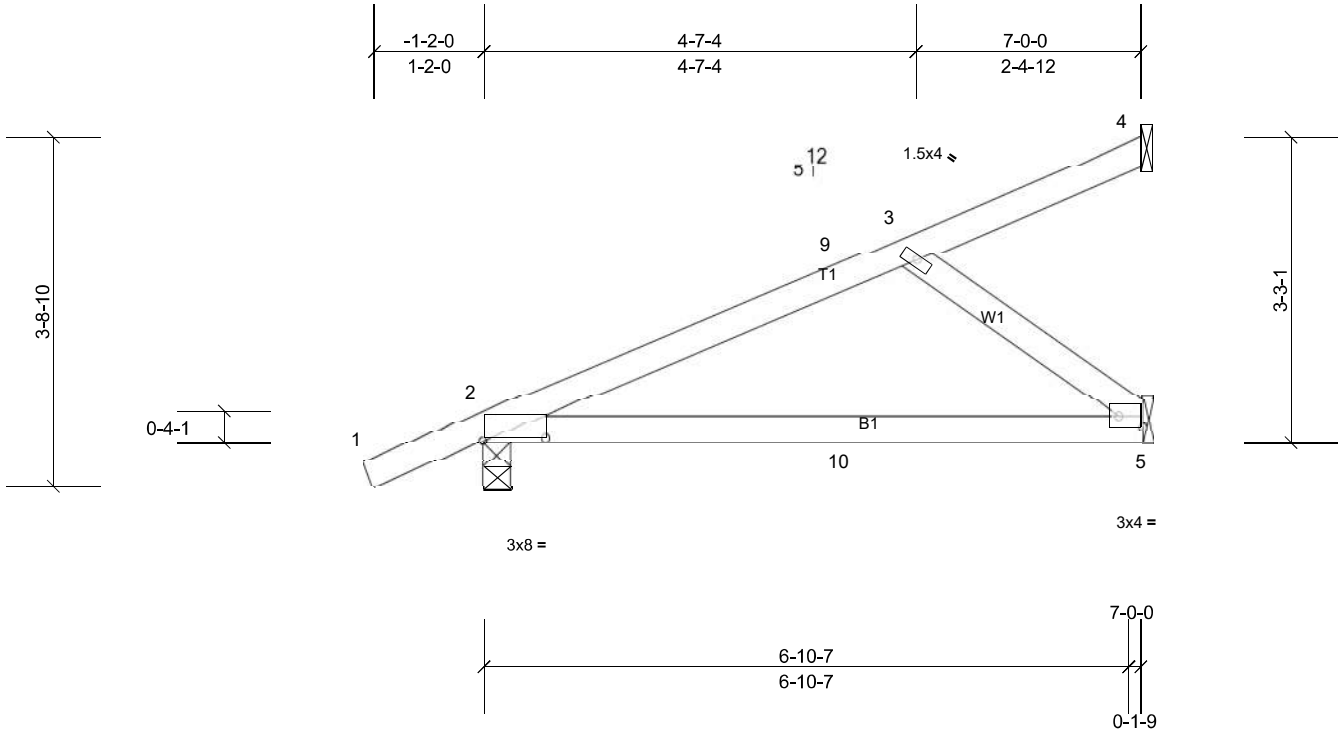


Plate Offsets (X, Y): [2:0-8-0,0-0-6], [5:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.74	Vert(LL)	0.34	5-8	>249	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.92	Vert(CT)	0.29	5-8	>290	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MP							Weight: 28 lb	FT = 20%

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

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

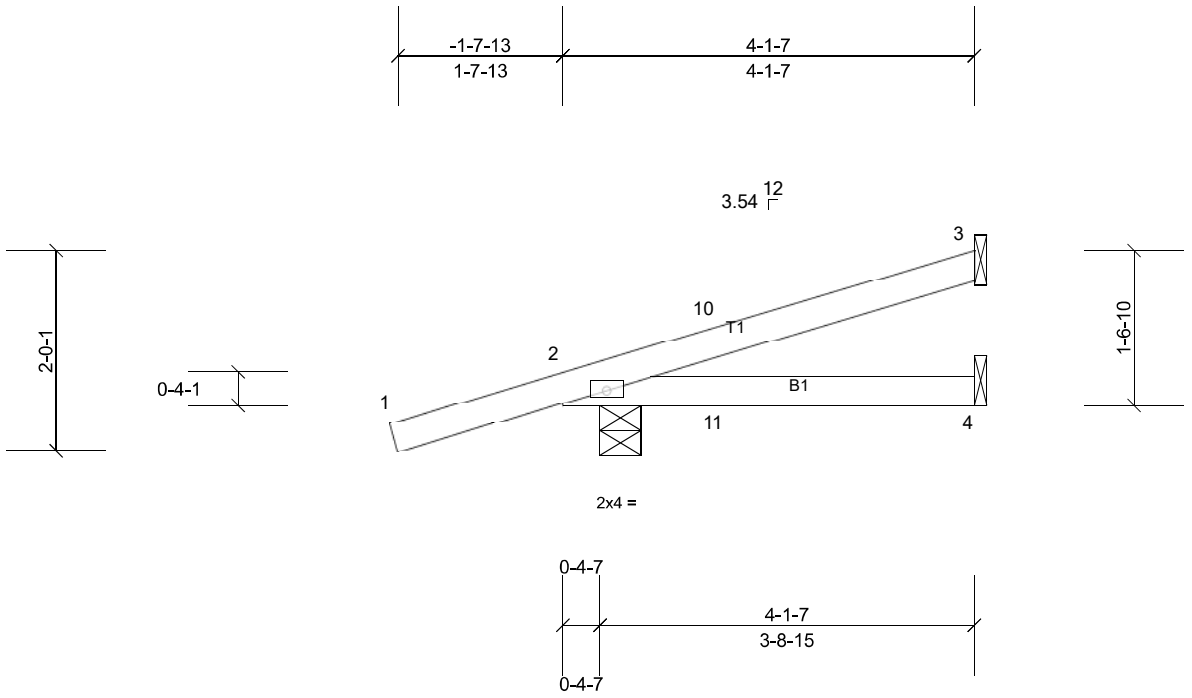
REACTIONS (lb/size) 2=292/0-3-8, (min. 0-1-8), 4=19/ Mechanical, (min. 0-1-8), 5=204/ Mechanical, (min. 0-1-8)
Max Horiz 2=181 (LC 12)
Max Uplift 2=-198 (LC 8), 4=-45 (LC 12), 5=-155 (LC 8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-9=-221/353, 3-9=-167/330
BOT CHORD 2-10=-526/207, 5-10=-526/207
WEBS 3-5=-259/656

NOTES
1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-11 to 3-9-5, Zone1 3-9-5 to 6-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 4, 198 lb uplift at joint 2 and 155 lb uplift at joint 5.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	J BASE
HARMONY FRAME	JGR35PF	Diagonal Hip Girder	1	1	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	1.25	TC	0.26	Vert(LL)	-0.03	4-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.19	Vert(CT)	-0.03	4-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MP							Weight: 15 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-1-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

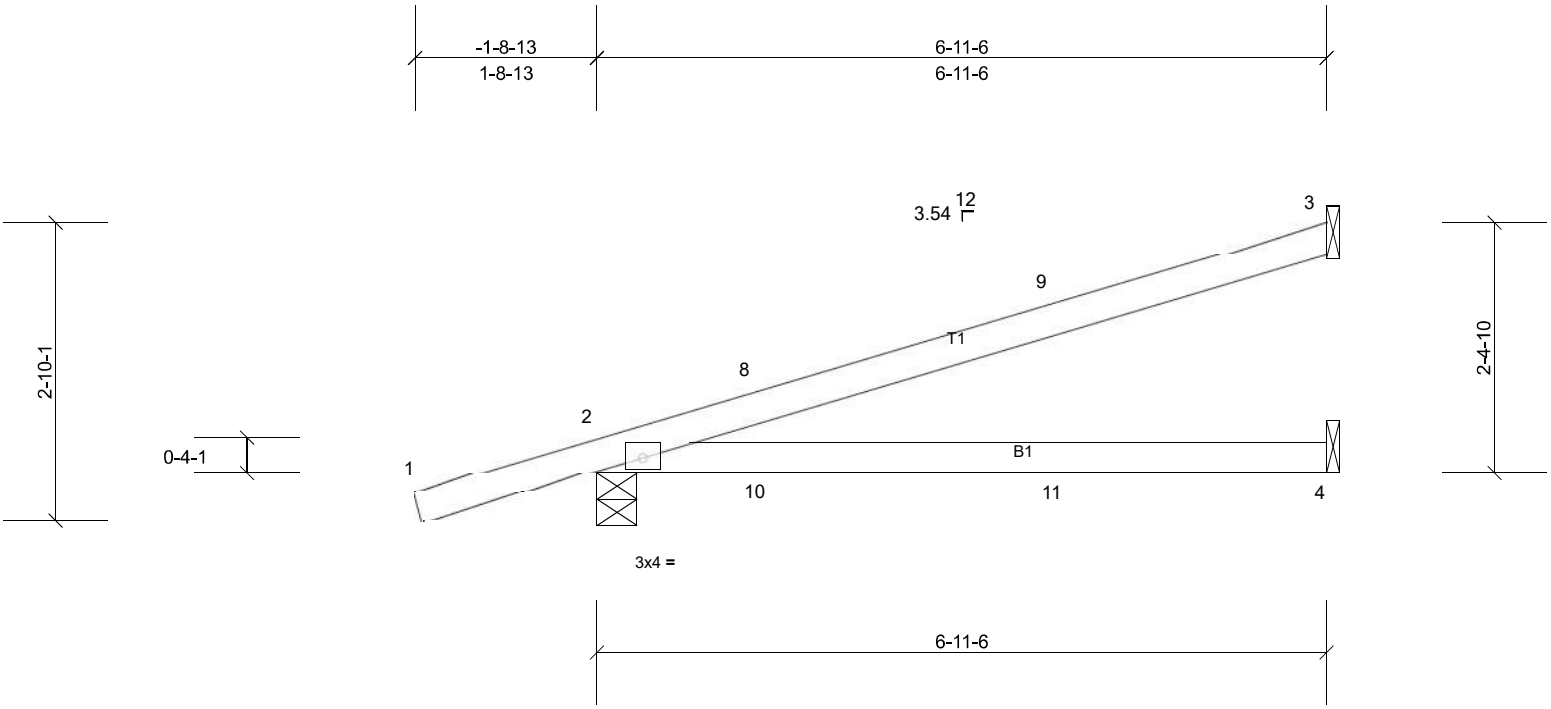
REACTIONS (lb/size) 2=175/0-4-15, (min. 0-1-8), 3=45/ Mechanical, (min. 0-1-8), 4=16/ Mechanical, (min. 0-1-8)
Max Horiz 2=101 (LC 25)
Max Uplift 2=-171 (LC 4), 3=-52 (LC 8)
Max Grav 2=192 (LC 18), 3=50 (LC 18), 4=56 (LC 6)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-298/213
BOT CHORD 2-11=-229/366

NOTES
1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; Lumber DOL=1.60 plate grip DOL=1.60
2) WARNING: Top chord live load is below minimum required by FRC. The building design professional for the overall structure to verify adequacy of top chord live load.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 3 and 171 lb uplift at joint 2.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 84 lb down and 45 lb up at 1-6-1, and 104 lb down and 92 lb up at 1-6-1 on top chord, and 16 lb down and 8 lb up at 1-6-1, and 36 lb down and 66 lb up at 1-6-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-46, 4-5=-20
Concentrated Loads (lb)
Vert: 10=73, 11=37

Job	Truss	Truss Type	Qty	Ply	J BASE
HARMONY FRAME	JGR55F	Diagonal Hip Girder	2	1	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	1.25	TC	0.57	Vert(LL)	0.14	4-7	>603	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.21	4-7	>393	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MP							Weight: 24 lb	FT = 20%

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

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=215/0-4-9, (min. 0-1-8), 3=124/ Mechanical, (min. 0-1-8), 4=75/ Mechanical, (min. 0-1-8)
Max Horiz 2=147 (LC 4)
Max Uplift 2=-223 (LC 4), 3=-133 (LC 8)
Max Grav 2=253 (LC 18), 3=128 (LC 21), 4=125 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-261/25

NOTES
1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; Lumber DOL=1.60 plate grip DOL=1.60
2) WARNING: Top chord live load is below minimum required by FRC. The building design professional for the overall structure to verify adequacy of top chord live load.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 133 lb uplift at joint 3 and 223 lb uplift at joint 2.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 150 lb down and 91 lb up at 1-6-1, 75 lb down and 45 lb up at 1-6-1, and 8 lb down and 60 lb up at 4-4-0, and 30 lb down and 121 lb up at 4-4-0 on top chord, and 48 lb down and 8 lb up at 1-6-1, 24 lb down at 1-6-1, and 9 lb down at 4-4-0, and 18 lb down at 4-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-46, 4-5=-20
Concentrated Loads (lb)
Vert: 8=136, 9=-1, 11=-17

Job	Truss	Truss Type	Qty	Ply	J BASE
HARMONY FRAME	JGR75F	Diagonal Hip Girder	1	1	Job Reference (optional)

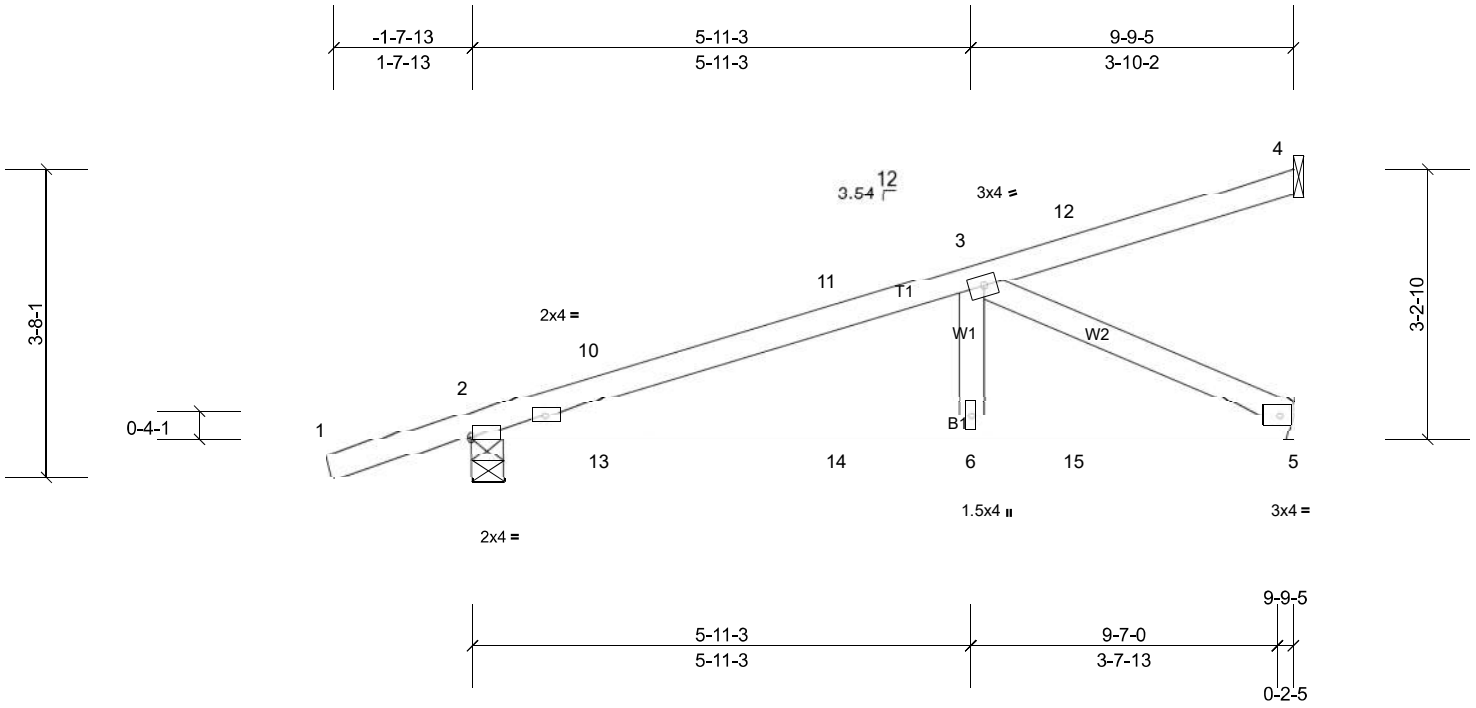


Plate Offsets (X, Y): [2:Edge,0-0-6]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	0.05	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.07	6-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 41 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-10-3 oc bracing.

REACTIONS (lb/size) 2=370/0-4-9, (min. 0-1-8), 4=80/ Mechanical, (min. 0-1-8), 5=317/ Mechanical, (min. 0-1-8)
Max Horiz 2=192 (LC 25)
Max Uplift 2=-276 (LC 4), 4=-87 (LC 4), 5=-138 (LC 8)
Max Grav 2=411 (LC 21), 4=80 (LC 1), 5=324 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-624/247, 10-11=-619/251, 3-11=-590/258
BOT CHORD 2-13=-347/594, 13-14=-347/594, 6-14=-347/594, 6-15=-347/594, 5-15=-347/594
WEBS 3-6=0/277, 3-5=-655/383

NOTES
1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; Lumber DOL=1.60 plate grip DOL=1.60
2) WARNING: Top chord live load is below minimum required by FRC. The building design professional for the overall structure to verify adequacy of top chord live load.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 4, 276 lb uplift at joint 2 and 138 lb uplift at joint 5.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 89 lb down and 45 lb up at 1-6-1, 89 lb down and 45 lb up at 1-6-1, 30 lb down and 60 lb up at 4-4-0, 30 lb down and 60 lb up at 4-4-0, and 53 lb down and 101 lb up at 7-1-15, and 53 lb down and 101 lb up at 7-1-15 on top chord, and 24 lb down and 8 lb up at 1-6-1, 24 lb down and 8 lb up at 1-6-1, 9 lb down at 4-4-0, 9 lb down at 4-4-0, and 31 lb down at 7-1-15, and 31 lb down 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=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-46, 5-7=-20
Concentrated Loads (lb)
Vert: 10=91, 11=-1, 12=-66, 14=-11, 15=-59

Job	Truss	Truss Type	Qty	Ply	J BASE
HARMONY FRAME	JGR75PF	Diagonal Hip Girder	1	1	Job Reference (optional)

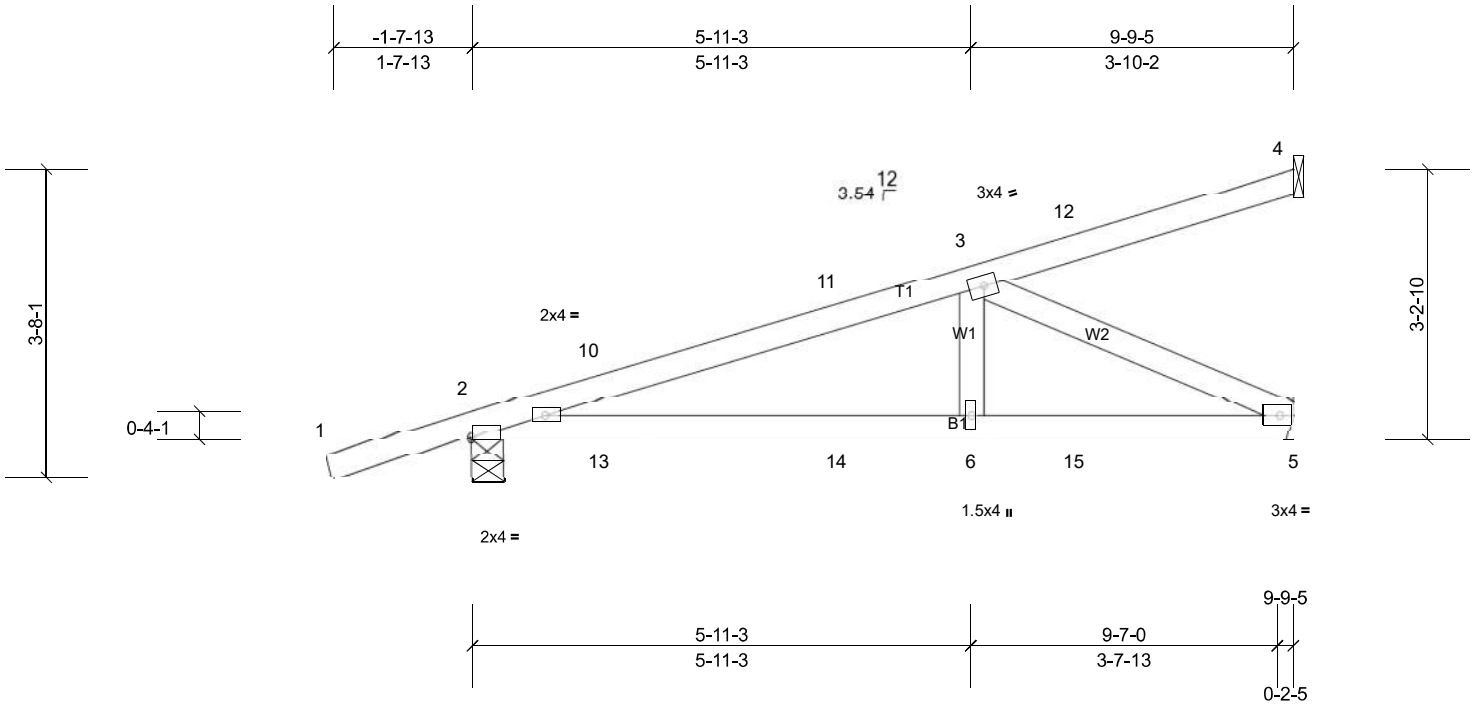


Plate Offsets (X, Y): [2:Edge,0-0-6]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	0.07	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.07	6-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.21	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 41 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-4-6 oc bracing.

REACTIONS (lb/size) 2=370/0-4-9, (min. 0-1-8), 4=80/ Mechanical, (min. 0-1-8), 5=317/ Mechanical, (min. 0-1-8)
Max Horiz 2=192 (LC 25)
Max Uplift 2=-424 (LC 4), 4=-88 (LC 8), 5=-312 (LC 4)
Max Grav 2=411 (LC 21), 4=80 (LC 1), 5=324 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-624/522, 10-11=-619/525, 3-11=-590/532
BOT CHORD 2-13=-612/594, 13-14=-612/594, 6-14=-612/594, 6-15=-612/594, 5-15=-612/594
WEBS 3-6=-128/277, 3-5=-655/675

NOTES
1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; 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
2) WARNING: Top chord live load is below minimum required by FRC. The building design professional for the overall structure to verify adequacy of top chord live load.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 4, 424 lb uplift at joint 2 and 312 lb uplift at joint 5.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 84 lb down and 45 lb up at 1-6-1, 84 lb down and 45 lb up at 1-6-1, 30 lb down and 60 lb up at 4-4-0, 30 lb down and 60 lb up at 4-4-0, and 53 lb down and 101 lb up at 7-1-15, and 53 lb down and 101 lb up at 7-1-15 on top chord, and 52 lb down and 8 lb up at 1-6-1, 52 lb down and 8 lb up at 1-6-1, 12 lb down at 4-4-0, 12 lb down at 4-4-0, and 33 lb down and 60 lb up at 7-1-15, and 33 lb down and 60 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=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-46, 5-7=-20
Concentrated Loads (lb)
Vert: 10=91, 11=-1, 12=-66, 14=-11, 15=-59

Job	Truss	Truss Type	Qty	Ply	J BASE
HARMONY FRAME	MGRD01	Jack-Open Girder	1	1	Job Reference (optional)

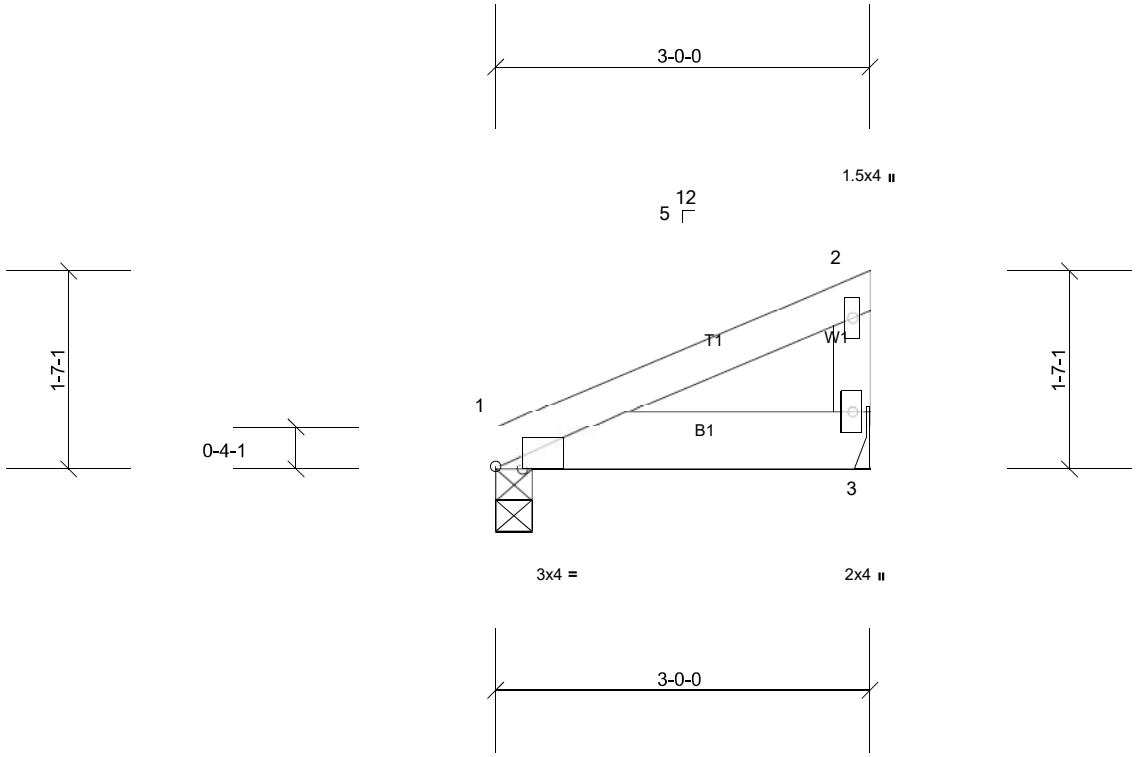


Plate Offsets (X, Y): [1:0-2-9,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.06	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.01	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MP							Weight: 13 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 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=143/0-3-8, (min. 0-1-8), 3=122/ Mechanical, (min. 0-1-8)
Max Horiz 1=65 (LC 8)
Max Uplift 1=-65 (LC 8), 3=-80 (LC 8)

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

NOTES
1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; Lumber DOL=1.60 plate grip DOL=1.60
2) 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 65 lb uplift at joint 1 and 80 lb uplift at joint 3.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 77 lb down and 47 lb up at 1-1-13 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-46, 1-3=-20
Concentrated Loads (lb)
Vert: 5=-77

Job	Truss	Truss Type	Qty	Ply	J BASE
HARMONY FRAME	T12F	Roof Special	1	1	Job Reference (optional)

Maronda Homes, Sanford, user — Run: 8.72 S Nov 2 2023 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Tue Aug 27 15:21:51 — Page: 1

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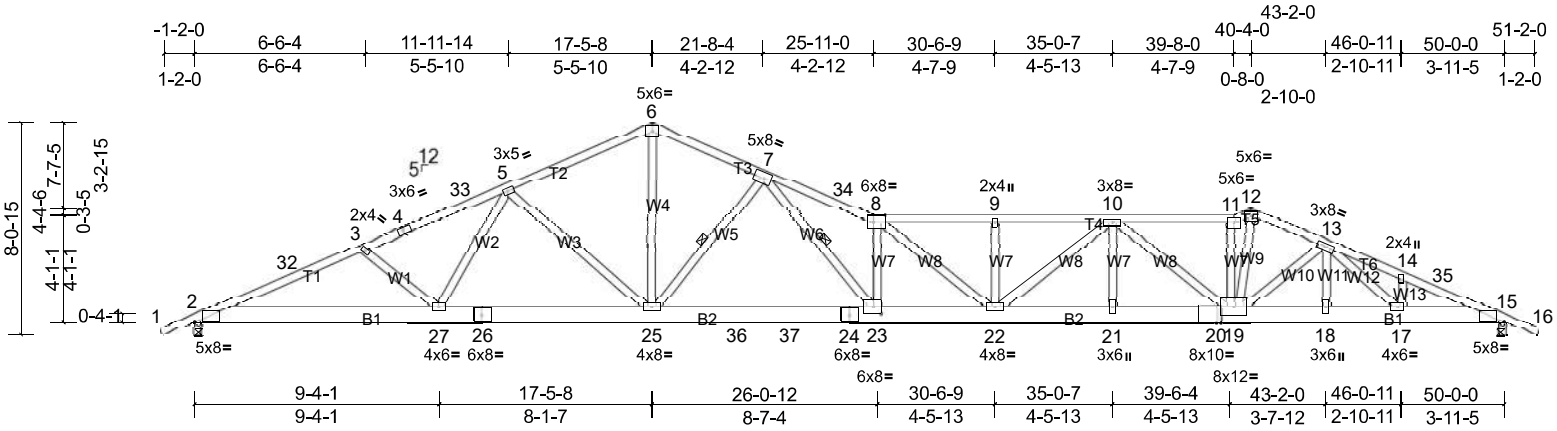

Plate Offsets (X, Y): [2:0-3-6,0-0-2], [8:0-5-4,Edge], [15:0-3-6,0-0-2], [20:0-2-0,Edge], [23:0-3-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.58	Vert(LL)	0.73	22-23	>820	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.91	Vert(CT)	-1.11	22-23	>539	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.18	15	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 353 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.1D
BOT CHORD	2x8 SP No.2
WEBS	2x4 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 2-2-15 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 5-8-10 oc bracing.
WEBS	1 Row at midpt 7-25, 7-23

REACTIONS (lb/size) 2=1703/0-3-8, (min. 0-2-4), 15=1703/0-3-8, (min. 0-2-3)
Max Horiz 2=183 (LC 16)
Max Uplift 2=-639 (LC 12), 15=-816 (LC 13)
Max Grav 2=1884 (LC 2), 15=1880 (LC 2)

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

TOP CHORD 2-32=-4172/1600, 3-32=-4145/1609, 3-4=-4005/1501, 4-33=-3965/1508, 5-33=-3931/1517, 5-6=-3236/1330, 6-7=-3226/1324, 7-34=-6857/2688, 8-34=-6874/2679, 8-9=-5911/2385, 9-10=-5911/2385, 10-11=-4034/1718, 11-12=-4236/1817, 12-13=-3874/1635, 13-14=-4234/1808, 14-35=-4219/1743, 15-35=-4239/1739

BOT CHORD 2-27=-1315/3832, 26-27=-1117/3399, 25-26=-1117/3399, 25-36=-1389/4132, 36-37=-1389/4132, 24-37=-1389/4132, 23-24=-1389/4132, 22-23=-2160/6236, 21-22=-1954/5248, 20-21=-1954/5248, 19-20=-1954/5248, 18-19=-1478/3864, 17-18=-1478/3864, 15-17=-1520/3894

WEBS 3-27=-266/307, 5-27=-135/551, 5-25=-611/436, 6-25=-832/2285, 7-25=-1917/958, 7-23=-1408/3498, 8-23=-2504/1201, 11-19=-1379/679, 10-19=-1544/590, 12-19=-1127/2717, 13-19=-366/254, 13-18=-43/270, 8-22=-420/158, 10-22=-307/853

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-11 to 3-9-5, Zone1 3-9-5 to 17-5-8, Zone2 17-5-8 to 24-6-6, Zone1 24-6-6 to 40-4-0, Zone2 40-4-0 to 47-4-14, Zone1 47-4-14 to 51-2-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 639 lb uplift at joint 2 and 816 lb uplift at joint 15.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	J BASE
HARMONY FRAME	T13F	Roof Special	1	1	Job Reference (optional)

Maronda Homes, Sanford, user — Run: 8.72 S Nov 2 2023 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Tue Aug 27 15:21:53 — Page: 1

ID:4mLj8fhyDmSbF86t9s4FtjzHeZQ-b0Vx1ez8zrsNhlbMDpjtCglxP6AL?b8U?LDU0dyjdAi

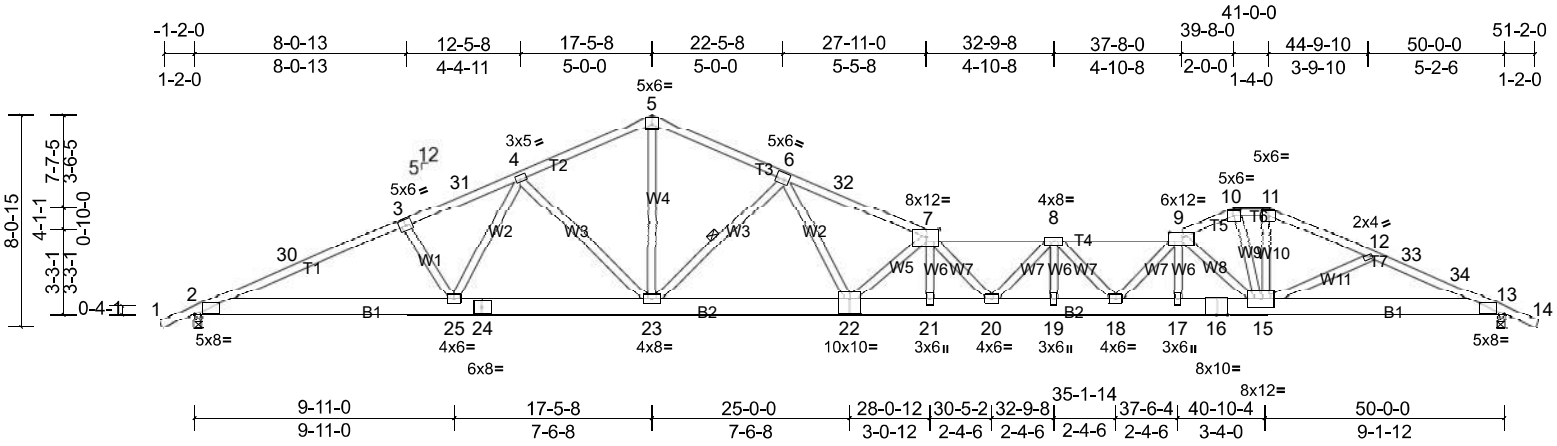

Plate Offsets (X, Y): [2:0-3-6,0-0-2], [3:0-3-0,0-3-0], [9:0-6-0,0-2-8], [10:0-3-0,0-2-4], [11:0-3-0,0-2-4], [13:0-3-6,0-0-2], [22:0-5-0,0-6-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	0.81	21	>741	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-1.09	21	>545	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.14	13	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 352 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2 *Except* T3:2x4 SP No.1D, T4:2x6 SP No.2
BOT CHORD	2x8 SP No.1D
WEBS	2x4 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 2-3-5 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 5-7-10 oc bracing.
WEBS	1 Row at midpt 6-23

REACTIONS (lb/size) 2=1703/0-3-8, (min. 0-1-12), 13=1703/0-3-8, (min. 0-1-12)
Max Horiz 2=-183 (LC 13)
Max Uplift 2=-639 (LC 12), 13=-816 (LC 13)

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

TOP CHORD 2-30=-3677/1553, 3-30=-3618/1566, 3-31=-3526/1535, 4-31=-3455/1548, 4-5=-2869/1343, 5-6=-2872/1330, 6-32=-5418/2363, 7-32=-5469/2353, 7-8=-6898/3040, 8-9=-6012/2719, 9-10=-3260/1524, 10-11=-3354/1586, 11-12=-3591/1646, 12-33=-3770/1819, 33-34=-3780/1814, 13-34=-3812/1809

BOT CHORD 2-25=-1285/3340, 24-25=-1119/2995, 23-24=-1119/2995, 22-23=-1532/3961, 21-22=-2903/7057, 20-21=-2900/7052, 19-20=-2839/6681, 18-19=-2839/6681, 17-18=-2264/5281, 16-17=-2266/5284, 15-16=-2266/5284, 13-15=-1578/3490

WEBS 3-25=-246/291, 4-25=-216/514, 4-23=-564/411, 5-23=-823/1955, 11-15=-509/1266, 12-15=-236/311, 6-23=-1929/1033, 6-22=-998/2358, 7-22=-2822/1384, 8-20=-117/327, 8-18=-1023/458, 9-18=-411/1091, 10-15=-541/1204, 9-15=-3067/1433

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-11 to 3-9-5, Zone1 3-9-5 to 17-5-8, Zone2 17-5-8 to 24-6-6, Zone1 24-6-6 to 39-8-0, Zone3 39-8-0 to 41-0-0, Zone2 41-0-0 to 48-0-14, Zone1 48-0-14 to 51-2-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 639 lb uplift at joint 2 and 816 lb uplift at joint 13.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	J BASE
HARMONY FRAME	T14F	Roof Special	1	1	Job Reference (optional)

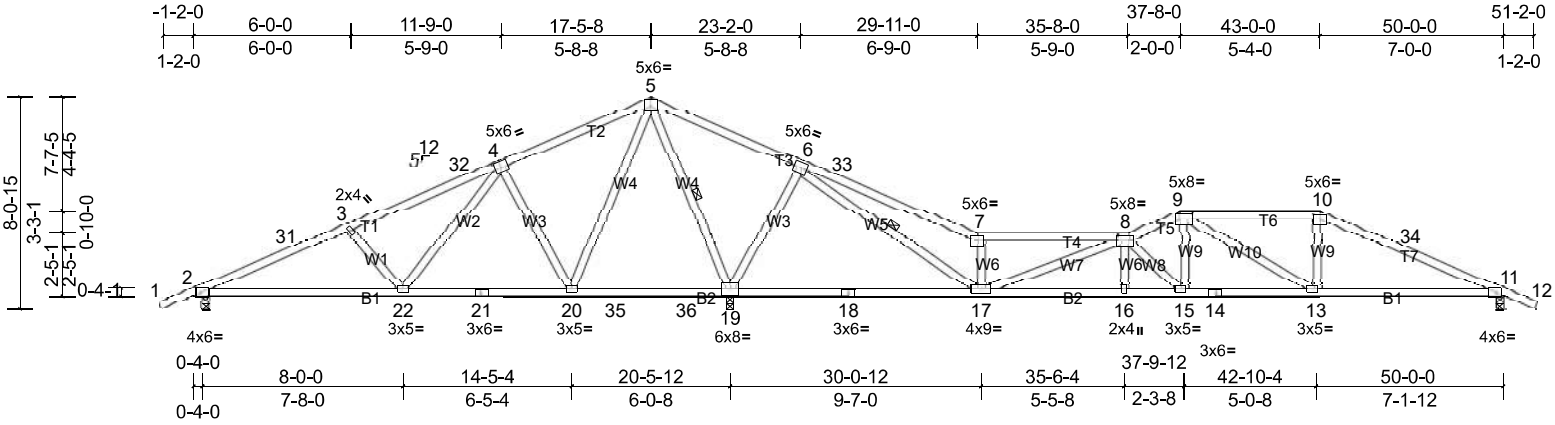

Plate Offsets (X, Y): [4:0-3-0,0-3-0], [8:0-5-4,0-2-8], [9:0-5-12,0-2-8], [10:0-3-0,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.72	Vert(LL)	-0.18	17-19	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.38	17-19	>927	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.02	19	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 256 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-1-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-2-13 oc bracing.
WEBS 1 Row at midpt 5-19, 6-17

REACTIONS (lb/size) 2=284/0-3-8, (min. 0-1-8), 11=716/0-3-8, (min. 0-1-8), 19=2412/0-3-8, (min. 0-3-3)
Max Horiz 2=-183 (LC 13)
Max Uplift 2=-280 (LC 12), 11=-396 (LC 13), 19=-1022 (LC 13)
Max Grav 2=481 (LC 25), 11=784 (LC 28), 19=2707 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-31=-586/440, 3-31=-531/465, 3-32=-416/501, 4-32=-323/530, 4-5=-318/865, 5-6=-657/1846, 6-33=-201/254, 7-33=-308/242, 8-9=-1306/696, 9-10=-1220/723, 10-34=-1303/711, 11-34=-1340/701
BOT CHORD 2-22=-415/504, 21-22=-666/582, 20-21=-666/582, 20-35=-973/707, 35-36=-973/707, 19-36=-973/707, 18-19=-1347/687, 17-18=-1347/687, 16-17=-630/1448, 15-16=-632/1443, 14-15=-470/1210, 13-14=-470/1210, 11-13=-532/1207
WEBS 3-22=-272/291, 4-22=-170/573, 4-20=-503/413, 5-20=-321/685, 5-19=-1942/812, 6-19=-692/569, 6-17=-869/1873, 7-17=-373/370, 8-17=-1355/728, 8-15=-353/237, 9-15=-110/363, 10-13=0/264

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-2-11 to 3-9-5, Zone1 3-9-5 to 17-5-8, Zone2 17-5-8 to 24-6-6, Zone1 24-6-6 to 37-8-0, Zone3 37-8-0 to 43-0-0, Zone2 43-0-0 to 50-0-0, Zone1 50-0-0 to 51-2-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 280 lb uplift at joint 2, 1022 lb uplift at joint 19 and 396 lb uplift at joint 11.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	J BASE valley Job Reference (optional)
HARMONY FRAME	V1	Jack-Closed	2	1	

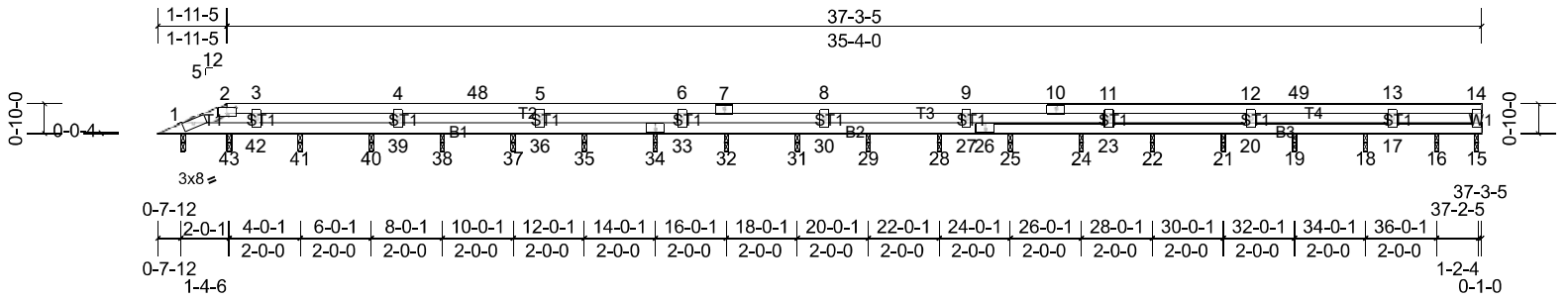

Plate Offsets (X, Y): [2:0-3-0,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.13	Vert(LL)	0.00	38-39	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	0.00	32-33	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	34	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 114 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS All bearings 0-1-8.
(lb) - Max Horiz 1=20 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 15, 16, 18, 19, 21, 22, 24, 25, 28, 29, 31, 32, 34, 35, 37, 38, 40, 43
Max Grav All reactions 250 (lb) or less at joint(s) 1, 15, 16, 18, 19, 21, 22, 24, 25, 28, 29, 31, 32, 34, 35, 37, 38, 40, 41, 43

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

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Zone3 -0-0-10 to 1-2-4, Zone2 1-2-4 to 8-3-2, Zone1 8-3-2 to 36-4-8 zone; cantilever left exposed ;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 3x6 MT20 unless otherwise indicated.
6) Gable studs spaced at 4-0-0 oc.
7) 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.
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 at joint(s) 1, 34, 43, 41, 40, 38, 37, 35, 32, 31, 29, 28, 25, 24, 22, 21, 19, 18, 16, 15.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 34, 43, 40, 38, 37, 35, 32, 31, 29, 28, 25, 24, 22, 21, 19, 18, 16, 15.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	J BASE valley Job Reference (optional)
HARMONY FRAME	V2	Jack-Closed	2	1	

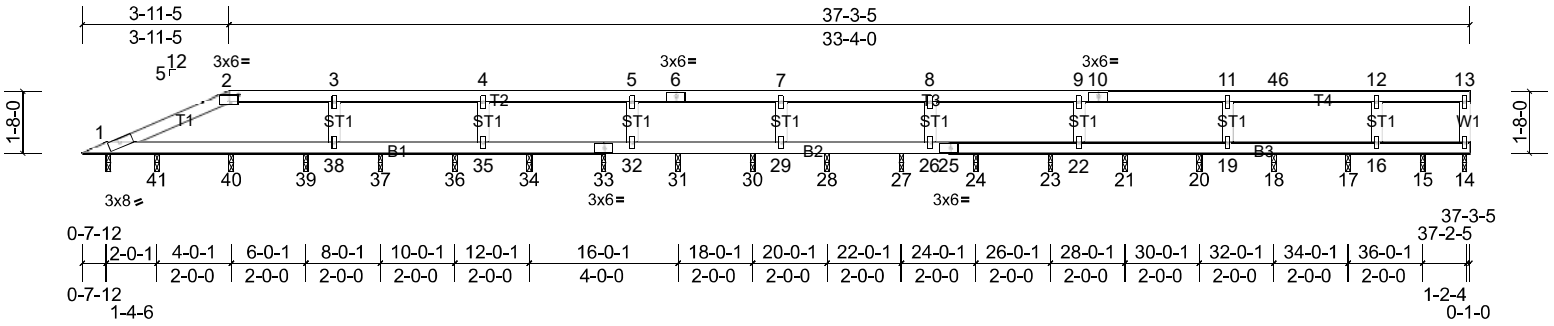

Plate Offsets (X, Y): [2:0-3-0,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	0.00	37-38	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.19	Vert(CT)	0.00	37-38	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	33	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 125 lb	FT = 20%

LUMBER

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

BRACING

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

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, 14, 15, 17, 18, 20, 21, 23, 24, 27, 28, 30, 31, 33, 34, 36, 37, 39, 40 except 41=-120 (LC 12)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 14, 15, 17, 18, 20, 21, 23, 24, 27, 28, 30, 31, 33, 34, 36, 37, 39, 40 except 41=258 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-38=-222/266

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Zone3 -0-0-10 to 3-2-4, Zone2 3-2-4 to 10-0-2, Zone1 10-0-2 to 36-4-8 zone; cantilever left exposed ;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) 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.
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 at joint(s) 1, 33, 41, 40, 39, 37, 36, 34, 31, 30, 28, 27, 24, 23, 21, 20, 18, 17, 15, 14.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 33, 40, 39, 37, 36, 34, 31, 30, 28, 27, 24, 23, 21, 20, 18, 17, 15, 14 except (jt=lb) 41=120.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	J BASE valley Job Reference (optional)
HARMONY FRAME	V3	Half Hip	1	1	

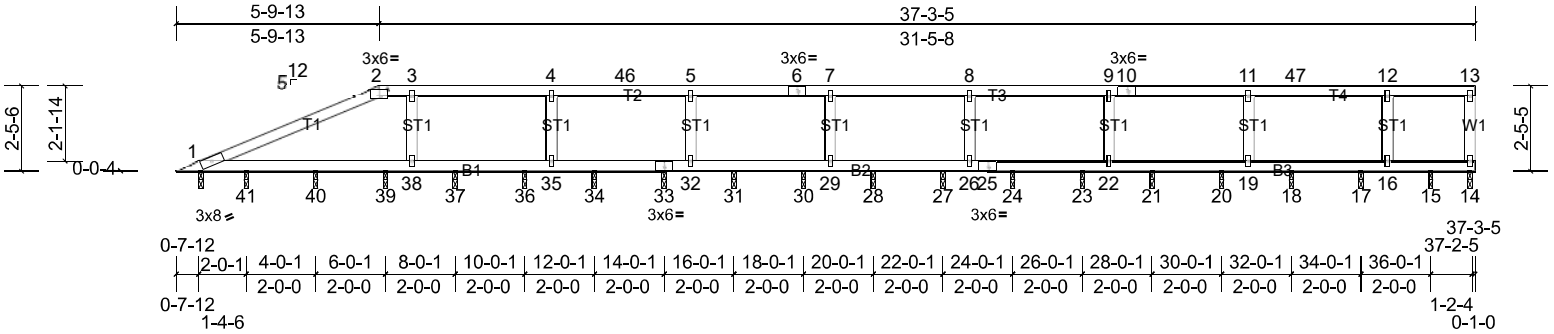

Plate Offsets (X, Y): [2:0-3-0,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	16.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	0.00	37-38	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.20	Vert(CT)	0.00	37-38	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	33	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MS							Weight: 135 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS All bearings 0-1-8.
(lb) - Max Horiz 1=81 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 14, 15, 17, 18, 20, 21, 23, 24, 27, 28, 30, 31, 33, 34, 36, 37, 39, 40 except 41=-142 (LC 12)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 14, 15, 17, 18, 20, 21, 23, 24, 27, 28, 30, 31, 33, 34, 36, 37, 39, 40, 41

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-38=-222/292

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Zone3 -0-0-10 to 5-0-12, Zone2 5-0-12 to 12-1-10, Zone1 12-1-10 to 36-4-8 zone; cantilever left exposed ;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) 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.
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 at joint(s) 1, 33, 41, 40, 39, 37, 36, 34, 31, 30, 28, 27, 24, 23, 21, 20, 18, 17, 15, 14.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 33, 40, 39, 37, 36, 34, 31, 30, 28, 27, 24, 23, 21, 20, 18, 17, 15, 14 except (jt=lb) 41=141.

LOAD CASE(S) Standard