

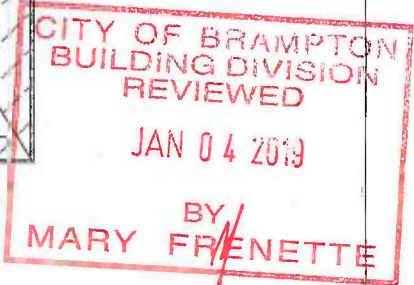
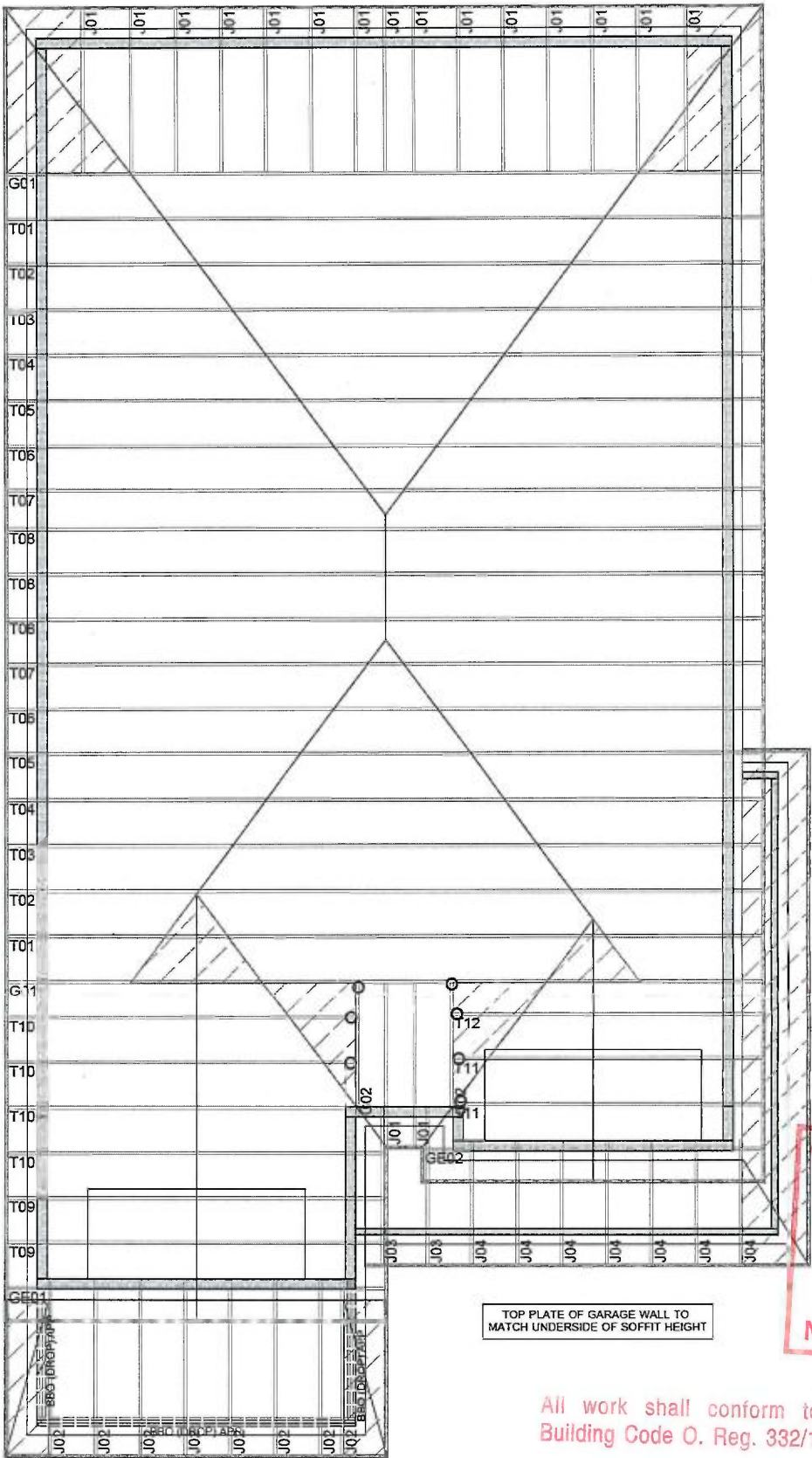


THIS CERTIFICATION IS FOR THE ENGINEERING REVIEW OF STRUCTURAL COMPONENTS SHOWN ON THIS DRAWING AND IS LIMITED TO THE COMPONENTS SUPPLIED BY KOTT LUMBER FOR THE LOADS AND CONDITIONS SHOWN ON THE CALCULATION PAGE OF EACH COMPONENT. THE PLACEMENT OF THESE COMPONENTS ON THIS LAYOUT IS SHOWN FOR REFERENCE 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.

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.



Layout based on plans provided by
REGION DESIGN INC.
Dated MAY 2018



All work shall conform to the Ontario Building Code O. Reg. 332/12 as amended

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

18-411393-000-00 PR.

ROOF TRUSS LAYOUT

LOT 15

CONVENTIONAL FRAMING BY OTHERS

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:	MILLWOOD 5 EL2
Customer:	GREENPARK
Project:	MINNISALE
Location:	BRAMPTON
Drawn By:	DM
Date:	6/27/2018

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'

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

NE0818-075

GREENPARK - MINNISALE

HOMES - MILLWOOD 5 ELE 2

- LOT 15

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

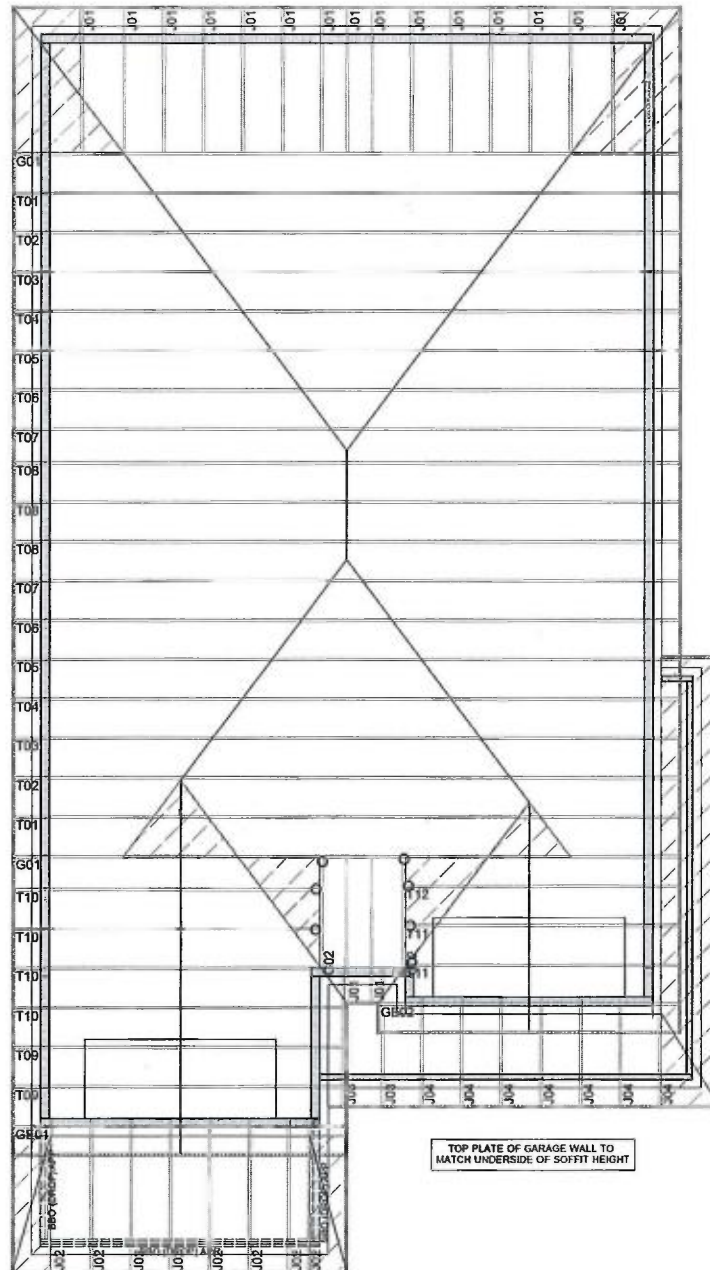
- Geometry of the truss and dimensions indicated on the drawing are identical to those of the installed truss.

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 BCSC GUIDELINES.

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.



Layout based on plans provided by
REGION DESIGN INC.
Dated MAY 2018



ROOF TRUSS LAYOUT



**CONVENTIONAL
FRAMING** BY OTHERS

HANGER LEGEND

X - LUS24 **O - LJS26DS**
- HGUS26 **% - 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 CBC 2012,
BCBC 2012, ABC 2012, CSA 686-09, TPIC 2011

ALLOWABLE DEFLECTION OF EACH COMPONENT = L/360

**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'

Model:	MILLWOOD 5 EL2
Customer:	GREENPARK
Project:	MINNISALE
Location:	BRAMPTON
Drawn By:	DM
Date:	6/27/2018



BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 20, 12

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.76 FT.

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A

20-19	0 / 0	-17.5	-17.5	0.03 (4)	10.00	DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00 COMP=1.00 SHEAR=1.00 TENS= 1.00
19-18	0 / 2712	-17.5	-17.5	0.18 (1)	10.00	
18-17	0 / 5214	-17.5	-17.5	0.34 (1)	10.00	

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

[illegible]

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0818-075	G01	2	1	GREENPARK - MINNISALE HOMES MILLWOOD 5 ELE 2	PAGE 4 OF 26
				TRUSS DESC.	

Version 8.210 S Mar 12 2018 MITek Industries, Inc. Tue Aug 14 14:30:24 2018 Page 2
ID:lbxBcPTYUOyd9wXNUTvYurz28ye-MTNMBPNnaeKdfQVjVbdia5mAqALZ4K0cFg2BDYynw8z

HANGERS NOTES

- 1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 1117.1 lbs FACTORED DOWN AT 14-2-12, AND 1117.1 lbs FACTORED DOWN AT 18-5-4 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

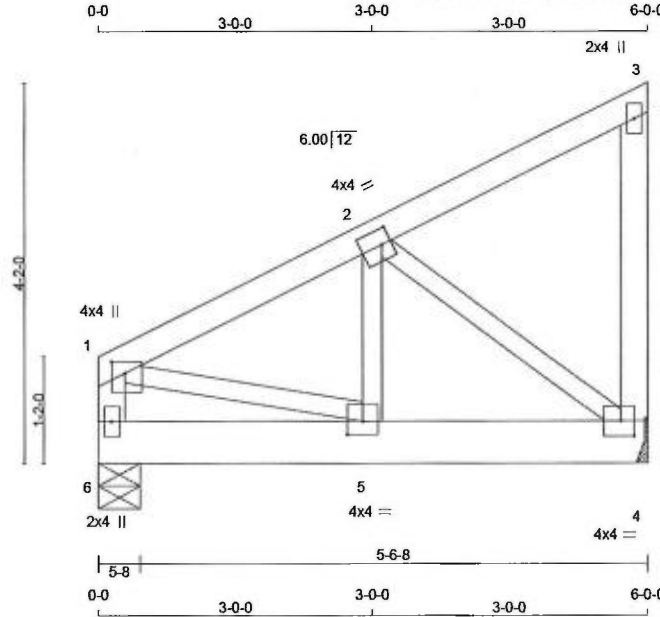
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (15) (INPUT = 0.90)
JSI METAL= 0.94 (16) (INPUT = 1.00)

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





TOTAL WEIGHT = 2 X 29 = 59 lb

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
4 - 3	2x4	DRY	No.2	SPF
6 - 1	2x4	DRY	No.2	SPF
6 - 4	2x6	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
1	TMVW+p	MT20	4.0	4.0	1.50	1.75
2	TMVW-l	MT20	4.0	4.0	2.00	1.25
3	TMVW+p	MT20	2.0	4.0		
4	BMVW1-l	MT20	4.0	4.0	2.00	1.75
5	BMVW-l	MT20	4.0	4.0	1.75	2.00
6	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		
4	1118	0	1118	0	5-8	5-8
6	1118	0	1118	0	5-8	5-8

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 4 TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
4	784	549 / 0	0 / 0	0 / 0	0 / 0	236 / 0	0 / 0
6	784	549 / 0	0 / 0	0 / 0	0 / 0	236 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.21 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. LC1 (LC)	MAX. UNBRACED LENGTH	MEMB. MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)
FR-TO		FROM TO			FR-TO	
1-2	-951 / 0	-77.4 -77.4	0.11 (1)	6.21	5-2	0 / 804
2-3	-10 / 0	-77.4 -77.4	0.10 (1)	10.00	2-4	-1078 / 0
4-3	-94 / 0	0.0 0.0	0.02 (1)	7.81	1-5	0 / 888
6-1	-745 / 0	0.0 0.0	0.08 (1)	7.81		
6-5	0 / 0	-295.2 -295.2	0.17 (1)	10.00		
5-4	0 / 859	-295.2 -295.2	0.28 (1)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 33.3 PSF

SPACING = 24.0 IN. C/C

GIRDER TYPE: CSldGirder
START DISTANCE = 0-0
START SPAN CARRIED = 14-2-0
END DISTANCE = 6-0-0
END SPAN CARRIED = 14-2-0
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

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 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 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.11/1.00 (1-2:1), BC=0.28/1.00 (4-5:1), WB=0.26/1.00 (2-4:1), SSI=0.34/1.00 (5-6:1)

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) (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.

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.
NE0818-075	G02	2	1	GREENPARK - MINNISALE HOMES MILLWOOD 5 ELE 2	PAGE 6 OF 26
TRUSS DESC.					

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Tue Aug 14 14:30:25 2018 Page 2
ID:lbxBcPTYUOyd9wXNUTvYurz28ye-qfxlPIOPLySUGa4v3l8X7lJTrZncpwgITKoll_ynw8y

JSI GRIP= 0.88 (2) (INPUT = 0.90)
JSI METAL= 0.32 (5) (INPUT = 1.00)

READ ALL NOTES ON THIS PAGE AND ON
ENGINEERING NOTE PAGE ENP-1. THIS
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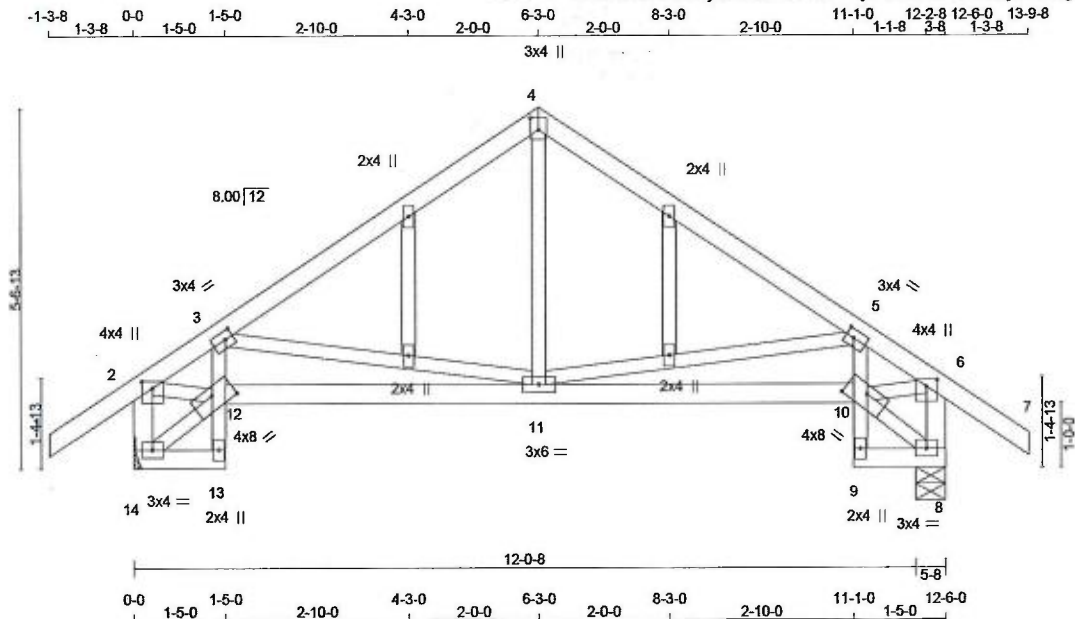


Scale = 1:36 6



JSI GRIP= 0.84 (6) (INPUT = 0.90)
JSI METAL= 0.29 (2) (INPUT = 1.00)





TOTAL WEIGHT = 58 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 7	2x4	DRY	No.2	SPF
14 - 2	2x4	DRY	No.2	SPF
8 - 6	2x4	DRY	No.2	SPF
14 - 13	2x4	DRY	No.2	SPF
13 - 3	2x3	DRY	No.2	SPF
12 - 10	2x4	DRY	No.2	SPF
9 - 5	2x3	DRY	No.2	SPF
9 - 8	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
ALL GABLE WEBS	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				
GABLE STUDS SPACED AT 2'-0" OC.				

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW+p	MT20	4.0	4.0	1.25	2.00
3	TMVW-t	MT20	3.0	4.0	1.50	1.50
4	TTW+p	MT20	3.0	4.0	2.25	1.50
5	TMVW-t	MT20	3.0	4.0	1.50	1.50
6	TMVW+p	MT20	4.0	4.0	1.25	2.00
8	BMVW-t	MT20	3.0	4.0		
9	BMV+p	MT20	2.0	4.0		
10	BMVWV+w	MT20	4.0	8.0	4.00	2.50
11	BMVWV-t	MT20	3.0	6.0		
12	BMVWV+w	MT20	4.0	8.0	4.00	2.50
13	BMV+p	MT20	2.0	4.0		
14	BMVWV-t	MT20	3.0	4.0		
15	NP+w	MT20	2.0	4.0		

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	DOWN	BRG	IN-SX	BRG	IN-SX
14	699	0	699	0	0	MECHANICAL			
8	699	0	699	0	0	5-8	5-8		

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 14 TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
14	488	355 / 0	0 / 0	0 / 0	0 / 0	133 / 0	0 / 0
8	488	355 / 0	0 / 0	0 / 0	0 / 0	133 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 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 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED UNBRAC LENGTH	MAX. FACTORED LC1 MAX (LC)
FR-TO		FROM TO		FR-TO			
1-2	0 / 29	-77.4	-77.4 0.10 (1)	10.00	11-4	0 / 256	0.06 (1)
2-3	-866 / 0	-77.4	-77.4 0.17 (1)	6.25	11-5	-338 / 0	0.15 (1)
3-4	-535 / 0	-77.4	-77.4 0.23 (1)	6.25	3-11	-338 / 0	0.15 (1)
4-5	-535 / 0	-77.4	-77.4 0.23 (1)	6.25	14-12	-18 / 0	0.00 (1)
5-6	-866 / 0	-77.4	-77.4 0.17 (1)	6.25	2-12	0 / 754	0.17 (1)
6-7	0 / 29	-77.4	-77.4 0.10 (1)	10.00	10-8	-18 / 0	0.00 (1)
14-2	-677 / 0	0.0	0.0 0.07 (1)	7.81	10-6	0 / 754	0.17 (1)
8-6	-677 / 0	0.0	0.0 0.07 (1)	7.81			
14-13	0 / 14	-17.5	-17.5 0.01 (4)	10.00			
13-12	0 / 13	0.0	0.0 0.04 (1)	10.00			
12-3	-60 / 21	0.0	0.0 0.03 (1)	7.81			
12-11	0 / 763	-17.5	-17.5 0.19 (1)	10.00			
11-10	0 / 763	-17.5	-17.5 0.19 (1)	10.00			
9-10	0 / 13	0.0	0.0 0.04 (1)	10.00			
10-5	-60 / 21	0.0	0.0 0.03 (1)	7.81			
9-8	0 / 14	-17.5	-17.5 0.01 (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 = 33.3	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 (0.42")
CALCULATED VERT. DEFL.(LL)= L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.42")
CALCULATED VERT. DEFL.(TL)= L/999 (0.03")

CSI: TC=0.23/1.00 (3-4:1), BC=0.19/1.00 (11-12:1), WB=0.17/1.00 (2-12:1), SSI=0.14/1.00 (3-4:1)

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 HEELS OFF

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

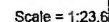
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (6) (INPUT = 0.90)
JSI METAL= 0.22 (6) (INPUT = 1.00)



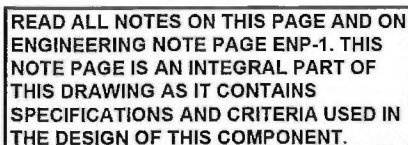
READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

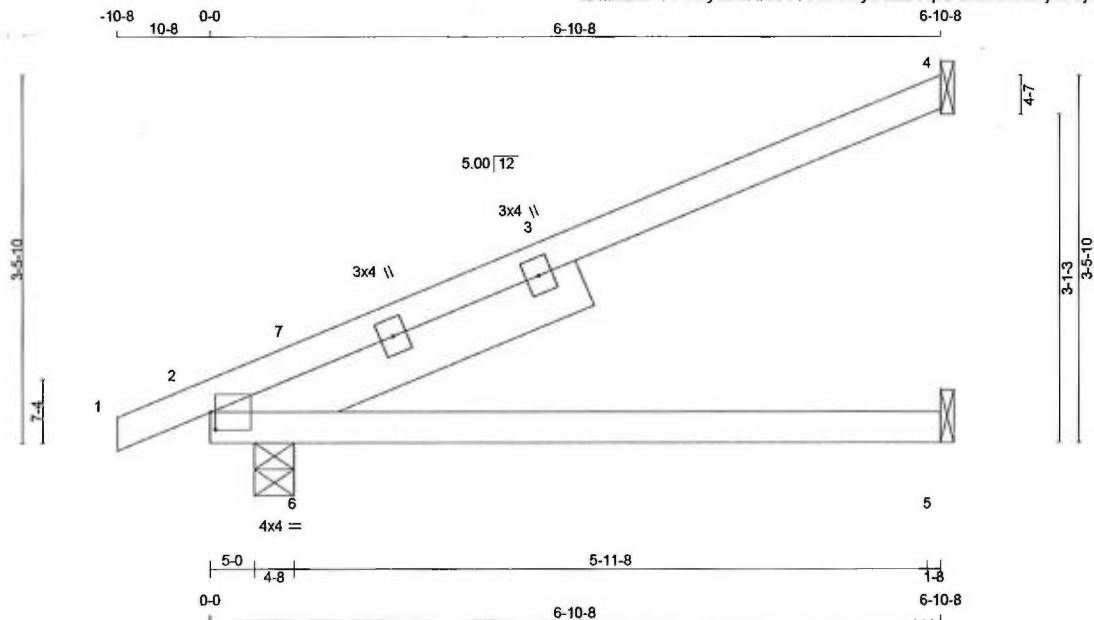




TOTAL WEIGHT = $17 \times 17 = 291 \text{ lb}$

JSI GRIP= 0.23 (2) (INPUT = 0.90)
JSI METAL= 0.09 (2) (INPUT = 1.00)





Scale = 1:20.8

TOTAL WEIGHT = $8 \times 24 = 194 \text{ lb}$
[M][F]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
2 - 5	2x4	DRY	No.2	SPF
REINFORCING MEMBERS				
HW1	2x6	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMBR1-I	MT20	4.0	4.0	2.00	0.50
2	RT-I	MT20	3.0	4.0		
2	RT-I	MT20	3.0	4.0		

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT	REQRD
JT	GROSS REACTION		GROSS REACTION		BRG	BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	
4	241	0	241	0	0	1-8	1-8
5	85	0	85	0	0	1-8	1-8
2	398	0	398	0	0	4-8	4-8

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) 4, 5

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
4	166	137/0	0/0	0/0	0/0	29/0	0/0
5	63	23/0	0/0	0/0	0/0	40/0	0/0
2	278	203/0	0/0	0/0	0/0	74/0	0/0

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

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. LC1 CSI (LC)	MAX. UNBRAC LC2 CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO		LENGTH	FR-TO		
1-2	0 / 3	-77.4	-77.4	0.05 (1)	10.00	3-6	0 / 370
2-7	-283 / 0	-77.4	-77.4	0.15 (1)	6.25	6-7	-400 / 0
7-3	-177 / 0	-77.4	-77.4	0.54 (1)	6.25		0.00 (1)
3-4	-177 / 0	-77.4	-77.4	0.54 (1)	6.25		
2-6	0 / 302	-17.5	-17.5	0.31 (1)	10.00		
6-5	0 / 0	-17.5	-17.5	0.28 (1)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:			
TOP	CH.	LL =	23.3 PSF
		DL =	3.0 PSF
BOT	CH.	LL =	0.0 PSF
		DL =	7.0 PSF
TOTAL LOAD		=	33.3 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 (0.23")
CALCULATED VERT. DEFL.(LL) = L/ 753 (0.11")
ALLOWABLE DEFL.(TL)= L/360 (0.23")
CALCULATED VERT. DEFL.(TL) = L/ 409 (0.20")

CSI: TC=0.54/1.00 (4-7:1), BC=0.31/1.00 (2-6:1),
WB=0.04/1.00 (3-6:1), SSI=0.22/1.00 (4-7:1)

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

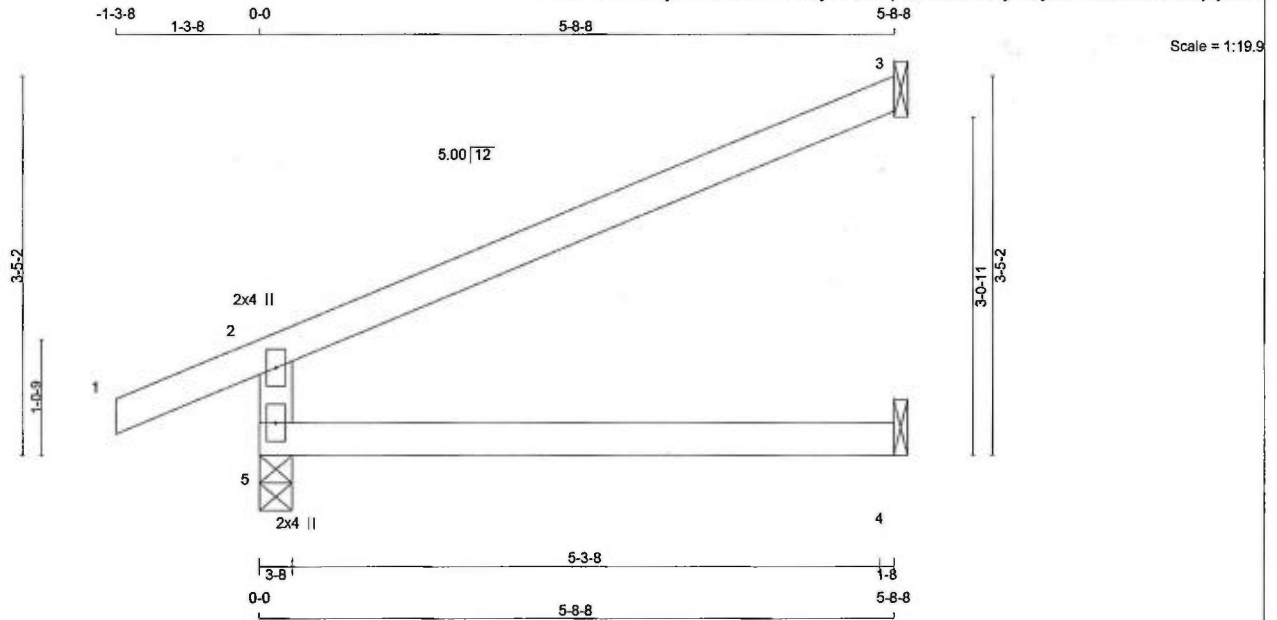
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.36 (2) (INPUT = 0.90)
JSI METAL= 0.04 (2) (INPUT = 1.00)



**READ ALL NOTES ON THIS PAGE AND ON
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THE DESIGN OF THIS COMPONENT.**





TOTAL WEIGHT = 2 X 16 = 32 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
5 - 2	2x4	DRY	No.2	SPF
1 - 3	2x4	DRY	No.2	SPF
5 - 4	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
5	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			
5	439	0	439	0	3-8	3-8	
3	166	0	166	0	1-8	1-8	
4	41	0	46	0	1-8	1-8	

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) 3, 4

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	306	229 / 0	0 / 0	0 / 0	0 / 0	77 / 0	0 / 0
3	113	100 / 0	0 / 0	0 / 0	0 / 0	13 / 0	0 / 0
4	33	0 / 0	0 / 0	0 / 0	0 / 0	33 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 5

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. UNBRACED LENGTH (LC)	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO			FR-TO	
5-2	-380 / 0	0.0	0.0 0.12 (4)	7.81		
1-2	0 / 20	-77.4	-77.4 0.10 (1)	10.00		
2-3	-21 / 0	-77.4	-77.4 0.43 (1)	6.25		
5-4	0 / 0	-17.5	-17.5 0.12 (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	= 33.3	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 (0.03")

CSI: TC=0.43/1.00 (2-3:1), BC=0.12/1.00 (4-5:4), WB=0.00/1.00 (n/a:0), SSI=0.20/1.00 (2-3:1)

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
(FSI)	(PLI)	(PLI)	(PLI)
MAX	MIN	MAX	MIN
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

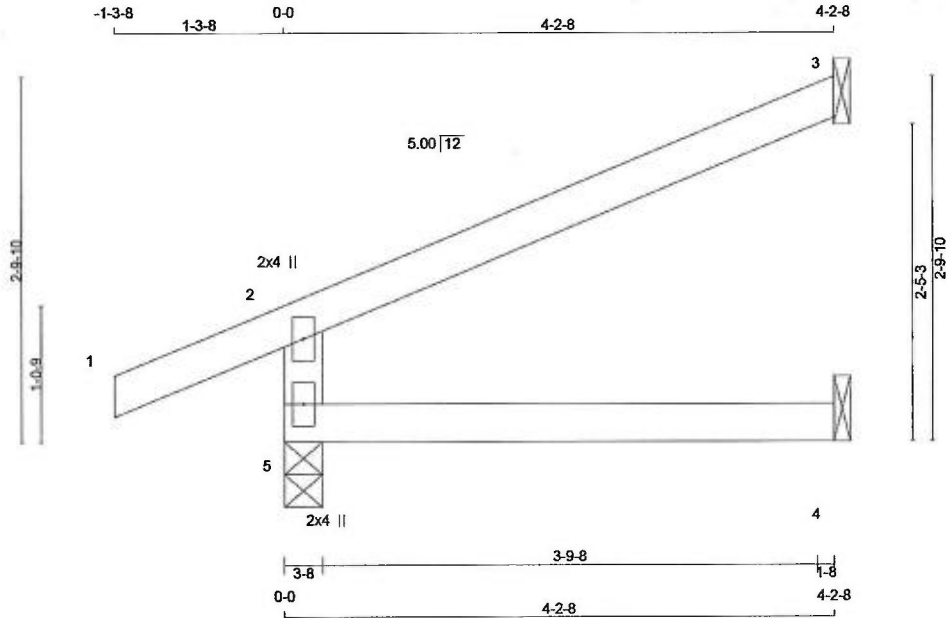
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.21 (2) (INPUT = 0.90)
JSI METAL= 0.08 (2) (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 = 7 X 12 = 87 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
5 - 2	2x4	DRY	No.2	SPF
1 - 3	2x4	DRY	No.2	SPF
5 - 4	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
5	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	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
5	351	0	351	0	3-8	3-8
3	122	0	122	0	1-8	1-8
4	31	0	35	0	1-8	1-8

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) 3, 4

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
5	243	185/0	0/0	0/0	0/0	58/0	0/0
3	83	74/0	0/0	0/0	0/0	9/0	0/0
4	25	0/0	0/0	0/0	0/0	25/0	0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 5

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. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)
FR-TO		FROM TO		FR-TO		
5-2	-308 / 0	0.0	0.0 0.06 (4)	7.81		
1-2	0 / 20	-77.4	-77.4 0.10 (1)	10.00		
2-3	-16 / 0	-77.4	-77.4 0.23 (1)	6.25		
5-4	0 / 0	-17.5	-17.5 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	= 33.3 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=0.23/1.00 (2-3:1), BC=0.06/1.00 (4-5:4), WB=0.00/1.00 (n/a:0), SSI=0.15/1.00 (2-3:1)

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

PLATE PLACEMENT TOL. = 0.250 inches

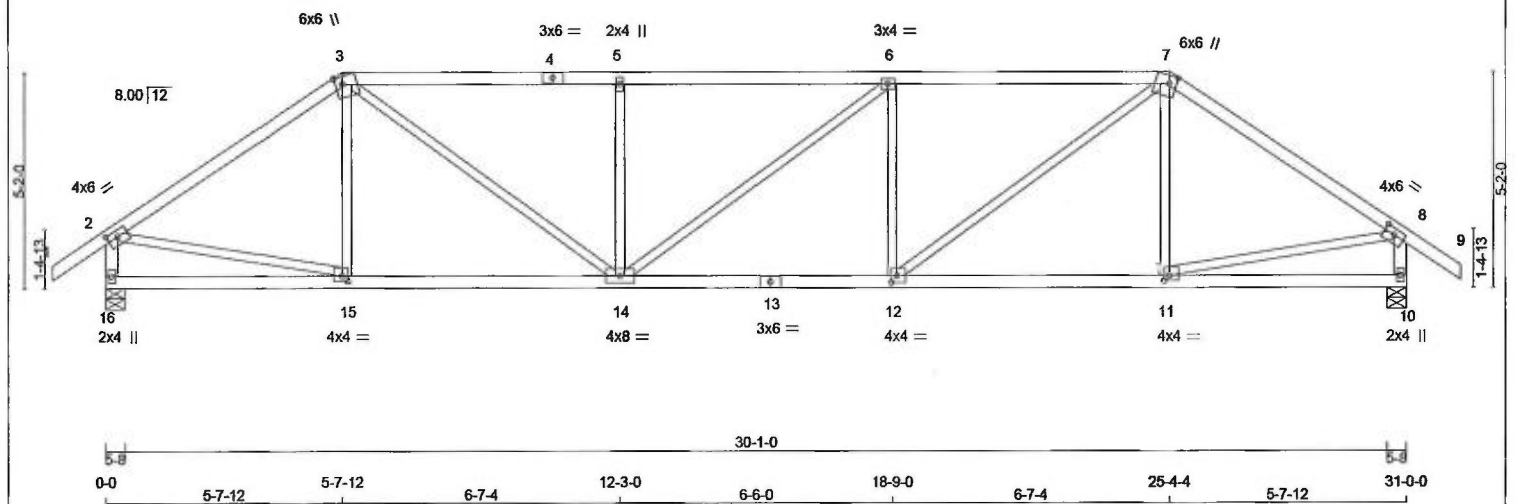
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.17 (2) (INPUT = 0.90)
JSI METAL= 0.06 (2) (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	DRY	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 4	2x4	DRY	No.2	SPF
4 - 7	2x4	DRY	No.2	SPF
7 - 9	2x4	DRY	No.2	SPF
16 - 2	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF
16 - 13	2x4	DRY	No.2	SPF
13 - 10	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
2	TMVW-t	MT20	4.0	6.0	1.75	3.00
3	TTWW+m	MT20	6.0	6.0	2.25	2.00
4	TS-t	MT20	3.0	6.0		
5	TMW+w	MT20	2.0	4.0		
6	TMWW-t	MT20	3.0	4.0		
7	TTWW+m	MT20	6.0	6.0	2.25	2.00
8	TMVW-t	MT20	4.0	6.0	1.75	3.00
10	BMV1+p	MT20	2.0	4.0		
11	BMWW-t	MT20	4.0	4.0	1.50	1.50
12	BMWW-t	MT20	4.0	4.0	2.00	1.50
13	BS-t	MT20	3.0	6.0		
14	BMWW-t	MT20	4.0	8.0		
15	BMWW-t	MT20	4.0	4.0	1.50	1.50
16	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 IN-SX	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
16	1577	0	1577	0	5-8	5-8
10	1577	0	1577	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
16	1104	786 / 0	0 / 0	0 / 0	0 / 0	318 / 0	0 / 0
10	1104	786 / 0	0 / 0	0 / 0	0 / 0	318 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 16, 10

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.86 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)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	FR-TO
1-2	0 / 29	-77.4	-77.4 0.10 (1)	10.00	15-3	-145 / 54	0.06 (1)
2-3	-1702 / 0	-77.4	-77.4 0.55 (1)	4.48	3-14	0 / 1115	0.25 (1)
3-4	-2309 / 0	-77.4	-77.4 0.64 (1)	3.88	14-5	-548 / 0	0.22 (1)
4-5	-2309 / 0	-77.4	-77.4 0.64 (1)	3.88	14-6	-3 / 0	0.00 (1)
5-6	-2309 / 0	-77.4	-77.4 0.65 (1)	3.86	12-6	-550 / 0	0.22 (1)
6-7	-2311 / 0	-77.4	-77.4 0.65 (1)	3.86	12-7	0 / 1117	0.25 (1)
7-8	-1702 / 0	-77.4	-77.4 0.55 (1)	4.48	11-7	-146 / 54	0.06 (1)
8-9	0 / 29	-77.4	-77.4 0.10 (1)	10.00	2-15	0 / 1439	0.32 (1)
16-2	-1537 / 0	0.0	0.0 0.16 (1)	6.64	11-8	0 / 1439	0.32 (1)
10-8	-1537 / 0	0.0	0.0 0.16 (1)	6.64			
16-15	0 / 0	-17.5	-17.5 0.15 (4)	10.00			
15-14	0 / 1411	-17.5	-17.5 0.31 (1)	10.00			
14-13	0 / 2311	-17.5	-17.5 0.44 (1)	10.00			
13-12	0 / 2311	-17.5	-17.5 0.44 (1)	10.00			
12-11	0 / 1411	-17.5	-17.5 0.31 (1)	10.00			
11-10	0 / 0	-17.5	-17.5 0.15 (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 = 33.3 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 (1.03")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.12")
ALLOWABLE DEFL.(TL)= L/360 (1.03")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.23")

CSI: TC=0.65/1.00 (6-7:1), BC=0.44/1.00 (12-14:1), WB=0.32/1.00 (2-15:1), SSI=0.24/1.00 (6-7:1)

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

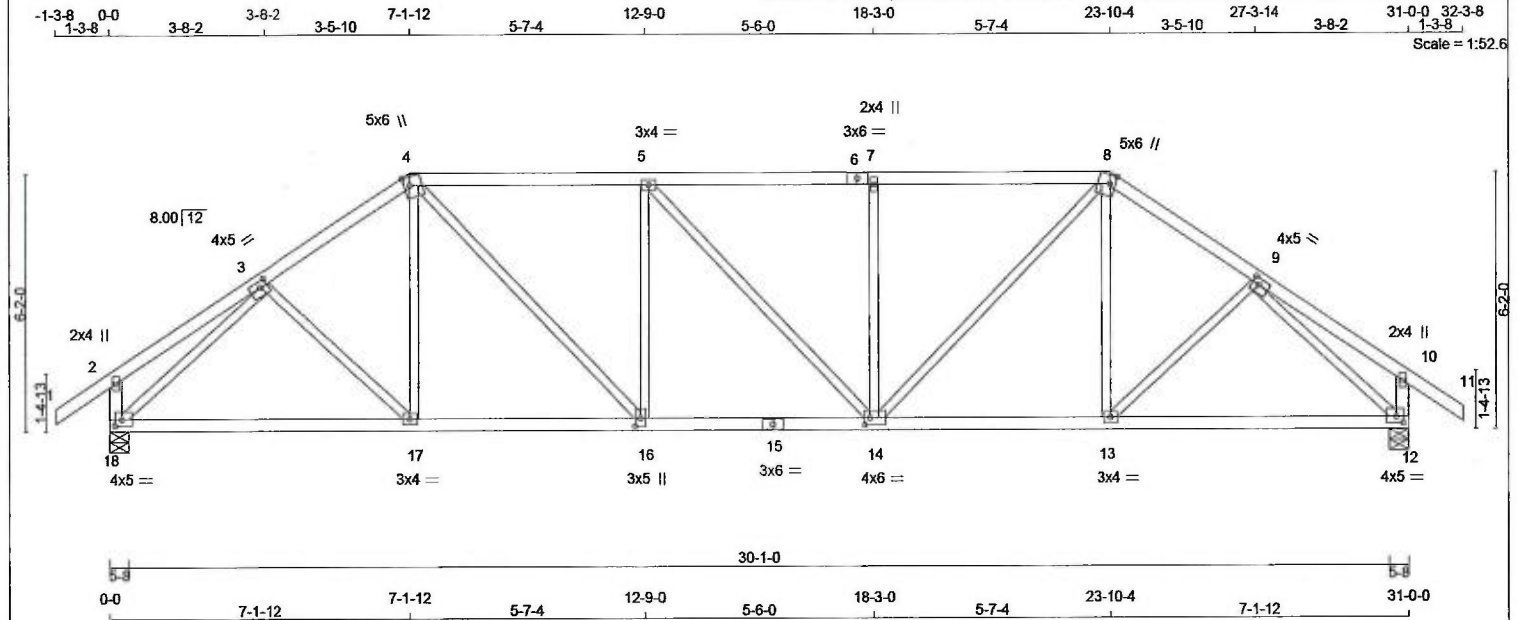
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (7) (INPUT = 0.90)
JSI METAL= 0.67 (13) (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 = 2 X 132 = 265 lb

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF	
4 - 6	2x4	DRY	No.2	SPF	
6 - 8	2x4	DRY	No.2	SPF	
8 - 11	2x4	DRY	No.2	SPF	
18 - 2	2x4	DRY	No.2	SPF	
12 - 10	2x4	DRY	No.2	SPF	
18 - 15	2x4	DRY	No.2	SPF	
15 - 12	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
2	TMV+p	MT20	2.0	4.0		
3	TMWW-l	MT20	4.0	5.0	1.75	2.00
4	TTWW+m	MT20	5.0	6.0	2.50	1.50
5	TMWW-l	MT20	3.0	4.0		
6	TS-l	MT20	3.0	6.0		
7	TMW+w	MT20	2.0	4.0		
8	TTWW+m	MT20	5.0	6.0	2.50	1.50
9	TMWW-l	MT20	4.0	5.0	1.75	2.00
10	TMV+p	MT20	2.0	4.0		
12	BMVW1-l	MT20	4.0	5.0	1.75	2.00
13	BMVW1-l	MT20	3.0	4.0		
14	BMVW1-l	MT20	4.0	6.0	2.00	1.50
15	BS-l	MT20	3.0	6.0		
16	BMVW1-l	MT20	3.0	5.0	2.25	1.50
17	BMVW1-l	MT20	3.0	4.0		
18	BMVW1-l	MT20	4.0	5.0	1.75	2.00

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
18	1577	0	1577	0	0	5-8	5-8
12	1577	0	1577	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		PERM. LIVE	WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE					
18	1104	786 / 0	0 / 0	0 / 0	0 / 0	0 / 0	318 / 0	0 / 0
12	1104	786 / 0	0 / 0	0 / 0	0 / 0	0 / 0	318 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 18, 12

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.43 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 MAX. (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 MAX. (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 29	-77.4	-77.4 0.10 (1)	10.00	3-17	0 / 67	0.02 (4)
2-3	0 / 16	-77.4	-77.4 0.14 (1)	10.00	17-4	0 / 103	0.04 (4)
3-4	-1693 / 0	-77.4	-77.4 0.18 (1)	4.94	4-16	0 / 765	0.17 (1)
4-5	-1923 / 0	-77.4	-77.4 0.41 (1)	4.43	16-5	-465 / 0	0.28 (1)
5-6	-1922 / 0	-77.4	-77.4 0.41 (1)	4.43	5-14	-2 / 0	0.00 (1)
6-7	-1922 / 0	-77.4	-77.4 0.41 (1)	4.43	14-7	-464 / 0	0.28 (1)
7-8	-1922 / 0	-77.4	-77.4 0.41 (1)	4.44	14-8	0 / 763	0.17 (1)
8-9	-1693 / 0	-77.4	-77.4 0.18 (1)	4.94	13-8	0 / 103	0.04 (4)
9-10	0 / 16	-77.4	-77.4 0.14 (1)	10.00	13-9	0 / 67	0.02 (4)
10-11	0 / 29	-77.4	-77.4 0.10 (1)	10.00	18-3	-1879 / 0	0.74 (1)
18-2	-216 / 0	0.0	0.0 0.02 (1)	7.81	9-12	-1879 / 0	0.74 (1)
12-10	-216 / 0	0.0	0.0 0.02 (1)	7.81			
18-17	0 / 1348	-17.5	-17.5 0.32 (1)	10.00			
17-16	0 / 1394	-17.5	-17.5 0.33 (1)	10.00			
16-15	0 / 1923	-17.5	-17.5 0.36 (1)	10.00			
15-14	0 / 1923	-17.5	-17.5 0.36 (1)	10.00			
14-13	0 / 1394	-17.5	-17.5 0.33 (1)	10.00			
13-12	0 / 1349	-17.5	-17.5 0.33 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 33.3 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 (1.03")
CALCULATED VERT. DEFL.(LL) = L/999 (0.09")
ALLOWABLE DEFL.(TL) = L/360 (1.03")
CALCULATED VERT. DEFL.(TL) = L/999 (0.17")

CSI: TC=0.41/1.00 (4-5:1), BC=0.36/1.00 (14-16:1), WB=0.74/1.00 (9-12:1), SSI=0.20/1.00 (4-5:1)

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

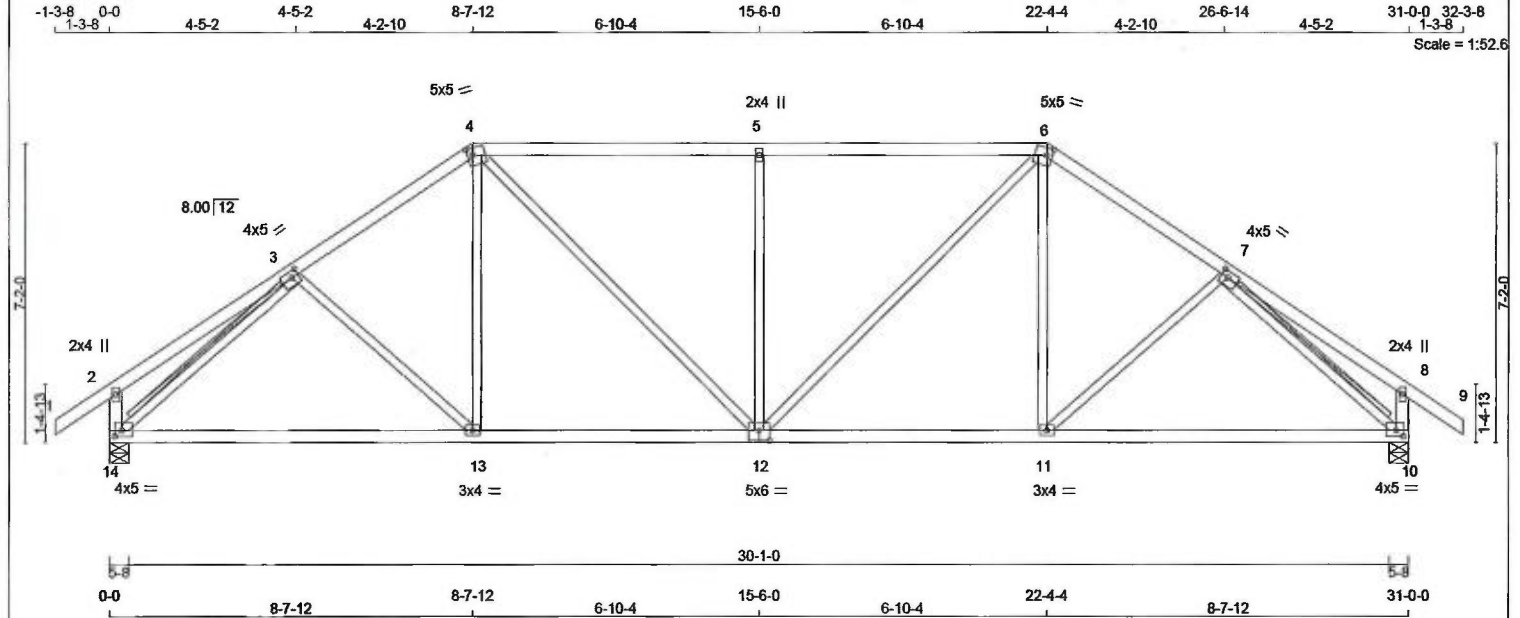
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (9) (INPUT = 0.90)
JSI METAL= 0.56 (15) (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 = 2 X 130 = 260 LB

LUMBER				N. L. G. A. RULES	
CHORDS	SIZE	LUMBER	DESCR.	SPF	SPF
1 - 4	2x4	DRY	No.2	SPF	SPF
4 - 6	2x4	DRY	No.2	SPF	SPF
6 - 9	2x4	DRY	No.2	SPF	SPF
14 - 2	2x4	DRY	No.2	SPF	SPF
10 - 8	2x4	DRY	No.2	SPF	SPF
14 - 12	2x4	DRY	No.2	SPF	SPF
12 - 10	2x4	DRY	No.2	SPF	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMV+p	MT20	2.0	4.0	
3	TMWW-l	MT20	4.0	5.0	1.75 2.00
4	TTWW-m	MT20	5.0	5.0	2.00 1.50
5	TMW+w	MT20	2.0	4.0	
6	TTWW-m	MT20	5.0	5.0	2.00 1.50
7	TMWW-l	MT20	4.0	5.0	1.75 2.00
8	TMV+p	MT20	2.0	4.0	
10	BMVW1-l	MT20	4.0	5.0	1.75 2.00
11	BMVW1-l	MT20	3.0	4.0	
12	BSWWW-l	MT20	5.0	6.0	3.00 3.00
13	BMVW1-l	MT20	3.0	4.0	
14	BMVW1-l	MT20	4.0	5.0	1.75 2.00

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	DOWN	BRG	IN-SX	BRG	IN-SX
14	1577	0	1577	0	0	5-8	5-8		
10	1577	0	1577	0	0	5-8	5-8		

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
14	1104	786 / 0	0 / 0	0 / 0	0 / 0	318 / 0	0 / 0	
10	1104	786 / 0	0 / 0	0 / 0	0 / 0	318 / 0	0 / 0	

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 14, 10

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.46 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 3-14, 7-10

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)	FACTORED HORZ. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED HORZ. LOAD (LC)
FR-TO		FROM TO		FR-TO		FROM TO	
1-2	0 / 29	-77.4	-77.4 0.10 (1)	10-00	3-13	-55 / 44	0.03 (1)
2-3	0 / 21	-77.4	-77.4 0.22 (1)	10-00	13-4	0 / 200	0.05 (4)
3-4	-1648 / 0	-77.4	-77.4 0.21 (1)	4-98	4-12	0 / 524	0.12 (1)
4-5	-1726 / 0	-77.4	-77.4 0.53 (1)	4-46	12-5	-652 / 0	0.58 (1)
5-6	-1726 / 0	-77.4	-77.4 0.53 (1)	4-46	12-6	0 / 524	0.12 (1)
6-7	-1648 / 0	-77.4	-77.4 0.21 (1)	4-98	11-6	0 / 200	0.05 (4)
7-8	0 / 21	-77.4	-77.4 0.22 (1)	10-00	11-7	-55 / 44	0.03 (1)
8-9	0 / 29	-77.4	-77.4 0.10 (1)	10-00	14-3	-1891 / 0	0.50 (1)
14-2	-236 / 0	0.0	0.0 0.02 (1)	7-81	7-10	-1891 / 0	0.50 (1)
10-8	-236 / 0	0.0	0.0 0.02 (1)	7-81			
14-13	0 / 1393	-17.5	-17.5 0.39 (4)	10-00			
13-12	0 / 1355	-17.5	-17.5 0.40 (4)	10-00			
12-11	0 / 1355	-17.5	-17.5 0.40 (4)	10-00			
11-10	0 / 1393	-17.5	-17.5 0.39 (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 = 33.3	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 (1.03")
CALCULATED VERT. DEFL.(LL)= L/999 (0.08")
ALLOWABLE DEFL.(TL)= L/360 (1.03")
CALCULATED VERT. DEFL.(TL)= L/999 (0.20")

CSI: TC=0.53/1.00 (5-6:1), BC=0.40/1.00 (11-12:4), WB=0.58/1.00 (5-12:1), SSI=0.26/1.00 (5-6:1)

DOL LUMBER=1.00 NAIL=1.00 L.S 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)	(PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1667 822	2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

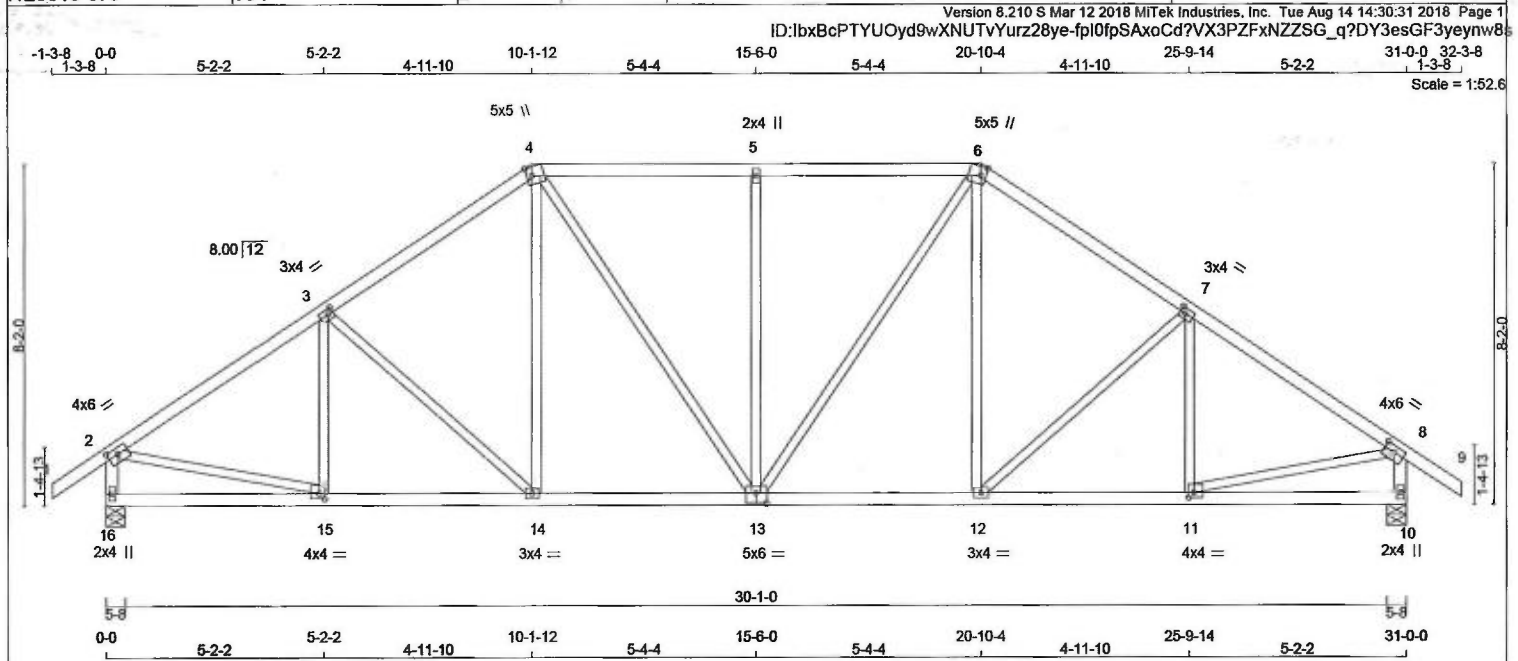
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (6) (INPUT = 0.90)
JSI METAL = 0.56 (3) (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 = 2 X 140 = 281 lb [M/J]

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 9	2x4	DRY	No.2	SPF
16 - 2	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF
16 - 13	2x4	DRY	No.2	SPF
13 - 10	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	6.0	1.75	3.00
3	TMVW-t	MT20	3.0	4.0	1.50	1.50
4	TTWW+m	MT20	5.0	5.0	2.50	1.50
5	TMVW+m	MT20	2.0	4.0		
6	TTWW+m	MT20	5.0	5.0	2.50	1.50
7	TMVW-t	MT20	3.0	4.0	1.50	1.50
8	TMVW-t	MT20	4.0	6.0	1.75	3.00
10	BMV1+p	MT20	2.0	4.0		
11	BMVW-t	MT20	4.0	4.0	1.50	1.50
12	BMVW-t	MT20	3.0	4.0		
13	BSVWW-t	MT20	5.0	6.0	3.00	3.00
14	BMVW-t	MT20	3.0	4.0		
15	BMVW-t	MT20	4.0	4.0	1.50	1.50
16	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	UP/LIFT		
16	1577	0	1577	0	5-8	5-8
10	1577	0	1577	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE MAX./MIN. COMPONENT REACTIONS						
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
16	1104	786 / 0	0 / 0	0 / 0	0 / 0	318 / 0	0 / 0
10	1104	786 / 0	0 / 0	0 / 0	0 / 0	318 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 16, 10

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.79 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)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)
FR-TO					FR-TO		
1-2	0 / 29	-77.4	-77.4 0.10 (1)	10.00	15-3	-210 / 22	0.07 (1)
2-3	-1727 / 0	-77.4	-77.4 0.30 (1)	4.79	3-14	-240 / 0	0.21 (1)
3-4	-1565 / 0	-77.4	-77.4 0.29 (1)	4.99	14-4	0 / 252	0.06 (1)
4-5	-1485 / 0	-77.4	-77.4 0.31 (1)	5.05	4-13	0 / 360	0.08 (1)
5-6	-1485 / 0	-77.4	-77.4 0.31 (1)	5.05	13-5	-505 / 0	0.65 (1)
6-7	-1565 / 0	-77.4	-77.4 0.29 (1)	4.99	13-6	0 / 360	0.08 (1)
7-8	-1727 / 0	-77.4	-77.4 0.30 (1)	4.79	12-6	0 / 252	0.06 (1)
8-9	0 / 29	-77.4	-77.4 0.10 (1)	10.00	12-7	-240 / 0	0.21 (1)
16-2	-1538 / 0	0.0	0.0 0.16 (1)	6.64	11-7	-210 / 22	0.07 (1)
10-8	-1538 / 0	0.0	0.0 0.16 (1)	6.64	2-15	0 / 1489	0.34 (1)
					11-8	0 / 1489	0.34 (1)
16-15	0 / 0	-17.5	-17.5 0.10 (4)	10.00			
15-14	0 / 1458	-17.5	-17.5 0.29 (1)	10.00			
14-13	0 / 1282	-17.5	-17.5 0.26 (1)	10.00			
13-12	0 / 1282	-17.5	-17.5 0.26 (1)	10.00			
12-11	0 / 1458	-17.5	-17.5 0.29 (1)	10.00			
11-10	0 / 0	-17.5	-17.5 0.10 (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 = 33.3 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 (1.03")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL) = L/360 (1.03")
CALCULATED VERT. DEFL.(TL) = L/999 (0.12")

CSI: TC=0.31/1.00 (4-5:1), BC=0.29/1.00 (14-15:1), WB=0.65/1.00 (5-13:1), SSI=0.20/1.00 (4-5:1)

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.

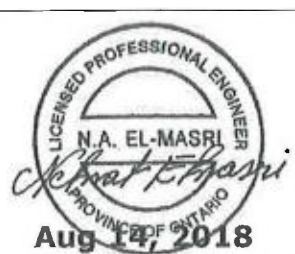
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

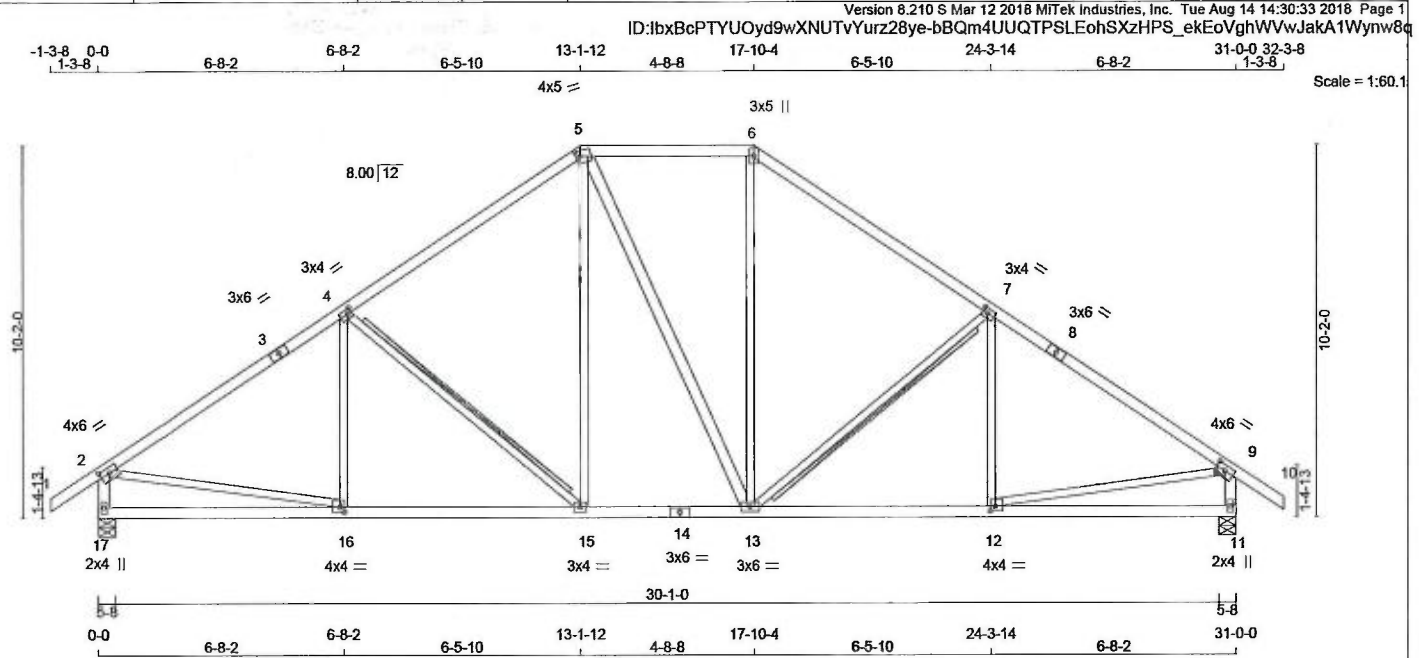
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (11) (INPUT = 0.90)
JSI METAL= 0.55 (15) (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.
1 - 3	2x4	DRY	No.2	SPF	
3 - 5	2x4	DRY	No.2	SPF	
5 - 6	2x4	DRY	No.2	SPF	
6 - 8	2x4	DRY	No.2	SPF	
8 - 10	2x4	DRY	No.2	SPF	
17 - 2	2x4	DRY	No.2	SPF	
11 - 9	2x4	DRY	No.2	SPF	
17 - 14	2x4	DRY	No.2	SPF	
14 - 11	2x4	DRY	No.2	SPF	
ALL WEBS	2x3	DRY	No.2	SPF	
EXCEPT	5 - 13	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	6.0	1.75	3.00
3	TS-t	MT20	3.0	6.0		
4	TMVW-t	MT20	3.0	4.0	1.50	1.50
5	TTWW-m	MT20	4.0	5.0	1.75	1.50
6	TTW+p	MT20	3.0	5.0		
7	TMVW-t	MT20	3.0	4.0	1.50	1.50
8	TS-t	MT20	3.0	6.0		
9	TMVW-t	MT20	4.0	6.0	1.75	3.00
11	BMV1+p	MT20	2.0	4.0		
12	BMVW-t	MT20	4.0	4.0	1.50	1.50
13	BMVW-t	MT20	3.0	6.0		
14	BS-t	MT20	3.0	6.0		
15	BMVW-t	MT20	3.0	4.0		
16	BMVW-t	MT20	4.0	4.0	1.50	1.50
17	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		REQRD	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	DOWN	HORZ	BRG	BRG	IN-SX
17	1577	0	1577	0	0	0	5-8	5-8	
11	1577	0	1577	0	0	0	5-8	5-8	

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
17	1104	786 / 0	0 / 0	0 / 0	0 / 0	318 / 0	0 / 0
11	1104	786 / 0	0 / 0	0 / 0	0 / 0	318 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 17, 11

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 4-15, 7-13

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 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX UNBRAC LENGTH	MAX LC1 (LC)
FR-TO		FROM TO		FR-TO			
1-2	0 / 29	-77.4	-77.4 0.10 (1)	10.00	16-4	-107 / 80	0.06 (1)
2-3	-1743 / 0	-77.4	-77.4 0.54 (1)	4.48	4-15	-457 / 0	0.26 (1)
3-4	-1743 / 0	-77.4	-77.4 0.54 (1)	4.48	15-5	0 / 384	0.09 (1)
4-5	-1393 / 0	-77.4	-77.4 0.49 (1)	4.94	5-13	0 / 2	0.00 (1)
5-6	-1134 / 0	-77.4	-77.4 0.24 (1)	5.69	13-6	0 / 386	0.09 (1)
6-7	-1394 / 0	-77.4	-77.4 0.49 (1)	4.94	13-7	-455 / 0	0.26 (1)
7-8	-1743 / 0	-77.4	-77.4 0.54 (1)	4.48	12-7	-109 / 80	0.06 (1)
8-9	-1743 / 0	-77.4	-77.4 0.54 (1)	4.48	2-16	0 / 1498	0.34 (1)
9-10	0 / 29	-77.4	-77.4 0.10 (1)	10.00	12-9	0 / 1498	0.34 (1)
17-2	-1529 / 0	0.0	0.0 0.16 (1)	6.65			
11-9	-1529 / 0	0.0	0.0 0.16 (1)	6.65			
17-16	0 / 0	-17.5	-17.5 0.19 (4)	10.00			
16-15	0 / 1479	-17.5	-17.5 0.34 (1)	10.00			
15-14	0 / 1133	-17.5	-17.5 0.24 (1)	10.00			
14-13	0 / 1133	-17.5	-17.5 0.24 (1)	10.00			
13-12	0 / 1478	-17.5	-17.5 0.33 (1)	10.00			
12-11	0 / 0	-17.5	-17.5 0.19 (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 = 33.3 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, CBC 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 (1.03")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL) = L/360 (1.03")
CALCULATED VERT. DEFL.(TL) = L/999 (0.13")

CSI: TC=0.54/1.00 (2-4:1), BC=0.34/1.00 (15-16:1), WB=0.34/1.00 (2-16:1), SSI=0.21/1.00 (2-4:1)

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

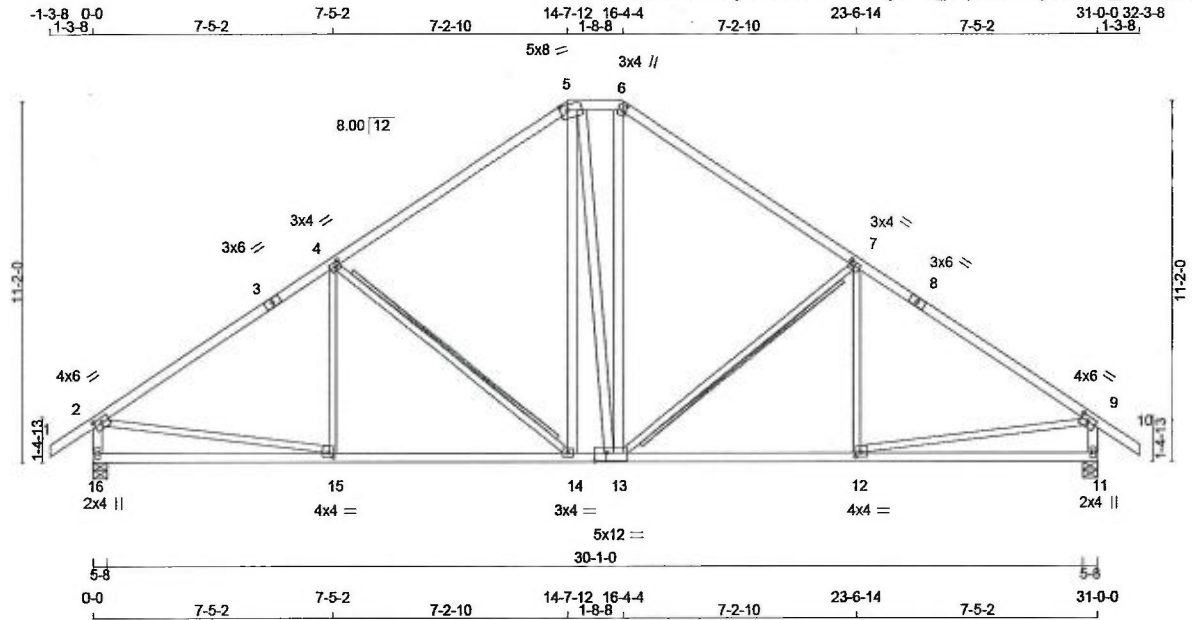
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (13) (INPUT = 0.90)
JSI METAL= 0.55 (16) (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 = 2 X 156 = 312 lb

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
1 - 3	2x4	DRY	No.2
3 - 5	2x4	DRY	No.2
5 - 6	2x4	DRY	No.2
6 - 8	2x4	DRY	No.2
8 - 10	2x4	DRY	No.2
16 - 2	2x4	DRY	No.2
11 - 9	2x4	DRY	No.2
16 - 13	2x4	DRY	No.2
13 - 11	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
14 - 5	2x4	DRY	No.2
5 - 13	2x4	DRY	No.2
13 - 6	2x4	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
2 TMVW-I	MT20	4.0	6.0	1.75	3.00
3 TS-t	MT20	3.0	6.0		
4 TMWW-I	MT20	3.0	4.0	1.50	1.50
5 TTWW-m	MT20	5.0	8.0	2.00	2.75
6 TTWW-m	MT20	3.0	4.0	2.00	1.25
7 TMWW-I	MT20	3.0	4.0	1.50	1.50
8 TS-t	MT20	3.0	6.0		
9 TMVW-I	MT20	4.0	6.0	1.75	3.00
11 BMV1+p	MT20	2.0	4.0		
12 BMWW-I	MT20	4.0	4.0	1.50	1.50
13 BSWWW-I	MT20	5.0	12.0	3.00	4.25
14 BMWW-I	MT20	3.0	4.0		
15 BMWW-I	MT20	4.0	4.0	1.50	1.50
16 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		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
16	1577	0	1577	0	0	5-8	5-8	5-8	
11	1577	0	1577	0	0	5-8	5-8	5-8	

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
16	1104	786 / 0	0 / 0	0 / 0	0 / 0	318 / 0	0 / 0	
11	1104	786 / 0	0 / 0	0 / 0	0 / 0	318 / 0	0 / 0	

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 16, 11

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.26 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 4-14, 7-13

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)	LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED UNBRACED LENGTH (FR-TO)	MAX. FACTORED UNBRACED LENGTH (FR-TO)
FR-TO				FR-TO			
1-2	0 / 29	-77.4	-77.4 0.10 (1)	10.00	15-4	-66 / 106	0.04 (1)
2-3	-1736 / 0	-77.4	-77.4 0.69 (1)	4.26	4-14	-558 / 0	0.41 (1)
3-4	-1736 / 0	-77.4	-77.4 0.69 (1)	4.26	14-5	0 / 408	0.07 (1)
4-5	-1296 / 0	-77.4	-77.4 0.61 (1)	4.86	5-13	0 / 16	0.00 (1)
5-6	-1052 / 0	-77.4	-77.4 0.04 (1)	6.10	13-6	0 / 423	0.07 (1)
6-7	-1295 / 0	-77.4	-77.4 0.61 (1)	4.86	13-7	-556 / 0	0.40 (1)
7-8	-1736 / 0	-77.4	-77.4 0.69 (1)	4.27	12-7	-69 / 104	0.05 (1)
8-9	-1736 / 0	-77.4	-77.4 0.69 (1)	4.27	2-15	0 / 1492	0.34 (1)
9-10	0 / 29	-77.4	-77.4 0.10 (1)	10.00	12-9	0 / 1491	0.34 (1)
16-2	-1524 / 0	0.0	0.0 0.16 (1)	6.65			
11-9	-1524 / 0	0.0	0.0 0.16 (1)	6.66			
16-15	0 / 0	-17.5	-17.5 0.24 (4)	10.00			
15-14	0 / 1476	-17.5	-17.5 0.37 (1)	10.00			
14-13	0 / 1050	-17.5	-17.5 0.26 (1)	10.00			
13-12	0 / 1476	-17.5	-17.5 0.36 (1)	10.00			
12-11	0 / 0	-17.5	-17.5 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 = 7.0	PSF	
TOTAL LOAD = 33.3	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, CBC 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 (1.03")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL) = L/360 (1.03")
CALCULATED VERT. DEFL.(TL) = L/999 (0.15")

CSI: TC=0.69/1.00 (2-4:1), BC=0.37/1.00 (14-15:1), WB=0.41/1.00 (4-14:1), SSI=0.23/1.00 (2-4:1)

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

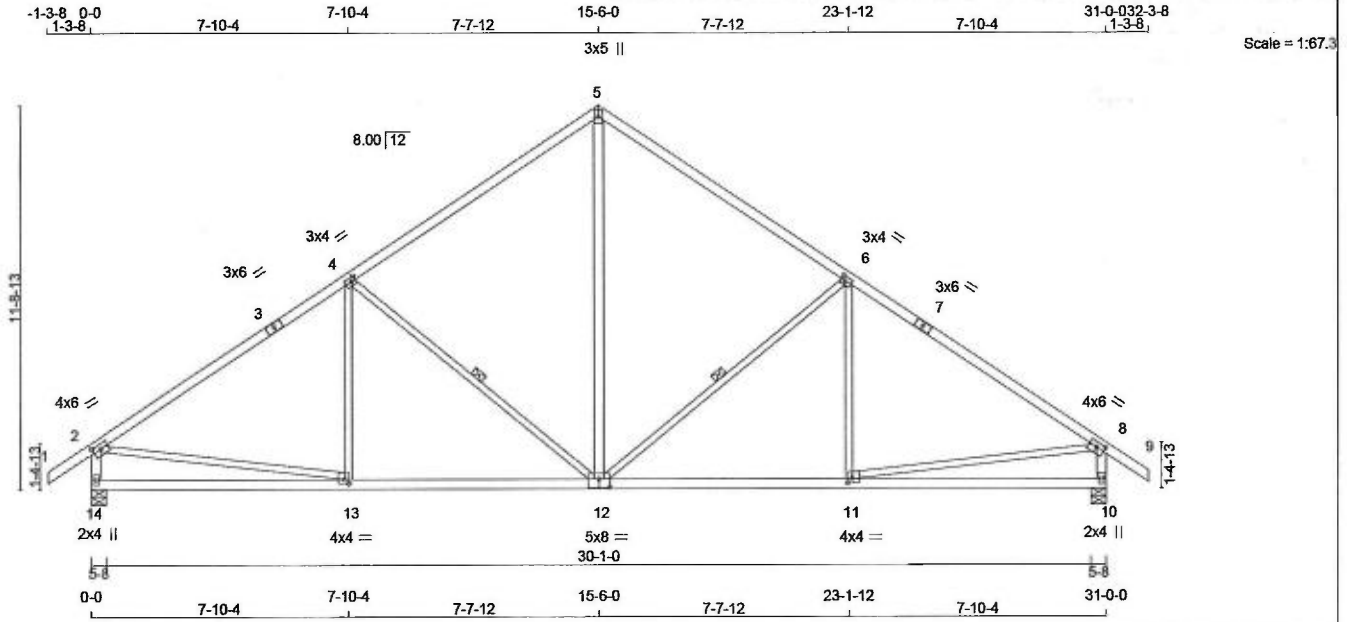
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (6) (INPUT = 0.90)
JSI METAL= 0.55 (15) (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 134 = 403 lb [M/JF]

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	DRY	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF	
3 - 5	2x4	DRY	No.2	SPF	
5 - 7	2x4	DRY	No.2	SPF	
7 - 9	2x4	DRY	No.2	SPF	
14 - 2	2x4	DRY	No.2	SPF	
10 - 8	2x4	DRY	No.2	SPF	
14 - 12	2x4	DRY	No.2	SPF	
12 - 10	2x4	DRY	No.2	SPF	
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	
12 - 5	2x4	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	6.0	1.75	3.00
3	TS-t	MT20	3.0	6.0		
4	TMWW-t	MT20	3.0	4.0	1.50	1.50
7	TTW+p	MT20	3.0	5.0		
6	TMVW-t	MT20	3.0	4.0	1.50	1.50
7	TS-t	MT20	3.0	6.0		
8	TMVW-t	MT20	4.0	6.0	1.75	3.00
10	BMV1+p	MT20	2.0	4.0		
11	BMWW-t	MT20	4.0	4.0	1.50	1.50
12	BSWWW-t	MT20	5.0	8.0	3.00	4.00
13	BMWW-t	MT20	4.0	4.0	1.50	1.50
14	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		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
14	1577	0	1577	0	0	5-8	5-8		
10	1577	0	1577	0	0	5-8	5-8		

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
14	1104	786 / 0	0 / 0	0 / 0	0 / 0	318 / 0	0 / 0
10	1104	786 / 0	0 / 0	0 / 0	0 / 0	318 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 14, 10

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.10 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 6-12, 4-12. DBS = 20-0-0, CBF = 76 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 LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 (LC)	UNBRACED LENGTH (FT)
FR-TO		FROM TO		FR-TO			
1-2	0 / 29	-77.4 -77.4	0.10 (1)	10.00	12-5	0 / 897	0.14 (1)
2-3	-1727 / 0	-77.4 -77.4	0.79 (1)	4.10	12-6	-604 / 0	0.43 (1)
3-4	-1727 / 0	-77.4 -77.4	0.79 (1)	4.10	11-6	-51 / 114	0.04 (4)
4-5	-1249 / 0	-77.4 -77.4	0.69 (1)	4.76	4-12	-604 / 0	0.43 (1)
5-6	-1249 / 0	-77.4 -77.4	0.69 (1)	4.76	13-4	-51 / 114	0.04 (4)
6-7	-1727 / 0	-77.4 -77.4	0.79 (1)	4.10	2-13	0 / 1485	0.33 (1)
7-8	-1727 / 0	-77.4 -77.4	0.79 (1)	4.10	11-8	0 / 1485	0.33 (1)
8-9	0 / 29	-77.4 -77.4	0.10 (1)	10.00			
14-2	-1521 / 0	0.0 0.0	0.16 (1)	6.67			
10-8	-1521 / 0	0.0 0.0	0.16 (1)	6.67			
14-13	0 / 0	-17.5 -17.5	0.26 (4)	10.00			
13-12	0 / 1471	-17.5 -17.5	0.37 (1)	10.00			
12-11	0 / 1471	-17.5 -17.5	0.37 (1)	10.00			
11-10	0 / 0	-17.5 -17.5	0.26 (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		=	33.3	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 (1.03")
CALCULATED VERT. DEFL.(LL)= L/999 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (1.03")
CALCULATED VERT. DEFL.(TL)= L/999 (0.15")

CSI: TC=0.79/1.00 (6-8:1), BC=0.37/1.00 (11-12:1), WB=0.43/1.00 (6-12:1), SSI=0.24/1.00 (6-8:1)

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

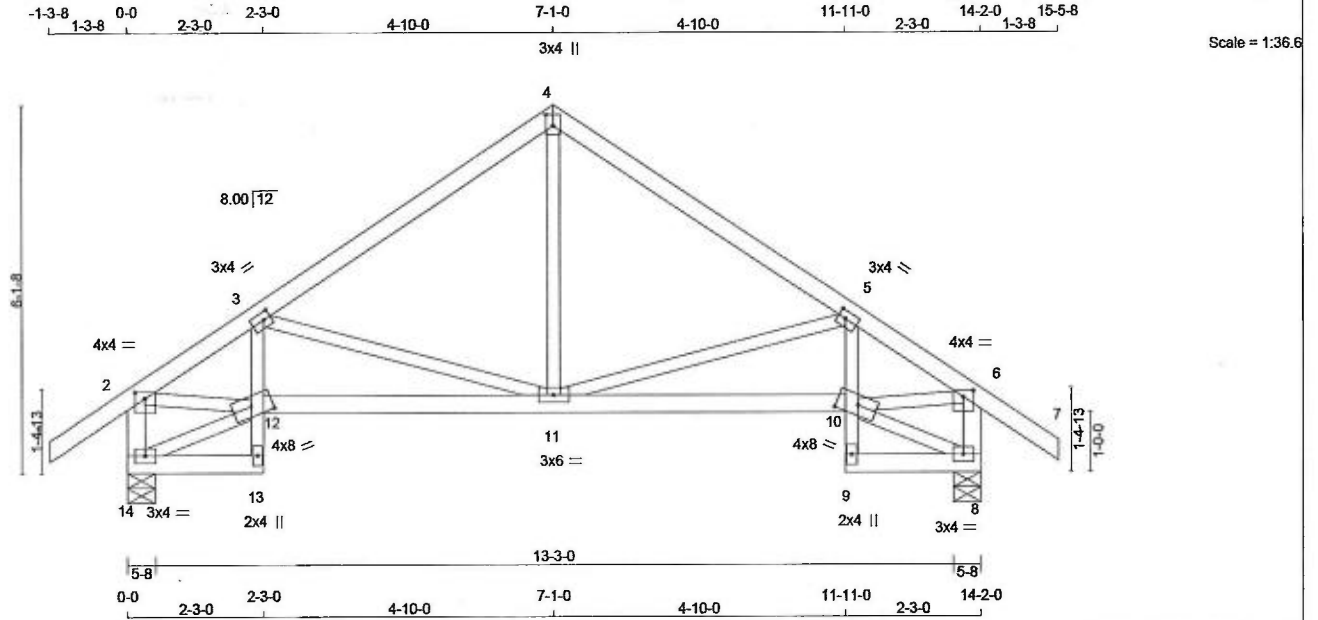
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.84 (11) (INPUT = 0.90)
JSI METAL= 0.55 (11) (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 = 2 X 63 = 126 lb
(M/JF)

LUMBER				N. L. G. A. RULES	
CHORDS	SIZE	LUMBER	DESCR.		
1 - 4	2x4	DRY	No.2	SPF	
4 - 7	2x4	DRY	No.2	SPF	
14 - 2	2x4	DRY	No.2	SPF	
8 - 6	2x4	DRY	No.2	SPF	
14 - 13	2x4	DRY	No.2	SPF	
13 - 3	2x3	DRY	No.2	SPF	
12 - 10	2x4	DRY	No.2	SPF	
9 - 5	2x3	DRY	No.2	SPF	
9 - 8	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	X
2	TMVW-p	MT20	4.0	4.0	1.25 2.00
3	TMVW-t	MT20	3.0	4.0	1.50 1.50
4	TTW-p	MT20	3.0	4.0	2.25 1.50
5	TMVW-t	MT20	3.0	4.0	1.50 1.50
6	TMVW-p	MT20	4.0	4.0	1.25 2.00
8	BMVW1-t	MT20	3.0	4.0	
9	BMV-p	MT20	2.0	4.0	
10	BMVWV-w	MT20	4.0	8.0	4.25 2.00
11	BMVWV-t	MT20	3.0	8.0	
12	BMVWV-w	MT20	4.0	8.0	4.25 2.00
13	BMV-p	MT20	2.0	4.0	
14	BMVW1-t	MT20	3.0	4.0	

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	DOWN	BRG	IN-SX	BRG	IN-SX
14	778	0	778	0	0	5-8	5-8	5-8	5-8
8	778	0	778	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
14	544	394 / 0	0 / 0	0 / 0	0 / 0	150 / 0	0 / 0		
8	544	394 / 0	0 / 0	0 / 0	0 / 0	150 / 0	0 / 0		

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 14, 8

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.10 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		MAX. FACTORED		FACTORED		MEMB.		MAX. FACTORED		WEBS		MAX. FACTORED	
FR-TO	MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (PLF)	CSI (LC)	FR-TO	MEMB.	FORCE (LBS)	MAX (LC)	FR-TO	MEMB.	FORCE (LBS)	MAX (LC)
1-2		0 / 29	-77.4	-77.4	0.10 (1)	10.00	11-4	0 / 356	0.08 (1)				
2-3		-978 / 0	-77.4	-77.4	0.18 (1)	6.10	11-5	-365 / 0	0.16 (1)				
3-4		-626 / 0	-77.4	-77.4	0.23 (1)	6.25	3-11	-365 / 0	0.16 (1)				
4-5		-626 / 0	-77.4	-77.4	0.23 (1)	6.25	14-12	-14 / 0	0.00 (1)				
5-6		-978 / 0	-77.4	-77.4	0.18 (1)	6.10	2-12	0 / 851	0.19 (1)				
6-7		0 / 29	-77.4	-77.4	0.10 (1)	10.00	10-8	-14 / 0	0.00 (1)				
14-2		-754 / 0	0.0	0.0	0.08 (1)	7.81	10-6	0 / 851	0.19 (1)				
8-6		-754 / 0	0.0	0.0	0.08 (1)	7.81							
14-13		0 / 13	-17.5	-17.5	0.02 (4)	10.00							
13-12		0 / 21	0.0	0.0	0.03 (1)	10.00							
12-3		-45 / 31	0.0	0.0	0.02 (4)	7.81							
12-11		0 / 855	-17.5	-17.5	0.21 (1)	10.00							
11-10		0 / 855	-17.5	-17.5	0.21 (1)	10.00							
9-10		0 / 21	0.0	0.0	0.03 (1)	10.00							
10-5		-45 / 31	0.0	0.0	0.02 (4)	7.81							
9-8		0 / 13	-17.5	-17.5	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 = 7.0 PSF
TOTAL LOAD = 33.3 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, CBC 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 (0.47")
CALCULATED VERT. DEFL.(LL)= L/999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.47")
CALCULATED VERT. DEFL.(TL)= L/999 (0.04")

CSI: TC=0.23/1.00 (4-5:1), BC=0.21/1.00 (10-11:1), WB=0.19/1.00 (6-10:1), SSI=0.14/1.00 (4-5:1)

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 HEELS OFF

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

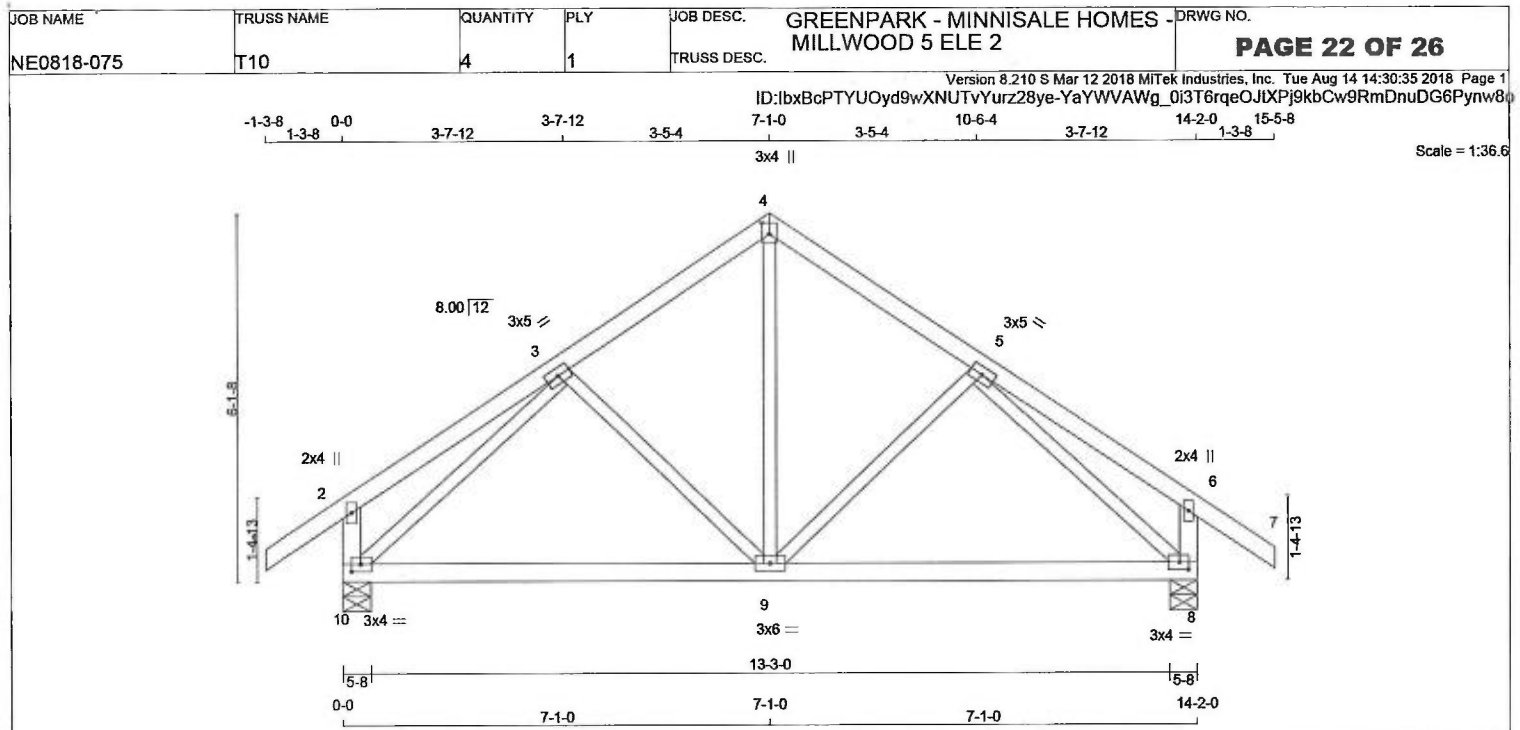
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.84 (6) (INPUT = 0.90)
JSI METAL= 0.29 (2) (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 61 = 245 lb [M/JF]

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 7	2x4	DRY	No.2	SPF
10 - 2	2x4	DRY	No.2	SPF
8 - 6	2x4	DRY	No.2	SPF
10 - 8	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
2	TMV+p	MT20	2.0	4.0		
3	TMWW-t	MT20	3.0	5.0		
4	TTW+p	MT20	3.0	4.0	2.25	1.50
5	TMWW-t	MT20	3.0	5.0		
6	TMV+p	MT20	2.0	4.0		
8	BMVW1-t	MT20	3.0	4.0	1.50	1.75
9	BMVWW-t	MT20	3.0	6.0		
10	BMVW1-t	MT20	3.0	4.0	1.50	1.75

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
10	778	0	778	0
8	778	0	778	0

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
10	544	394 / 0	0 / 0	0 / 0	0 / 0	150 / 0	0 / 0
8	544	394 / 0	0 / 0	0 / 0	0 / 0	150 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 10, 8

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. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 29	-77.4 -77.4 0.10 (1)	10.00	9-4	0 / 357	0.08 (1)	
2-3	0 / 17	-77.4 -77.4 0.15 (1)	10.00	9-5	-147 / 6	0.06 (1)	
3-4	-531 / 0	-77.4 -77.4 0.12 (1)	6.25	3-9	-147 / 6	0.06 (1)	
4-5	-531 / 0	-77.4 -77.4 0.12 (1)	6.25	10-3	-744 / 0	0.29 (1)	
5-6	0 / 17	-77.4 -77.4 0.15 (1)	10.00	5-8	-744 / 0	0.29 (1)	
6-7	0 / 29	-77.4 -77.4 0.10 (1)	10.00				
10-2	-212 / 0	0.0 0.0 0.02 (1)	7.81				
8-6	-212 / 0	0.0 0.0 0.02 (1)	7.81				
10-9	0 / 533	-17.5 -17.5 0.29 (4)	10.00				
9-8	0 / 533	-17.5 -17.5 0.29 (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		=	33.3	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 (0.47")
CALCULATED VERT. DEFL.(LL)= L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.47")
CALCULATED VERT. DEFL.(TL)= L/999 (0.06")

CSI: TC=0.15/1.00 (5-6:1), BC=0.29/1.00 (8-9:4), WB=0.29/1.00 (5-8:1), SSI=0.11/1.00 (4-5:1)

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

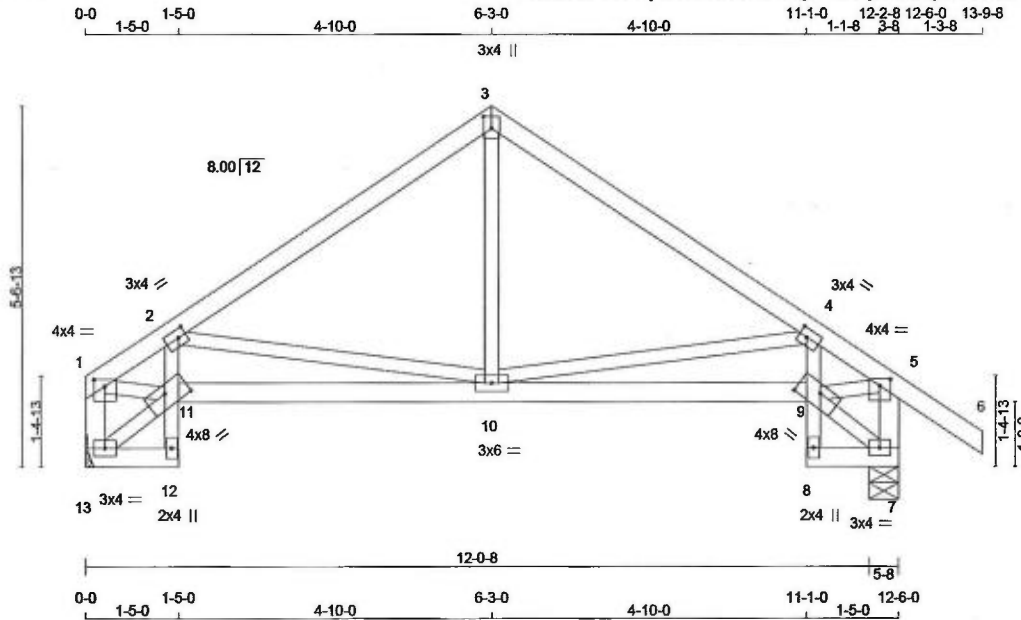
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.82 (3) (INPUT = 0.90)
JSI METAL= 0.21 (5) (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 = 2 X 53 = 106 lb

LUMBER		N. L. G. A. RULES		LUMBER	DESCR.
CHORDS	SIZE				
1 - 3	2x4	DRY	No.2	SPF	
3 - 6	2x4	DRY	No.2	SPF	
13 - 1	2x4	DRY	No.2	SPF	
7 - 5	2x4	DRY	No.2	SPF	
13 - 12	2x4	DRY	No.2	SPF	
12 - 2	2x3	DRY	No.2	SPF	
11 - 9	2x4	DRY	No.2	SPF	
8 - 4	2x3	DRY	No.2	SPF	
8 - 7	2x4	DRY	No.2	SPF	

ALL WEBS 2x3 DRY
EXCEPT
DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
1	TMWV-p	MT20	4.0	4.0	1.25 2.00
2	TMWV-t	MT20	3.0	4.0	1.50 1.50
3	TTW+p	MT20	3.0	4.0	2.25 1.50
4	TMWV-t	MT20	3.0	4.0	1.50 1.50
5	TMWV-p	MT20	4.0	4.0	1.25 2.00
7	BMWV1-t	MT20	3.0	4.0	
8	BMV+p	MT20	2.0	4.0	
9	BMVWWV+w	MT20	4.0	8.0	4.25 2.50
10	BMVWWV-t	MT20	3.0	6.0	
11	BMVWWV+w	MT20	4.0	8.0	4.25 2.50
12	BMV+p	MT20	2.0	4.0	
13	BMWV1-t	MT20	3.0	4.0	

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

BEARINGS		FACTORED		MAXIMUM FACTORED			INPUT	REQRD
		GROSS REACTION		GROSS REACTION			BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
13	587	0	587	0	0	MECHANICAL		
7	705	0	705	0	0	5-8	5-8	

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 13 TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
13	412	288 / 0	0 / 0	0 / 0	0 / 0	125 / 0	0 / 0
7	492	359 / 0	0 / 0	0 / 0	0 / 0	134 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 7

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 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		
1-2	-915 / 0	-77.4	-77.4 0.18 (1)	6.25	10-3	0 / 268	0.06 (1)
2-3	-546 / 0	-77.4	-77.4 0.22 (1)	6.25	10-4	-337 / 0	0.14 (1)
3-4	-546 / 0	-77.4	-77.4 0.23 (1)	6.25	2-10	-399 / 0	0.17 (1)
4-5	-875 / 0	-77.4	-77.4 0.17 (1)	6.25	13-11	-18 / 0	0.00 (1)
5-6	0 / 29	-77.4	-77.4 0.10 (1)	10.00	1-11	0 / 823	0.19 (1)
13-1	-565 / 0	0.0	0.0 0.06 (1)	7.81	9-7	-18 / 0	0.00 (1)
7-5	-693 / 0	0.0	0.0 0.07 (1)	7.81	9-5	0 / 762	0.17 (1)
13-12	0 / 15	-17.5	-17.5 0.01 (4)	10.00			
12-11	0 / 13	0.0	0.0 0.04 (1)	10.00			
11-2	-69 / 20	0.0	0.0 0.03 (1)	7.81			
11-10	0 / 832	-17.5	-17.5 0.20 (1)	10.00			
10-9	0 / 770	-17.5	-17.5 0.19 (1)	10.00			
8-9	0 / 13	0.0	0.0 0.04 (1)	10.00			
9-4	-61 / 21	0.0	0.0 0.03 (1)	7.81			
8-7	0 / 15	-17.5	-17.5 0.01 (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	=	33.3	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 (0.42")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.42")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")

CSI: TC=0.23/1.00 (3-4:1), BC=0.20/1.00 (10-11:1)
 , WB=0.19/1.00 (1-11:1), SS=0.15/1.00 (2-3:1)

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 HEELS OFF

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

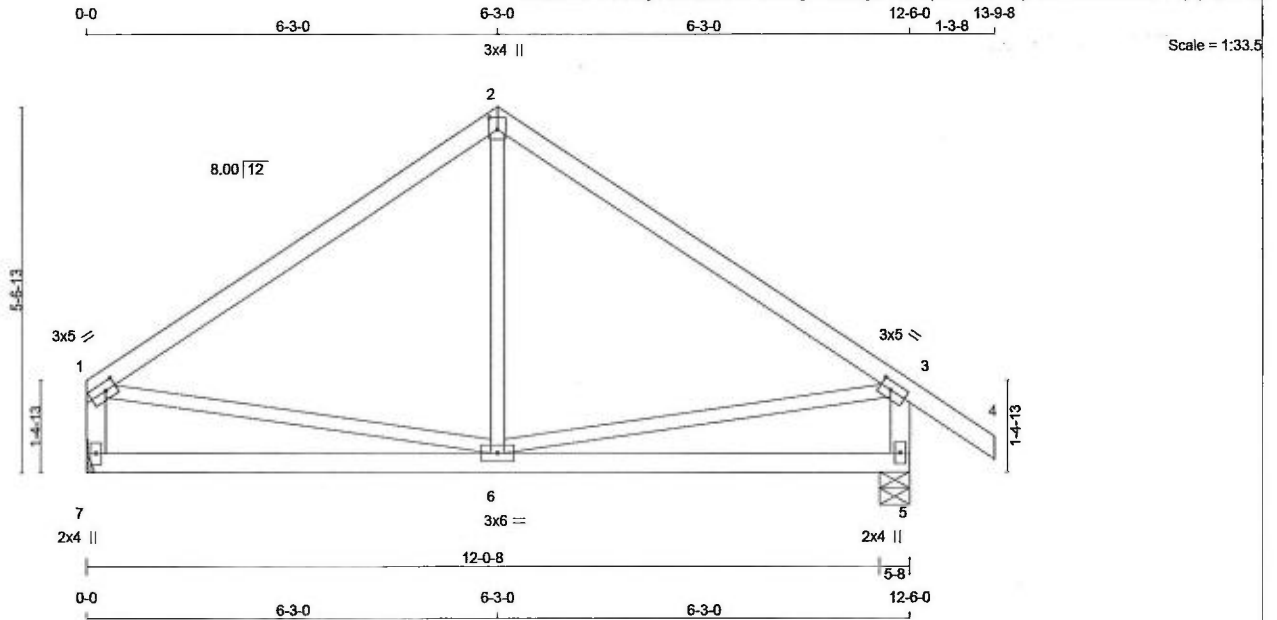
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.83 (11) (INPUT = 0.90)
JSI METAL= 0.26 (1) (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 = 49 lb

LUMBER
 N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
1 - 2	2x4	DRY	No.2
2 - 4	2x4	DRY	No.2
7 - 1	2x4	DRY	No.2
5 - 3	2x4	DRY	No.2
7 - 5	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-I	MT20	3.0	5.0	1.50	2.00
2	TTW+p	MT20	3.0	4.0	2.25	1.50
3	TMVW-I	MT20	3.0	5.0	1.50	2.00
5	BMV1+p	MT20	2.0	4.0		
6	BMWWW-t	MT20	3.0	6.0		
7	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
7	593 0	593 0	0	MECHANICAL
5	699 0	699 0	0	5-8

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 7 TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS
7	COMBINED	SNOW LIVE PERM. LIVE WIND DEAD SOIL
5	416	291 / 0 0 / 0 0 / 0 0 / 0 125 / 0 0 / 0
5	488	355 / 0 0 / 0 0 / 0 0 / 0 133 / 0 0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 5

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. LC1 MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO		FR-TO			
1-2	-443 / 0	-77.4 -77.4	0.39 (1)	6-2	0 / 110	6.25	0.04 (4)
2-3	-443 / 0	-77.4 -77.4	0.39 (1)	1-6	0 / 374	6.25	0.08 (1)
3-4	0 / 29	-77.4 -77.4	0.10 (1)	6-3	0 / 374	10.00	0.08 (1)
7-1	-551 / 0	0.0 0.0	0.06 (1)			7.81	
5-3	-657 / 0	0.0 0.0	0.07 (1)			7.81	
7-6	0 / 0	-17.5 -17.5	0.20 (4)	10.00			
6-5	0 / 0	-17.5 -17.5	0.20 (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	7.0	PSF
TOTAL LOAD	33.3	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) = $L/360$ (0.42")
 CALCULATED VERT. DEFL. (LL) = $L/999$ (0.01")
 ALLOWABLE DEFL. (TL) = $L/360$ (0.42")
 CALCULATED VERT. DEFL. (TL) = $L/999$ (0.04")

CSI: TC=0.39/1.00 (1-2:1), BC=0.20/1.00 (6-7:4), WB=0.08/1.00 (1-6:1), SSI=0.16/1.00 (1-2:1)

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= 0.80 (6) (INPUT = 0.90)
 JSI METAL= 0.19 (1) (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.



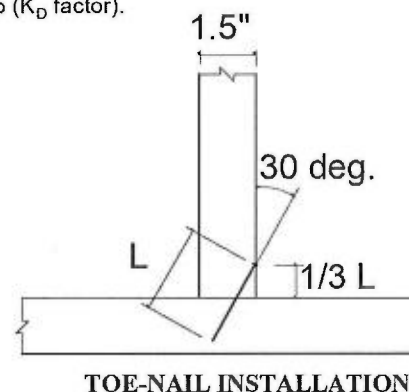
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

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.



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



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April 26, 2017

BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

B37579H2

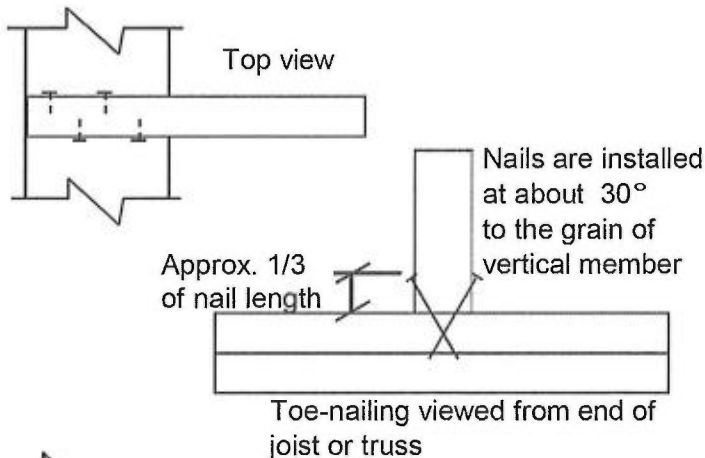
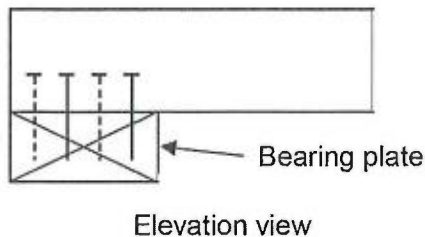
NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL WITHDRAWAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	30	42
	3.25	0.144	32	45
	3.50	0.160	38	52

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

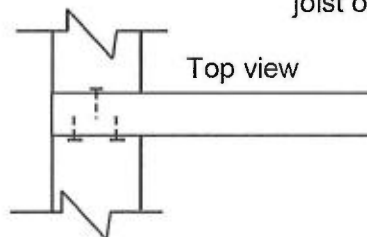
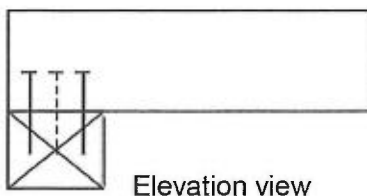
NOTES:

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



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