



ENGINEERING NOTE PAGE (ENP-1)
PLEASE READ PRIOR TO INSTALLATION

*For conventional framing roof / ceilings
framing shall conform to OBC.9.23*

NE0618-001

**GREEN YORK HOMES - GRANELLI
HOME CORP - LIANA 2 ELEV 1**

RESPONSIBILITIES

THIS DESIGN IS FOR AN INDIVIDUAL BUILDING COMPONENT AND HAS BEEN BASED ON INFORMATION PROVIDED BY THE DESIGN OFFICE OF KOTT LUMBER. THE UNDERSIGNED ENGINEER DISCLAIMS ANY RESPONSIBILITY FOR DAMAGES AS A RESULT OF FAULTY OR INCORRECT INFORMATION, SPECIFICATION AND/OR DESIGNS FURNISHED TO THE ENGINEER. THE UNDERSIGNED ENGINEER IS ONLY RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THIS BUILDING COMPONENT FOR THE CONDITIONS AND LOADS SHOWN ON THIS DRAWING. THE STRUCTURAL INTEGRITY OF THE BUILDING AND THE VERIFICATION OF THE DIMENSIONS AND THE DESIGN LOADS USED ARE THE RESPONSIBILITY OF THE BUILDING DESIGNER.

TRUSSES ARE DESIGNED IN CONFORMANCE WITH THE RELEVANT SECTIONS OF THE NATIONAL BUILDING CODE OF CANADA OR THE CANADIAN CODE FOR FARM BUILDINGS, WHICHEVER APPLIES TO THE BUILDING TYPE INDICATED ON THE DRAWING

IT IS THE RESPONSIBILITY OF KOTT LUMBER TO ENSURE THAT TRUSSES ARE MANUFACTURED IN CONFORMANCE WITH THESE DESIGNS AND WITH THE SPECIFICATIONS OUTLINED BELOW. THE UNDERSIGNED ENGINEER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

USE AND OCCUPANCY

- The building is of the type indicated on the drawing

LOADING

- The truss loading intensity and distribution as well as load transfer mechanism is that indicated on the drawing
- No buildings, trees, parapets or other projections higher than the roof for which the trusses are used are located within a distance less than ten (10) times the difference in height, or five metres (16 ft) whichever is greater, unless the drawing indicates that the snow drifting has been taken into account

HANDLING, INSTALLATION AND BRACING

- The trusses must be handled and installed by a qualified professional as per the supplied document titled *Information for Truss Installers* and the BCSI-B1 and BCSI-B3 Summary Sheets
- The compression chords are laterally braced by continuous rigid diaphragm sheathing or as specified on the drawing
- Temporary and permanent bracing must be installed as indicated on the truss drawing and according to the BCSI-B1 and BCSI-B3 Summary Sheets. Bracing for the lateral stability of the truss is to be provided by the building designer
- **It is recommended that a Professional Engineer's advice be obtained for the bracing of trusses spanning more than 12.37m (40'-7")**

SUPPORTS

- The trusses are to be supported at the bearing points indicated and anchored to the supports where considered necessary by the designer of the overall structure
- Bearing sizes shown are the minimum required to prevent crushing of the truss members and do not necessarily take into account stability of the overall building structure
- Elevation of bearings must be carefully checked and shimmed to alignment for solid bearings
- Adequate wood truss bearing is the responsibility of the building designer.

DIMENSIONS

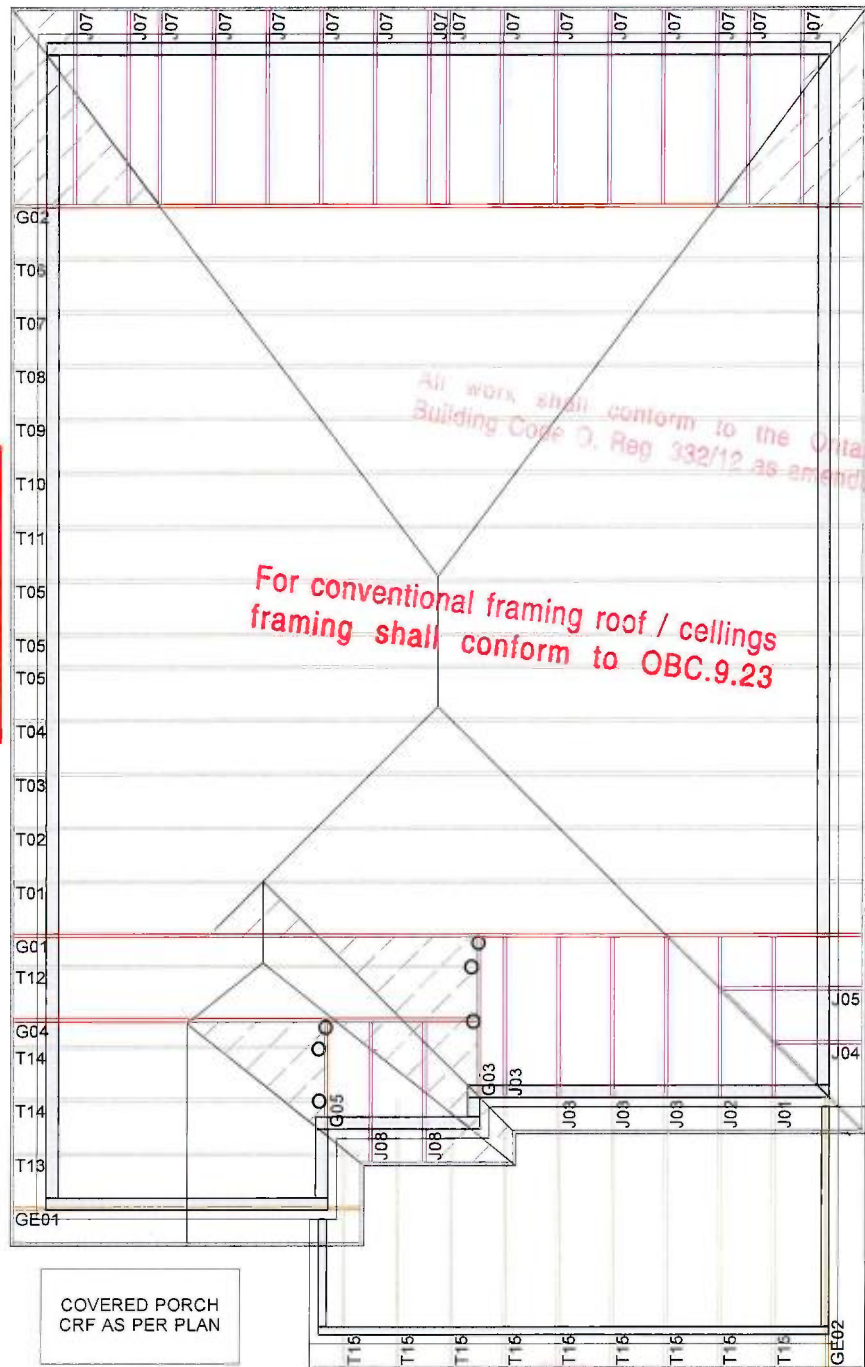
- Geometry of the truss and dimensions indicated on the drawing are identical to those of the installed truss.

Layout based on plans provided by
Jardin Design Group Inc.
Revision #2 dated May 22, 2018

THIS CERTIFICATION IS FOR THE ENGINEERING REVIEW OF STRUCTURAL COMPONENTS SHOWN ON THIS DRAWING AND IS LIMITED TO THE COMPONENTS SUPPLIED BY KOTT LUMBER FOR THE LOADS AND CONDITIONS SHOWN ON THE CALCULATION PAGE OF EACH COMPONENT. THE PLACEMENT OF THESE COMPONENTS ON THIS LAYOUT IS SHOWN FOR REFERENCE ONLY. ROOF TRUSSES MUST BE INSTALLED ACCORDING TO MANUFACTURER'S GUIDELINES AT 24" C/C UNLESS NOTED OTHERWISE. CONVENTIONAL FRAMING SHOWN ON THE LAYOUT MUST BE DESIGNED AND APPROVED BY THE PROJECT ENGINEER. TEMPORARY AND PERMANENT BRACINGS OF THE ROOF AND BUILDING ARE THE RESPONSIBILITY OF THE PROJECT ENGINEER AND TO CONFORM TO BCSI GUIDELINES.



ENG.JOB:NE0618-001



GARAGE TOP OF PLATE
TO MATCH UNDERSIDE
OF SOFFIT

ROOF TRUSS LAYOUT



CONVENTIONAL FRAMING BY OTHERS

SIZE AND LOCATION OF CONVENTIONAL FRAMING IS APPROXIMATE. ALL AREAS MAY NOT BE SHOWN. REFER TO ARCHITECTURAL PLANS FOR DETAILS.

ALL CONVENTIONAL FRAMING TO CONFORM WITH PART 9 OF THE O.B.C RAFTER THAT CROSS MEET OVER TRUSSES TO BE 2X4 SPF @ 24" O/C WITH 2X4 VERT POST TO THE TRUSS BELOW EA CROSS PT. VERT POS. THAN 6" TO HAVE A LATERAL BRACING SO THAT THE DISTANCE BETEN PT & VERT ROWS OF BRACING DOES NOT EXCEED 6'

HANGER LEGEND

X - LUS24
- HGUS26

O - LJS26DS
% - HGUS26-2

DESIGN CRITERIA
SPECIFIED LOADS:

TOP CH.	LL = 23.3 psf
	DL = 3.0 psf
BOT CH.	LL = 0.0 psf
	DL = 7.0 psf
TOTAL LOAD	= 33.3 psf

SPACING @ 24" CENTERS.
THIS TRUSS SYSTEM IS DESIGN FOR RESIDENTIAL
OR SMALL BUILDING REQUIREMENTS OF
PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH PART 9 OF OBC 2012,
BCBC 2012, ABC 2012; CSA 086-09; TPIC 2011

ALLOWABLE DEFLECTION OF EACH COMPONENT = L/360

Model: **LIANA 2 ELE 1**

Customer:	GREEN YORK HOMES
------------------	-------------------------

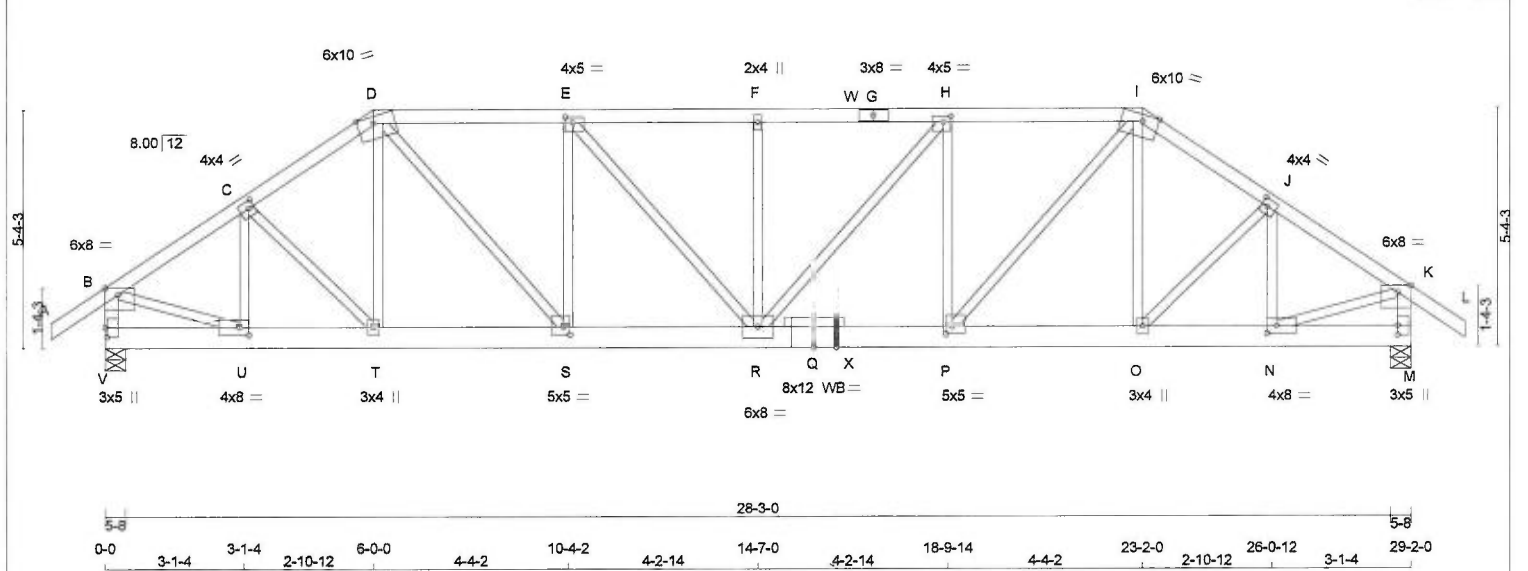
Project:	GRANELLI HOME
-----------------	----------------------

Location: BRAMPTON, ON

Drawn By:	DM
------------------	-----------

Date:	5/30/2018
--------------	------------------

19-444492.000.00 RP



LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS

CHORDS	SIZE	LUMBER	DESCR.	FACTORED	MAXIMUM FACTORED	INPUT	REQRD
A - D	2x4	DRY	No.2	SPF	GROSS REACTION	GROSS REACTION	BRG
D - G	2x4	DRY	No.2	SPF	VERT	HORZ	UP
G - I	2x4	DRY	No.2	SPF	2442	0	2442
I - L	2x4	DRY	No.2	SPF	3055	0	3055
V - B	2x4	DRY	No.2	SPF			
M - K	2x4	DRY	No.2	SPF			
V - Q	2x6	DRY	2100F 1.8E	SPF			
Q - M	2x6	DRY	2100F 1.8E	SPF			
ALL WEBS	2x3	DRY	No.2	SPF			
EXCEPT							

DRY: SEASONED LUMBER. TOTAL WEIGHT = 149 lb

DESIGN CRITERIA *** SPECIAL LOADS ANALYSIS *** GEOMETRY AND/OR BASIC LOADS CHANGED BY USER. LOADS WERE DERIVED FROM USER INPUT NO FURTHER MODIFICATIONS WERE MADE

SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.3 PSF TOTAL LOAD = 33.6 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

GIRDER TYPE: CPrimeHip SIDE SETBACK = 6-0-0 END SETBACK = 6-0-0 END WALL WIDTH = 5-8 CORNER FRAMING TYPE: CONVENTIONAL END JACK TYPE: CONVENTIONAL APPLIED TO FRONT SIDE

ADDTL LOADS BASED ON 55 % OF GSL. LOADS APPLIED TO FIRST 12-6-0 OF SPAN MEASURED FROM THE RIGHT.

*** NON STANDARD GIRDER *** ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012, BCBC 2012, ABC 2014 - CSA 086-09 - TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.97") CALCULATED VERT. DEFL.(LL) = L/999 (0.20") ALLOWABLE DEFL.(TL)= L/360 (0.97") CALCULATED VERT. DEFL.(TL) = L/977 (0.36")

CSI: TC=0.83/1.00 (F-H:1), BC=0.66/1.00 (P-R:1), WB=0.74/1.00 (K-N:1), SSI=0.75/1.00 (P-R:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00 COMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 0.50

CONTINUED ON PAGE 2

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT

HANGERS NOTES

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 348.1 lbs FACTORED DOWN AT 23-2-0 ON TOP CHORD, AND 1514.4 lbs FACTORED DOWN AT 16-1-4 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
	MAX	MIN	MAX MIN
MT20	618	354	1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

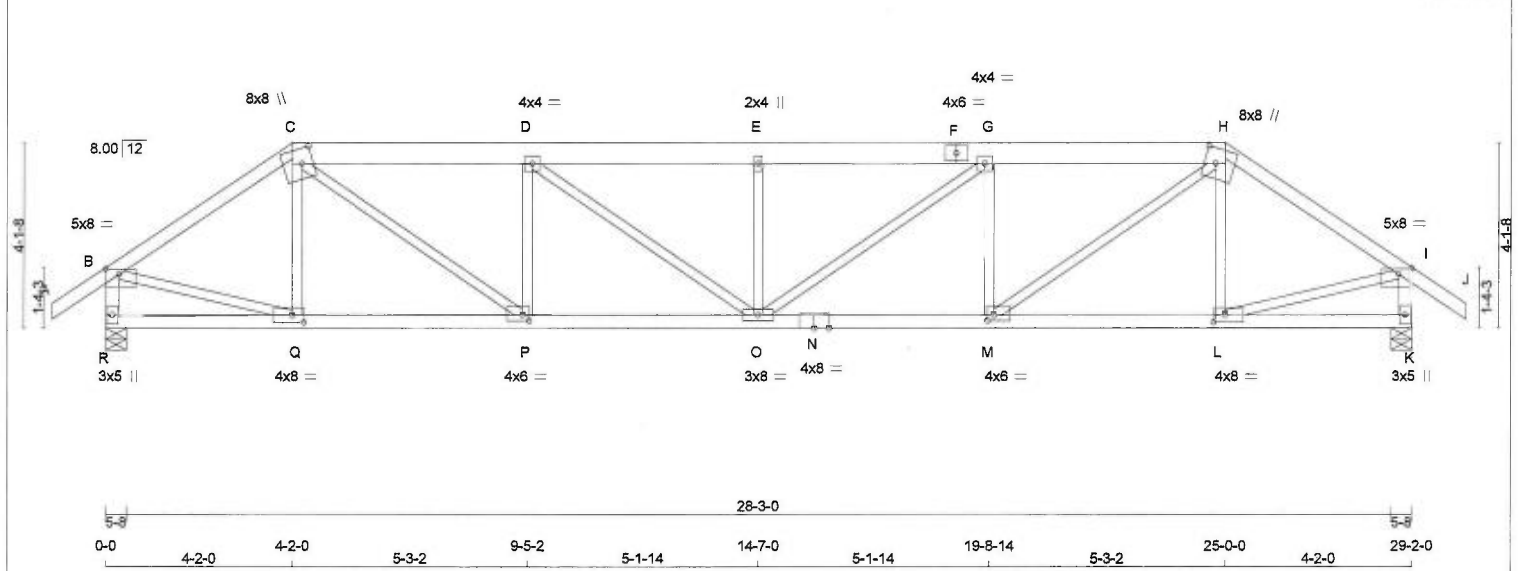
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (I) (INPUT = 0.90)
JSI METAL= 0.95 (Q) (INPUT = 1.00)

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



NE0618-001 G02 1 1 TRUSS DESC. Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Sat Jun 2 11:16:57 2018 Page 1 ID:JiDzXONJoFa2AxdT73zOcwzBMzn-6qlsguVHrZkt3O?ABATXHQ_t_JKRnIvA9MExyZzALwK Scale = 1:49.4



LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS

CHORDS	SIZE	LUMBER	DESCR.	FACTORED	MAXIMUM FACTORED	INPUT	REQRD
A - C	2x4	DRY	No.2	SPF	GROSS REACTION	BRG	BRG
C - F	2x6	DRY	No.2	SPF	JT VERT	DOWN	IN-SX
F - H	2x4	DRY	No.2	SPF	R 2685 0	2685 0	5-8 5-8
H - J	2x4	DRY	No.2	SPF	K 2685 0	2685 0	5-8 5-8
J - L	2x4	DRY	No.2	SPF			
L - N	2x4	DRY	No.2	SPF			
N - K	2x4	DRY	No.2	SPF			
ALL WEBS	2x3	DRY	No.2	SPF			
EXCEPT							

DRY: SEASONED LUMBER. UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
R	1885	1314 / 0	0 / 0	0 / 0	0 / 0	571 / 0	0 / 0
K	1885	1314 / 0	0 / 0	0 / 0	0 / 0	571 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) R, K. BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.44 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED. LOADING TOTAL LOAD CASES: (4)

L	BMV1+p	MT20	3.0	5.0	2.00	3.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
---	--------	------	-----	-----	------	------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

FACTORED CONCENTRATED LOADS (LBS) JT LOC. LC1 MAX- MAX+ FACE DIR. TYPE

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
C	4-2-0	-242	-242	—	FRONT	VERT	TOTAL
H	25-0-0	-242	-242	—	FRONT	VERT	TOTAL

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

CONTINUED ON PAGE 2

PLATE PLACEMENT TOL. = 0.250 inches

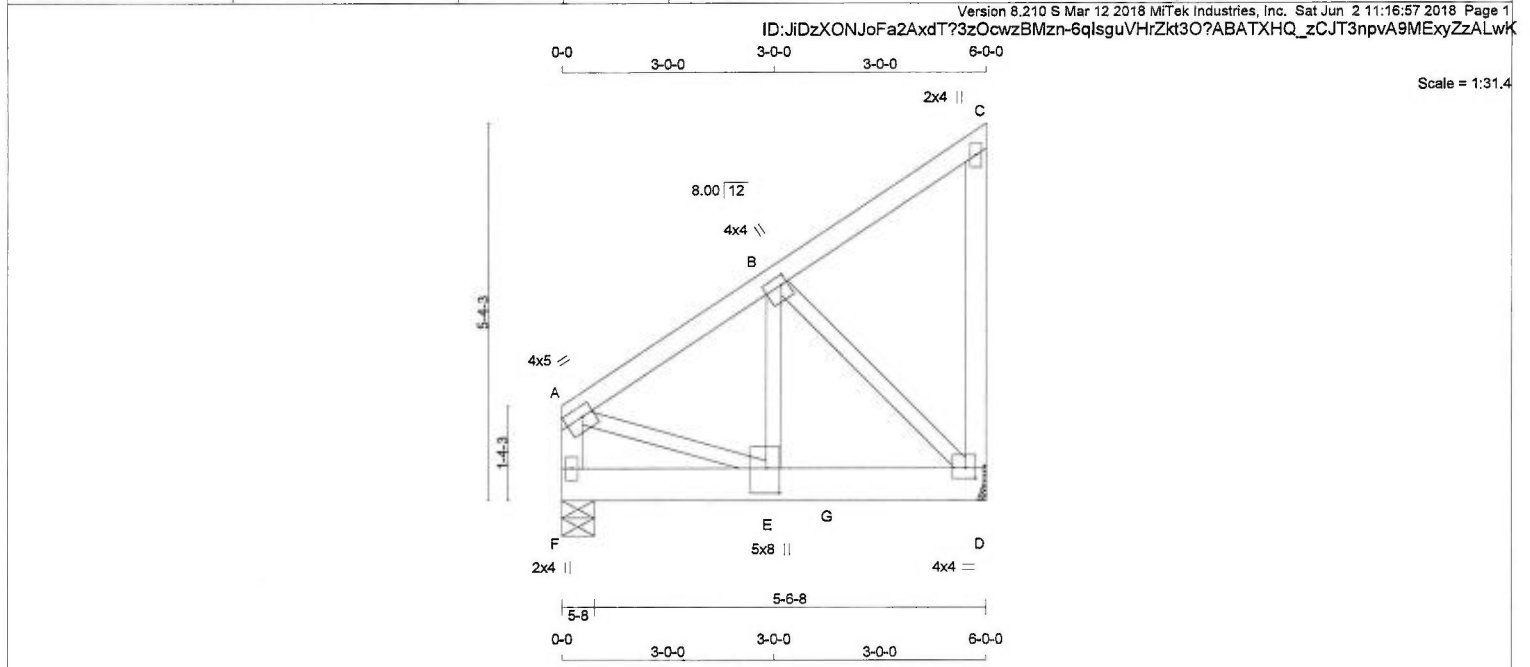
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (P) (INPUT = 0.90)

JSI METAL= 0.90 (N) (INPUT = 1.00)

READ ALL NOTES ON THIS PAGE AND ON
ENGINEERING NOTE PAGE ENP-1. THIS
NOTE PAGE IS AN INTEGRAL PART OF
THIS DRAWING AS IT CONTAINS
SPECIFICATIONS AND CRITERIA USED IN
THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 33 lb

LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.	FACTORED	MAXIMUM FACTORED	INPUT
A - C	2x4	DRY	No.2	SPF	GROSS REACTION	GROSS REACTION	BRG
D - C	2x4	DRY	No.2	SPF	VERT	DOWN	MECHANICAL
F - A	2x4	DRY	No.2	SPF	HORZ	HORZ	5-8
F - D	2x6	DRY	No.2	SPF	UPLIFT	UPLIFT	5-8
ALL WEBS	2x3	DRY	No.2	SPF			
EXCEPT							

DRY: SEASONED LUMBER.

PLATES (table is in inches)				UNFACTORED REACTIONS			
JT	TYPE	PLATES	W	LEN	Y	X	
A	TMVW-1	MT20	4.0	5.0	1.75	Edge	
B	TMVW-1	MT20	4.0	4.0	1.50	1.00	
C	TMV-1	MT20	2.0	4.0			
D	BMVW-1	MT20	4.0	4.0	1.75	1.75	
E	BMVW-1	MT20	5.0	8.0	4.25	2.25	
F	BMV-1	MT20	2.0	4.0			

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

HANGERS NOTES
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 1300.9 lbs FACTORED DOWN AT 2-10-12 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

LOADING				TOTAL LOAD CASES: (4)			
CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO			FROM TO		FR-TO		
A-B	-1147 / 0	-77.4	-77.4	0.12 (1)	E-B	0 / 1312	0.32 (1)
B-C	-13 / 0	-77.4	-77.4	0.10 (1)	B-D	-1352 / 0	0.39 (1)
D-C	-93 / 0	0.0	0.0	0.04 (1)	A-E	0 / 1012	0.25 (1)
F-A	-1040 / 0	0.0	0.0	0.12 (1)			
F-E	0 / 0	-18.2	-18.2	0.02 (4)			
E-G	0 / 965	-18.2	-18.2	0.37 (1)			
G-D	0 / 965	-342.9	-342.9	0.37 (1)			

FACTORED CONCENTRATED LOADS (LBS)				TYPE			
JT	LOC.	LC1	MAX- MAX+	FACE	DIR.	TOTAL	
E	2-10-12	-1301	-1301	—	BACK	VERT	

DESIGN CRITERIA
*** SPECIAL LOADS ANALYSIS ***
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.
LOADS WERE DERIVED FROM USER INPUT
NO FURTHER MODIFICATIONS WERE MADE

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.3 PSF
TOTAL LOAD = 33.6 PSF

SPACING = 24.0 IN. C/C

GIRDER TYPE: CStdGirder
START DISTANCE = 3-10-0
START SPAN CARRIED = 16-0-8
END DISTANCE = 6-0-0
END SPAN CARRIED = 16-0-8
END WALL WIDTH = 5-8
APPLIED TO BACK SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.
(DEFINED BY USER)

*** NON STANDARD GIRDER ***
ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.20")
CALCULATED VERT. DEFL.(LL)= L/999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL)= L/999 (0.03")

CSI: TC=0.12/1.00 (A-B:1), BC=0.37/1.00 (D-E:1), WB=0.39/1.00 (B-D:1), SSI=0.31/1.00 (D-E:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00
COMP=1.00 SHEAR=1.00 TENS= 1.00

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

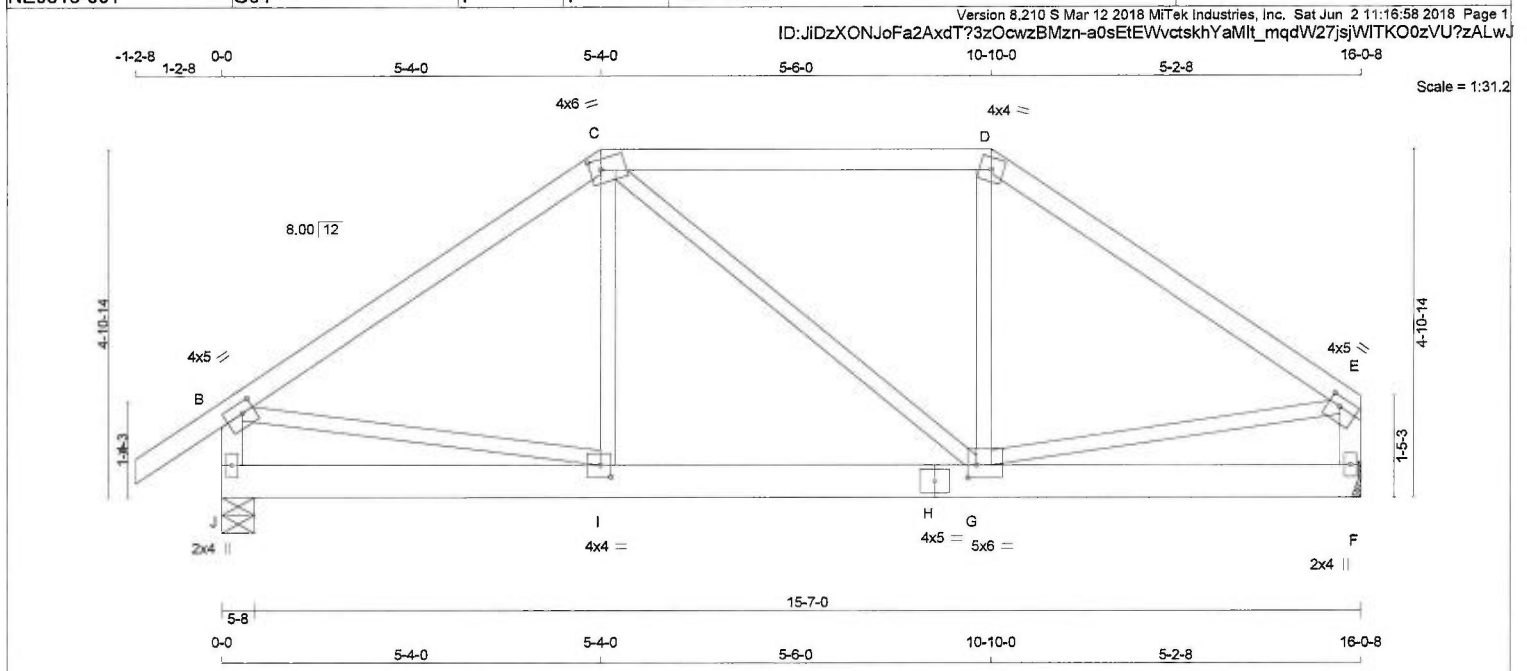
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (B) (INPUT = 0.90)
JSI METAL= 0.36 (A) (INPUT = 1.00)

READ ALL NOTES ON THIS PAGE AND ON
ENGINEERING NOTE PAGE ENP-1. THIS
NOTE PAGE IS AN INTEGRAL PART OF
THIS DRAWING AS IT CONTAINS
SPECIFICATIONS AND CRITERIA USED IN
THE DESIGN OF THIS COMPONENT.





LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2
C - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
J - B	2x4	DRY	No.2
F - E	2x4	DRY	No.2
J - H	2x6	DRY	No.2
H - F	2x6	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	5.0	1.75	2.00
C	TTWW-m	MT20	4.0	6.0	1.75	1.75
D	TTWW-m	MT20	4.0	4.0		
E	TMVW-t	MT20	4.0	5.0	1.50	2.00
F	BMV1+p	MT20	2.0	4.0		
G	BMVWW-t	MT20	5.0	6.0	2.25	1.50
H	BS-t	MT20	4.0	5.0		
I	BMVWW-t	MT20	4.0	4.0	2.00	1.75
J	BMV1+p	MT20	2.0	4.0		

HANGERS NOTES

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 167.9 lbs FACTORED DOWN AT 10-10-0 ON TOP CHORD, AND 585.0 lbs FACTORED DOWN AT 10-5-4 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REORD BRG
JT	VERT 1124	HORZ 0	0	0
J	VERT 1300	HORZ 0	0	0
F	VERT 1300	HORZ 0	0	0

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT F TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

	1ST LOASE	MAX./MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW LIVE PERM.LIVE WIND DEAD SOIL
J	787	562 / 0 0 / 0 0 / 0 0 / 0 225 / 0 0 / 0
F	914	531 / 0 0 / 0 0 / 0 0 / 0 283 / 0 0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) J

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.82 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)	
FR-TO		FROM TO		UNBRAC LENGTH	FR-TO		
A-B	0 / 28	-77.4	-77.4 0.10 (1)	10.00	I-C	-50 / 68	0.03 (4)
B-C	-1107 / 0	-77.4	-77.4 0.48 (1)	5.34	C-G	0 / 381	0.09 (1)
C-D	-1209 / 0	-77.4	-77.4 0.50 (1)	5.10	G-D	0 / 222	0.07 (4)
D-E	-1444 / 0	-77.4	-77.4 0.48 (1)	4.82	B-I	0 / 934	0.23 (1)
J-B	-1082 / 0	0.0	0.0 0.12 (1)	7.56	G-E	0 / 1222	0.30 (1)
F-E	-1234 / 0	0.0	0.0 0.14 (1)	7.19			
J-I	0 / 0	-18.2	-18.2 0.06 (4)	10.00			
I-H	0 / 919	-18.2	-18.2 0.15 (1)	10.00			
H-G	0 / 919	-18.2	-18.2 0.15 (1)	10.00			
G-F	0 / 0	-25.3	-25.3 0.09 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
D	10-10-0	-168	-168	---	FRONT	VERT	TOTAL
G	10-5-4	-585	-585	---	FRONT	VERT	TOTAL

DESIGN CRITERIA

*** SPECIAL LOADS ANALYSIS ***
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.
LOADS WERE DERIVED FROM USER INPUT
NO FURTHER MODIFICATIONS WERE MADE

SPECIFIED LOADS:

TOP CH.	LL = 23.3	PSF
	DL = 3.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.3	PSF
TOTAL LOAD	= 33.6	PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

GIRDER TYPE: CPrimeHip
LEFT SETBACK = 5-4-0
RIGHT SETBACK = 5-2-8
END SETBACK = 4-0-0
END WALL WIDTH = 5-8
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDTL LOADS BASED ON 55 % OF GSL.
LOADS APPLIED TO FIRST 5-2-8 OF SPAN MEASURED FROM THE RIGHT.

*** NON STANDARD GIRDER ***
ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.53")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL) = L/360 (0.53")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.50/1.00 (C-D:1), BC=0.15/1.00 (G-I:1), WB=0.30/1.00 (E-G:1), SSI=0.18/1.00 (C-D:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00 COMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 0.50

CONTINUED ON PAGE 2



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

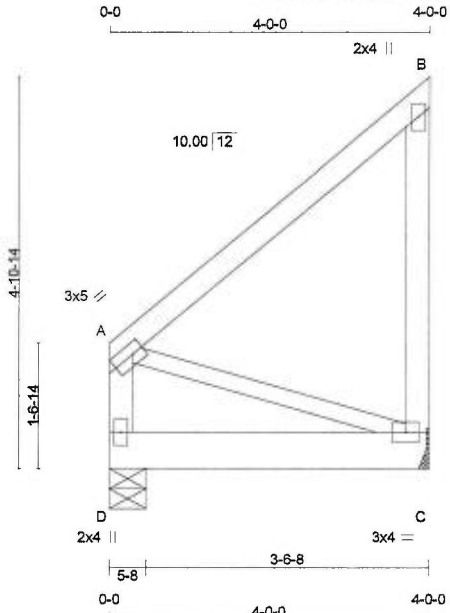
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (G) (INPUT = 0.90)
JSI METAL= 0.47 (E) (INPUT = 1.00)

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





Scale = 1:27.7

TOTAL WEIGHT = 22 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - B	2x4 DRY	No.2	SPF
C - B	2x4 DRY	No.2	SPF
D - A	2x4 DRY	No.2	SPF
D - C	2x6 DRY	No.2	SPF

ALL WEBS 2x3 DRY No.2 SPF
DRY: SEASONED LUMBER.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
C	586	0	586	0	0	MECHANICAL		
D	586	0	586	0	0	5-8	5-8	

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT C TO RESIST THE MAX FACTORED REACTIONS.

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	PSF
DL	23.3	PSF

BOT CH.	LL	PSF
DL	0.0	PSF
DL	7.3	PSF

TOTAL LOAD = 33.6 PSF

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-t	MT20	3.0	5.0	1.50	1.75
B	TMV+p	MT20	2.0	4.0		
C	BMVW1-t	MT20	3.0	4.0		
D	BMV1+p	MT20	2.0	4.0		

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
C	411	285 / 0	0 / 0	0 / 0	0 / 0	126 / 0	0 / 0
D	411	285 / 0	0 / 0	0 / 0	0 / 0	126 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) D

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED LC1 MAX. (CSI (LC))	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED LC1 MAX. (CSI (LC))	UNBRACED LENGTH FR-TO
FR-TO				FR-TO			
A-B	0 / 0	-77.4	-77.4 0.23 (1)	A-C	0 / 0	0.00 (1)	10.00
C-B	-155 / 0	0.0	0.0 0.06 (1)				7.81
D-A	-155 / 0	0.0	0.0 0.02 (1)				7.81
D-C	0 / 0	-215.4	-215.4 0.32 (1)				10.00

SPACING = 24.0 IN./C

GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 10-4-8
END DISTANCE = 4-0-0
END SPAN CARRIED = 10-4-8
END WALL WIDTH = 1-8
APPLIED TO BACK SIDE OF BOTTOM CHORD.
- ADD'L LOADS BASED ON 55 % OF GSL (DEFINED BY USER)

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.23/1.00 (A-B:1), BC=0.32/1.00 (C-D:1), WB=0.00/1.00 (A-C:1), SS=0.29/1.00 (C-D:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00
COMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	618	354	1667 622 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

CONTINUED ON PAGE 2



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

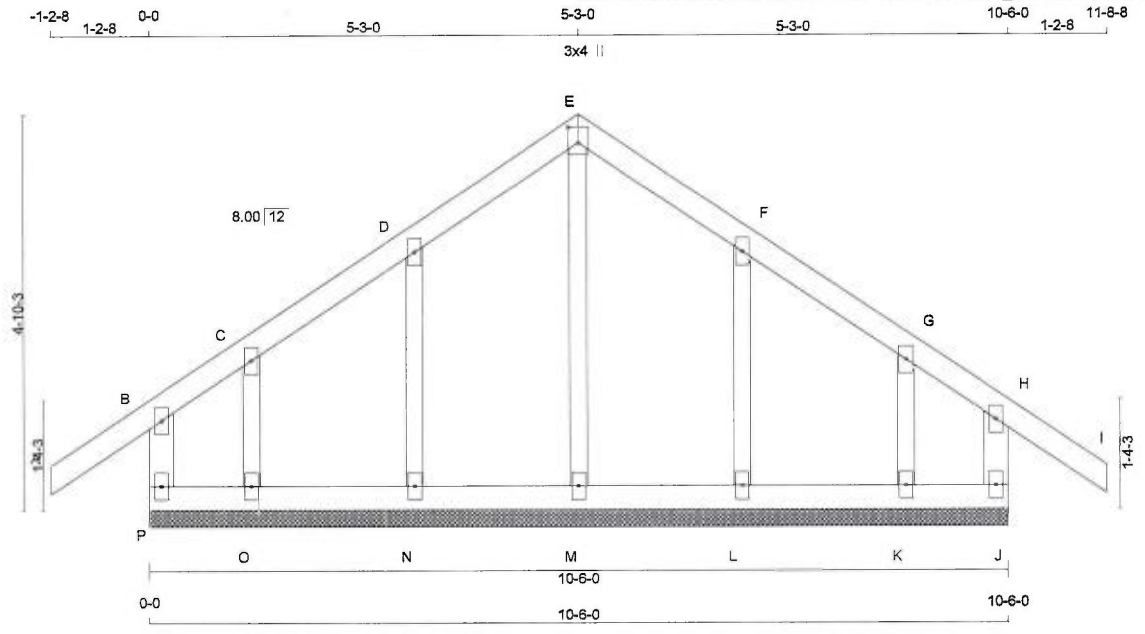
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0618-001	G05	1	1	GREEN YORK HOMES - GRANELLI HOME CORP - LIANA 2 ELEV 1	PAGE 12 OF 38
TRUSS DESC.					

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Sat Jun 2 11:16:58 2018 Page 2
ID:JiDzXONJoFa2AxdT?3zOcwzBMzn-a0sEtEVvctskhYaMt_mqdW6Gjg3WMBKO0zVU?zALwJ

JSI GRIP= 0.15 (C) (INPUT = 0.90)
JSI METAL= 0.04 (B) (INPUT = 1.00)

READ ALL NOTES ON THIS PAGE AND ON
ENGINEERING NOTE PAGE ENP-1. THIS
NOTE PAGE IS AN INTEGRAL PART OF
THIS DRAWING AS IT CONTAINS
SPECIFICATIONS AND CRITERIA USED IN
THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 43 lb [M]

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
P - B	2x4	DRY	No.2	SPF
A - E	2x4	DRY	No.2	SPF
E - I	2x4	DRY	No.2	SPF
J - H	2x4	DRY	No.2	SPF
P - J	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
ALL GABLE WEBS	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

GABLE STUDS SPACED AT 2-0-0 OC.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT.

MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	PSF
LL	23.3	PSF
DL	3.0	PSF
BOT CH.	LL	PSF
LL	0.0	PSF
DL	7.3	PSF
TOTAL LOAD	33.6	PSF

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	4.0		
C, D, F, G						
C	TMW+w	MT20	2.0	4.0		
E	TTW+p	MT20	3.0	4.0	2.25	1.50
H	TMV+p	MT20	2.0	4.0		
J	BMV1+p	MT20	2.0	4.0		
K, L, M, N, O						
K	BMV1+w	MT20	2.0	4.0		
P	BMV1+p	MT20	2.0	4.0		

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX. (CSI (LC))	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. (CSI (LC))
FR-TO					FR-TO		
P-B	-158 / 0	0.0	0.0 0.03 (1)	7.81	M-E	-189 / 0	0.06 (1)
A-B	0 / 28	-77.4	-77.4 0.09 (1)	10.00	N-D	-167 / 0	0.03 (1)
B-C	0 / 8	-77.4	-77.4 0.06 (1)	10.00	O-C	-87 / 0	0.01 (1)
C-D	0 / 31	-77.4	-77.4 0.05 (1)	10.00	L-F	-167 / 0	0.03 (1)
D-E	0 / 29	-77.4	-77.4 0.05 (1)	10.00	K-G	-87 / 0	0.01 (1)
E-F	0 / 29	-77.4	-77.4 0.05 (1)	10.00			
F-G	0 / 31	-77.4	-77.4 0.05 (1)	10.00			
G-H	0 / 8	-77.4	-77.4 0.06 (1)	10.00			
H-I	0 / 28	-77.4	-77.4 0.09 (1)	10.00			
J-H	-158 / 0	0.0	0.0 0.03 (1)	7.81			
P-O	-18 / 0	-18.2	-18.2 0.01 (4)	6.25			
O-N	-22 / 0	-18.2	-18.2 0.02 (4)	6.25			
N-M	-26 / 0	-18.2	-18.2 0.02 (4)	6.25			
M-L	-26 / 0	-18.2	-18.2 0.02 (4)	6.25			
L-K	-22 / 0	-18.2	-18.2 0.02 (4)	6.25			
K-J	-18 / 0	-18.2	-18.2 0.01 (4)	6.25			

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.
- (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD
- CSI: TC=0.09/1.00 (A-B:1), BC=0.02/1.00 (L-M:4), WB=0.06/1.00 (E-M:1), SSI=0.06/1.00 (A-B:1)
- DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10
- COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)	MAX MIN	MAX MIN	MAX MIN
MT20	618	354	1667	622	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

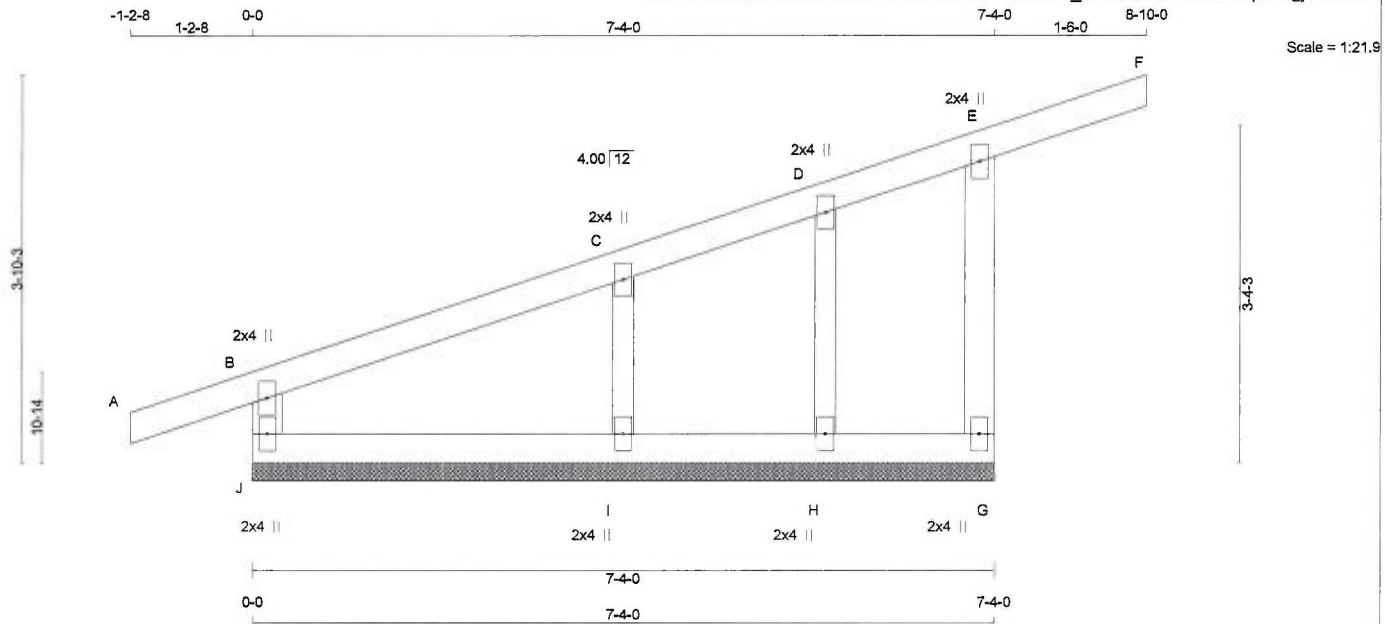
JSI GRIP= 0.13 (E) (INPUT = 0.90)

JSI METAL= 0.06 (E) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 27 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
J - B	2x4 DRY	No.2	SPF
A - F	2x4 DRY	No.2	SPF
G - E	2x4 DRY	No.2	SPF
J - G	2x4 DRY	No.2	SPF

ALL WEBS 2x3 DRY No.2 SPF
 ALL GABLE WEBS 2x3 DRY No.2 SPF
 DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2'-0" OC.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.
 THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.
 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX. (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	LC1 MAX. (LC)	MAX. UNBRACED LENGTH	
FR-TO		FROM	TO		FR-TO				
J-B	-245 / 0	0.0	0.03 (4)	7.81	I-C	-236 / 0	0.04 (1)	10.00	
A-B	0 / 15	-77.4	-77.4 0.09 (1)	10.00	H-D	-78 / 0	0.01 (1)	10.00	
B-C	-1 / 0	-77.4	-77.4 0.13 (1)	10.00					
C-D	-1 / 0	-77.4	-77.4 0.09 (1)	10.00					
D-E	0 / 23	-77.4	-77.4 0.09 (1)	10.00					
E-F	-19 / 0	-77.4	-77.4 0.13 (1)	6.25					
G-E	-225 / 0	0.0	0.0 0.04 (1)	7.81					
J-I	-3 / 1	-18.2	-18.2 0.04 (4)	10.00					
I-H	-9 / 0	-18.2	-18.2 0.04 (4)	10.00					
H-G	-11 / 0	-18.2	-18.2 0.01 (1)	6.25					

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	PSF
DL	23.3	PSF
DL	3.0	PSF
BOT CH.	LL	PSF
DL	0.0	PSF
DL	7.3	PSF
TOTAL LOAD	33.6	PSF

SPACING = 24.0 IN./C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
 - PART 9 OF OBC 2012, BCBC 2012, ABC 2014
 - CSA 086-09
 - TPIC 2011

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.13/1.00 (B-C:1), BC=0.04/1.00 (I-J:4),
 WB=0.04/1.00 (C-I:1), SSI=0.11/1.00 (B-C:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	618	354	1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

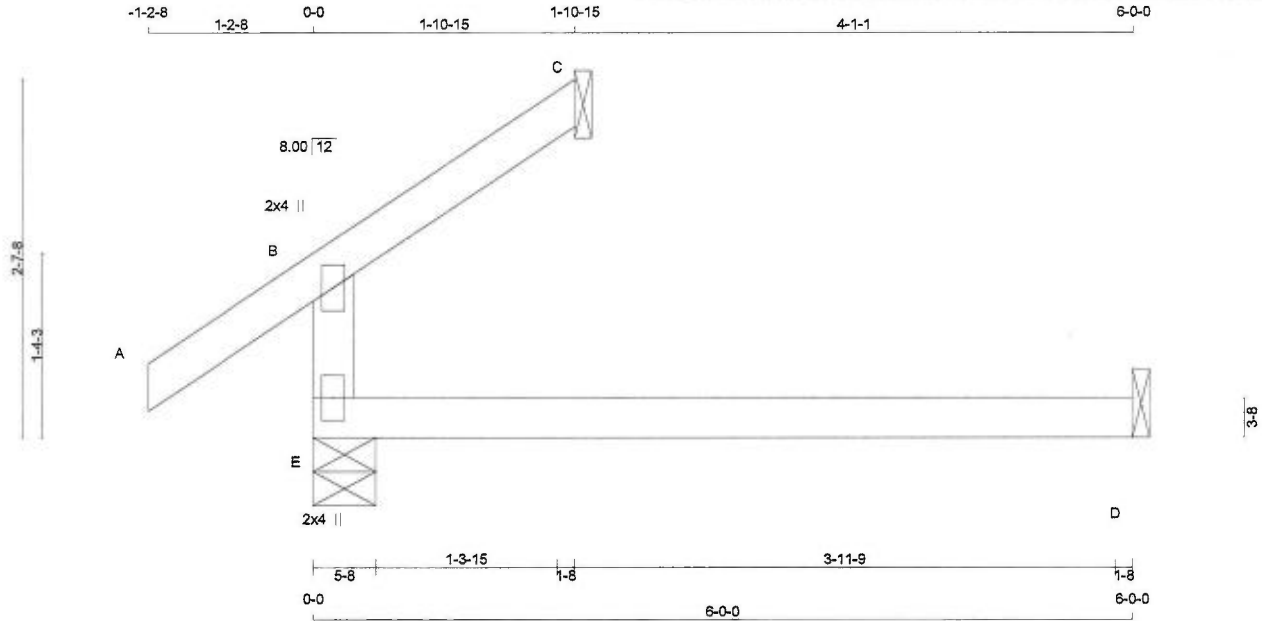
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.13 (B) (INPUT = 0.90)
 JSI METAL= 0.05 (E) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON
 ENGINEERING NOTE PAGE ENP-1. THIS
 NOTE PAGE IS AN INTEGRAL PART OF
 THIS DRAWING AS IT CONTAINS
 SPECIFICATIONS AND CRITERIA USED IN
 THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 12 lb [M][F]

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
E - B	2x4	DRY	No.2	SPF	
A - C	2x4	DRY	No.2	SPF	
E - D	2x4	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

PLATES (table is in inches)	JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	4.0			
E	BMV1+p	MT20	2.0	4.0			

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
E	255	0	255	0	5-8	5-8
C	56	0	56	0	1-8	1-8
D	46	0	51	0	1-8	1-8

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	181	115 / 0	0 / 0	0 / 0	0 / 0	66 / 0	0 / 0
C	38	34 / 0	0 / 0	0 / 0	0 / 0	4 / 0	0 / 0
D	37	0 / 0	0 / 0	0 / 0	0 / 0	37 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E, C

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		FACTORED		MAX. MEMB. UNBRACED LENGTH	FR-TO
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	VERT. LOAD (PLF)	MAX. CSI (LC)		
E-B	-192 / 0	0.0	0.0	0.11 (4)	7.81	
A-B	0 / 28	-77.4	-77.4	0.09 (1)	10.00	
B-C	-10 / 0	-77.4	-77.4	0.04 (1)	10.00	
E-D	0 / 0	-18.2	-18.2	0.13 (4)	10.00	

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3 PSF
DL = 3.0 PSF	
BOT CH.	LL = 0.0 PSF
DL = 7.3 PSF	
TOTAL LOAD	= 33.6 PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= $L/360$ (0.20")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.00")
ALLOWABLE DEFL.(TL)= $L/360$ (0.20")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.04")

CSI: TC=0.11/1.00 (B-E:4), BC=0.13/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.09/1.00 (D-E:4)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE RIGHT HEEL ONLY

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1667 822	2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

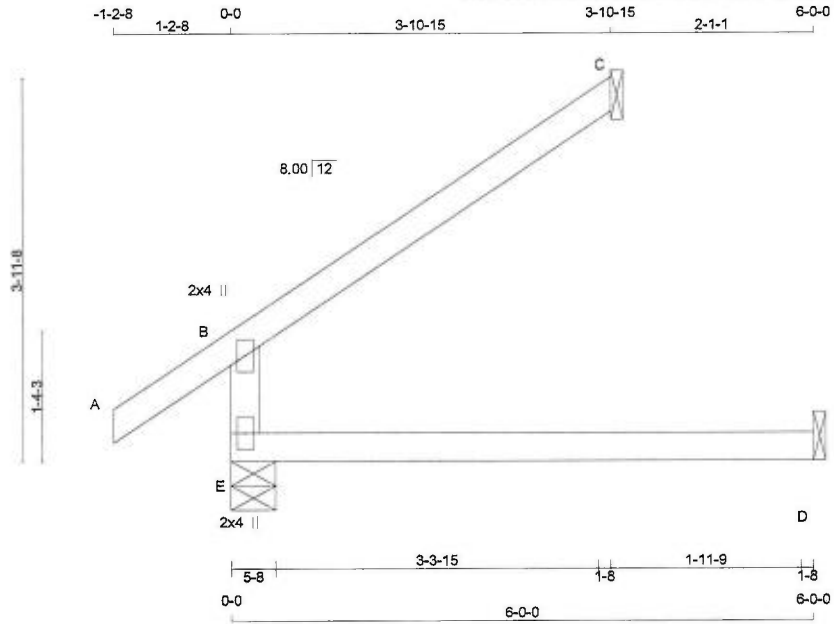
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.12 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





Scale = 1:22.8

TOTAL WEIGHT = 15 lb [M][F]

LUMBER				DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	
E - B	2x4	DRY	No.2	SPF
A - C	2x4	DRY	No.2	SPF
E - D	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMV+p	MT20	2.0	4.0	
E	BMV1+p	MT20	2.0	4.0	

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
E	353	0	353	0	5-8	5-8
C	114	0	114	0	1-8	1-8
D	46	0	51	0	1-8	1-8

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
E	247	174 / 0	0 / 0	0 / 0	0 / 0	73 / 0	0 / 0
C	77	68 / 0	0 / 0	0 / 0	0 / 0	9 / 0	0 / 0
D	37	0 / 0	0 / 0	0 / 0	0 / 0	37 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E, C

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)
FR-TO				
E-B	-289 / 0	0.0	0.0	0.11 (4)
A-B	0 / 28	-77.4	-77.4	0.09 (1)
B-C	-21 / 0	-77.4	-77.4	0.15 (1)
E-D	0 / 0	-18.2	-18.2	0.13 (4)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3 PSF
DL = 3.0 PSF	
BOT CH.	LL = 0.0 PSF
DL = 7.3 PSF	
TOTAL LOAD	= 33.6 PSF

SPACING = 24.0 IN./C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.20")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.00")
ALLOWABLE DEFL.(TL) = $L/360$ (0.20")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.04")

CSI: TC=0.15/1.00 (B-C:1), BC=0.13/1.00 (D-E:4),
WB=0.00/1.00 (n/a:0), SSI=0.12/1.00 (B-C:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE RIGHT HEEL ONLY

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PL)	(PL)	(PL)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1667 822	2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

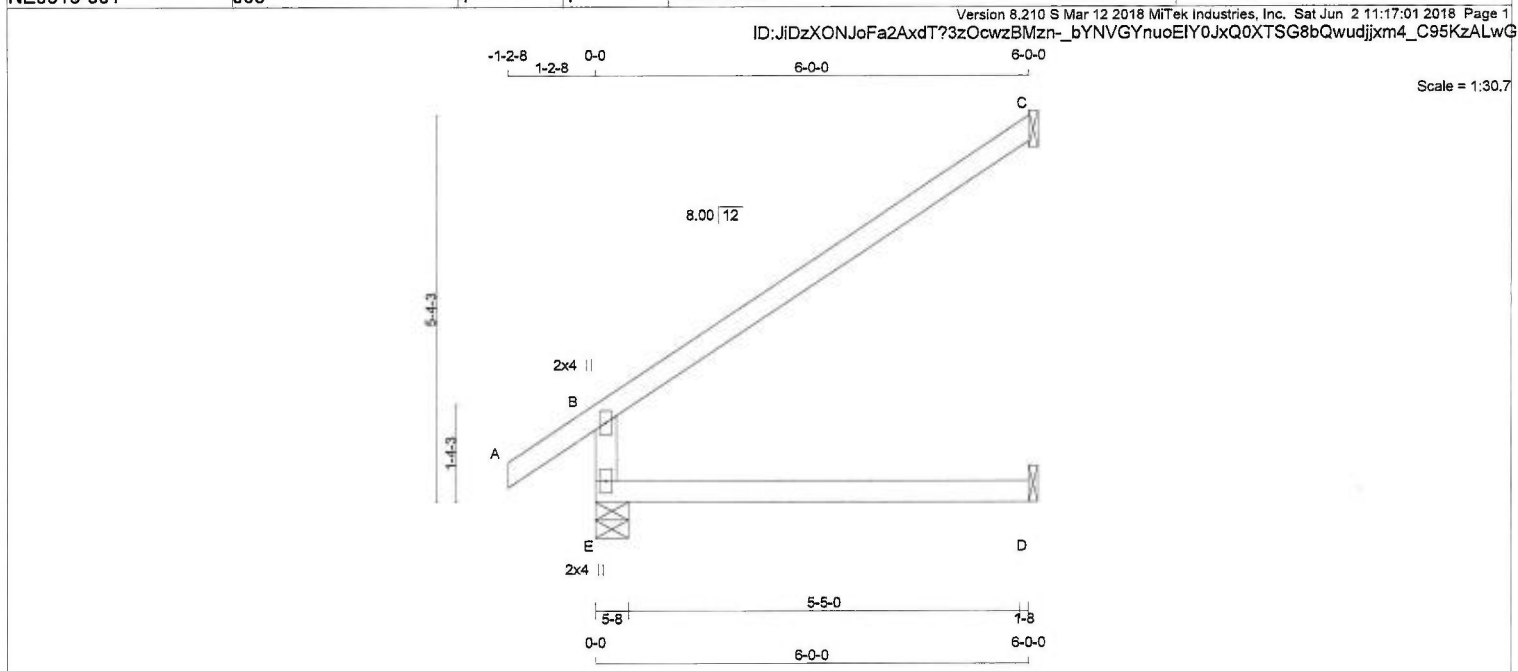
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.19 (B) (INPUT = 0.90)
JSI METAL= 0.07 (B) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 4 X 18 = 72 LB

(M/F)

LUMBER					
N. L. G. A. RULES					
CHORDS	SIZE		LUMBER		DESCR.
E - B	2x4	DRY	No.2		SPF
A - C	2x4	DRY	No.2		SPF
E - D	2x4	DRY	No.2		SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	4.0		
E	BMV1+p	MT20	2.0	4.0		

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
E	454	0	454	0	5-8	5-8
C	174	0	174	0	1-8	1-8
D	46	0	51	0	1-8	1-8

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS				DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND			
E	316	235 / 0	0 / 0	0 / 0	0 / 0		81 / 0	0 / 0
C	118	105 / 0	0 / 0	0 / 0	0 / 0		14 / 0	0 / 0
D	37	0 / 0	0 / 0	0 / 0	0 / 0		37 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E, C

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS			WEBS		
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. CSI (LC)	MAX. UNBRACED LENGTH	MEMB. MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO			FR-TO
E-B	-390 / 0	0.0 0.0	0.11 (4)	7.81	
A-B	0 / 28	-77.4 -77.4	0.09 (1)	10.00	
B-C	-32 / 0	-77.4 -77.4	0.36 (1)	6.25	
E-D	0 / 0	-18.2 -18.2	0.13 (4)	10.00	

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3 PSF
	DL = 3.0 PSF
BOT CH.	LL = 0.0 PSF
	DL = 7.3 PSF
TOTAL LOAD	= 33.6 PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
 - CSA 086-09
 - TPIC 2011

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.20")
 CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
 ALLOWABLE DEFL.(TL)= L/360 (0.20")
 CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")

CSI: TC=0.36/1.00 (B-C:1), BC=0.13/1.00 (D-E:4),
 WB=0.00/1.00 (n/a:0), SSI=0.19/1.00 (B-C:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE RIGHT HEEL ONLY

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
	MAX	MIN	MAX
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.25 (B) (INPUT = 0.90)
 JSI METAL= 0.10 (B) (INPUT = 1.00)

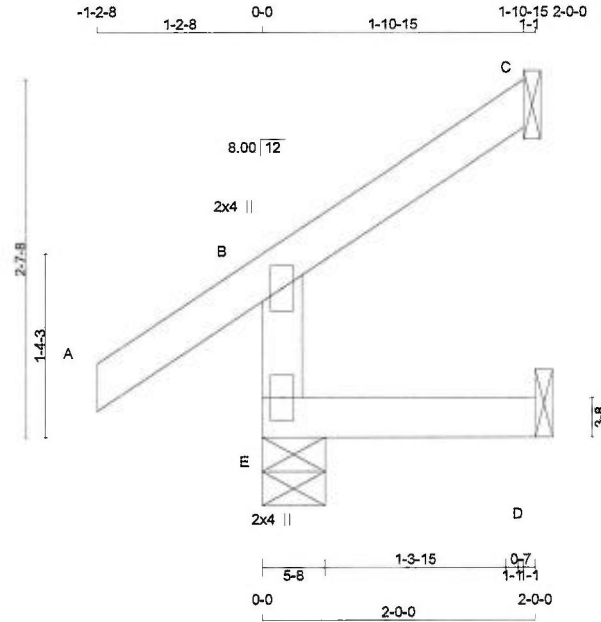
READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



READ ALL NOTES ON THIS PAGE AND ON
 ENGINEERING NOTE PAGE ENP-1. THIS
 NOTE PAGE IS AN INTEGRAL PART OF
 THIS DRAWING AS IT CONTAINS
 SPECIFICATIONS AND CRITERIA USED IN
 THE DESIGN OF THIS COMPONENT.



Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Sat Jun 2 11:17:02 2018 Page 1
ID:JiDzXONJoFa2AxdT?3zOcwzBMzn-So6ljcZQf6M9A9t8_j2i_ThqRKfS9BvJexidmzALwF



Scale = 1:16.2

TOTAL WEIGHT = 8 lb [M]

LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
E - B	2x4	DRY	No.2	SPF
A - C	2x4	DRY	No.2	SPF
E - D	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMV+p	MT20	2.0	4.0	
E	BMV1+p	MT20	2.0	4.0	

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REORD	
JT	GROSS REACTION	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	BRG	IN-SX
E	212	0	212	0	0	0	5-8	5-8	
C	56	0	56	0	0	1-8	1-8	1-8	
D	16	0	16	0	0	1-8	1-8	1-8	

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	146	115 / 0	0 / 0	0 / 0	0 / 0	31 / 0	0 / 0
C	38	34 / 0	0 / 0	0 / 0	0 / 0	4 / 0	0 / 0
D	13	0 / 0	0 / 0	0 / 0	0 / 0	13 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E, C

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (5)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	MEMB.	FORCE (LBS)	LC1 MAX (LC)	UNBRAC LENGTH FR-TO
E-B	-192 / 0	0.0	0.0 0.01 (4)	7.81			
A-B	0 / 28	-77.4	-77.4 0.09 (1)	10.00			
B-C	-10 / 0	-77.4	-77.4 0.05 (1)	10.00			
E-D	0 / 0	-18.2	-18.2 0.02 (4)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.3 PSF
TOTAL LOAD = 33.6 PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.00")

CSI: TC=0.09/1.00 (A-B:1), BC=0.02/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.06/1.00 (A-B:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE RIGHT HEEL ONLY

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	
MAX	MIN	MAX	MIN
MT20	618	354	1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.12 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)

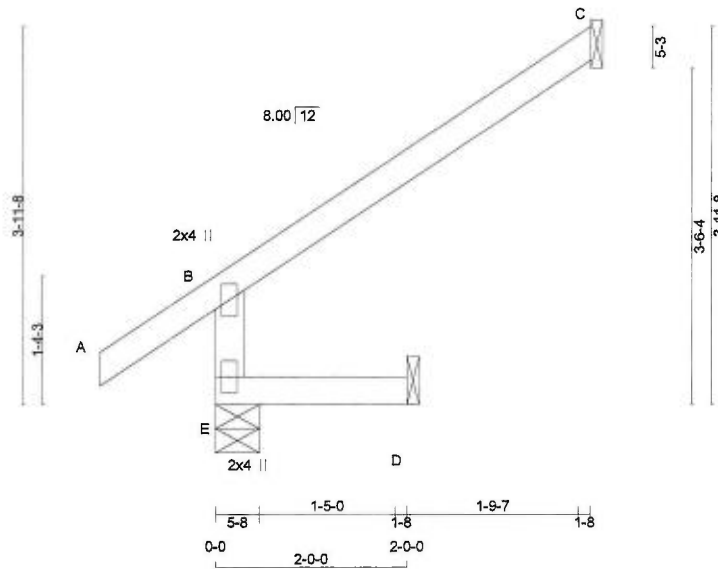


READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



Version 8.210 S Mar 12 2018 MITek Industries, Inc. Sat Jun 2 11:17:02 2018 Page 1
ID: JiDzXONJoFa2AxdT73zOcwzBMzn-So6jczQf6M9A9t8_j2i_ThokKFhS9BvJexidmzALwF

Scale = 1:23.1



TOTAL WEIGHT = 11 lb

LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS	2x4	DRY	No.2
E - B	2x4	DRY	No.2
A - C	2x4	DRY	No.2
E - D	2x4	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	4.0	
E	BMV1+p	MT20	2.0	4.0	

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
E	309	0	309	0	0	5-8	5-8	
C	114	0	114	0	0	1-8	1-8	
D	16	0	16	0	0	1-8	1-8	

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		PERM. LIVE	WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE					
E	212	174 / 0	0 / 0	0 / 0	0 / 0	0 / 0	38 / 0	0 / 0
C	77	68 / 0	0 / 0	0 / 0	0 / 0	0 / 0	9 / 0	0 / 0
D	13	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	13 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		FACTORED		WEBS		FACTORED	
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	UNBRAC LENGTH	MAX. MEMB. FORCE (LBS)	MAX. MEMB. FORCE (LBS)	MAX. FORCE (LBS)	MAX. FORCE (LBS)
FR-TO		FROM	TO		FR-TO			
E-B	-289 / 0	0.0	0.0	0.01 (4)	7.81			
A-B	0 / 28	-77.4	-77.4	0.09 (1)	10.00			
B-C	-21 / 0	-77.4	-77.4	0.20 (1)	6.25			
E-D	0 / 0	-18.2	-18.2	0.02 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.3 PSF
TOTAL LOAD = 33.6 PSF

SPACING = 24.0 IN. G/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.00")

CSI: TC=0.20/1.00 (B-C:1), BC=0.02/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.12/1.00 (B-C:1)

DOL LUMBER=1.00 NAIL=1.00 LBS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE RIGHT HEEL ONLY

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	
	MAX	MIN	MAX MIN
MT20	618	354	1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

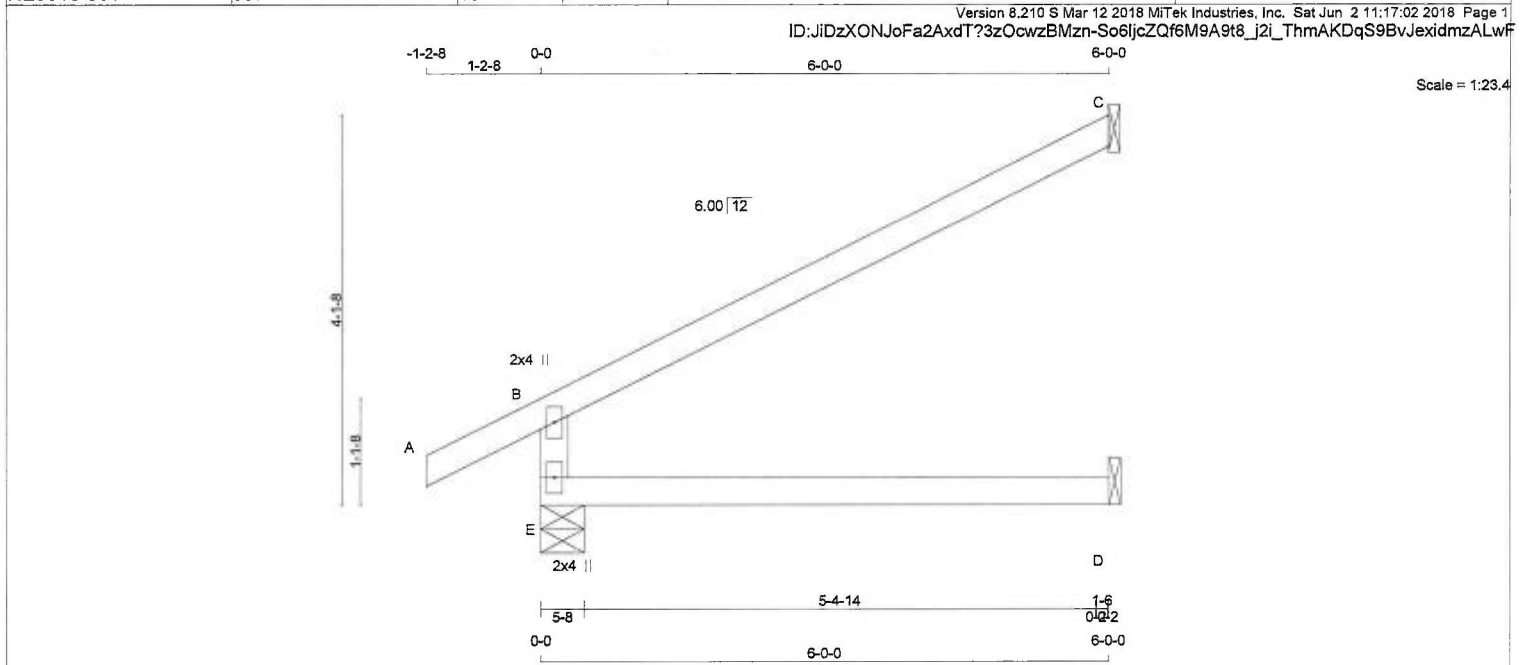
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.19 (B) (INPUT = 0.90)
JSI METAL= 0.07 (B) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





LUMBER
N. L. G. A. RULES
CHORDS SIZE LUMBER DESCR.
E - B 2x4 DRY No.2 SPF
A - C 2x4 DRY No.2 SPF
E - D 2x4 DRY No.2 SPF
DRY: SEASONED LUMBER.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER			
BEARINGS			
JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT REQD BRG
	VERT	HORZ	UPLIFT
E	453	0	0
C	174	0	0
D	45	0	0

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS			
JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS	
	COMBINED	SNOW	LIVE
E	316	234 / 0	0 / 0
C	118	105 / 0	0 / 0
D	36	0 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E, C

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

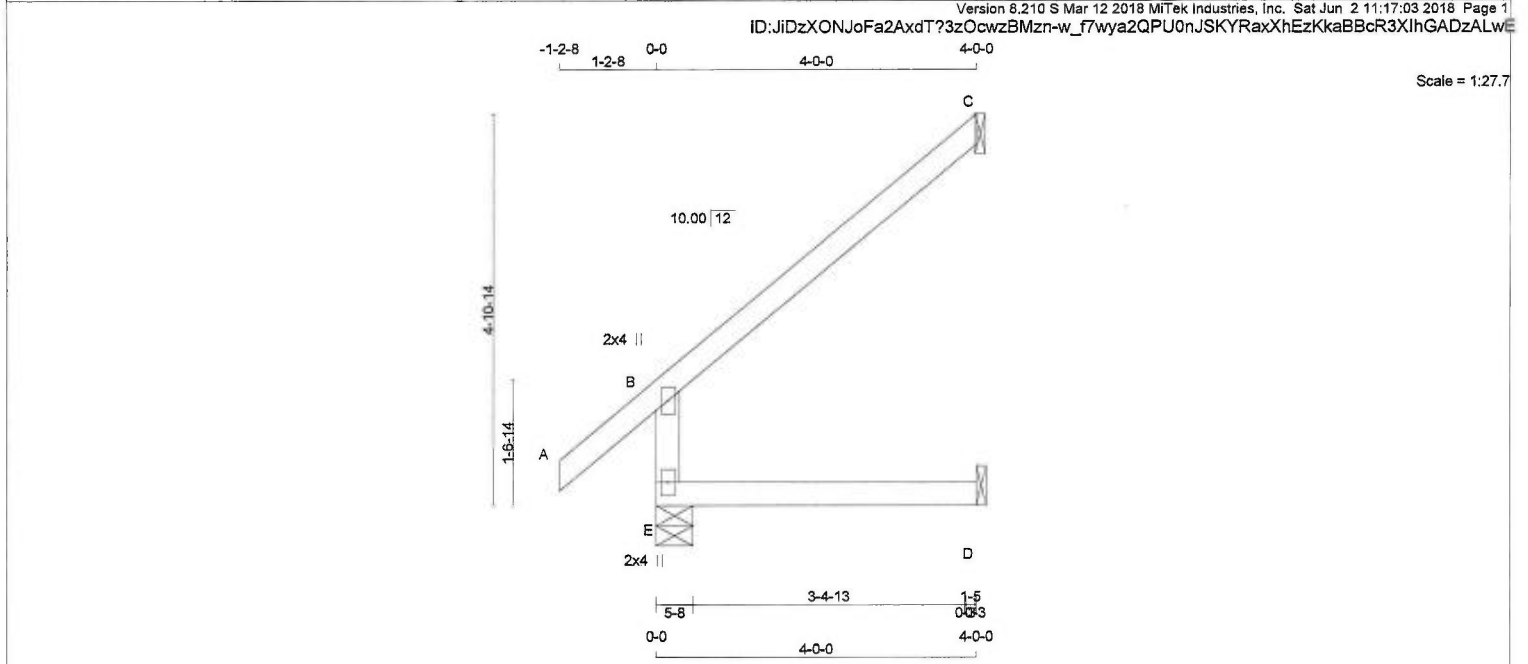
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING
TOTAL LOAD CASES: (4)

CHORDS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)
E-B	-389 / 0	0.0	7.81
A-B	0 / 22	-77.4	10.00
B-C	-26 / 0	-77.4	6.25
E-D	0 / 0	-18.2	10.00

WEBS
MAX. FACTORED FORCE (LBS) MAX. UNBRACED LENGTH (FT)

ALLOWABLE DEFL.(LL)= L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")
CSI: TC=0.38/1.00 (B-C:1), BC=0.14/1.00 (D-E:4),
WB=0.00/1.00 (n/a:0), SS=0.20/1.00 (B-C:1)
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS= 1.10
COMPANION LIVE LOAD FACTOR = 0.50
AUTOSOLVE RIGHT HEEL ONLY
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656
PLATE PLACEMENT TOL. = 0.250 inches
PLATE ROTATION TOL. = 5.0 Deg.
JSI GRIP= 0.22 (B) (INPUT = 0.90)
JSI METAL= 0.09 (B) (INPUT = 1.00)



TOTAL WEIGHT = 2 X 14 = 28 lb [M]

LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.	SPF	BEARINGS	
E - B	2x4	DRY	No.2	SPF			
A - C	2x4	DRY	No.2	SPF			
E - D	2x4	DRY	No.2	SPF			

DRY: SEASONED LUMBER.

PLATES (table is in inches)				UNFACTORED REACTIONS			
JT	TYPE	PLATES	W	LEN	Y	X	
B	TMV+p	MT20	2.0	4.0			
E	BMV1+p	MT20	2.0	4.0			

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) C, D

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) E, C

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING				TOTAL LOAD CASES: (4)			
CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC)	
FR-TO		FROM TO		FR-TO			
E-B	-294 / 0	0.0	0.0 0.04 (4)	7.81			
A-B	0 / 32	-77.4	-77.4 0.09 (1)	10.00			
B-C	-25 / 0	-77.4	-77.4 0.21 (1)	6.25			
E-D	0 / 0	-18.2	-18.2 0.06 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 33.6 PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

DESIGN ASSUMPTIONS
- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.21/1.00 (B-C:1), BC=0.06/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.12/1.00 (B-C:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE RIGHT HEEL ONLY

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

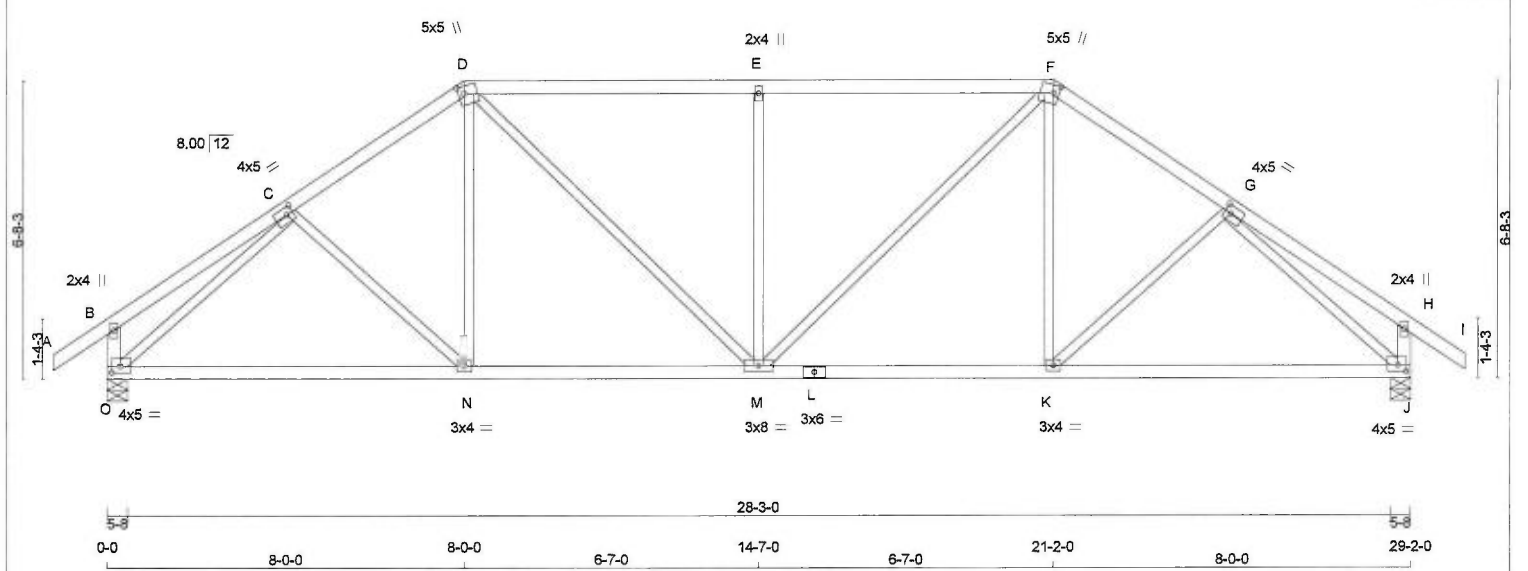
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.21 (B) (INPUT = 0.90)
JSI METAL= 0.08 (B) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





										TOTAL WEIGHT = 122 lb					
LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER								[M/F]			
N. L. G. A. RULES				BEARINGS								DESIGN CRITERIA			
CHORDS		SIZE	LUMBER	DESCR.	FACTORED		MAXIMUM FACTORED		INPUT	REQRD	SPECIFIED LOADS:				
A - D	2x4	DRY	No.2	SPF	GROSS REACTION		GROSS REACTION		BRG	BRG	TOP CH. LL = 23.3 PSF				
D - F	2x4	DRY	No.2	SPF	JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	DL = 3.0 PSF			
F - I	2x4	DRY	No.2	SPF	O	1494	0	1494	0	0	5-8	BOT CH. LL = 0.0 PSF			
O - B	2x4	DRY	No.2	SPF	J	1494	0	1494	0	0	5-8	DL = 7.3 PSF			
J - H	2x4	DRY	No.2	SPF								TOTAL LOAD = 33.6 PSF			
O - L	2x4	DRY	No.2	SPF											
L - J	2x4	DRY	No.2	SPF											
				UNFACTORED REACTIONS								SPACING = 24.0 IN. C/C			
ALL WEBS		2x3	DRY	No.2	SPF	1ST LCASE		MAX./MIN. COMPONENT REACTIONS							
EXCEPT						JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
						O	1047	739 / 0	0 / 0	0 / 0	0 / 0	308 / 0	0 / 0	LOADING IN FLAT SECTION BASED ON A	
						J	1047	739 / 0	0 / 0	0 / 0	0 / 0	308 / 0	0 / 0	SLOPE OF 2.00/12 MINIMUM	
DRY: SEASONED LUMBER.															

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) O, J						THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010		
BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.60 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.						THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014 - CSA 086-09 - TPIC 2011		
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.						(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD		
LOADING TOTAL LOAD CASES: (4)						ALLOWABLE DEFL.(LL)= L/360 (0.97") CALCULATED VERT. DEFL(LL) = L/ 999 (0.07") ALLOWABLE DEFL.(TL)= L/360 (0.97") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.16")		
CHORDS MAX. FACTORED						WEBS MAX. FACTORED		
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC	MEMB.	FORCE (LBS)	MAX CSI (LC)	
FR-TO	FROM TO	FROM TO	LENGTH	FR-TO	FROM TO	FROM TO	LENGTH	
A-B	0 / 28	-77.4	-77.4 0.09 (1)	10.00	C-N	-37 / 47	0.02 (1)	
B-C	0 / 19	-77.4	-77.4 0.19 (1)	10.00	N-D	0 / 184	0.05 (4)	
C-D	-1566 / 0	-77.4	-77.4 0.17 (1)	5.11	D-M	0 / 517	0.12 (1)	
D-E	-1659 / 0	-77.4	-77.4 0.48 (1)	4.60	M-E	-625 / 0	0.46 (1)	
E-F	-1659 / 0	-77.4	-77.4 0.48 (1)	4.60	M-F	0 / 517	0.12 (1)	
F-G	-1566 / 0	-77.4	-77.4 0.17 (1)	5.11	K-F	0 / 184	0.05 (4)	
G-H	0 / 19	-77.4	-77.4 0.19 (1)	10.00	K-G	-37 / 47	0.02 (1)	
H-I	0 / 28	-77.4	-77.4 0.09 (1)	10.00	O-C	-1788 / 0	0.86 (1)	
O-B	-221 / 0	0.0	0.0 0.02 (1)	7.81	G-J	-1788 / 0	0.86 (1)	
J-H	-221 / 0	0.0	0.0 0.02 (1)	7.81				
O-N	0 / 1313	-18.2	-18.2 0.36 (1)	10.00				
N-M	0 / 1288	-18.2	-18.2 0.37 (4)	10.00				
M-L	0 / 1288	-18.2	-18.2 0.37 (4)	10.00				
L-K	0 / 1288	-18.2	-18.2 0.37 (4)	10.00				
K-J	0 / 1313	-18.2	-18.2 0.36 (1)	10.00				

UNFACTORED REACTIONS			DESIGN CRITERIA			
1ST LCASE	MAX./MIN.	COMPONENT REACTIONS	SPECIFIED LOADS:			
JT COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	
O	1047	739 / 0	0 / 0	0 / 0	308 / 0	
J	1047	739 / 0	0 / 0	0 / 0	308 / 0	
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) O, J			LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM			
BRACING			THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010			
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.60 FT.			THIS DESIGN COMPLIES WITH:			
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.			- PART 9 OF OBC 2012, BCBC 2012, ABC 2014			
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.			- CSA 086-09			
LOADING			- TPIC 2011			
TOTAL LOAD CASES: (4)			(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD			
CHORDS			ALLOWABLE DEFL.(LL)= L/360 (0.97")			
MEMB.	FORCE (LBS)	FACTORED VERT. LOAD	LC1 MAX	MAX. MEMB. FORCE (LBS)	MAX. CSI (LC)	
FR-TO	FROM TO	FROM TO	LENGTH	FR-TO	FROM TO	
A-B	0 / 28	-77.4	-77.4 0.09 (1)	10.00	C-N	-37 / 47
B-C	0 / 19	-77.4	-77.4 0.19 (1)	10.00	N-D	0 / 184
C-D	-1566 / 0	-77.4	-77.4 0.17 (1)	5.11	D-M	0 / 517
D-E	-1659 / 0	-77.4	-77.4 0.48 (1)	4.60	M-E	-625 / 0
E-F	-1659 / 0	-77.4	-77.4 0.48 (1)	4.60	M-F	0 / 517
F-G	-1566 / 0	-77.4	-77.4 0.17 (1)	5.11	K-F	0 / 184
G-H	0 / 19	-77.4	-77.4 0.19 (1)	10.00	K-G	-37 / 47
H-I	0 / 28	-77.4	-77.4 0.09 (1)	10.00	O-C	-1788 / 0
O-B	-221 / 0	0.0	0.0 0.02 (1)	7.81	G-J	-1788 / 0
J-H	-221 / 0	0.0	0.0 0.02 (1)	7.81		
O-N	0 / 1313	-18.2	-18.2 0.36 (1)	10.00		
N-M	0 / 1288	-18.2	-18.2 0.37 (4)	10.00		
M-L	0 / 1288	-18.2	-18.2 0.37 (4)	10.00		
L-K	0 / 1288	-18.2	-18.2 0.37 (4)	10.00		
K-J	0 / 1313	-18.2	-18.2 0.36 (1)	10.00		

UNFACTORED REACTIONS			DESIGN CRITERIA			
1ST LCASE	MAX./MIN.	COMPONENT REACTIONS	SPECIFIED LOADS:			
JT COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	
O	1047	739 / 0	0 / 0	0 / 0	308 / 0	
J	1047	739 / 0	0 / 0	0 / 0	308 / 0	
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) O, J			LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM			
BRACING			THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010			
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.60 FT.			THIS DESIGN COMPLIES WITH:			
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.			- PART 9 OF OBC 2012, BCBC 2012, ABC 2014			
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.			- CSA 086-09			
LOADING			- TPIC 2011			
TOTAL LOAD CASES: (4)			(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD			
CHORDS			ALLOWABLE DEFL.(LL)= L/360 (0.97")			
MEMB.	FORCE (LBS)	FACTORED VERT. LOAD	LC1 MAX	MAX. MEMB. FORCE (LBS)	MAX. CSI (LC)	
FR-TO	FROM TO	FROM TO	LENGTH	FR-TO	FROM TO	
A-B	0 / 28	-77.4	-77.4 0.09 (1)	10.00	C-N	-37 / 47
B-C	0 / 19	-77.4	-77.4 0.19 (1)	10.00	N-D	0 / 184
C-D	-1566 / 0	-77.4	-77.4 0.17 (1)	5.11	D-M	0 / 517
D-E	-1659 / 0	-77.4	-77.4 0.48 (1)	4.60	M-E	-625 / 0
E-F	-1659 / 0	-77.4	-77.4 0.48 (1)	4.60	M-F	0 / 517
F-G	-1566 / 0	-77.4	-77.4 0.17 (1)	5.11	K-F	0 / 184
G-H	0 / 19	-77.4	-77.4 0.19 (1)	10.00	K-G	-37 / 47
H-I	0 / 28	-77.4	-77.4 0.09 (1)	10.00	O-C	-1788 / 0
O-B	-221 / 0	0.0	0.0 0.02 (1)	7.81	G-J	-1788 / 0
J-H	-221 / 0	0.0	0.0 0.02 (1)	7.81		
O-N	0 / 1313	-18.2	-18.2 0.36 (1)	10.00		
N-M	0 / 1288	-18.2	-18.2 0.37 (4)	10.00		
M-L	0 / 1288	-18.2	-18.2 0.37 (4)	10.00		
L-K	0 / 1288	-18.2	-18.2 0.37 (4)	10.00		
K-J	0 / 1313	-18.2	-18.2 0.36 (1)	10.00		

UNFACTORED REACTIONS			DESIGN CRITERIA			
1ST LCASE	MAX./MIN.	COMPONENT REACTIONS	SPECIFIED LOADS:			
JT COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	
O	1047	739 / 0	0 / 0	0 / 0	308 / 0	
J	1047	739 / 0	0 / 0	0 / 0	308 / 0	
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) O, J			LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM			
BRACING			THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010			
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.60 FT.			THIS DESIGN COMPLIES WITH:			
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.			- PART 9 OF OBC 2012, BCBC 2012, ABC 2014			
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.			- CSA 086-09			
LOADING			- TPIC 2011			
TOTAL LOAD CASES: (4)			(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD			
CHORDS			ALLOWABLE DEFL.(LL)= L/360 (0.97")			
MEMB.	FORCE (LBS)	FACTORED VERT. LOAD	LC1 MAX	MAX. MEMB. FORCE (LBS)	MAX. CSI (LC)	
FR-TO	FROM TO	FROM TO	LENGTH	FR-TO	FROM TO	
A-B	0 / 28	-77.4	-77.4 0.09 (1)	10.00	C-N	-37 / 47
B-C	0 / 19	-77.4	-77.4 0.19 (1)	10.00	N-D	0 / 184
C-D	-1566 / 0	-77.4	-77.4 0.17 (1)	5.11	D-M	0 / 517
D-E	-1659 / 0	-77.4	-77.4 0.48 (1)	4.60	M-E	-625 / 0
E-F	-1659 / 0	-77.4	-77.4 0.48 (1)	4.60	M-F	0 / 517
F-G	-1566 / 0	-77.4	-77.4 0.17 (1)	5.11	K-F	0 / 184
G-H	0 / 19	-77.4	-77.4 0.19 (1)	10.00	K-G	-37 / 47
H-I	0 / 28	-77.4	-77.4 0.09 (1)	10.00	O-C	-1788 / 0
O-B	-221 / 0	0.0	0.0 0.02 (1)	7.81	G-J	-1788 / 0
J-H	-221 / 0	0.0	0.0 0.02 (1)	7.81		
O-N	0 / 1313	-18.2	-18.2 0.36 (1)	10.00		
N-M	0 / 1288	-18.2	-18.2 0.37 (4)	10.00		
M-L	0 / 1288	-18.2	-18.2 0.37 (4)	10.00		
L-K	0 / 1288	-18.2	-18.2 0.37 (4)	10.00		
K-J	0 / 1313	-18.2	-18.2 0.36 (1)	10.00		

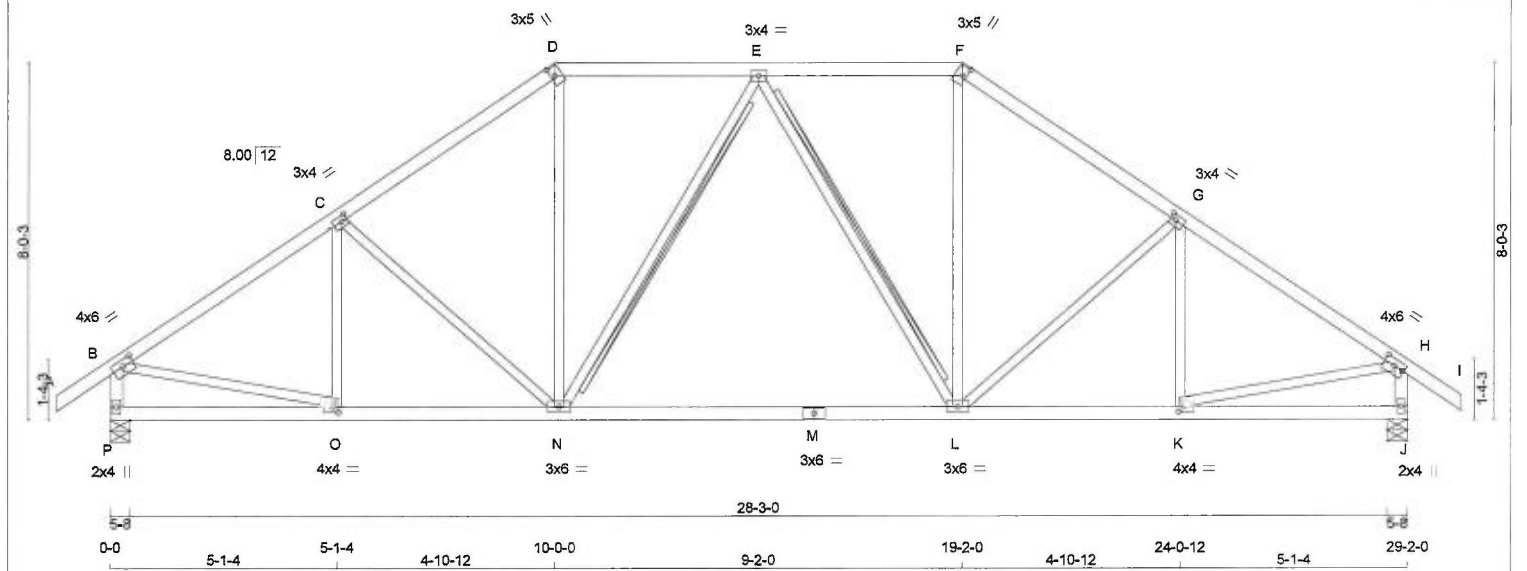
UNFACTORED REACTIONS			DESIGN CRITERIA			
1ST LCASE	MAX./MIN.	COMPONENT REACTIONS	SPECIFIED LOADS:			
JT COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	
O	1047	739 / 0	0 / 0	0 / 0	308 / 0	
J	1047	739 / 0	0 / 0	0 / 0	308 / 0	
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) O, J			LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM			
BRACING			THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010			
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.60 FT.			THIS DESIGN COMPLIES WITH:			
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.			- PART 9 OF OBC 2012, BCBC 2012, ABC 2014			
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.			- CSA 086-09			
LOADING			- TPIC 2011			
TOTAL LOAD CASES: (4)			(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD			
CHORDS			ALLOWABLE DEFL.(LL)= L/360 (0.97")			
MEMB.	FORCE (LBS)	FACTORED VERT. LOAD	LC1 MAX	MAX. MEMB. FORCE (LBS)	MAX. CSI (LC)	
FR-TO	FROM TO	FROM TO	LENGTH	FR-TO	FROM TO	
A-B	0 / 28	-77.4	-77.4 0.09 (1)	10.00	C-N	-37 / 47
B-C	0 / 19	-77.4	-77.4 0.19 (1)	10.00	N-D	0 / 184
C-D	-1566 / 0	-77.4	-77.4 0.17 (1)	5.11	D-M	0 / 517
D-E	-1659 / 0	-77.4	-77.4 0.48 (1)	4.60	M-E	-625 / 0
E-F	-1659 / 0	-77.4	-77.4 0.48 (1)	4.60	M-F	0 / 517
F-G	-1566 / 0	-77.4	-77.4 0.17 (1)	5.11	K-F	0 / 184
G-H	0 / 19	-77.4	-77.4 0.19 (1)	10.00	K-G	-37 / 47
H-I	0 / 28	-77.4	-77.4 0.09 (1)	10.00	O-C	-1788 / 0
O-B	-221 / 0	0.0	0.0 0.02 (1)	7.81	G-J	-1788 / 0
J-H	-221 / 0	0.0	0.0 0.02 (1)	7.81		
O-N	0 / 1313	-18.2	-18.2 0.36 (1)	10.00		
N-M	0 / 1288	-18.2	-18.2 0.37 (4)	10.00		
M-L	0 / 1288	-18.2	-18.2 0.37 (4)	10.00		
L-K	0 / 1288	-18.2	-18.2 0.37 (4)	10.00		
K-J	0 / 1313	-18.2	-18.2 0.36 (1)	10.00		

UNFACTORED REACTIONS			DESIGN CRITERIA			
1ST LCASE	MAX./MIN.	COMPONENT REACTIONS	SPECIFIED LOADS:			
JT COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	
O	1047	739 / 0	0 / 0	0 / 0	308 / 0	
J	1047	739 / 0	0 / 0	0 / 0	308 / 0	
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) O, J			LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM			
BRACING			THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010			
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.60 FT.			THIS DESIGN COMPLIES WITH:			
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.			- PART 9 OF OBC 2012, BCBC 2012, ABC 2014			
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.			- CSA 086-09			
LOADING			- TPIC 2011			
TOTAL LOAD CASES: (4)			(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD			
CHORDS			ALLOWABLE DEFL.(LL)= L/360 (0.97")			
MEMB.	FORCE (LBS)	FACTORED VERT. LOAD	LC1 MAX	MAX. MEMB. FORCE (LBS)	MAX. CSI (LC)	
FR-TO	FROM TO	FROM TO	LENGTH	FR-TO	FROM TO	
A-B	0 / 28	-77.4	-77.4 0.09 (1)	10.00	C-N	-37 / 47
B-C	0 / 19	-77.4	-77.4 0.19 (1)	10.00	N-D	0 / 184
C-D	-1566 / 0	-77.4	-77.4 0.17 (1)	5.11	D-M	0 / 517
D-E	-1659 / 0	-77.4	-77.4 0.48 (1)	4.60	M-E	-625 / 0
E-F	-1659 / 0	-77.4	-77.4 0.48 (1)	4.60	M-F	0 / 517
F-G	-1566 / 0	-77.4	-77.4 0.17 (1)	5.11	K-F	0 / 184
G-H	0 / 19	-77.4	-77.4 0.19 (1)	10.00	K-G	-37 / 47
H-I	0 / 28	-77.4	-77.4 0.09 (1)	10.00	O-C	-1788 / 0
O-B	-221 / 0	0.0	0.0 0.02 (1)	7.81	G-J	-1788 / 0
J-H	-221 / 0	0.0	0.0 0.02 (1)	7.81		
O-N	0 / 1313	-18.2	-18.2 0.36 (1)	10.00		
N-M	0 / 1288	-18.2	-18.2 0.37 (4)	10.00		
M-L	0 / 1288	-18.2	-18.2 0.37 (4)	10.00		
L-K	0 / 1288	-18.2	-18.2 0.37 (4)	10.00		
K-J	0 / 1313	-18.2	-18.2 0.36 (1)	10.00		

UNFACTORED REACTIONS			DESIGN CRITERIA			
1ST LCASE	MAX./MIN.	COMPONENT REACTIONS	SPECIFIED LOADS:			
JT COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	
O	1047	739 / 0	0 / 0	0 / 0	308 / 0	
J	1047	739 / 0	0 / 0	0 / 0	308 / 0	
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) O, J			LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM			
BRACING			THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010			
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.60 FT.			THIS DESIGN COMPLIES WITH:			
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.			- PART 9 OF OBC 2012, BCBC 2012, ABC 2014			
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.			- CSA 086-09			
LOADING			- TPIC 2011			
TOTAL LOAD CASES: (4)			(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD			
CHORDS			ALLOWABLE DEFL.(LL)= L/360 (0.97")			
MEMB.	FORCE (LBS)	FACTORED VERT. LOAD	LC1 MAX	MAX. MEMB. FORCE (LBS)	MAX. CSI (LC)	
FR-TO	FROM TO	FROM TO	LENGTH	FR-TO	FROM TO	
A-B	0 / 28	-77.4	-77.4 0.09 (1)	10.00	C-N	-37 / 47
B-C	0 / 19	-77.4	-77.4 0.19 (1)	10.00	N-D	0 / 184
C-D	-1566 / 0	-77.4	-77.4 0.17 (1)	5.11	D-M	0 / 517
D-E	-1659 / 0	-77.4	-77.4 0.48 (1)	4.60	M-E	-625 / 0
E-F	-1659 / 0	-77.4	-77.4 0.48 (1)	4.60	M-F	0 / 517
F-G	-1566 / 0	-77.4	-77.4 0.17 (1)	5.11	K-F	0 / 184
G-H	0 / 19	-77.4	-77.4 0.19 (1)	10.00	K-G	-37 / 47
H-I	0 / 28	-77.4	-77.4 0.09 (1)	10.00	O-C	-1788 / 0
O-B	-221 / 0	0.0	0.0 0.02 (1)	7.81	G-J	-1788 / 0
J-H	-221 / 0	0.0	0.0 0.02 (1)	7.81		

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

NE0618-001 T02 1 1 TRUSS DESC. Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Sat Jun 2 11:17:04 2018 Page 1 ID:JiDzXONJoFa2AxdT?3zOcwzBMzn-0ADW8HagBjdtPT1W685A3um7t7stW?ICmyQpifzALwD Scale = 1:49.7



LUMBER	N. L. G. A. RULES	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	No.2	SPF
F - I	2x4	DRY	No.2	SPF
P - B	2x4	DRY	No.2	SPF
J - H	2x4	DRY	No.2	SPF
P - M	2x4	DRY	No.2	SPF
M - J	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)	JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	6.0	1.75	3.00	
C	TMVW-t	MT20	3.0	4.0	1.50	1.50	
D	TTW+h	MT20	3.0	5.0	2.50	1.00	
E	TMVW-t	MT20	3.0	4.0			
F	TTW+h	MT20	3.0	5.0	2.50	1.00	
G	TMVW-t	MT20	3.0	4.0	1.50	1.50	
H	TMVW-t	MT20	4.0	6.0	1.75	3.00	
J	BMV1+p	MT20	2.0	4.0			
K	BMVW-t	MT20	4.0	4.0	1.50	1.50	
L	BMVW-t	MT20	3.0	6.0			
M	BS-t	MT20	3.0	6.0			
N	BMVW-t	MT20	3.0	6.0			
O	BMVW-t	MT20	4.0	4.0	1.50	1.50	
P	BMV1+p	MT20	2.0	4.0			

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	UPLIFT
P	1494	0	1494	0
J	1494	0	1494	0

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND
P	1047	739 / 0	0 / 0	0 / 0	308 / 0
J	1047	739 / 0	0 / 0	0 / 0	308 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) P, J

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.91 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

2x4 DRY SPF No.2 T-BRACE AT E-N, E-L

FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)
FR-TO							
A-B	0 / 28	-77.4	-77.4	0.09 (1)	10.00	O-C	-198 / 11
B-C	-1635 / 0	-77.4	-77.4	0.29 (1)	4.91	C-N	-244 / 0
C-D	-1468 / 0	-77.4	-77.4	0.27 (1)	5.13	N-D	0 / 520
D-E	-1205 / 0	-77.4	-77.4	0.22 (1)	5.59	E-N	-248 / 0
E-F	-1205 / 0	-77.4	-77.4	0.22 (1)	5.59	E-L	-248 / 0
F-G	-1468 / 0	-77.4	-77.4	0.27 (1)	5.13	L-F	0 / 520
G-H	-1635 / 0	-77.4	-77.4	0.29 (1)	4.91	L-G	-244 / 0
H-I	0 / 28	-77.4	-77.4	0.09 (1)	10.00	K-G	-198 / 11
P-B	-1451 / 0	0.0	0.0	0.15 (1)	6.79	B-O	0 / 1408
J-H	-1451 / 0	0.0	0.0	0.15 (1)	6.79	K-H	0 / 1408
P-O	0 / 0	-18.2	-18.2	0.11 (4)	10.00		
O-N	0 / 1381	-18.2	-18.2	0.36 (1)	10.00		
N-M	0 / 1330	-18.2	-18.2	0.35 (1)	10.00		
M-L	0 / 1330	-18.2	-18.2	0.35 (1)	10.00		
L-K	0 / 1381	-18.2	-18.2	0.36 (1)	10.00		
K-J	0 / 0	-18.2	-18.2	0.11 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
DL	=	3.0	PSF	
BOT CH.	LL	=	0.0	PSF
DL	=	7.3	PSF	
TOTAL LOAD	=	33.6	PSF	

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 088-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.97")
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/999 (0.20")

CSI: TC=0.29/1.00 (B-C:1), BC=0.36/1.00 (N-O:1), WB=0.32/1.00 (B-O:1), SSI=0.17/1.00 (E-F:1)

DOL LUMBER=1.00 NAIL=1.00 LBS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE GRIP(DRY) SHEAR	SECTION (PLI)	MAX MIN	MAX MIN
MT20	618 354 1667 822 2284 1656		

PLATE PLACEMENT TOL. = 0.250 inches

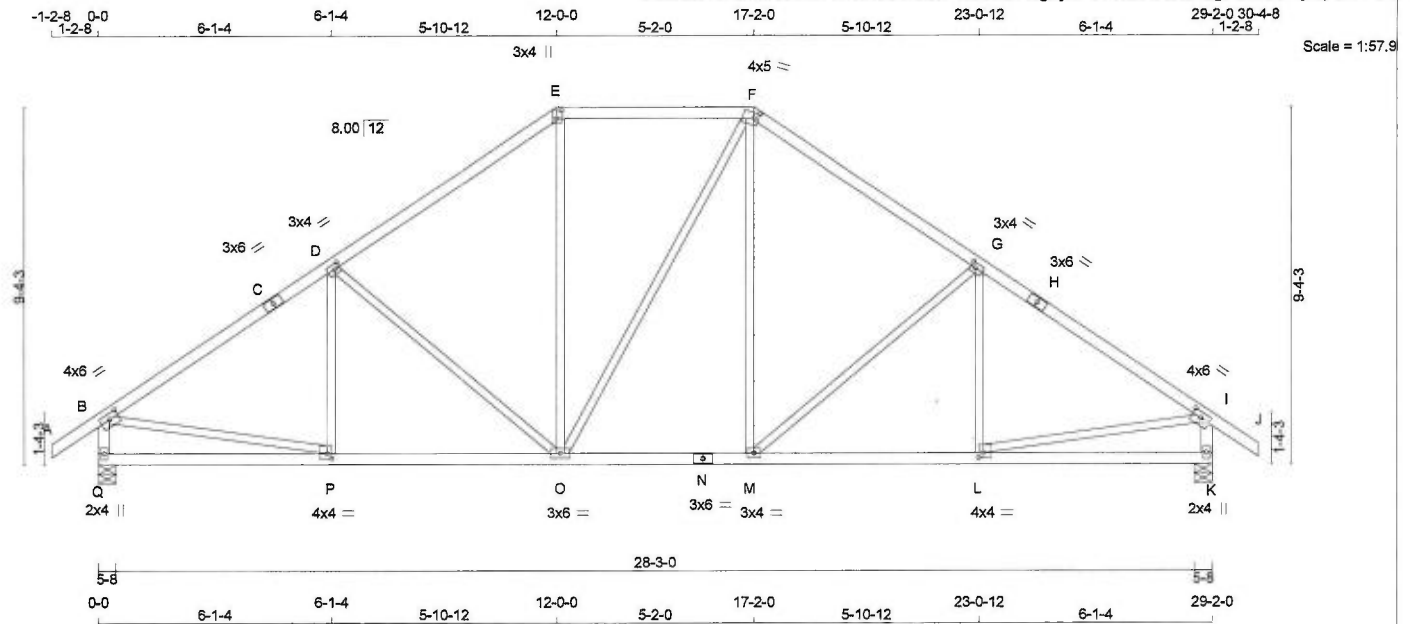
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (N) (INPUT = 0.90)
JSI METAL= 0.52 (O) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 130 lb
[M][F]

LUMBER		RULES			
N. L. G. A.	CHORDS	SIZE	NUMBER	DESCR.	
A - C	2x4	DRY	No.2	SPF	
A - E	2x4	DRY	No.2	SPF	
E - F	2x4	DRY	No.2	SPF	
F - H	2x4	DRY	No.2	SPF	
H - J	2x4	DRY	No.2	SPF	
Q - B	2x4	DRY	No.2	SPF	
K - I	2x4	DRY	No.2	SPF	
Q - N	2x4	DRY	No.2	SPF	
N - K	2x4	DRY	No.2	SPF	
ALL WEBS EXCEPT		2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	6.0	1.75	3.00
C	TS-t	MT20	3.0	6.0		
D	TMVW-t	MT20	3.0	4.0	1.50	1.50
E	TTW+p	MT20	3.0	4.0	2.50	1.50
F	TTWV-m	MT20	4.0	5.0	1.75	1.50
G	TMVW-t	MT20	3.0	4.0	1.50	1.50
H	TS-t	MT20	3.0	6.0		
I	TMVW-t	MT20	4.0	6.0	1.75	3.00
K	BMV1+p	MT20	2.0	4.0		
L	BMVW-t	MT20	4.0	4.0	1.50	1.50
M	BMVW-t	MT20	3.0	4.0		
N	BS-t	MT20	3.0	6.0		
O	BMVWVW-t	MT20	3.0	6.0		
P	BMVW-t	MT20	4.0	4.0	1.50	1.50
Q	BMV1+p	MT20	2.0	4.0		

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS						
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT IN-SX	IN-SX
Q	1494	0	1494	0	0	5-8
K	1494	0	1494	0	0	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
Q	1047	739 / 0	0 / 0	0 / 0	0 / 0	308 / 0	0 / 0
K	1047	739 / 0	0 / 0	0 / 0	0 / 0	308 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) Q, K

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.72 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY
APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)		
FR-TO		FROM TO		LENGTH	FR-TO				
A-B	0 / 28	-77.4	-77.4	0.09 (1)	10.00	P-D	-113 / 71	0.05 (1)	
B-C	-1649 / 0	-77.4	-77.4	0.43 (1)	4.72	D-O	-403 / 0	0.52 (1)	
C-D	-1649 / 0	-77.4	-77.4	0.43 (1)	4.72	O-E	0 / 359	0.08 (1)	
D-E	-1344 / 0	-77.4	-77.4	0.39 (1)	5.15	O-F	0 / 1	0.00 (1)	
E-F	-1094 / 0	-77.4	-77.4	0.28 (1)	5.71	M-F	0 / 357	0.08 (1)	
F-G	-1343 / 0	-77.4	-77.4	0.39 (1)	5.15	M-G	-404 / 0	0.52 (1)	
G-H	-1650 / 0	-77.4	-77.4	0.43 (1)	4.72	L-G	-112 / 71	0.05 (1)	
H-I	-1650 / 0	-77.4	-77.4	0.43 (1)	4.72	B-P	0 / 1417	0.32 (1)	
I-J	0 / 28	-77.4	-77.4	0.09 (1)	10.00	L-I	0 / 1418	0.32 (1)	
Q-B	-1448 / 0	0.0	0.0	0.15 (1)	6.79				
K-I	-1448 / 0	0.0	0.0	0.15 (1)	6.79				
Q-P	0 / 0	-18.2	-18.2	0.16 (4)	10.00				
P-O	0 / 1398	-18.2	-18.2	0.30 (1)	10.00				
O-N	0 / 1094	-18.2	-18.2	0.24 (1)	10.00				
N-M	0 / 1094	-18.2	-18.2	0.24 (1)	10.00				
M-L	0 / 1398	-18.2	-18.2	0.31 (1)	10.00				
L-K	0 / 0	-18.2	-18.2	0.16 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	23.3	PSF
	DL =	3.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.3	PSF
TOTAL LOAD	=	33.6	PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A
SLOPE OF 2.00/12 MINIMUM

THIS TRUSS IS DESIGNED FOR RESIDENTIAL
OR SMALL BUILDING REQUIREMENTS OF
PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.97")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11")

CSI: TC=0.43/1.00 (G-I:1), BC=0.31/1.00 (L-M:1),
WB=0.52/1.00 (G-M:1), SSI=0.19/1.00 (B-D:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE	GRIP(DRY) (PSI)		SHEAR (PLI)		SECTION (PLI)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

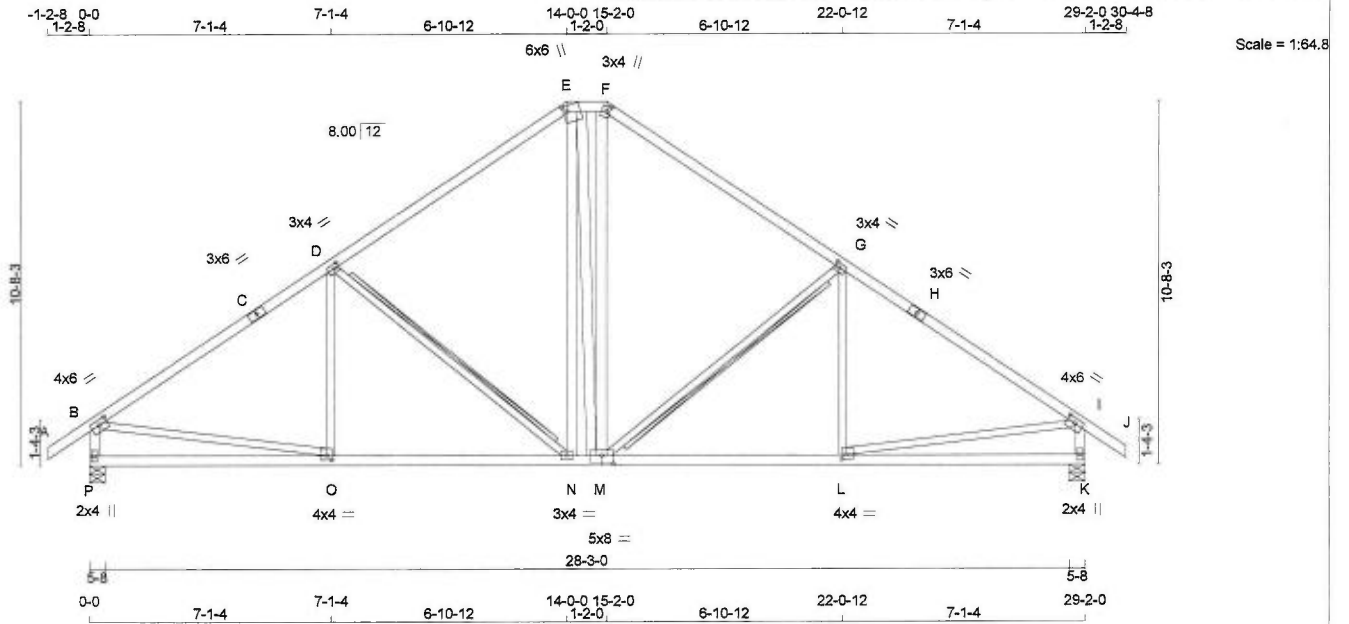
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (O) (INPUT = 0.90)
JSI METAL= 0.52 (L) (INPUT = 1.00)



**READ ALL NOTES ON THIS PAGE AND ON
ENGINEERING NOTE PAGE ENP-1. THIS
NOTE PAGE IS AN INTEGRAL PART OF
THIS DRAWING AS IT CONTAINS
SPECIFICATIONS AND CRITERIA USED IN
THE DESIGN OF THIS COMPONENT.**





LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4 DRY	No.2	SPF		
C - E	2x4 DRY	No.2	SPF		
E - F	2x4 DRY	No.2	SPF		
F - H	2x4 DRY	No.2	SPF		
H - J	2x4 DRY	No.2	SPF		
P - B	2x4 DRY	No.2	SPF		
K - I	2x4 DRY	No.2	SPF		
P - M	2x4 DRY	No.2	SPF		
M - K	2x4 DRY	No.2	SPF		
ALL WEBS	2x3 DRY	No.2	SPF		
EXCEPT					
N - E	2x4 DRY	No.2	SPF		
E - M	2x4 DRY	No.2	SPF		
M - F	2x4 DRY	No.2	SPF		

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	4.0	6.0	1.75	3.00
C	TS-t	MT20	3.0	6.0		
D	TMVW-t	MT20	3.0	4.0	1.50	1.50
E	TTW+m	MT20	6.0	6.0	2.00	1.25
F	TTW+m	MT20	3.0	4.0	2.00	1.25
G	TMVW-t	MT20	3.0	4.0	1.50	1.50
H	TS-t	MT20	3.0	6.0		
I	TMVW-t	MT20	4.0	6.0	1.75	3.00
K	BMV1+p	MT20	2.0	4.0		
L	BMVW-t	MT20	4.0	4.0	1.50	1.50
M	BSVWVW-t	MT20	5.0	8.0	3.00	4.00
N	BMVW-t	MT20	3.0	4.0		
O	BMVW-t	MT20	4.0	4.0	1.50	1.50
P	BMV1+p	MT20	2.0	4.0		

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	DOWN	UP	IN-SX
P	1494	0	1494	0
K	1494	0	1494	0

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
P	1047	739 / 0	0 / 0	0 / 0	0 / 0	308 / 0	0 / 0
K	1047	739 / 0	0 / 0	0 / 0	0 / 0	308 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) P, K

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.48 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

2x4 DRY SPF No.2 T-BRACE AT D-N, G-M

FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRAC LENGTH	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRAC LENGTH
FR-TO						FR-TO			
A-B	0 / 28	-77.4	-77.4	0.09 (1)	10.00	O-D	-54 / 107	0.04 (4)	
B-C	-1641 / 0	-77.4	-77.4	0.61 (1)	4.48	D-N	-541 / 0	0.35 (1)	
C-D	-1641 / 0	-77.4	-77.4	0.61 (1)	4.48	N-E	0 / 372	0.06 (1)	
D-E	-1213 / 0	-77.4	-77.4	0.55 (1)	5.10	E-M	0 / 37	0.01 (1)	
E-F	-886 / 0	-77.4	-77.4	0.02 (1)	6.25	M-F	0 / 409	0.07 (1)	
F-G	-1213 / 0	-77.4	-77.4	0.55 (1)	5.10	M-G	-538 / 0	0.35 (1)	
G-H	-1640 / 0	-77.4	-77.4	0.61 (1)	4.48	L-G	-59 / 105	0.04 (4)	
H-I	-1640 / 0	-77.4	-77.4	0.61 (1)	4.48	B-O	0 / 1410	0.32 (1)	
I-J	0 / 28	-77.4	-77.4	0.09 (1)	10.00	L-I	0 / 1409	0.32 (1)	
P-B	-1442 / 0	0.0	0.0	0.15 (1)	6.81				
K-I	-1441 / 0	0.0	0.0	0.15 (1)	6.81				
P-O	0 / 0	-18.2	-18.2	0.23 (4)	10.00				
O-N	0 / 1395	-18.2	-18.2	0.35 (1)	10.00				
N-M	0 / 982	-18.2	-18.2	0.26 (1)	10.00				
M-L	0 / 1395	-18.2	-18.2	0.34 (1)	10.00				
L-K	0 / 0	-18.2	-18.2	0.22 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	= 23.3	PSF
DL	= 3.0	PSF	
BOT CH.	LL	= 0.0	PSF
DL	= 7.3	PSF	
TOTAL LOAD	= 33.6	PSF	

SPACING = 24.0 IN./C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.97")
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
ALLOWABLE DEFL.(TL) = L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/999 (0.14")

CSI: TC=0.61/1.00 (B-D:1), BC=0.35/1.00 (N-O:1), WB=0.35/1.00 (D-N:1), SSI=0.22/1.00 (B-D:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

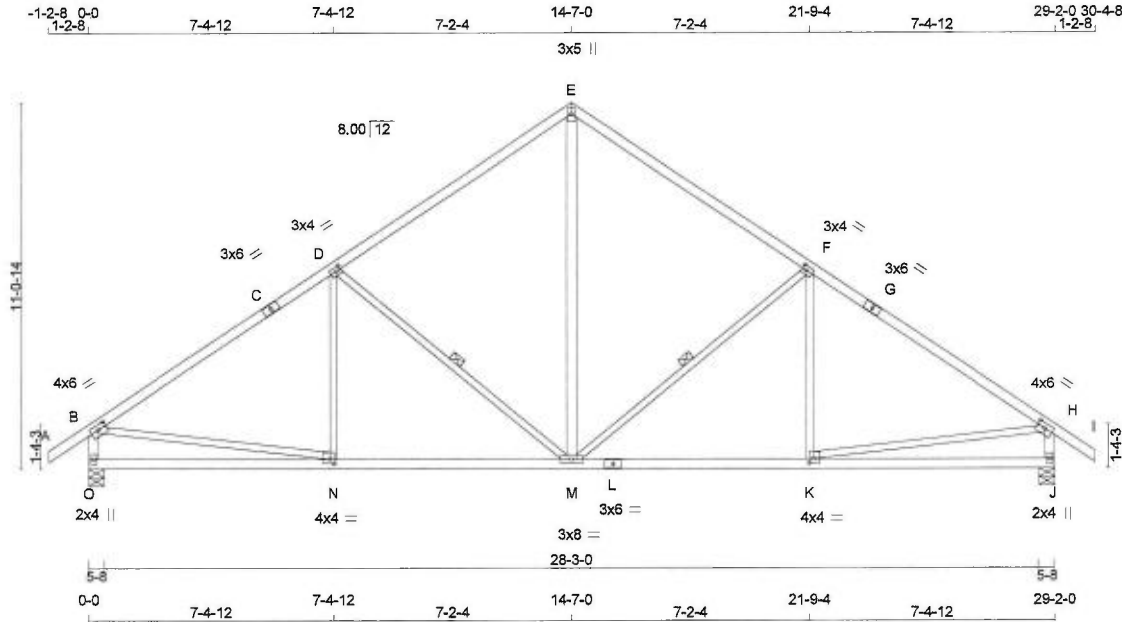
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (F) (INPUT = 0.90)
JSI METAL= 0.52 (O) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 3 X 126 = 379 lb [M][F]

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF	
C - E	2x4	DRY	No.2	SPF	
E - G	2x4	DRY	No.2	SPF	
G - I	2x4	DRY	No.2	SPF	
O - B	2x4	DRY	No.2	SPF	
J - H	2x4	DRY	No.2	SPF	
O - L	2x4	DRY	No.2	SPF	
L - J	2x4	DRY	No.2	SPF	
ALL WEBS EXCEPT M - E	2x3	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-I	MT20	4.0	6.0	1.75	3.00
C	TS-I	MT20	3.0	6.0		
D	TMVW-I	MT20	3.0	4.0	1.50	1.50
E	TTW+p	MT20	3.0	5.0		
F	TMVW-I	MT20	3.0	4.0	1.50	1.50
G	TS-I	MT20	3.0	6.0		
H	TMVW-I	MT20	4.0	6.0	1.75	3.00
J	BMV1+p	MT20	2.0	4.0		
K	BMVW-I	MT20	4.0	4.0	1.50	1.50
L	BS-I	MT20	3.0	6.0		
M	BMVW-I	MT20	3.0	8.0		
N	BMVW-I	MT20	4.0	4.0	1.50	1.50
O	BMV1+p	MT20	2.0	4.0		

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	DOWN	GROSS REACTION	DOWN	BRG	IN-SX	BRG	IN-SX
O	1494	0	1494	0	0	5-8	5-8	5-8	5-8
J	1494	0	1494	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

JT	COMBINED	SNOW	MAX./MIN. LIVE	PERM. LIVE	WIND	DEAD	SOIL
O	1047	739 / 0	0 / 0	0 / 0	0 / 0	308 / 0	0 / 0
J	1047	739 / 0	0 / 0	0 / 0	0 / 0	308 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) O, J

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.39 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF F-M, D-M. DBS = 20-0-0, CBF = 71 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE (PER BRACE). FASTEN LATERAL BRACE(S) USING (0.122"x3") SPIRAL NAILS: 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 28	-77.4 -77.4	0.09 (1)	10.00	M-E	0 / 853	0.14 (1)
B-C	-1635 / 0	-77.4 -77.4	0.67 (1)	4.39	M-F	-571 / 0	0.35 (1)
C-D	-1635 / 0	-77.4 -77.4	0.67 (1)	4.39	K-F	-45 / 112	0.04 (4)
D-E	-1183 / 0	-77.4 -77.4	0.60 (1)	5.05	D-M	-571 / 0	0.35 (1)
E-F	-1183 / 0	-77.4 -77.4	0.60 (1)	5.05	N-D	-45 / 112	0.04 (4)
F-G	-1635 / 0	-77.4 -77.4	0.67 (1)	4.39	B-N	0 / 1405	0.32 (1)
G-H	-1635 / 0	-77.4 -77.4	0.67 (1)	4.39	K-H	0 / 1405	0.32 (1)
H-I	0 / 28	-77.4 -77.4	0.09 (1)	10.00			
O-B	-1439 / 0	0.0 0.0	0.15 (1)	6.81			
J-H	-1439 / 0	0.0 0.0	0.15 (1)	6.81			
O-N	0 / 0	-18.2 -18.2	0.24 (4)	10.00			
N-M	0 / 1392	-18.2 -18.2	0.35 (1)	10.00			
M-L	0 / 1392	-18.2 -18.2	0.35 (1)	10.00			
L-K	0 / 1392	-18.2 -18.2	0.35 (1)	10.00			
K-J	0 / 0	-18.2 -18.2	0.24 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3	PSF
	DL = 3.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.3	PSF
TOTAL LOAD	= 33.6	PSF

SPACING = 24.0 IN./C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.97")
CALCULATED VERT. DEFL.(LL)= L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.97")
CALCULATED VERT. DEFL.(TL)= L/ 999 (0.13")

CSI: TC=0.67/1.00 (B-D:1), BC=0.35/1.00 (M-N:1), WB=0.35/1.00 (D-M:1), SSI=0.23/1.00 (B-D:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

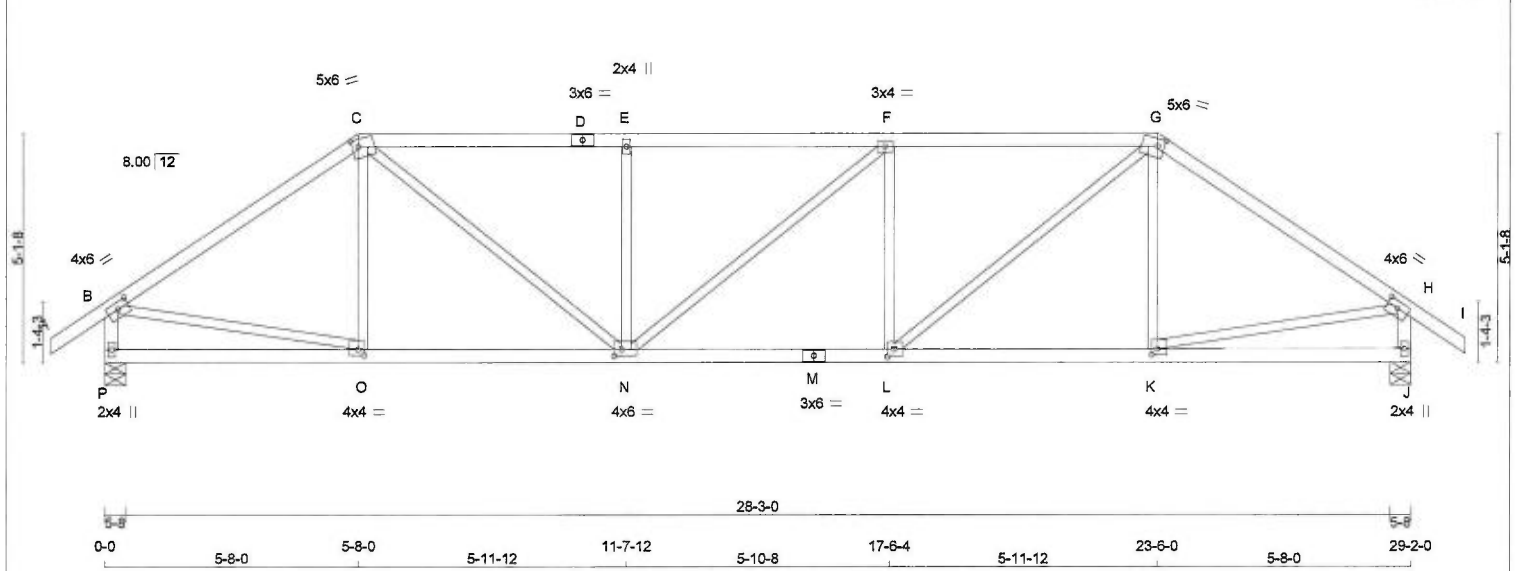
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (M) (INPUT = 0.90)
JSI METAL= 0.52 (N) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 116 lb

LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.	BEARINGS								SPECIFIED LOADS:				
A - C	2x4	DRY	No.2	SPF	FACTORED				MAXIMUM FACTORED				INPUT	REQRD	TOP CH.	LL = 23.3	PSF
C - D	2x4	DRY	No.2	SPF	GROSS REACTION				GROSS REACTION				BRG	BRG	DL = 3.0	PSF	
D - G	2x4	DRY	No.2	SPF	JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	BOT CH.	LL = 0.0	PSF		
G - I	2x4	DRY	No.2	SPF	P	1494	0	1494	0	0	5-8	5-8	DL = 7.3	PSF			
P - B	2x4	DRY	No.2	SPF	J	1494	0	1494	0	0	5-8	5-8	TOTAL LOAD =	33.6	PSF		
J - H	2x4	DRY	No.2	SPF													
P - M	2x4	DRY	No.2	SPF													
M - J	2x4	DRY	No.2	SPF	UNFACTORED REACTIONS												
					SPACING = 24.0 IN. C/C												

DRY: SEASONED LUMBER.

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH. LL = 23.3 PSF
 DL = 3.0 PSF
 BOT CH. LL = 0.0 PSF
 DL = 7.3 PSF
 TOTAL LOAD = 33.6 PSF

SPACING = 24.0 IN./C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
 - PART 9 OF OBC 2012, BCBC 2012, ABC 2014
 - CSA 086-09
 - TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.97")
 CALCULATED VERT. DEFL.(LL) = L/ 999 (0.10")
 ALLOWABLE DEFL.(TL)= L/360 (0.97")
 CALCULATED VERT. DEFL.(TL) = L/ 999 (0.19")

CSI: TC=0.55/1.00 (B-C:1) , BC=0.39/1.00 (L-N:1) , WB=0.31/1.00 (B-O:1) , SSI=0.21/1.00 (F-G:1)

DOL LUMBER=1.00 NAIL=1.00 LBS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

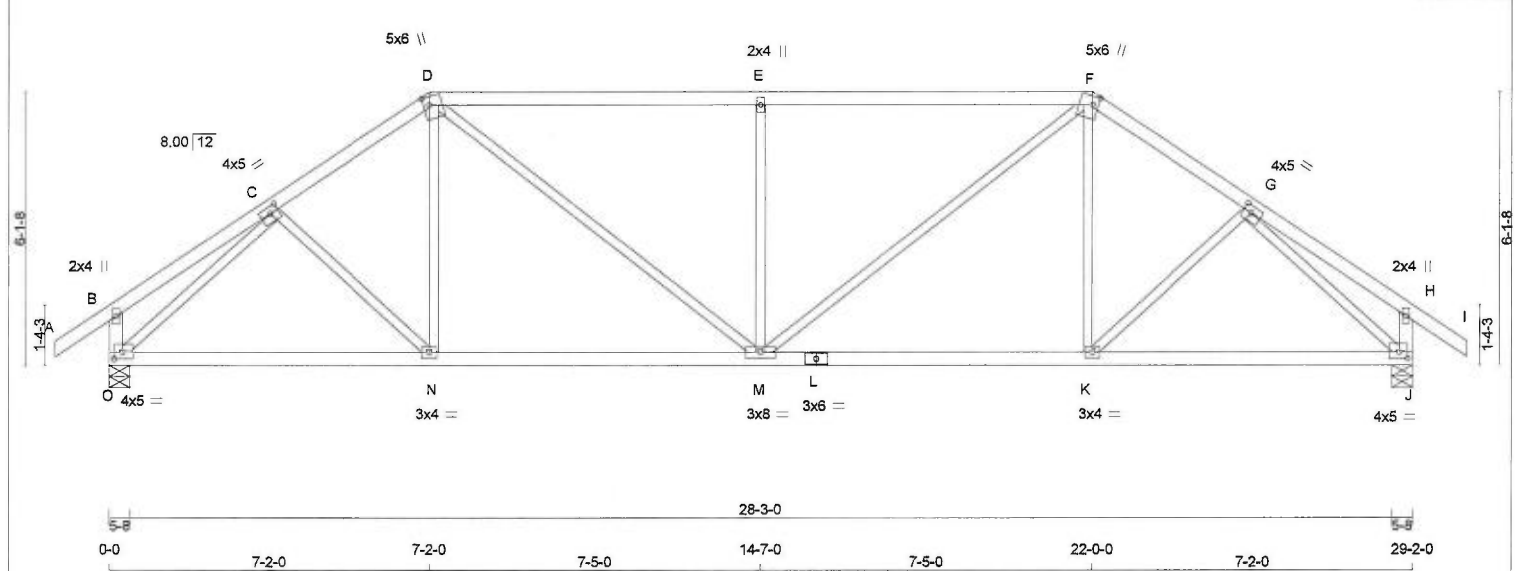
NAIL VALUES
 PLATE GRIP(DRY) SHEAR SECTION
 (PSI) (PLI) (PLI)
 MAX MIN MAX MIN MAX MIN
 MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.
 JSI GRIP= 0.90 (G) (INPUT = 0.90)
 JSI METAL= 0.57 (M) (INPUT = 1.00)

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 119 lb

LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER				DESIGN CRITERIA			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.	BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REORD	SPECIFIED LOADS:	
A - D	2x4	DRY	No.2	SPF	JOINT	VERT	GROSS REACTION	GROSS REACTION	BRG	TOP CH. LL = 23.3 PSF	
D - F	2x4	DRY	No.2	SPF	JOINT	HORIZ	DOWN	HORIZ	UPLIFT	DL = 3.0 PSF	
F - I	2x4	DRY	No.2	SPF	JOINT	VERT	DOWN	HORIZ	UPLIFT	BOT CH. LL = 0.0 PSF	
O - B	2x4	DRY	No.2	SPF	JOINT	HORIZ	DOWN	HORIZ	UPLIFT	DL = 7.3 PSF	
J - H	2x4	DRY	No.2	SPF	JOINT	VERT	DOWN	HORIZ	UPLIFT	TOTAL LOAD = 33.6 PSF	
O - L	2x4	DRY	No.2	SPF	JOINT	HORIZ	DOWN	HORIZ	UPLIFT		
L - J	2x4	DRY	No.2	SPF	JOINT	VERT	DOWN	HORIZ	UPLIFT		
ALL WEBS	2x3	DRY	No.2	SPF	UNFACTORED REACTIONS	1ST LCASE	MAX./MIN. COMPONENT REACTIONS			SPACING = 24.0 IN. C/C	
EXCEPT					JOINT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	
					JOINT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	
					JOINT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	

DRY: SEASONED LUMBER.

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) O, J

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.60 FT.

MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS

MEMB. FORCE VERT. LOAD LC1 MAX. FACTORED

FR-TO FROM TO

A-B 0/28 -77.4 -77.4 0.09 (1) 10.00 C-N 0/59 0.02 (4)

B-C 0/16 -77.4 -77.4 0.14 (1) 10.00 N-D 0/133 0.04 (4)

C-D -1594/0 -77.4 -77.4 0.18 (1) 5.06 D-M 0/672 0.15 (1)

D-E -1841/0 -77.4 -77.4 0.95 (1) 3.60 M-E -706/0 0.42 (1)

E-F -1841/0 -77.4 -77.4 0.95 (1) 3.60 M-F 0/672 0.15 (1)

F-G -1594/0 -77.4 -77.4 0.18 (1) 5.06 K-F 0/133 0.04 (4)

G-H 0/16 -77.4 -77.4 0.14 (1) 10.00 K-G 0/59 0.02 (4)

H-I 0/28 -77.4 -77.4 0.09 (1) 10.00 O-C -1784/0 0.70 (1)

O-B -209/0 0.0 0.0 0.02 (1) 7.81 G-J -1784/0 0.70 (1)

J-H -209/0 0.0 0.0 0.02 (1) 7.81

O-N 0/1291 -18.2 -18.2 0.34 (1) 10.00

N-M 0/1313 -18.2 -18.2 0.35 (1) 10.00

M-L 0/1313 -18.2 -18.2 0.35 (1) 10.00

L-K 0/1313 -18.2 -18.2 0.35 (1) 10.00

K-J 0/1291 -18.2 -18.2 0.34 (1) 10.00

WEBS

MEMB. FORCE VERT. LOAD LC1 MAX. FACTORED

FR-TO FROM TO

A-B 0/28 -77.4 -77.4 0.09 (1) 10.00 C-N 0/59 0.02 (4)

B-C 0/16 -77.4 -77.4 0.14 (1) 10.00 N-D 0/133 0.04 (4)

C-D -1594/0 -77.4 -77.4 0.18 (1) 5.06 D-M 0/672 0.15 (1)

D-E -1841/0 -77.4 -77.4 0.95 (1) 3.60 M-E -706/0 0.42 (1)

E-F -1841/0 -77.4 -77.4 0.95 (1) 3.60 M-F 0/672 0.15 (1)

F-G -1594/0 -77.4 -77.4 0.18 (1) 5.06 K-F 0/133 0.04 (4)

G-H 0/16 -77.4 -77.4 0.14 (1) 10.00 K-G 0/59 0.02 (4)

H-I 0/28 -77.4 -77.4 0.09 (1) 10.00 O-C -1784/0 0.70 (1)

O-B -209/0 0.0 0.0 0.02 (1) 7.81 G-J -1784/0 0.70 (1)

J-H -209/0 0.0 0.0 0.02 (1) 7.81

O-N 0/1291 -18.2 -18.2 0.34 (1) 10.00

N-M 0/1313 -18.2 -18.2 0.35 (1) 10.00

M-L 0/1313 -18.2 -18.2 0.35 (1) 10.00

L-K 0/1313 -18.2 -18.2 0.35 (1) 10.00

K-J 0/1291 -18.2 -18.2 0.34 (1) 10.00

CS: TC=0.95/1.00 (E-F:1), BC=0.35/1.00 (M-N:1), WB=0.70/1.00 (C-O:1), SS=0.28/1.00 (E-F:1)

DOL LUMBER=1.00 NAIL=1.00 LBS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION

(PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

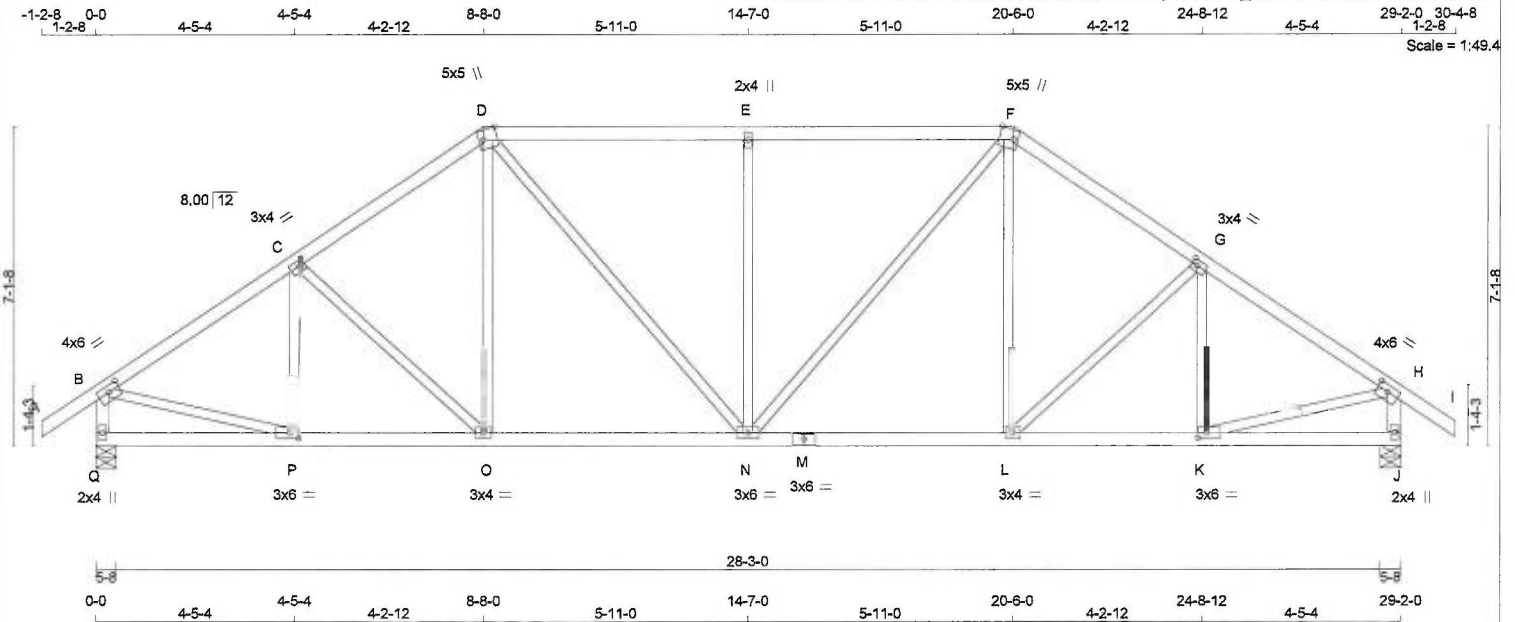
JSI GRIP= 0.89 (C) (INPUT = 0.90)

JSI METAL= 0.53 (G) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 128 lb
[M][F]

LUMBER

N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - I	2x4	DRY	No.2
Q - B	2x4	DRY	No.2
J - H	2x4	DRY	No.2
Q - M	2x4	DRY	No.2
M - J	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-I	MT20	4.0	6.0	1.75	3.00
C	TMVW-I	MT20	3.0	4.0	1.50	1.50
D	TTVW+m	MT20	5.0	5.0	Edge	3.75
E	TMVW+m	MT20	2.0	4.0		
F	TTVW+m	MT20	5.0	5.0	Edge	3.75
G	TMVW-I	MT20	3.0	4.0	1.50	1.50
H	TMVW-I	MT20	4.0	6.0	1.75	3.00
J	BMV1+p	MT20	2.0	4.0		
K	BMVW-I	MT20	3.0	6.0	1.50	2.25
L	BMVW-I	MT20	3.0	4.0		
M	BS-I	MT20	3.0	6.0		
N	BMVW-I	MT20	3.0	6.0		
O	BMVW-I	MT20	3.0	4.0		
P	BMVW-I	MT20	3.0	6.0	1.50	2.25
Q	BMV1+p	MT20	2.0	4.0		

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REORD	
JT	GROSS REACTION	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	BRG	IN-SX
Q	1494	0	1494	0	0	5-8	5-8		
J	1494	0	1494	0	0	5-8	5-8		

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS	PERM.	LIVE	WIND	DEAD	SOIL
Q	1047	739 / 0	0 / 0	0 / 0	0 / 0	308 / 0	0 / 0	0 / 0
J	1047	739 / 0	0 / 0	0 / 0	0 / 0	308 / 0	0 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) Q, J

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.88 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MAX. FACTORED		FACTORED		MAX. FACTORED			
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC	MEMB.	FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM	TO	LENGTH	FR-TO		
A-B	0 / 28	-77.4	-77.4	0.09 (1)	10.00	P-C	-237 / 0 0.07 (1)
B-C	-1616 / 0	-77.4	-77.4	0.21 (1)	5.01	C-O	-154 / 0 0.09 (1)
C-D	-1526 / 0	-77.4	-77.4	0.21 (1)	5.13	O-D	0 / 201 0.05 (1)
D-E	-1542 / 0	-77.4	-77.4	0.38 (1)	4.88	D-N	0 / 443 0.10 (1)
E-F	-1542 / 0	-77.4	-77.4	0.38 (1)	4.88	N-E	-560 / 0 0.49 (1)
F-G	-1526 / 0	-77.4	-77.4	0.21 (1)	5.13	N-F	0 / 443 0.10 (1)
G-H	-1616 / 0	-77.4	-77.4	0.21 (1)	5.01	L-F	0 / 201 0.05 (1)
H-I	0 / 28	-77.4	-77.4	0.09 (1)	10.00	L-G	-154 / 0 0.09 (1)
Q-B	-1458 / 0	0.0	0.0	0.15 (1)	6.77	K-G	-237 / 0 0.07 (1)
J-H	-1458 / 0	0.0	0.0	0.15 (1)	6.77	B-P	0 / 1398 0.31 (1)
						K-H	0 / 1398 0.31 (1)
Q-P	0 / 0	-18.2	-18.2	0.07 (4)	10.00		
P-O	0 / 1362	-18.2	-18.2	0.28 (1)	10.00		
O-N	0 / 1252	-18.2	-18.2	0.27 (1)	10.00		
N-M	0 / 1252	-18.2	-18.2	0.27 (1)	10.00		
M-L	0 / 1252	-18.2	-18.2	0.27 (1)	10.00		
L-K	0 / 1362	-18.2	-18.2	0.28 (1)	10.00		
K-J	0 / 0	-18.2	-18.2	0.07 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.3	PSF
TOTAL LOAD		=	33.6	PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.97")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.12")

CSI: TC=0.38/1.00 (D-E:1), BC=0.28/1.00 (O-P:1), WB=0.49/1.00 (E-N:1), SSI=0.22/1.00 (D-E:1)

DOL LUMBER=1.00 NAIL=1.00 LBS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
	MAX MIN	MAX MIN	MAX MIN
MT20	618	354	1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (N) (INPUT = 0.90)
JSI METAL= 0.44 (B) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



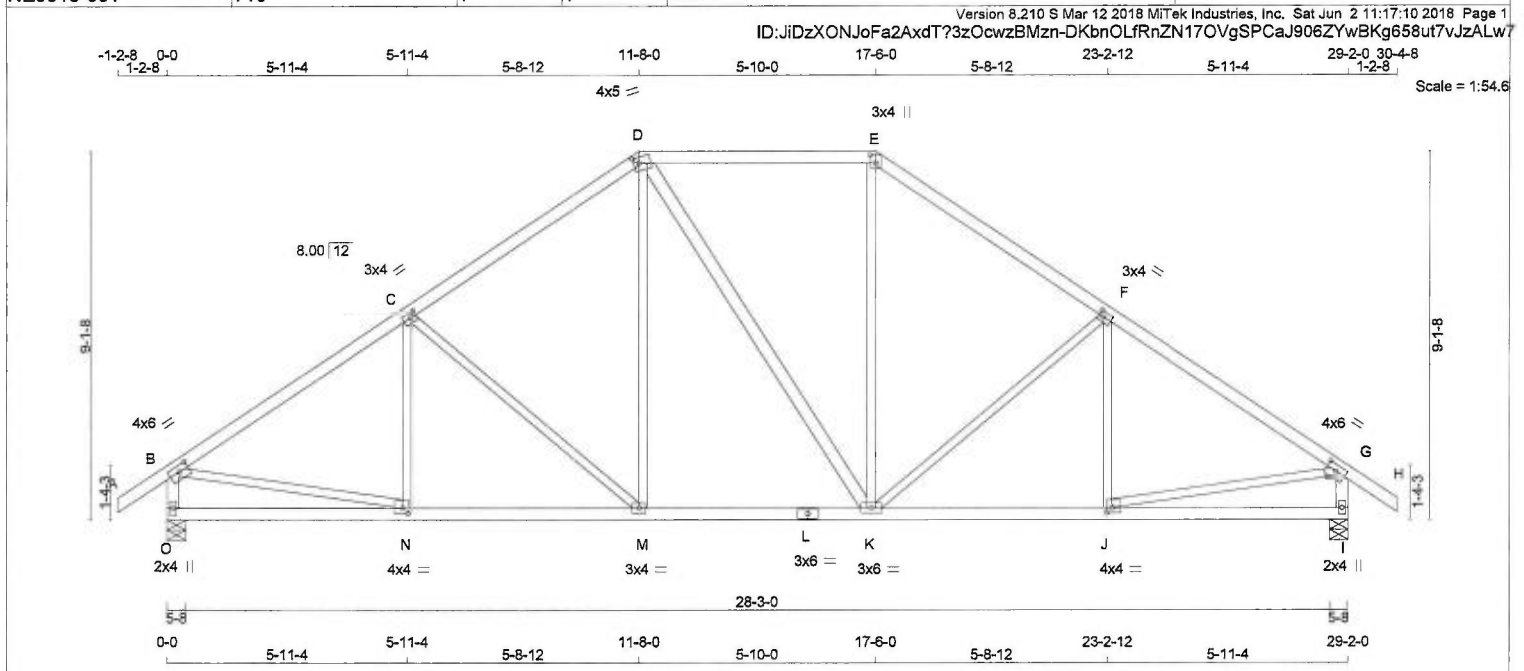


BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) P, J	THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010
BRACING	

TOTAL LOAD CASES: (4)
 CHORDS MAY FACTORED FACTORED WEBS MAY FACTORED
 DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
 COMB=1.10 SHEAR=1.10 TENS=1.10


 K-J 0/0 -18.2 -18.2 0.11 (4) 10.00 JSI METAL= 0.52 (0) (INPUT = 1.00)

READ ALL NOTES ON THIS PAGE AND ON
ENGINEERING NOTE PAGE ENP-1. THIS
NOTE PAGE IS AN INTEGRAL PART OF
THIS DRAWING AS IT CONTAINS
SPECIFICATIONS AND CRITERIA USED IN
THE DESIGN OF THIS COMPONENT.



LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - E	2x4	DRY	No.2	SPF
E - H	2x4	DRY	No.2	SPF
O - B	2x4	DRY	No.2	SPF
I - G	2x4	DRY	No.2	SPF
O - L	2x4	DRY	No.2	SPF
L - I	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				
D - K	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWW-t	MT20	4.0	6.0	1.75	3.00
C	TMWW-t	MT20	3.0	4.0	1.50	1.50
D	TTWW-m	MT20	4.0	5.0	1.75	1.50
E	TTWW-p	MT20	3.0	4.0	2.50	1.50
F	TMWW-t	MT20	3.0	4.0	1.50	1.50
G	TMWW-t	MT20	4.0	6.0	1.75	3.00
I	BMV1+p	MT20	2.0	4.0		
J	BMVWW-t	MT20	4.0	4.0	1.50	1.50
K	BMVWW-t	MT20	3.0	6.0		
L	BS-t	MT20	3.0	6.0		
M	BMVWW-t	MT20	3.0	4.0		
N	BMVWW-t	MT20	4.0	4.0	1.50	1.50
O	BMV1+p	MT20	2.0	4.0		

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
O	1494 0	1494 0	5-8	5-8
I	1494 0	1494 0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST CASE	MAX./MIN. COMPONENT REACTIONS	2ND CASE	MAX./MIN. COMPONENT REACTIONS
O	1047	739 / 0	0 / 0	0 / 0
I	1047	739 / 0	0 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) O, I

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.75 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING										
TOTAL LOAD CASES: (4)										
CHORDS					WEBS					
MAX. FACTORED		FACTORED			MAX. FACTORED		FACTORED			
MEMB.	FORCE	VERT. LOAD	LC1	MAX	MAX.	MEMB.	FORCE	MAX		
	(LBS)	(PLF)	CSI (LC)		UNBRAC		(LBS)	CSI (LC)		
FR-TO		FROM	TO		LENGTH	FR-TO				
A-B	0 / 28	-77.4	-77.4	0.09 (1)	10.00	N-C	-124 / 63	0.05 (1)		
B-C	-1649 / 0	-77.4	-77.4	0.40 (1)	4.75	C-M	-379 / 0	0.45 (1)		
C-D	-1364 / 0	-77.4	-77.4	0.37 (1)	5.15	M-D	0 / 349	0.08 (1)		
D-E	-1113 / 0	-77.4	-77.4	0.36 (1)	5.57	D-K	0 / 0	0.00 (1)		
E-F	-1365 / 0	-77.4	-77.4	0.37 (1)	5.15	K-E	0 / 350	0.08 (1)		
F-G	-1649 / 0	-77.4	-77.4	0.40 (1)	4.75	K-F	-379 / 0	0.45 (1)		
G-H	0 / 28	-77.4	-77.4	0.09 (1)	10.00	J-F	-125 / 63	0.05 (1)		
O-B	-1449 / 0	0.0	0.0	0.15 (1)	6.79	B-N	0 / 1417	0.32 (1)		
I-G	-1449 / 0	0.0	0.0	0.15 (1)	6.79	J-G	0 / 1417	0.32 (1)		
O-N	0 / 0	-18.2	-18.2	0.15 (4)	10.00					
N-M	0 / 1397	-18.2	-18.2	0.30 (1)	10.00					
M-L	0 / 1112	-18.2	-18.2	0.24 (1)	10.00					
L-K	0 / 1112	-18.2	-18.2	0.24 (1)	10.00					
K-J	0 / 1396	-18.2	-18.2	0.30 (1)	10.00					
J-I	0 / 0	-18.2	-18.2	0.15 (4)	10.00					

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	PSF
DL	23.3	PSF
DL	3.0	PSF
BOT CH.	LL	PSF
DL	0.0	PSF
DL	7.3	PSF
TOTAL LOAD	33.6	PSF

SPACING = 24.0 IN. G/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.97")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11")

CSI: TC=0.40/1.00 (B-C:1), BC=0.30/1.00 (M-N:1), WB=0.45/1.00 (C-M:1), SSI=0.18/1.00 (B-C:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

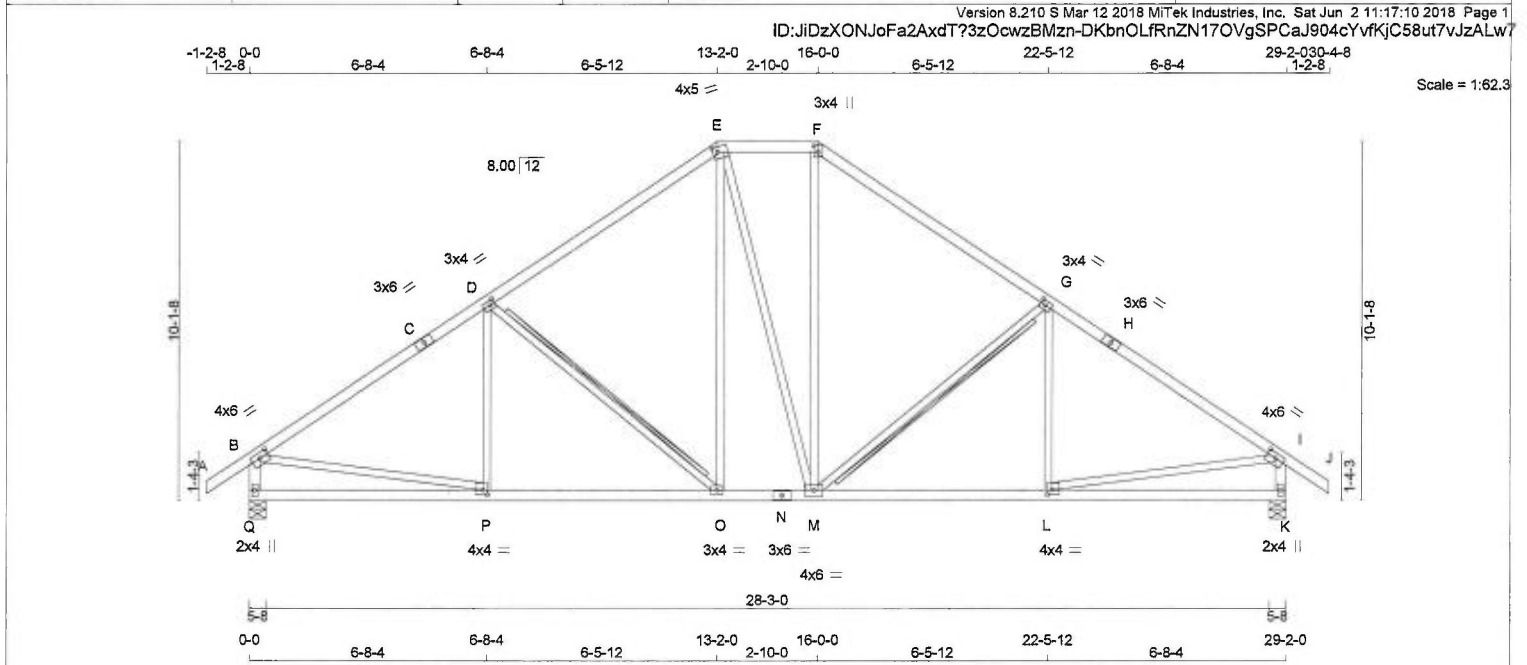
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (E) (INPUT = 0.90)
JSI METAL= 0.52 (N) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





										TOTAL WEIGHT = 134 lb																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
LUMBER N. L. G. A. RULES				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
CHORDS				SIZE				LUMBER				DESCR.		BEARINGS				SPECIFIED LOADS:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
A - C				2x4				DRY				No.2				SPF		FACTORED				MAXIMUM FACTORED		INPUT		REQRD		TOP CH. LL = 23.3 PSF																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
C - E				2x4				DRY				No.2				SPF		GROSS REACTION				GROSS REACTION				BRG		BRG		DL = 3.0 PSF																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
E - F				2x4				DRY				No.2				SPF		JT				VERT				HORZ				UPLIFT		IN-SX		IN-SX																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
F - H				2x4				DRY				No.2				SPF		Q				1494				0				1494				0				0		5-8		5-8		BOT CH. LL = 0.0 PSF																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
H - J				2x4				DRY				No.2				SPF		K				1494				0				1494				0				0		5-8		5-8		DL = 7.3 PSF																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Q - B				2x4				DRY				No.2				SPF												TOTAL LOAD = 33.6 PSF																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
K - I				2x4				DRY				No.2				SPF																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Q - N				2x4				DRY				No.2				SPF																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
N - K				2x4				DRY				No.2				SPF																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
										UNFACTORED REACTIONS										SPACING = 24.0 IN. C/C																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
										1ST LCASE										MAX./MIN. COMPONENT REACTIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
										JT										COMBINED										SNOW										LIVE										PERM.LIVE										WIND										DEAD										SOIL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
										Q										1047										739 / 0										0 / 0										0 / 0										0 / 0										308 / 0										0 / 0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
										K										1047										739 / 0										0 / 0										0 / 0										0 / 0										308 / 0										0 / 0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
ALL WEBS EXCEPT										2x3				DRY				No.2				SPF																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

DRY: SEASONED LUMBER.

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN.	COMPONENT REACTIONS
JT COMBINED	SNOW	LIVE PERM.LIVE WIND DEAD SOIL
Q 1047	739 / 0	0 / 0 0 / 0 308 / 0 0 / 0
K 1047	739 / 0	0 / 0 0 / 0 308 / 0 0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) Q, K

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.59 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

2x4 DRY SPF No.2 T-BRACE AT D-O, G-M

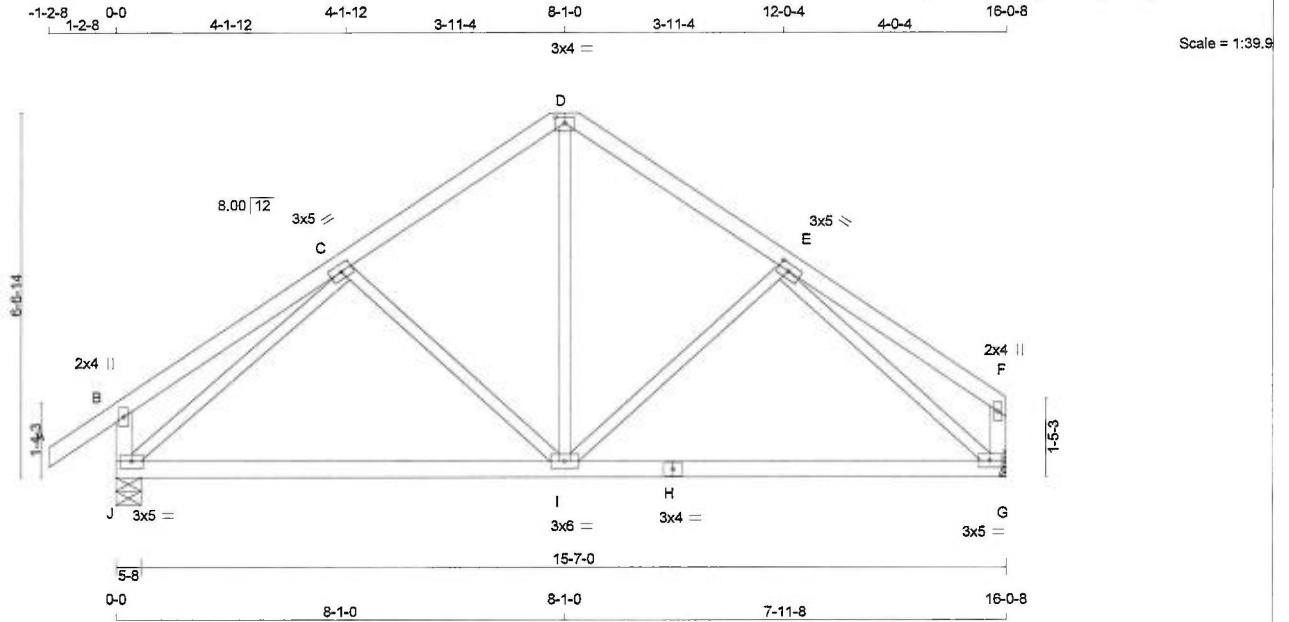
FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX UNBRAC LENGTH	MAX FACTORED CSI (LC)
FR-TO		FROM TO		FR-TO			
A-B	0 / 28	-77.4 -77.4	0.09 (1)	10.00	P-D	-75 / 94	0.04 (1)
B-C	-1647 / 0	-77.4 -77.4	0.53 (1)	4.59	D-O	-486 / 0	0.28 (1)
C-D	-1647 / 0	-77.4 -77.4	0.53 (1)	4.59	O-E	0 / 384	0.09 (1)
D-E	-1268 / 0	-77.4 -77.4	0.48 (1)	5.13	E-M	0 / 5	0.00 (1)
E-F	-1030 / 0	-77.4 -77.4	0.09 (1)	6.09	M-F	0 / 389	0.09 (1)
F-G	-1270 / 0	-77.4 -77.4	0.48 (1)	5.13	M-G	-484 / 0	0.27 (1)
G-H	-1646 / 0	-77.4 -77.4	0.53 (1)	4.59	L-G	-78 / 93	0.04 (1)
H-I	-1646 / 0	-77.4 -77.4	0.53 (1)	4.59	B-P	0 / 1415	0.32 (1)
I-J	0 / 28	-77.4 -77.4	0.09 (1)	10.00	L-I	0 / 1414	0.32 (1)
Q-B	-1445 / 0	0.0 0.0	0.15 (1)	6.80			
K-I	-1444 / 0	0.0 0.0	0.15 (1)	6.80			
Q-P	0 / 0	-18.2 -18.2	0.21 (4)	10.00			
P-O	0 / 1399	-18.2 -18.2	0.33 (1)	10.00			
O-N	0 / 1029	-18.2 -18.2	0.23 (1)	10.00			
N-M	0 / 1029	-18.2 -18.2	0.23 (1)	10.00			
M-L	0 / 1398	-18.2 -18.2	0.33 (1)	10.00			
L-K	0 / 0	-18.2 -18.2	0.20 (4)	10.00			



TOTAL WEIGHT = 66 lb [M][F]

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF	
D - F	2x4	DRY	No.2	SPF	
J - B	2x4	DRY	No.2	SPF	
G - F	2x4	DRY	No.2	SPF	
J - H	2x4	DRY	No.2	SPF	
H - G	2x4	DRY	No.2	SPF	
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	4.0		
C	TMVW-t	MT20	3.0	5.0		
D	TTW-p	MT20	3.0	4.0	1.25	2.00
E	TMVW-t	MT20	3.0	5.0	1.50	2.25
F	TMV+p	MT20	2.0	4.0		
G	BMVW1-t	MT20	3.0	5.0		
H	BS-t	MT20	3.0	4.0		
I	BMVWV-t	MT20	3.0	6.0		
J	BMVW1-t	MT20	3.0	5.0		

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
J	867	0	867	0
G	767	0	767	0

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT G TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
J	607	434 / 0	0 / 0	0 / 0	0 / 0	173 / 0	0 / 0
G	539	374 / 0	0 / 0	0 / 0	0 / 0	165 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) J

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MAX.	MEMB.	WEBS	MAX. FACTORED
		FORCE	(PLF)				LENGTH			FORCE
FR-TO		(LBS)	FROM TO		CSI (LC)		FR-TO			(LBS)
A-B	0 / 28	-77.4	-77.4	0.09	(1)	10.00	C-I	-190 / 2	0.10	(1)
B-C	0 / 20	-77.4	-77.4	0.20	(1)	10.00	I-D	0 / 425	0.10	(1)
C-D	-622 / 0	-77.4	-77.4	0.16	(1)	6.25	I-E	-172 / 6	0.09	(1)
D-E	-621 / 0	-77.4	-77.4	0.15	(1)	6.25	J-C	-871 / 0	0.43	(1)
E-F	0 / 20	-77.4	-77.4	0.19	(1)	10.00	E-G	-866 / 0	0.41	(1)
J-B	-220 / 0	0.0	0.0	0.02	(1)	7.81				
G-F	-115 / 0	0.0	0.0	0.01	(1)	7.81				
J-I	0 / 641	-18.2	-18.2	0.38	(4)	10.00				
I-H	0 / 627	-18.2	-18.2	0.38	(4)	10.00				
H-G	0 / 627	-18.2	-18.2	0.38	(4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.3	PSF
TOTAL LOAD		=	33.6	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.53")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.53")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.10")

CSI: TC=0.20/1.00 (B-C:1), BC=0.38/1.00 (I-J:4), WB=0.43/1.00 (C-J:1), SSI=0.13/1.00 (C-D:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

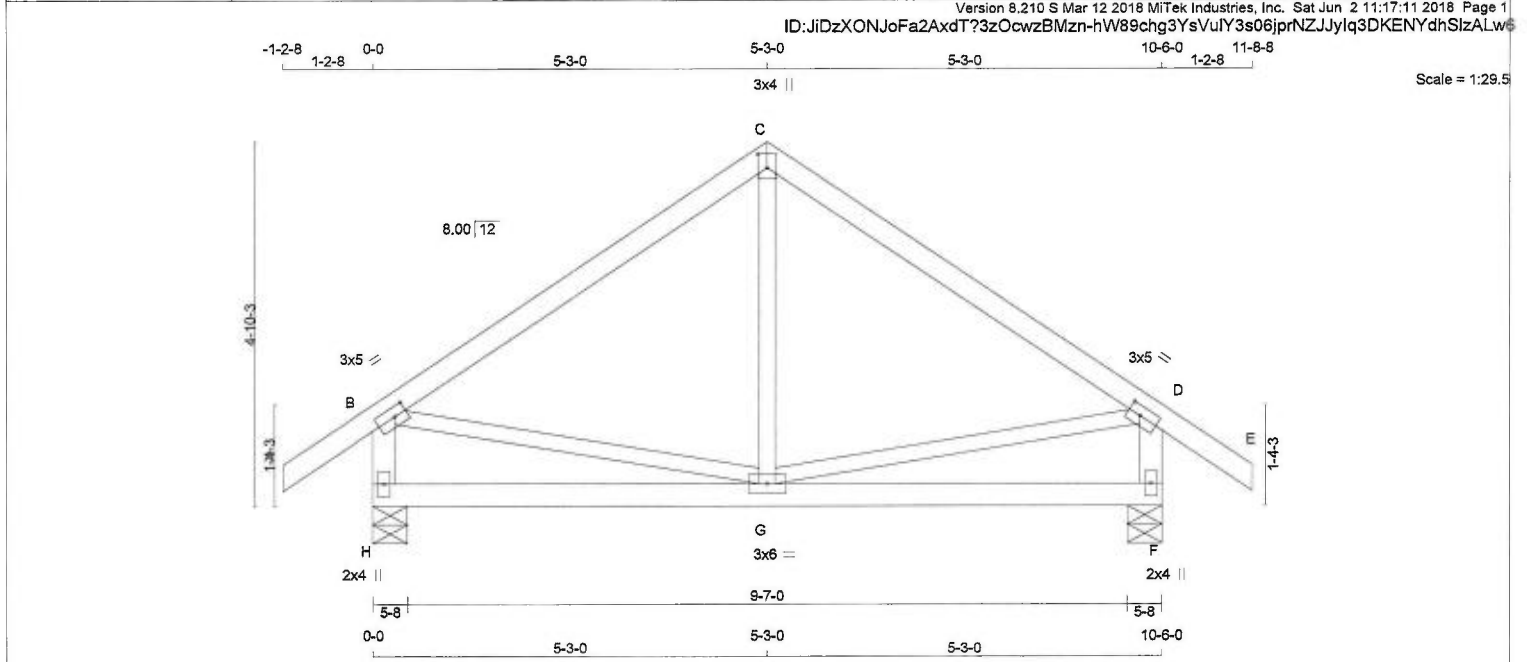
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (C) (INPUT = 0.90)
JSI METAL= 0.24 (C) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Sat Jun 2 11:17:11 2018 Page 1 ID:JiDzXONJoFa2AxdT?3zOcwzBMzn-hW89chg3YsVuIY3s06jprNZJJylq3DKENYdhSizALw6

LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER				DESIGN CRITERIA			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.	BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQRD	SPECIFIED LOADS:	
A - C	2x4	DRY	No.2	SPF	GROSS REACTION	VERT	HORZ	DOWN	BRG	TOP CH.	LL = 23.3 PSF
C - E	2x4	DRY	No.2	SPF	JT	602	0	0	5-8	DL = 3.0 PSF	
H - B	2x4	DRY	No.2	SPF	H	602	0	0	5-8	BOT CH.	LL = 0.0 PSF
F - D	2x4	DRY	No.2	SPF	F	602	0	0	5-8	DL = 7.3 PSF	
H - F	2x4	DRY	No.2	SPF						TOTAL LOAD	= 33.6 PSF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF						SPACING = 24.0 IN. C/C	

UNFACTORED REACTIONS				UNFACTORED REACTIONS				THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010			
1ST LCASE	MAX./MIN.	COMPONENT REACTIONS		1ST LCASE	MAX./MIN.	COMPONENT REACTIONS		THIS DESIGN COMPLIES WITH:			
JT	COMBINED	SNOW	LIVE	JT	COMBINED	SNOW	LIVE	- PART 9 OF OBC 2012, BCBC 2012, ABC 2014			
H	420	305 / 0	0 / 0	H	420	305 / 0	0 / 0	- CSA 086-09			
F	420	305 / 0	0 / 0	F	420	305 / 0	0 / 0	- TPIC 2011			

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) H, F

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING				LOADING				TOTAL LOAD CASES: (4)			
CHORDS	MAX. FACTORED	FACTORED	MEMB.	CHORDS	MAX. FACTORED	FACTORED	MEMB.	TOTAL LOAD CASES: (4)			
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	CS1 (LC)	MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	CS1 (LC)				
FR-TO		FROM TO		FR-TO		FROM TO					
A-B	0 / 28	-77.4	-77.4 0.09 (1)	A-B	0 / 28	-77.4	-77.4 0.09 (1)				
B-C	-365 / 0	-77.4	-77.4 0.27 (1)	B-C	-365 / 0	-77.4	-77.4 0.27 (1)				
C-D	-365 / 0	-77.4	-77.4 0.27 (1)	C-D	-365 / 0	-77.4	-77.4 0.27 (1)				
D-E	0 / 28	-77.4	-77.4 0.09 (1)	D-E	0 / 28	-77.4	-77.4 0.09 (1)				
H-B	-565 / 0	0.0	0.0 0.06 (1)	H-B	-565 / 0	0.0	0.0 0.06 (1)				
F-D	-565 / 0	0.0	0.0 0.06 (1)	F-D	-565 / 0	0.0	0.0 0.06 (1)				
H-G	0 / 0	-18.2	-18.2 0.14 (4)	H-G	0 / 0	-18.2	-18.2 0.14 (4)				
G-F	0 / 0	-18.2	-18.2 0.14 (4)	G-F	0 / 0	-18.2	-18.2 0.14 (4)				

ALLOWABLE DEFL.(LL)= L/360 (0.35")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.35")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.02")

CSI: TC=0.27/1.00 (B-C:1) , BC=0.14/1.00 (F-G:4) ,
WB=0.07/1.00 (D-G:1) , SSI=0.13/1.00 (B-C:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

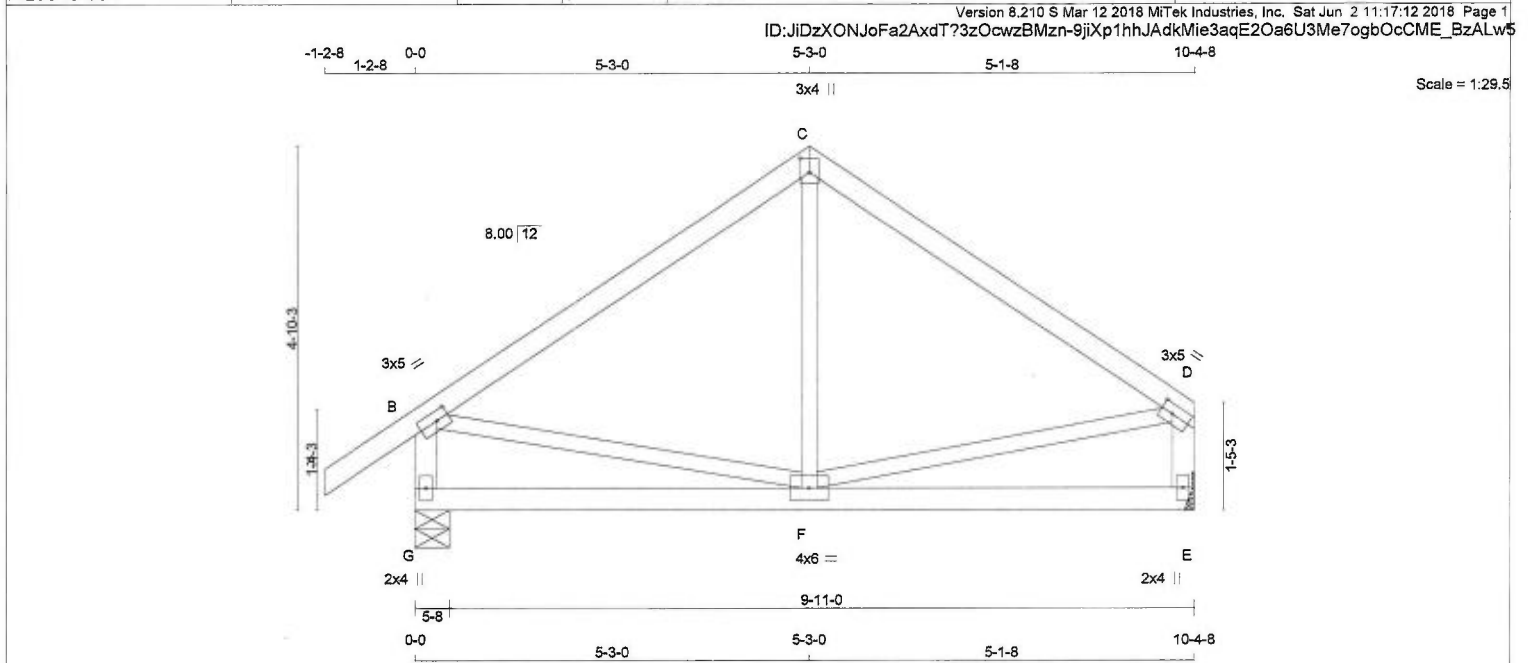
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.68 (G) (INPUT = 0.90)
JSI METAL= 0.16 (B) (INPUT = 1.00)

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2	
C - D	2x4	DRY	No.2	
G - B	2x4	DRY	No.2	
E - D	2x4	DRY	No.2	
G - E	2x4	DRY	No.2	

ALL WEBS 2x3 DRY No.2 EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)	JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	3.0	5.0	1.50	2.00	
C	TTW+p	MT20	3.0	4.0	2.25	1.50	
D	TMVW-t	MT20	3.0	5.0	1.50	2.00	
E	BMV1+p	MT20	2.0	4.0			
F	BMVWW-t	MT20	4.0	6.0			
G	BMV1+p	MT20	2.0	4.0			

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

DESCR.	FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	GROSS REACTION	GROSS REACTION	BRG	BRG
	VERT	HORZ	DOWN	HORZ
	UP	DOWN	UP	DOWN
G	596	0	596	0
E	496	0	496	0

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT E TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
G	416	302 / 0	0 / 0	0 / 0	115 / 0	0 / 0
E	348	242 / 0	0 / 0	0 / 0	107 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) G

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	CS1	LC	UNBRAC	MEMB.	WEBS	MAX. FACTORED
		FORCE							LENGTH			FORCE
		(LBS)										MAX
												CS1
												(LC)
FR-TO			FROM	TO						FR-TO		
A-B	0 / 28		-77.4	-77.4	0.09	(1)	10.00	F-C	-6 / 90	0.03	(4)	
B-C	-356 / 0		-77.4	-77.4	0.27	(1)	6.25	B-F	0 / 302	0.07	(1)	
C-D	-356 / 0		-77.4	-77.4	0.26	(1)	6.25	F-D	0 / 303	0.07	(1)	
G-B	-559 / 0		0.0	0.0	0.06	(1)	7.81					
E-D	-460 / 0		0.0	0.0	0.05	(1)	7.81					
G-F	0 / 0		-18.2	-18.2	0.14	(4)	10.00					
F-E	0 / 0		-18.2	-18.2	0.14	(4)	10.00					

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.3	PSF
TOTAL LOAD		=	33.6	PSF

SPACING = 24.0 IN./C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.I. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.35")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.35")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.27/1.00 (B-C:1), BC=0.14/1.00 (E-F:4), WB=0.07/1.00 (D-F:1), SSI=0.13/1.00 (B-C:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

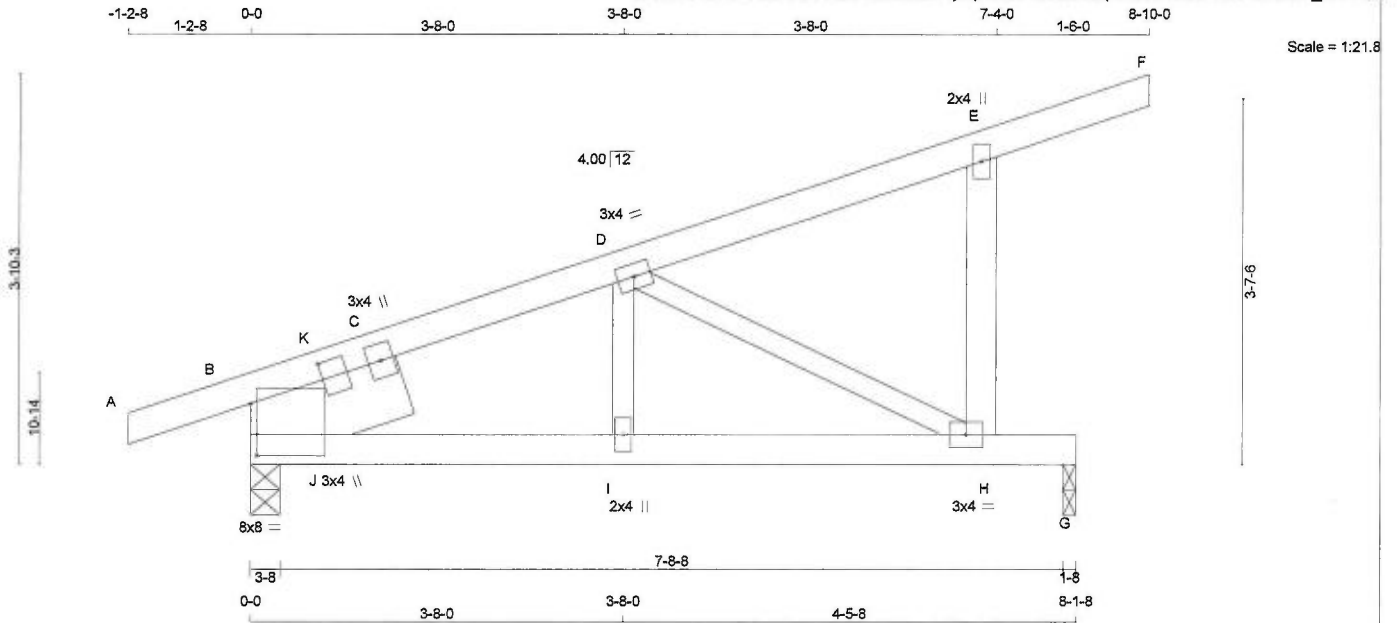
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.51 (B) (INPUT = 0.90)
JSI METAL= 0.16 (B) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 9 X 33 = 293 lb

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - F	2x4	DRY	No.2
H - E	2x4	DRY	No.2
B - G	2x4	DRY	No.2

REINFORCING MEMBERS
HW1 2x8 DRY No.2

ALL WEBS 2x3 DRY No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMBMR1-I	MT20	8.0	8.0	6.25	0.75
B	RT-t	MT20	3.0	4.0	2.00	9.00
B	RT-t	MT20	3.0	4.0		
D	TMVW-t	MT20	3.0	4.0		
E	TMV+p	MT20	2.0	4.0		
H	BMVW-t	MT20	3.0	4.0		
I	BMV+w	MT20	2.0	4.0		

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
B	494	0	494	0	3-8	3-8
G	438	0	438	0	1-8	1-8

UNFACTORED REACTIONS

JT	MAX./MIN. COMPONENT REACTIONS						
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	345	253 / 0	0 / 0	0 / 0	0 / 0	92 / 0	0 / 0
G	307	219 / 0	0 / 0	0 / 0	0 / 0	88 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, G

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)
FR-TO				FR-TO			
A-B	-7 / 0	-77.4	0.06 (1)	10.00	I-D	0 / 199	0.04 (1)
B-K	-516 / 0	-77.4	0.01 (1)	6.25	D-H	-581 / 0	0.15 (1)
K-C	-413 / 0	-77.4	0.12 (1)	6.25	J-K	0 / 418	0.00 (1)
C-D	-413 / 0	-77.4	0.12 (1)	6.25	J-C	-420 / 0	0.02 (1)
D-E	-4 / 0	-77.4	0.13 (1)	10.00			
E-F	-19 / 0	-77.4	0.10 (1)	6.25			
H-E	-248 / 0	0.0	0.04 (1)	7.81			
B-J	0 / 337	-18.2	0.08 (1)	10.00			
J-I	0 / 520	-18.2	0.20 (1)	10.00			
I-H	0 / 520	-18.2	0.55 (1)	10.00			
H-G	0 / 0	-18.2	0.46 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.3 PSF
TOTAL LOAD = 33.6 PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.27")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.07")
ALLOWABLE DEFL.(TL) = $L/360$ (0.27")
CALCULATED VERT. DEFL.(TL) = $L/795$ (0.12")

CSI: TC=0.13/1.00 (D-E:1), BC=0.55/1.00 (H-I:1), WB=0.15/1.00 (D-H:1), SS=0.34/1.00 (G-H:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.79 (H) (INPUT = 0.90)
JSI METAL= 0.19 (H) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



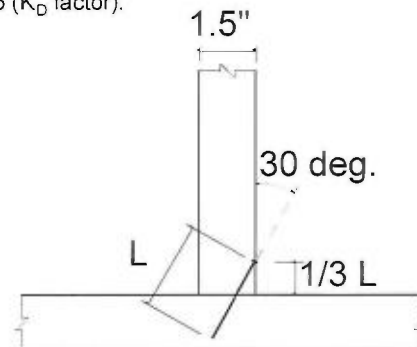
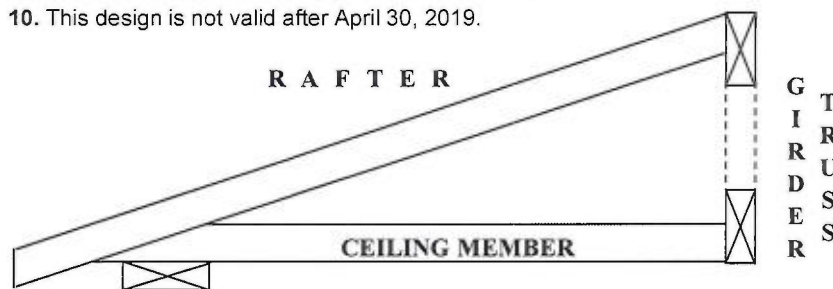
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

B37579H1

NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL LATERAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	132	147
	3.25	0.144	132	147
	3.50	0.160	159	177

NOTES:

1. Rafter and ceiling members may be anchored to top and bottom chords of girder truss by toe-nailing rafter and ceiling members to girder chords provided the reaction does not exceed the lateral capacities in the table. Hangers (specified by others) are required for reactions higher than the maximum toe-nail capacity. Reactions are based on factored loads.
2. Toe nail capacities shown in the table are for **one** toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-09, section 10.9.4.1.
3. For 9- 3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in tables below.
5. Nail values in table are based on the following relative lumber densities: G = 0.42 (SPF), G = 0.49 (D. Fir).
6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See next page for nailing on bearing plate).
7. For loads due to wind the nail lateral capacity in this table may be multiplied by 1.15 (K_D factor).
8. Lumber must be dry (< 19% moisture content) at the time of nail installation.
9. Nail values in this table comply with CSA O86-09, section 10.9.4
10. This design is not valid after April 30, 2019.



TOE-NAIL INSTALLATION

Nail type	Common wire	Common spiral	Common wire
Nail dia. (in)	0.160	0.152	0.144
	(3.5" nail)		(3" and 3.25" nail)
LUMBER SIZE	MAXIMUM NUMBER OF TOE-NAILS		
2X4 SPF	2	2	3
2X4 D. Fir	2	2	2
2X6 SPF	4	4	4
2X6 D. Fir	3	3	3



MiTek Canada Inc
100 Industrial Rd.
Bradford, Ontario L3Z 3G7

PEO
Certificate No. 10889485



April 26, 2017

BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

B37579H2

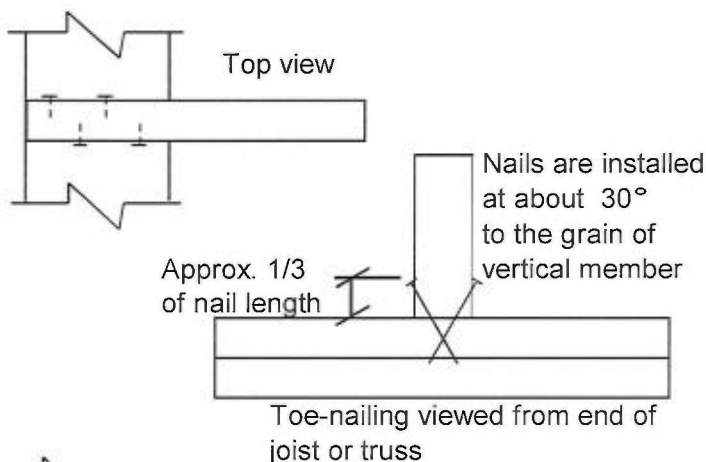
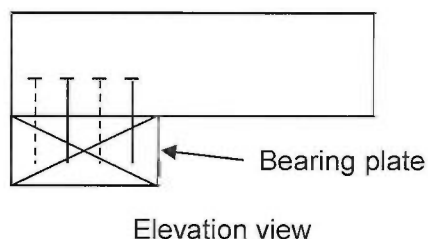
NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL WITHDRAWAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	30	42
	3.25	0.144	32	45
	3.50	0.160	38	52

Note: If using truss with D. Fir lumber and S-P-F bearing plate, use values in table for S-P-F.

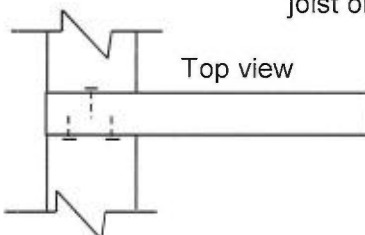
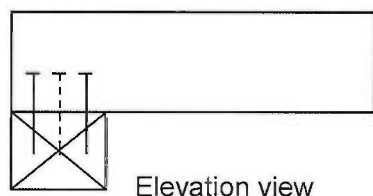
NOTES:

1. Truss chord, rafter, or ceiling members may be anchored to bearing plate by toe-nails, provided that the actual factored uplift force due to **wind or earthquake** load does not exceed the withdrawal capacities in the table. Hangers (specified by others) are required for uplift forces that are higher than the maximum toe-nail withdrawal capacity.
2. Toe nail capacities shown in the table are for **one** toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-09, section 10.9.5.2.
3. For 9- 3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in table above.
5. Nail values in table are based on the following relative lumber densities: $G = 0.42$ (SPF), $G = 0.49$ (D. Fir).
6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See drawing on detail B37579H1).
7. Lumber must be dry (< 19% moisture content) at the time of nail installation.
8. Nail values in this table comply with CSA O86-09, section 10.9.5
9. This design is not valid after April 30, 2019

Toe-nailing on 2x6 Bearing Plate



Toe-nailing on 2x4 Bearing Plate



MiTek Canada Inc
100 Industrial Rd
Bradford, Ontario L3Z 3G7

PEO
Certificate No. 10889485



April 26, 2017