



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.



DESIGN CRITERIA
SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3 PSF
BOT CH. LL = 0 PSF
DL = 7 PSF
TOTAL LOAD = 33.3 PSF
SPACING = 24" O/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

HANGER LEGEND:

▼ LUS24 ■ LJS26DS
● HGUS26 X HGUS26-2

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.
ROOF RAFTERS THAT CROSS MEET OVER TRUSSES TO BE 2x4 S.P.F. @ 24" O/C WITH A 2x4 VERTICAL POST TO THE TRUSS UNDERNEATH EACH CROSS POINT. VERTICAL POST LONGER THAN 6' TO HAVE LATERAL BRACING SO THAT THE DISTANCE BETWEEN END POINT AND BETWEEN ROWS OF BRACING DOES NOT EXCEED 6'.

LOT 11L

Model: **HEMLOCK 5 EL 2**

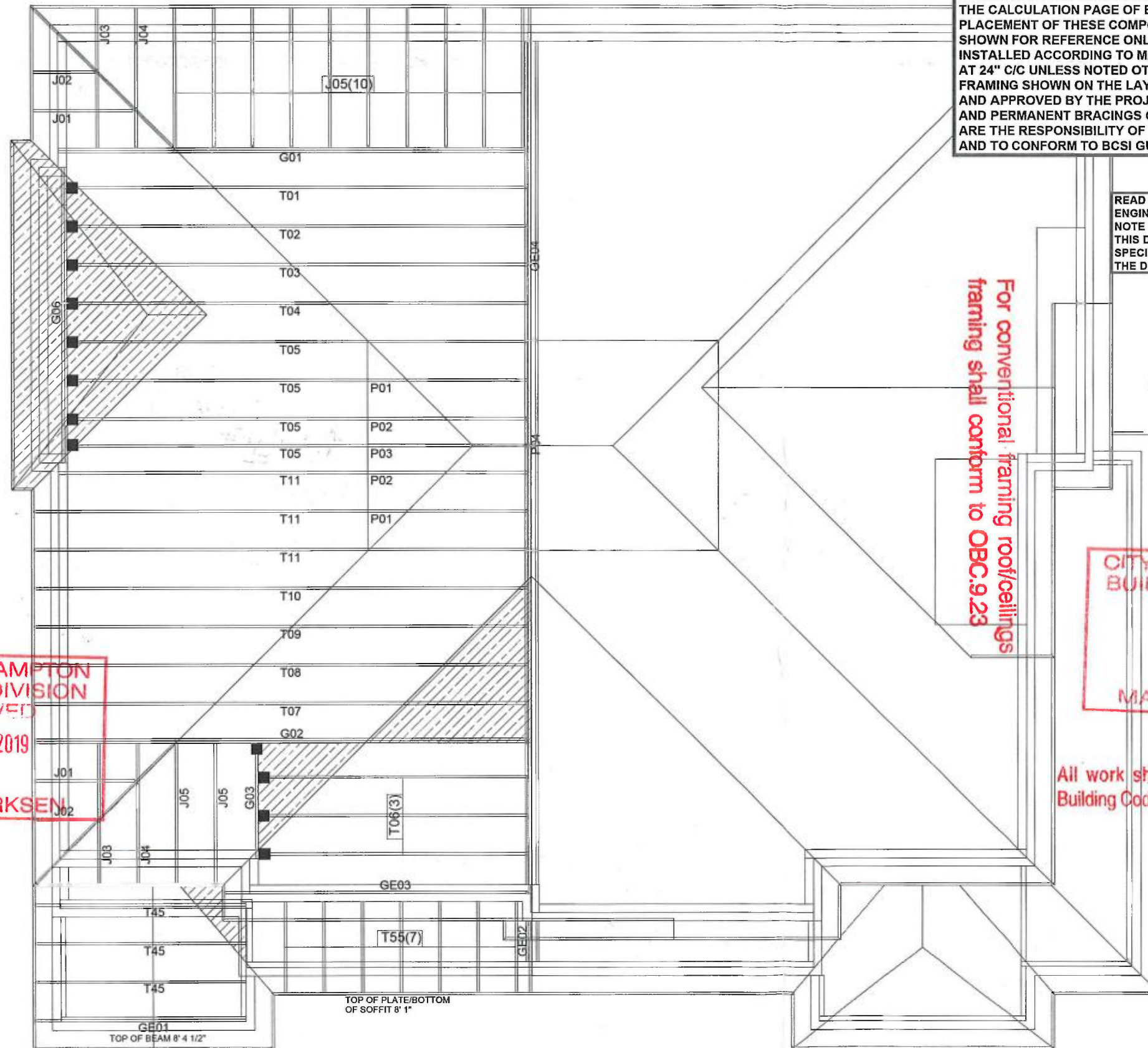
Customer: GREENPARK

Project: MINNISALE HOMES

Location: BRAMPTON

Date: 6/25/2018 Drawn by: BB

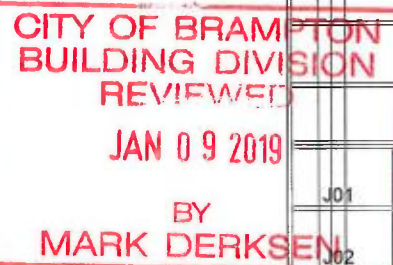
Architectural Drawing Info:
Date: MAY, 2018
Project number: 18012
Model: HEMLOCK 5



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



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



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

18-103

KEENPARK-MINNISALE

HOMES-HEMLOCK 5 EL 2 - LOT 11L

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

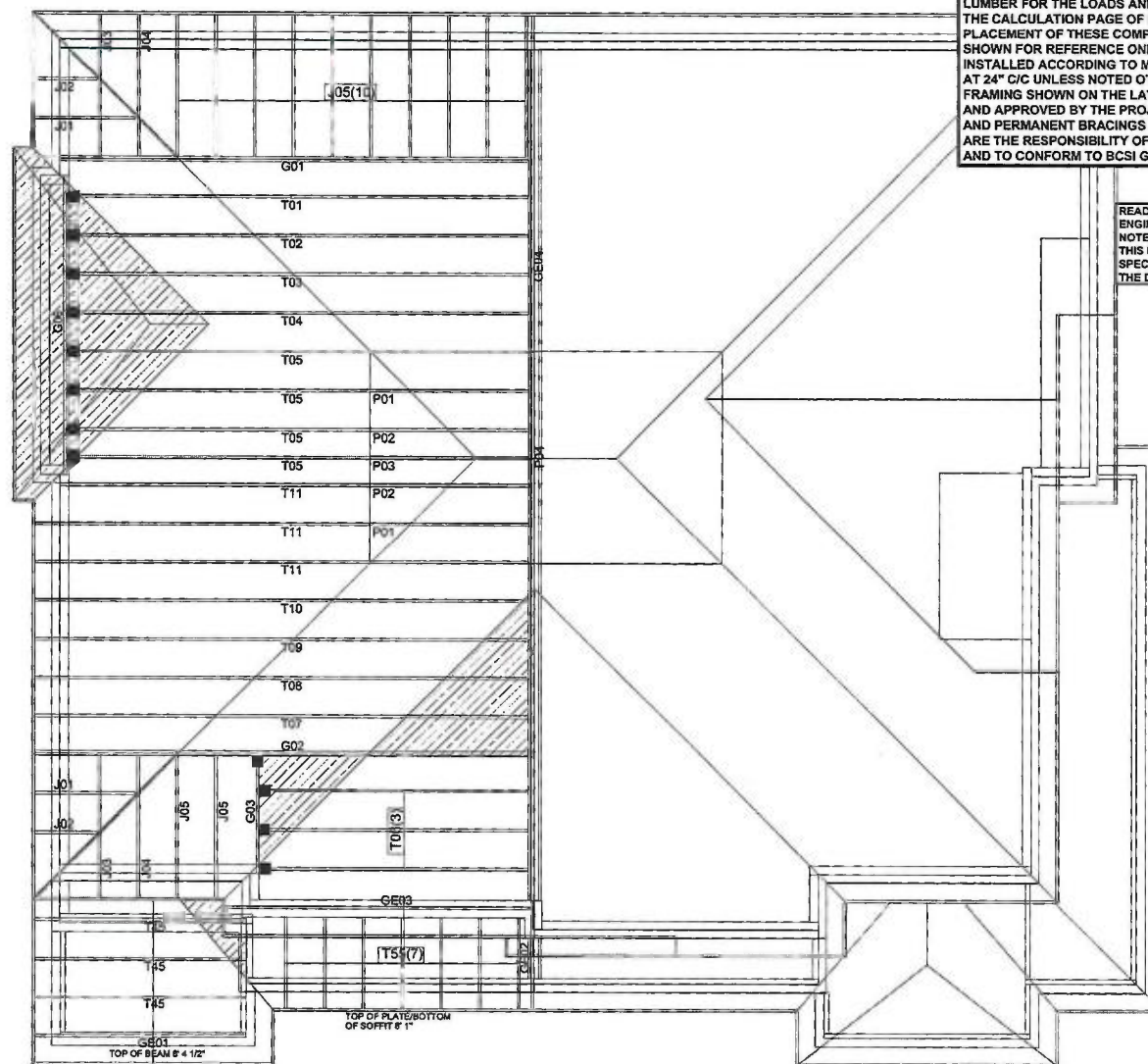
- The trusses must be handled and installed by a qualified professional as per the supplied document titled *Information for Truss Installers* and the BCSI-B1 and BCSI-B3 Summary Sheets
- The compression chords are laterally braced by continuous rigid diaphragm sheathing or as specified on the drawing
- 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.



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DESIGN CRITERIA
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TOP CH. LL = 23.3 PSF
DL = 3 PSF
BOT CH. LL = 0 PSF
DL = 7 PSF
TOTAL LOAD = 33.3 PSF
SPACING = 24" O/C.

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

HANGER LEGEND:

▼ LUS24 ■ LJS26DS
● HGUS26 ✕ HGUS26-2



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.
ROOF RAFTERS THAT CROSS MEET OVER TRUSSES TO BE 2x4 S.P.F. @ 24" O/C WITH A 2x4 VERTICAL POST TO THE TRUSS UNDERNEATH EACH CROSS POINT. VERTICAL POST LONGER THAN 6' TO HAVE LATERAL BRACING SO THAT THE DISTANCE BETWEEN END POINT AND BETWEEN ROWS OF BRACING DOES NOT EXCEED 6'.

Model: **HEMLOCK 5 EL 2**
Customer: **GREENPARK**
Project: **MINNISALE HOMES**
Location: **BRAMPTON**
Date: **6/25/2018** Drawn by: **BB**

Architectural Drawing Info:
Date: MAY, 2010
Project number: 18012
Model: HEMLOCK 5

TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
G01	1	2	GREENPARK-MINNISALE HOMES-HEMLOCK 5 EL 2	PAGE 4 OF 38

Version 8.210 S Mar 12 2018 Mitek Industries, Inc. Thu Aug 16 17:51:00 2018 Page 2
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-Qtu?DFGvRViYclpQSi1sG7N4hiDT_VrDWLueAynD0v

s in inches)

PLATES	W	LEN	Y	X
MT20	4.0	5.0	2.00	Edge
MT20	3.0	4.0	1.50	1.75
MT20	4.0	6.0	1.75	1.50
MT20	3.0	4.0		
MT20	2.0	4.0		
MT20	3.0	6.0		
MT20	3.0	4.0	1.75	1.50
MT20	4.0	4.0	1.50	1.75
MT20	2.0	4.0		
MT20	4.0	4.0	1.75	1.50
MT20	3.0	6.0		
MT20	3.0	4.0		
MT20	3.0	4.0		
MT20	3.0	5.0	1.50	2.00
MT20	2.0	4.0		

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

HANGERS NOTES

- SPECIAL HANGER(S) OR CONNECTION(S)
REQUIRED TO SUPPORT CONCENTRATED
LOAD(S) 348.1 lbs FACTORED DOWN AT 6-0-0
ON TOP CHORD. DESIGN FOR UNSPECIFIED
CONNECTION(S) IS DELEGATED TO THE
BUILDING DESIGNER.

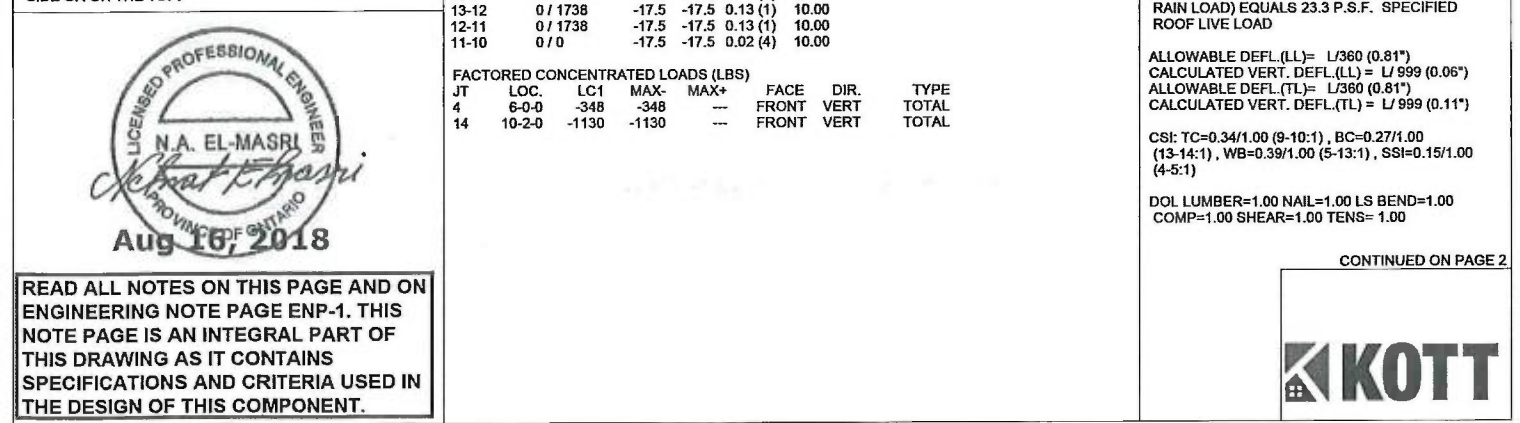
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (15) (INPUT = 0.90)
JSI METAL= 0.36 (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
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SPECIFICATIONS AND CRITERIA USED IN
THE DESIGN OF THIS COMPONENT.





PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	5.0	1.50	2.00
3	TMWW-t	MT20	3.0	4.0	1.50	1.75
4	TTWW+m	MT20	5.0	6.0	2.50	1.50
5	TMWW-t	MT20	3.0	4.0		
6	TMW+w	MT20	2.0	4.0		
7	TS-t	MT20	3.0	6.0		
8	TMWW-t	MT20	4.0	4.0		
9	TMVW-t	MT20	4.0	4.0	1.75	1.75
10	BMV1+p	MT20	2.0	4.0		
11	BMWW-t	MT20	4.0	4.0	1.75	1.75
12	BS-t	MT20	4.0	6.0		
13	BMWWW-t	MT20	4.0	6.0	2.00	1.50
14	BMWW+t	MT20	3.0	5.0		
15	BMWW+t	MT20	3.0	4.0		
16	BMWW-t	MT20	4.0	5.0	2.00	2.00
17	BMV1+p	MT20	2.0	4.0		

HANGERS NOTES

- 1) SPECIAL HANGER(S) OR CONNECTION(S)
REQUIRED TO SUPPORT CONCENTRATED
LOAD(S) 348.1 lbs FACTORED DOWN AT 6-0-0
ON TOP CHORD, AND 1129.9 lbs FACTORED
DOWN AT 10-2-0 ON BOTTOM CHORD. DESIGN
FOR UNSPECIFIED CONNECTION(S) IS
DELEGATED TO THE BUILDING DESIGNER.

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

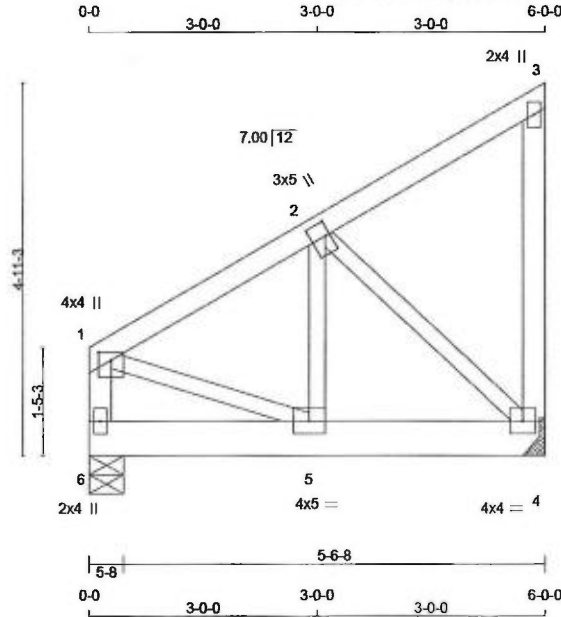
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (9) (INPUT = 0.90)
JSI METAL= 0.43 (2) (INPUT = 1.00)

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TOTAL WEIGHT = 32 lb
(M)

LUMBER

N. L. G. A. RULES					
CHORDS		SIZE		LUMBER	DESCR.
6 - 1		2x4	DRY	No.2	SPF
1 - 3		2x4	DRY	No.2	SPF
4 - 3		2x4	DRY	No.2	SPF
6 - 4		2x6	DRY	No.2	SPF
ALL WEBS		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	1.25	2.00
2	TMVW+t	MT20	3.0	5.0	2.25	0.75
3	TMV+p	MT20	2.0	4.0		
4	BMVW1-t	MT20	4.0	4.0		
5	BMVW1-t	MT20	4.0	5.0		
6	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	HORZ	DOWN	HORZ	UPLIFT	BRG	IN-SX	BRG	IN-SX
6	1129	0	1129	0	0	5-8	5-8		
4	1129	0	1129	0	0	MECHANICAL			

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS						
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
6	793	555 / 0	0 / 0	0 / 0	0 / 0	238 / 0	0 / 0		
4	793	555 / 0	0 / 0	0 / 0	0 / 0	238 / 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 = 6.25 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		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MEMB.	FORCE (LBS)	MAX UNBRAC LENGTH	FR-TO
FR-TO		FROM TO		FR-TO			
6-1	-758 / 0	0.0	0.08 (1)	7.81	1-5	0 / 759	0.19 (1)
1-2	-819 / 0	-77.4	-77.4 0.12 (1)	6.25	5-2	0 / 804	0.20 (1)
2-3	-12 / 0	-77.4	-77.4 0.11 (1)	6.25	2-4	-979 / 0	0.27 (1)
4-3	-92 / 0	0.0	0.03 (1)	7.81			
6-5	0 / 0	-299.1	-299.1 0.17 (1)	10.00			
5-4	0 / 718	-299.1	-299.1 0.26 (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: CStdGirder

START DISTANCE = 0-0

START SPAN CARRIED = 14-0-0

END DISTANCE = 6-0-0

END SPAN CARRIED = 14-0-0

END WALL WIDTH = 1-8

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, 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 (0.20")
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=0.12/1.00 (1-2:1), BC=0.26/1.00 (4-5:1),
WB=0.27/1.00 (2-4:1), SS=0.35/1.00 (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
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

CONTINUED ON PAGE 2



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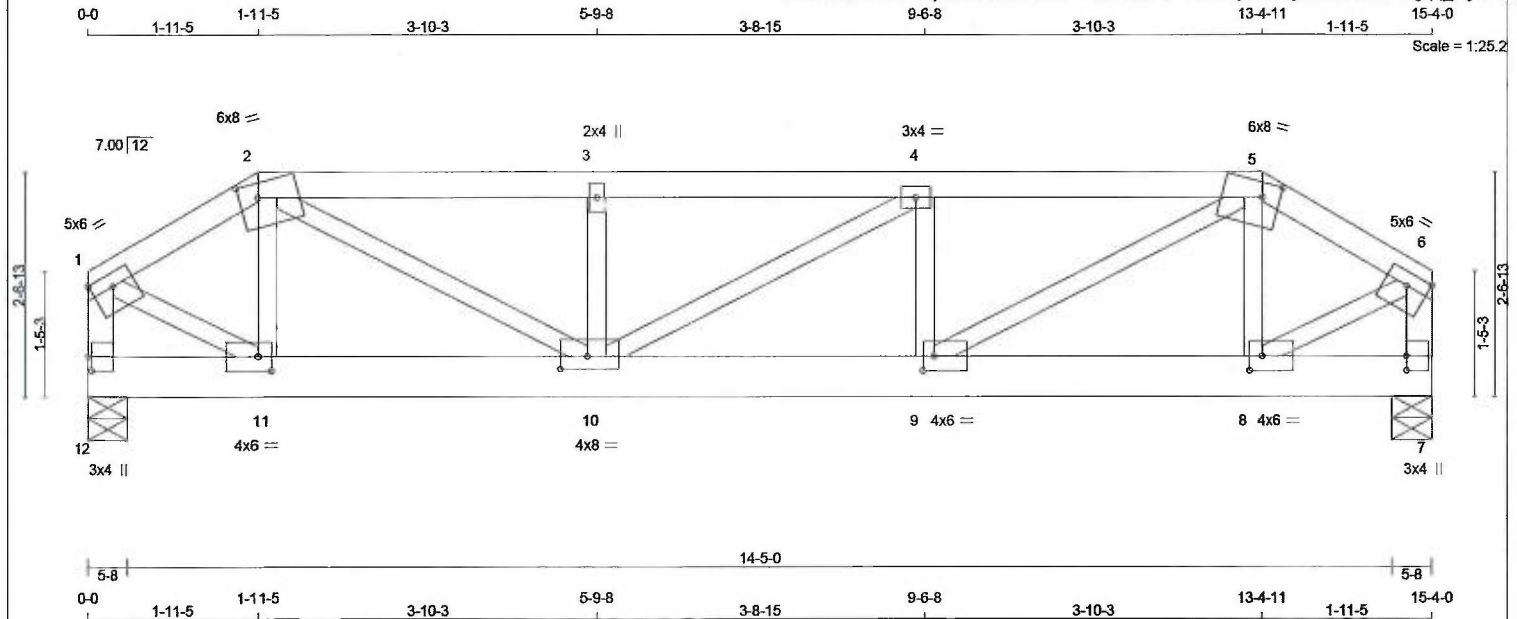
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0818-103	G03	1	1	GREENPARK-MINNISALE HOMES-HEMLOCK 5 EL 2.	PAGE 8 OF 38

Version 8.210 S Mar 12 2018 MTEK Industries, Inc. Thu Aug 16 17:51:01 2018 Page 2
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-v3SNQbHXcpgPEvNvz9DGPTfdr42yCSg?SA4RAcynD0u

JSI GRIP= 0.88 (2) (INPUT = 0.90)
JSI METAL= 0.31 (2) (INPUT = 1.00)

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TOTAL WEIGHT = 2 X 67 = 133 lb [M]

CHORDS	SIZE	DRY	LUMBER	DESCR.
1 - 2	2x4	DRY	No.2	SPF
2 - 5	2x4	DRY	No.2	SPF
5 - 6	2x4	DRY	No.2	SPF
12 - 1	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
12 - 7	2x6	DRY	No.2	SPF

ALL WEBS 2x3 DRY No.2 SPF EXCEPT

DRY: SEASONED LUMBER.

DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS: (0.122"x3") SPIRAL NAILS		
1 - 2	12	TOP
2 - 5	12	TOP
5 - 6	12	TOP
12 - 1	12	TOP
7 - 6	12	TOP
BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS		
12 - 7	9	SIDE(257.4)
WEBS: (0.122"x3") SPIRAL NAILS		
2x3	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.

SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERING. REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP.

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	5.0	6.0	1.75	Edge

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	BRG	IN-SX	BRG
12	4674	0	4674	0	0	5-8	5-8	5-8	5-8
7	4674	0	4674	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
12	3280	2295 / 0	0 / 0	0 / 0	0 / 0	985 / 0	0 / 0
7	3280	2295 / 0	0 / 0	0 / 0	0 / 0	985 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 12, 7

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.29 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 LC1 (LC)	MEMB.	FORCE (LBS)	FACTORED MAX (LC)	MAX (LC)
FR-TO		FROM	TO	FR-TO		FROM	TO
1-2	-4592 / 0	-77.4	-77.4 0.09 (1)	4.43	11-2	-97 / 14	0.01 (1)
2-3	-7808 / 0	-77.4	-77.4 0.33 (1)	3.29	2-10	0 / 4432	0.55 (1)
3-4	-7808 / 0	-77.4	-77.4 0.30 (1)	3.31	10-3	-270 / 0	0.02 (1)
4-5	-7850 / 0	-77.4	-77.4 0.32 (1)	3.29	10-4	-49 / 0	0.01 (1)
5-6	-4582 / 0	-77.4	-77.4 0.09 (1)	4.43	9-4	-259 / 0	0.02 (1)
12-1	-4403 / 0	0.0	0.0 0.25 (1)	5.68	9-5	0 / 4492	0.56 (1)
7-6	-4394 / 0	0.0	0.0 0.25 (1)	5.68	8-5	-127 / 6	0.01 (1)
12-11	0 / 0	-532.3	-532.3 0.21 (1)	10.00	1-11	0 / 4432	0.55 (1)
11-10	0 / 3952	-532.3	-532.3 0.46 (1)	10.00	8-6	0 / 4422	0.55 (1)
10-9	0 / 7850	-532.3	-532.3 0.75 (1)	10.00			
9-8	0 / 3941	-532.3	-532.3 0.46 (1)	10.00			
8-7	0 / 0	-532.3	-532.3 0.20 (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

GIRDER TYPE: CstdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 23-10-0
END DISTANCE = 15-4-0
END SPAN CARRIED = 23-10-0
END WALL WIDTH = 1-8
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, 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 (0.51")
CALCULATED VERT. DEFL.(LL) = L/999 (0.11")
ALLOWABLE DEFL.(TL) = L/360 (0.51")
CALCULATED VERT. DEFL.(TL) = L/954 (0.19")

CSI: TC=0.33/1.00 (2-3:1), BC=0.75/1.00 (9-10:1), WB=0.56/1.00 (5-9:1), SSI=0.36/1.00 (10-11:1)

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

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.



PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TTWW-m	MT20	6.0	8.0	2.00	2.50
3	TMW+w	MT20	2.0	4.0		
4	TMWW-l	MT20	3.0	4.0		
5	TTWW-m	MT20	6.0	8.0	2.00	2.50
6	TMVW-l	MT20	5.0	6.0	1.75	Edge
7	BMV1+p	MT20	3.0	4.0	2.00	
8	BMWW-l	MT20	4.0	6.0	2.00	1.75
9	BMWW-l	MT20	4.0	6.0	2.00	1.50
10	BMWW-l	MT20	4.0	8.0	1.75	3.75
11	BMWW-l	MT20	4.0	6.0	2.00	1.75
12	BMV1+p	MT20	3.0	4.0	2.00	0.50

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

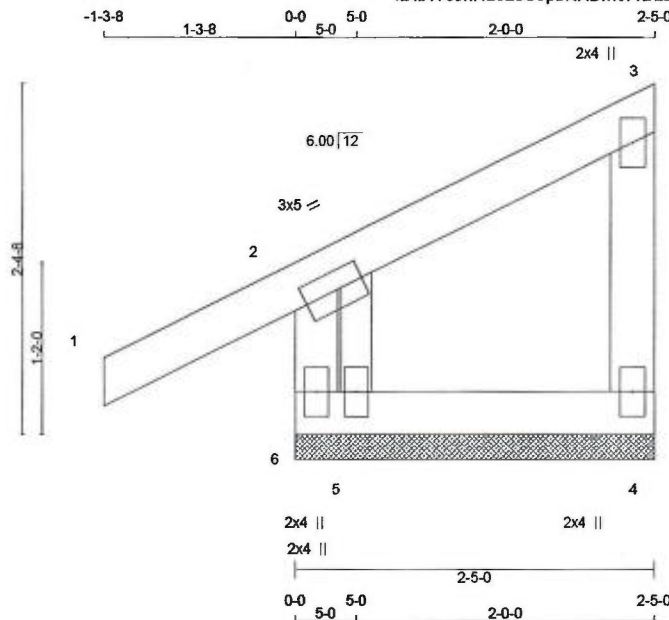
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (10) (INPUT = 0.90)
JSI METAL= 0.58 (1) (INPUT = 1.00)

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TOTAL WEIGHT = 11 lb

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE		LUMBER	DESCR
6 - 2	2x4	DRY	No.2	SPF
1 - 3	2x4	DRY	No.2	SPF
4 - 3	2x4	DRY	No.2	SPF
6 - 4	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.

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-1	MT20	3.0	5.0	1.50	2.25
3	TMV+p	MT20	2.0	4.0		
4	BMV1+p	MT20	2.0	4.0		
5	BMV1+w	MT20	2.0	4.0		
6	BMV1+p	MT20	2.0	4.0		

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

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE

BEARING MATERIAL TO BE SPE 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 = 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				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO		FR-TO			
6-2	-194 / 0	0.0	0.0 0.02 (1)	7.81	5-2	-24 / 1	0.00 (1)
1-2	0 / 23	-77.4	-77.4 0.10 (1)	10.00			
2-3	-20 / 0	-77.4	-77.4 0.06 (1)	6.25			
4-3	-76 / 0	0.0	0.0 0.03 (1)	7.81			
6-5	0 / 24	-17.5	-17.5 0.02 (1)	10.00			
5-4	0 / 13	-17.5	-17.5 0.01 (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 =	7.0	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

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=0.10/1.00 (1-2:1), BC=0.02/1.00 (5-6:1),
WB=0.00/1.00 (2-5:1), SSI=0.07/1.00 (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)	(PSI)	(PLI)	(PSI)	(PLI)
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

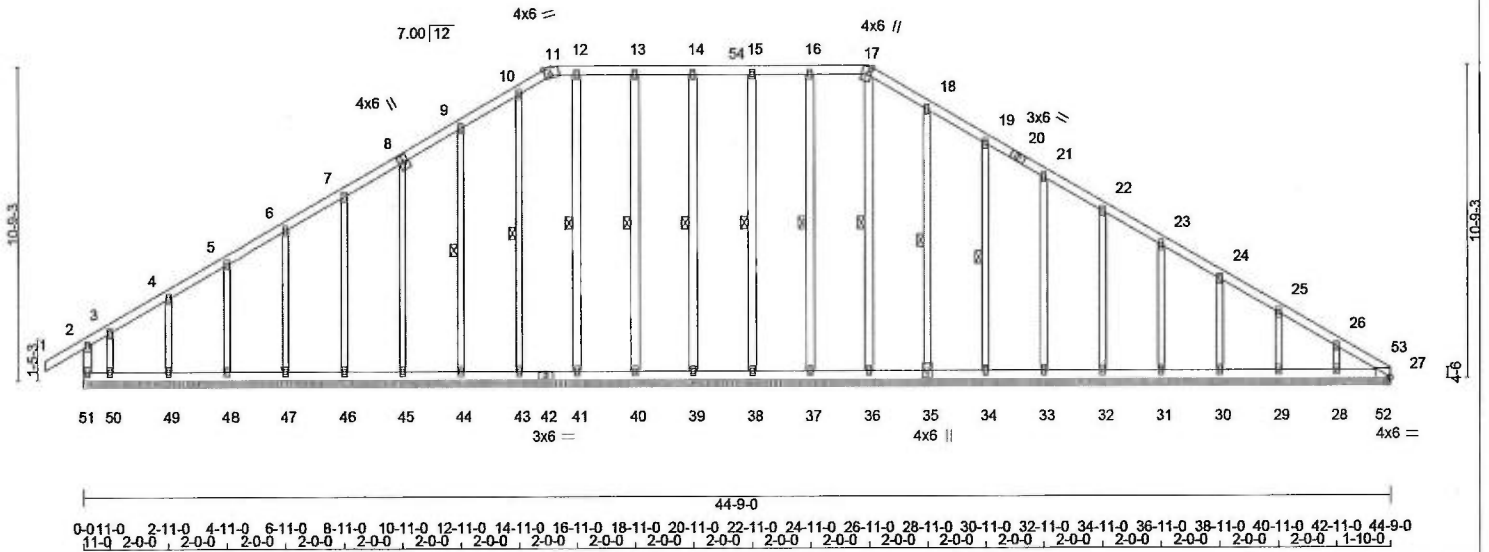
JSI GRIP= 0.19 (2) (INPUT = 0.90)
JSI METAL= 0.04 (6) (INPUT = 1.00)



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THE DESIGN OF THIS COMPONENT.**



Scale = 1:75.5



TOTAL WEIGHT = 249 lb [M]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
51 - 2	2x4	DRY No.2	SPF	
1 - 8	2x4	DRY No.2	SPF	
8 - 11	2x4	DRY No.2	SPF	
11 - 17	2x4	DRY No.2	SPF	
17 - 20	2x4	DRY No.2	SPF	
20 - 27	2x4	DRY No.2	SPF	
51 - 42	2x4	DRY No.2	SPF	
42 - 35	2x4	DRY No.2	SPF	
35 - 27	2x4	DRY No.2	SPF	
ALL WEBS EXCEPT				
36 - 17	2x4	DRY No.2	SPF	
37 - 16	2x4	DRY No.2	SPF	
38 - 15	2x4	DRY No.2	SPF	
39 - 14	2x4	DRY No.2	SPF	
40 - 13	2x4	DRY No.2	SPF	
41 - 12	2x4	DRY No.2	SPF	
ALL GABLE WEBS EXCEPT				
ST2	2x4	DRY No.2	SPF	
ST3	2x4	DRY No.2	SPF	
ST4	2x4	DRY No.2	SPF	
ST5	2x4	DRY No.2	SPF	
ST6	2x4	DRY No.2	SPF	
ST7	2x4	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	TMV+p	MT20	2.0	4.0	
3, 4, 5, 6, 7, 9, 10, 12, 13, 14, 15, 16, 18, 19, 21, 22, 23, 24, 25, 26					
3	TMW+w	MT20	2.0	4.0	
8	TSW+L	MT20	4.0	6.0	
11	TT-m	MT20	4.0	6.0	Edge 2.00
17	TTW+m	MT20	4.0	6.0	Edge 1.00

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
FOR SECTION 11-17, MAX. PURLIN SPACING = 2.00 FT.
FOR OTHER SECTIONS, 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.
1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF 17-36, 16-37, 15-38, 14-39, 13-40, 12-41, 10-43, 9-44, 18-35, 19-34. DBS = 20'-0". CBF = 25 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)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 (LC)
FR-TO		FROM TO			FR-TO		
51-2	-212 / 0	0.0	0.02 (1)	7.81	36-17	-142 / 0	0.08 (1)
1-2	0 / 27	-77.4	-77.4 0.10 (1)	10.00	37-16	-190 / 0	0.11 (1)
2-3	-37 / 0	-77.4	-77.4 0.10 (1)	6.25	38-15	-166 / 0	0.10 (1)
3-4	0 / 6	-77.4	-77.4 0.04 (1)	10.00	39-14	-173 / 0	0.10 (1)
4-5	0 / 5	-77.4	-77.4 0.04 (1)	10.00	40-13	-152 / 0	0.09 (1)
5-6	0 / 10	-77.4	-77.4 0.04 (1)	10.00	41-12	-197 / 0	0.12 (1)
6-7	0 / 12	-77.4	-77.4 0.04 (1)	10.00	43-10	-164 / 0	0.12 (1)
7-8	0 / 14	-77.4	-77.4 0.04 (1)	10.00	44-9	-142 / 0	0.07 (1)
8-9	0 / 14	-77.4	-77.4 0.04 (1)	10.00	45-8	-156 / 0	0.18 (1)
9-10	0 / 21	-77.4	-77.4 0.06 (1)	10.00	46-7	-156 / 0	0.11 (1)
10-11	0 / 0	-77.4	-77.4 0.05 (1)	10.00	47-6	-153 / 0	0.07 (1)
11-12	0 / 16	-84.9	-84.9 0.08 (1)	2.00	48-5	-151 / 0	0.04 (1)
12-13	0 / 15	-84.9	-84.9 0.08 (1)	2.00	49-4	-164 / 0	0.03 (1)
13-14	0 / 15	-84.9	-84.9 0.04 (1)	2.00	50-3	-25 / 0	0.00 (1)
14-15	0 / 15	-84.9	-84.9 0.04 (1)	2.00	35-18	-175 / 0	0.11 (1)
15-16	0 / 15	-84.9	-84.9 0.05 (1)	2.00	34-19	-151 / 0	0.07 (1)
16-17	0 / 15	-84.9	-84.9 0.05 (1)	2.00	33-21	-154 / 0	0.14 (1)
17-18	0 / 10	-77.4	-77.4 0.04 (1)	10.00	32-22	-154 / 0	0.09 (1)
18-19	0 / 18	-77.4	-77.4 0.05 (1)	10.00	31-23	-153 / 0	0.06 (1)
19-20	0 / 14	-77.4	-77.4 0.04 (1)	6.25	30-24	-153 / 0	0.03 (1)
20-21	0 / 14	-77.4	-77.4 0.04 (1)	6.25	29-25	-153 / 0	0.02 (1)
21-22	0 / 13	-77.4	-77.4 0.04 (1)	10.00	28-26	-147 / 0	0.02 (1)
22-23	0 / 10	-77.4	-77.4 0.04 (1)	10.00	52-53	-34 / 5	0.00 (1)
23-24	0 / 8	-77.4	-77.4 0.04 (1)	10.00			
24-25	0 / 4	-77.4	-77.4 0.04 (1)	10.00			
25-26	-2 / 0	-77.4	-77.4 0.04 (1)	10.00			
26-53	-3 / 0	-77.4	-77.4 0.03 (1)	10.00			
53-27	-21 / 0	-77.4	-77.4 0.01 (4)	6.25			
51-50	0 / 0	-17.5	-17.5 0.01 (4)	10.00			
50-49	-1 / 0	-17.5	-17.5 0.01 (4)	10.00			
49-48	-5 / 0	-17.5	-17.5 0.01 (4)	10.00			
48-47	-8 / 0	-17.5	-17.5 0.01 (4)	10.00			
47-46	-11 / 0	-17.5	-17.5 0.01 (4)	6.25			
46-45	-12 / 0	-17.5	-17.5 0.01 (4)	6.25			
45-44	-13 / 0	-17.5	-17.5 0.01 (4)	6.25			
44-43	-14 / 0	-17.5	-17.5 0.01 (4)	6.25			

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 PIGGYBACK TRUSS WITH SLOPES OF 7.00/12 AND -7.00/12 AND RESPECTIVE WALL HEIGHTS OF 0'-0" AND 0'-0" AND AN ADDITIONAL DEAD LOAD OF 3.0 P.S.F.

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

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=0.10/1.00 (1-2:1), BC=0.02/1.00 (28-52:1), WB=0.18/1.00 (8-45:1), SSI=0.08/1.00 (16-17:1)

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 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= 0.50 (17) (INPUT = 0.90)
JSI METAL= 0.06 (35) (INPUT = 1.00)

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.



PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
20	TS-I	MT20	3.0	6.0		
27	TMB1-I	MT20	4.0	6.0	0.25	
28, 29, 30, 31, 32, 33, 34, 36, 37, 38, 39, 40, 41, 43, 44, 45, 46, 47, 48, 49, 50						
28	BMW1+w	MT20	2.0	4.0		
35	BSW1-I	MT20	4.0	6.0		
42	BS-I	MT20	3.0	6.0		
51	BMV1+p	MT20	2.0	4.0		

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

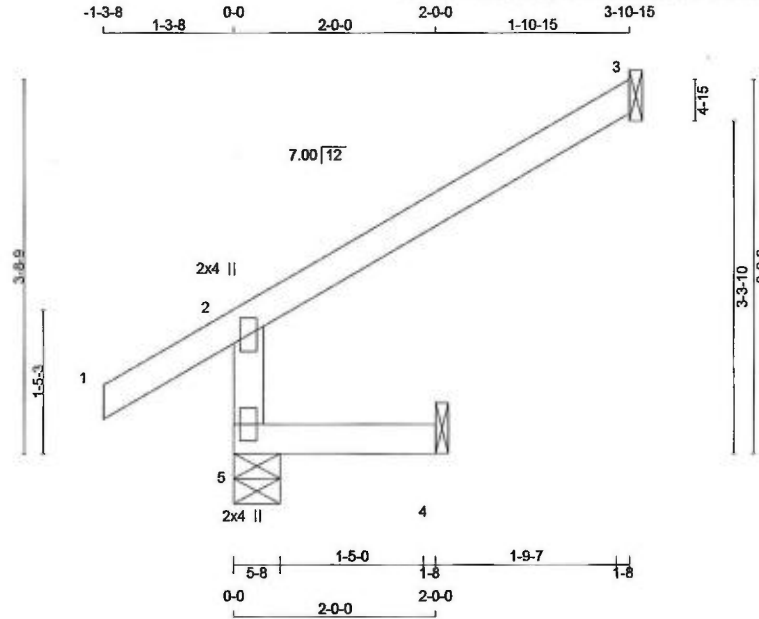
LOADING

TOTAL LOAD CASES: (4)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX (LC)
FR-TO		FROM TO			FR-TO		
43-42	-15 / 0	-17.5 -17.5	0.01 (4)	6.25			
42-41	-15 / 0	-17.5 -17.5	0.01 (4)	6.25			
41-40	-15 / 0	-17.5 -17.5	0.01 (4)	6.25			
40-39	-15 / 0	-17.5 -17.5	0.01 (4)	6.25			
39-38	-15 / 0	-17.5 -17.5	0.01 (4)	6.25			
38-37	-15 / 0	-17.5 -17.5	0.01 (4)	6.25			
37-36	-15 / 0	-17.5 -17.5	0.01 (4)	6.25			
36-35	-15 / 0	-17.5 -17.5	0.01 (4)	6.25			
35-34	-14 / 0	-17.5 -17.5	0.01 (4)	6.25			
34-33	-13 / 0	-17.5 -17.5	0.01 (4)	6.25			
33-32	-11 / 0	-17.5 -17.5	0.01 (4)	6.25			
32-31	-9 / 0	-17.5 -17.5	0.01 (4)	10.00			
31-30	-7 / 0	-17.5 -17.5	0.01 (4)	10.00			
30-29	-3 / 0	-17.5 -17.5	0.01 (4)	10.00			
29-28	0 / 2	-17.5 -17.5	0.01 (4)	10.00			
28-52	0 / 12	-17.5 -17.5	0.02 (1)	10.00			
52-27	0 / 12	-17.5 -17.5	0.02 (1)	10.00			

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THE DESIGN OF THIS COMPONENT.**





TOTAL WEIGHT = 2 X 10 = 21 lb [M]

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	DRY	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	314	0	314	0	5-8	5-8
3	114	0	114	0	1-8	1-8
4	16	0	18	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	216	177 / 0	0 / 0	0 / 0	0 / 0	38 / 0	0 / 0
3	77	68 / 0	0 / 0	0 / 0	0 / 0	9 / 0	0 / 0
4	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) 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: (5)

MEMB.	FR-TO	CHORDS		FACTORED		WEBS		MEMB.	FR-TO
		MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MAX. UNBRACED LENGTH	MAX. FORCE (LBS)	MAX. CSI (LC)		
5-2	-295 / 0	0.0	0.0	0.01 (4)	7.81				
1-2	0 / 27	-77.4	-77.4	0.10 (1)	10.00				
2-3	-19 / 0	-77.4	-77.4	0.20 (1)	6.25				
5-4	0 / 0	-17.5	-17.5	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 = 7.0 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 (0.00")

CSI: TC=0.20/1.00 (2-3:1), BC=0.02/1.00 (4-5:4), WB=0.00/1.00 (n/a:0), SSI=0.13/1.00 (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

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
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

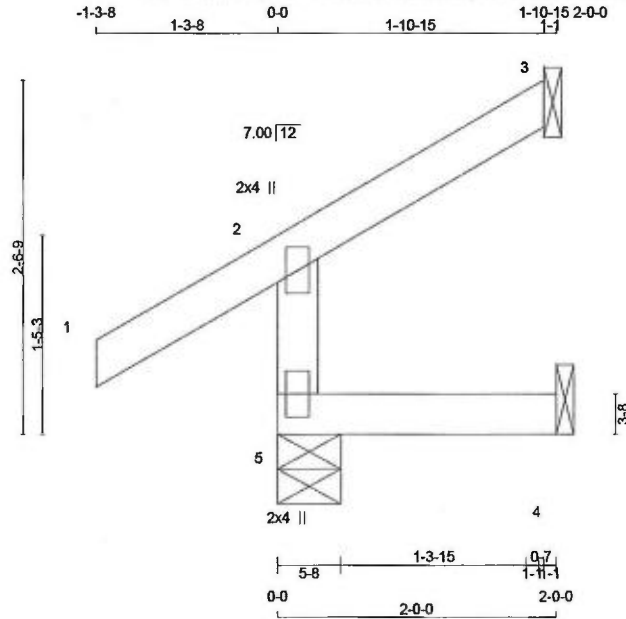
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (2) (INPUT = 0.90)
JSI METAL= 0.07 (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 = 2 X 8 = 16 lb [M]

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	217	0	217	0	5-8	5-8
3	56	0	56	0	1-8	1-8
4	16	0	18	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	
5	149	119 / 0	0 / 0	0 / 0	0 / 0	31 / 0	0 / 0
3	38	34 / 0	0 / 0	0 / 0	0 / 0	4 / 0	0 / 0
4	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) 5, 3

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					WEBS		
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO			FR-TO		
5-2	-197 / 0	0.0	0.0	0.01 (4)	7.81		
1-2	0 / 27	-77.4	-77.4	0.10 (1)	10.00		
2-3	-9 / 0	-77.4	-77.4	0.05 (1)	10.00		
5-4	0 / 0	-17.5	-17.5	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 =	7.0 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 (0.00")

CSI: TC=0.10/1.00 (1-2:1), BC=0.02/1.00 (4-5:4), WB=0.00/1.00 (n/a:0), SSI=0.07/1.00 (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

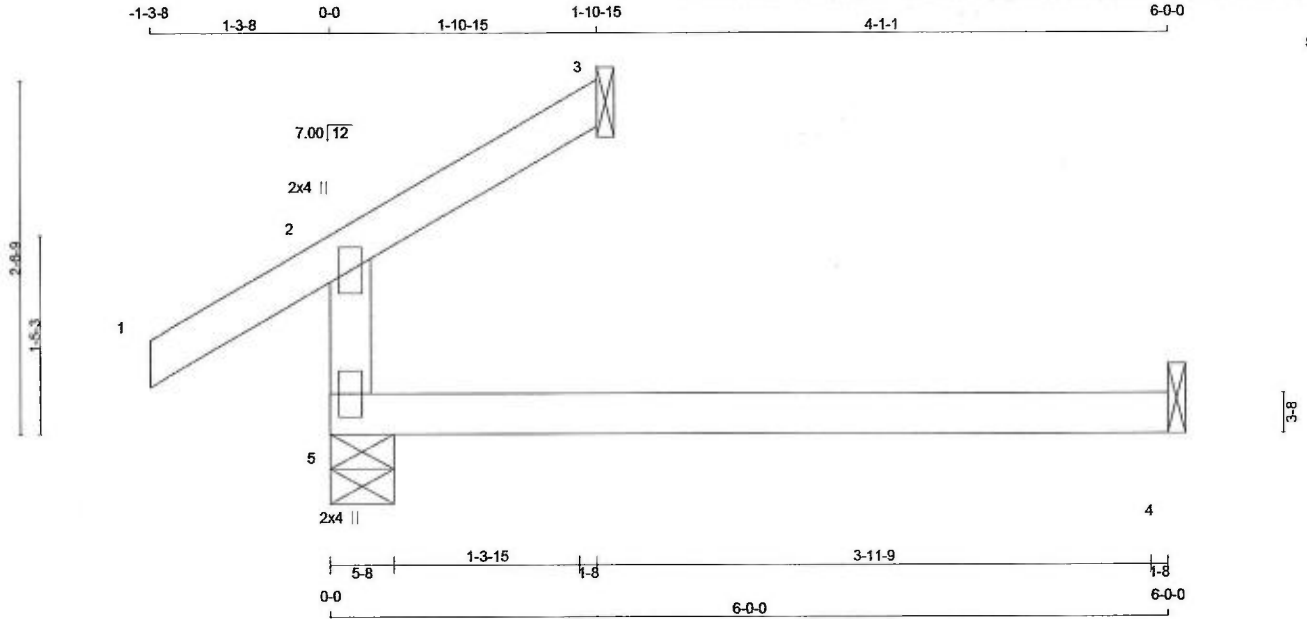
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.12 (2) (INPUT = 0.90)
JSI METAL= 0.05 (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.
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	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	UPLIFT	IN-SX
5	258	0	258	0
3	56	0	56	0
4	44	0	49	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN	COMPONENT REACTIONS	PERM.LIVE	WIND	DEAD	SOIL
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	183	119/0	0/0	0/0	0/0	64/0	0/0
3	38	34/0	0/0	0/0	0/0	4/0	0/0
4	35	0/0	0/0	0/0	0/0	35/0	0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 5, 3

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	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD LC1 MAX (PLF)	MAX. MEMB. FORCE (LBS)	MAX. FORCE (LBS)
FR-TO		FROM TO	UNBRAC LENGTH FR-TO	MAX (LC)
5-2	-197/0	0.0	0.0	0.12 (4)
1-2	0/27	-77.4	-77.4	0.10 (1)
2-3	-9/0	-77.4	-77.4	0.05 (1)
5-4	0/0	-17.5	-17.5	0.13 (4)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3	PSF
DL = 3.0	PSF	
BOT CH.	LL = 0.0	PSF
DL = 7.0	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 (0.20")
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=0.12/1.00 (2-5:4), BC=0.13/1.00 (4-5:4),
WB=0.00/1.00 (n/a:0), SSI=0.08/1.00 (4-5:4)

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

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

PLATE PLACEMENT TOL. = 0.250 inches

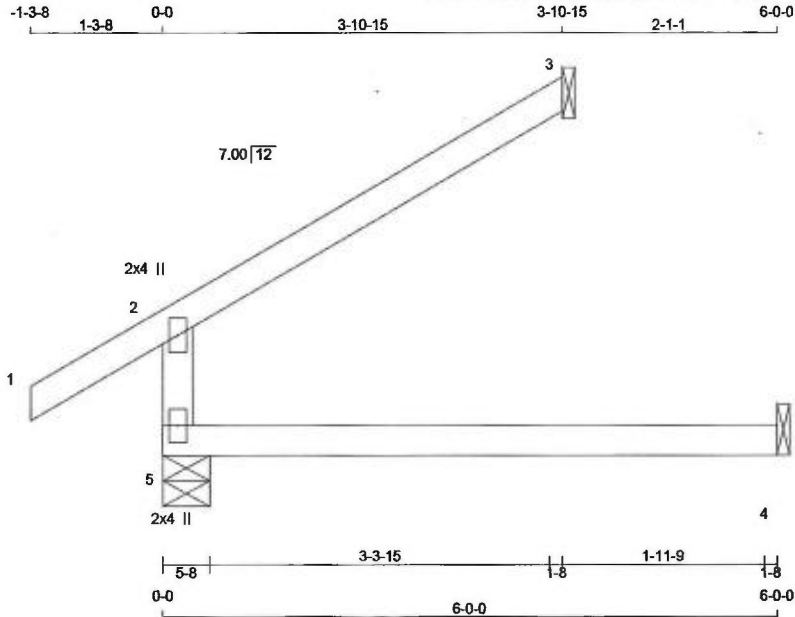
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.12 (2) (INPUT = 0.90)
JSI METAL= 0.05 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 2 X 15 = 30 lb [M]

LUMBER

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

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 IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
5	356	0	356	0	5-8	5-8
3	114	0	114	0	1-8	1-8
4	44	0	49	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	249	177 / 0	0 / 0	0 / 0	0 / 0	72 / 0	0 / 0
3	77	68 / 0	0 / 0	0 / 0	0 / 0	9 / 0	0 / 0
4	35	0 / 0	0 / 0	0 / 0	0 / 0	35 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 5, 3

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.	FR-TO	CHORDS		FACTORED		WEBS		MEMB.	FR-TO
		MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. FORCE (LBS)	VERT. LOAD (PLF)		
5-2	-295 / 0	0.0	0.0	0.12 (4)	7.81				
1-2	0 / 27	-77.4	-77.4	0.10 (1)	10.00				
2-3	-19 / 0	-77.4	-77.4	0.20 (1)	6.25				
5-4	0 / 0	-17.5	-17.5	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	= 7.0	PSF
TOTAL LOAD	= 33.3	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

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=0.20/1.00 (2-3:1), BC=0.13/1.00 (4-5:4), WB=0.00/1.00 (n/a:0), SSI=0.13/1.00 (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

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

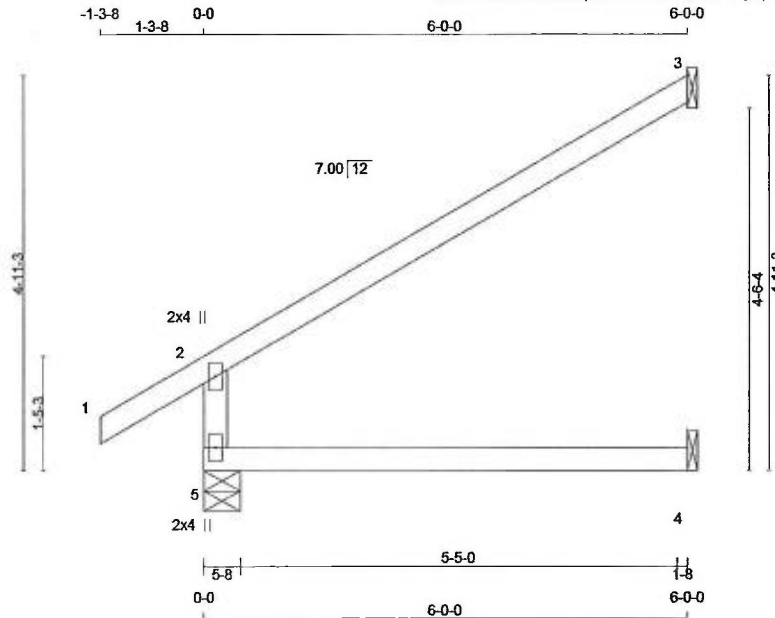
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (2) (INPUT = 0.90)
JSI METAL= 0.07 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 12 X 18 = 213 lb

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER
5 - 2	2x4	DRY No.2
1 - 3	2x4	DRY No.2
5 - 4	2x4	DRY No.2

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	457	0	457	0	5-8	5-8
3	174	0	174	0	1-8	1-8
4	44	0	49	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	318	238 / 0	0 / 0	0 / 0	0 / 0	79 / 0	0 / 0
3	118	105 / 0	0 / 0	0 / 0	0 / 0	14 / 0	0 / 0
4	35	0 / 0	0 / 0	0 / 0	0 / 0	35 / 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		FACTORED		WEBS	
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MAX. FORCE (LBS)	MAX. UNBRACED LENGTH (LC)
FR-TO						
5-2	-396 / 0	0.0	0.0	0.12 (4)	7.81	
1-2	0 / 27	-77.4	-77.4	0.10 (1)	10.00	
2-3	-29 / 0	-77.4	-77.4	0.47 (1)	6.25	
5-4	0 / 0	-17.5	-17.5	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 = 7.0 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 (0.20")
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=0.47/1.00 (2-3:1), BC=0.13/1.00 (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

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

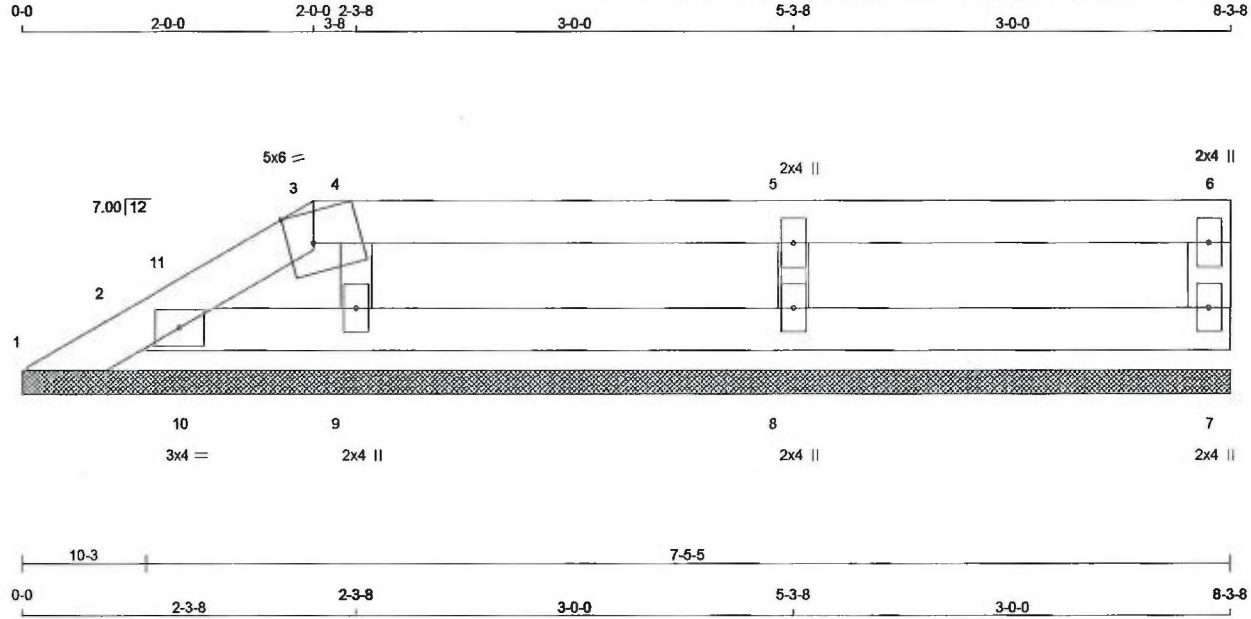
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.24 (2) (INPUT = 0.90)
JSI METAL= 0.09 (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 = 2 X 20 = 39 lb [M]

LUMBER					
N. L. G. A. RULES					
CHORDS		SIZE	LUMBER		DESCR.
1 - 3	2x4	DRY	No.2		SPF
3 - 6	2x4	DRY	No.2		SPF
7 - 6	2x4	DRY	No.2		SPF
2 - 7	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 3-0-0 OC.					

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMB1-I	MT20	3.0	4.0		
3						
3	TTW-m	MT20	5.0	6.0	Edge	2.00
4						
4	TMW+w	MT20	2.0	4.0		
6	TMV+p	MT20	2.0	4.0		
7	BMV1+p	MT20	2.0	4.0		
8	BMW1+w	MT20	2.0	4.0		
9	BMW1+w	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

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): 7, 8, 9

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 = 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	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH
FR-TO		FROM TO	CSI (LC)	FR-TO		FROM TO	CSI (LC)
1-2	0 / 2	-94.9	-94.9 0.01 (1)	10.00	8-5	-282 / 0	0.04 (1)
2-11	-25 / 0	-77.4	-77.4 0.02 (1)	6.25	9-4	-162 / 0	0.02 (1)
11-3	0 / 7	-77.4	-77.4 0.02 (1)	10.00	10-11	0 / 12	0.00 (1)
3-4	0 / 2	-77.4	-77.4 0.02 (1)	10.00			
4-5	0 / 0	-77.4	-77.4 0.11 (1)	10.00			
5-6	0 / 0	-77.4	-77.4 0.11 (1)	10.00			
7-6	-89 / 0	0.0	0.0 0.01 (1)	7.81			
2-10	0 / 0	-17.5	-17.5 0.00 (1)	10.00			
10-9	0 / 0	-17.5	-17.5 0.02 (4)	10.00			
9-8	0 / 0	-17.5	-17.5 0.04 (4)	10.00			
8-7	0 / 0	-17.5	-17.5 0.04 (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

CSI: TC=0.11/1.00 (4-5:1), BC=0.04/1.00 (8-9:4), WB=0.04/1.00 (5-8:1), SSI=0.11/1.00 (5-6:1)

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

PLATE PLACEMENT TOL. = 0.250 inches

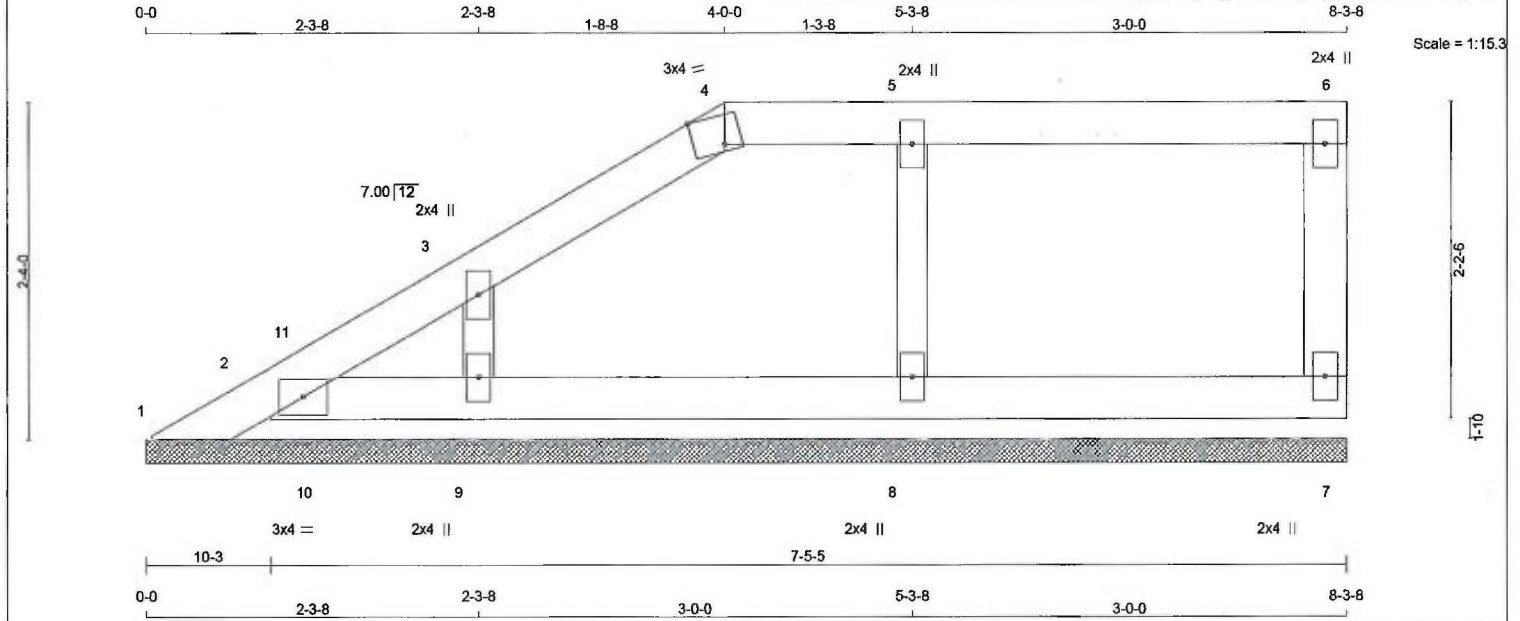
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.15 (5) (INPUT = 0.90)
JSI METAL= 0.05 (8) (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 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
2 - 7	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 3-0-0 OC.				

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMB1-I	MT20	3.0	4.0	
3	TMW+w	MT20	2.0	4.0	
4	TT-m	MT20	3.0	4.0	Edge 2.50
5	TMW+w	MT20	2.0	4.0	
6	TMV+p	MT20	2.0	4.0	
7	BMV1+p	MT20	2.0	4.0	
8	BMW1+w	MT20	2.0	4.0	
9	BMW1+w	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

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): 7, 8, 9
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 = 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)	
1-2	0 / 0	-94.9	-94.9 0.01 (1)	10.00	8-5	-285 / 0	0.04 (1)
2-11	-29 / 0	-77.4	-77.4 0.01 (1)	6.25	9-3	-203 / 0	0.03 (1)
11-3	0 / 14	-77.4	-77.4 0.09 (1)	10.00	10-11	0 / 30	0.00 (1)
3-4	-18 / 0	-77.4	-77.4 0.09 (1)	6.25			
4-5	0 / 0	-77.4	-77.4 0.15 (1)	10.00			
5-6	0 / 0	-77.4	-77.4 0.15 (1)	10.00			
7-6	-80 / 0	0.0	0.0 0.01 (1)	7.81			
2-10	0 / 18	-17.5	-17.5 0.01 (1)	10.00			
10-9	0 / 18	-17.5	-17.5 0.02 (4)	10.00			
9-8	0 / 0	-17.5	-17.5 0.04 (4)	10.00			
8-7	0 / 0	-17.5	-17.5 0.04 (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

CSI: TC=0.15/1.00 (4-5:1), BC=0.04/1.00 (7-8:4), WB=0.04/1.00 (5-8:1), SSI=0.12/1.00 (5-6:1)

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
MT20	618	354	1667	822	2284

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

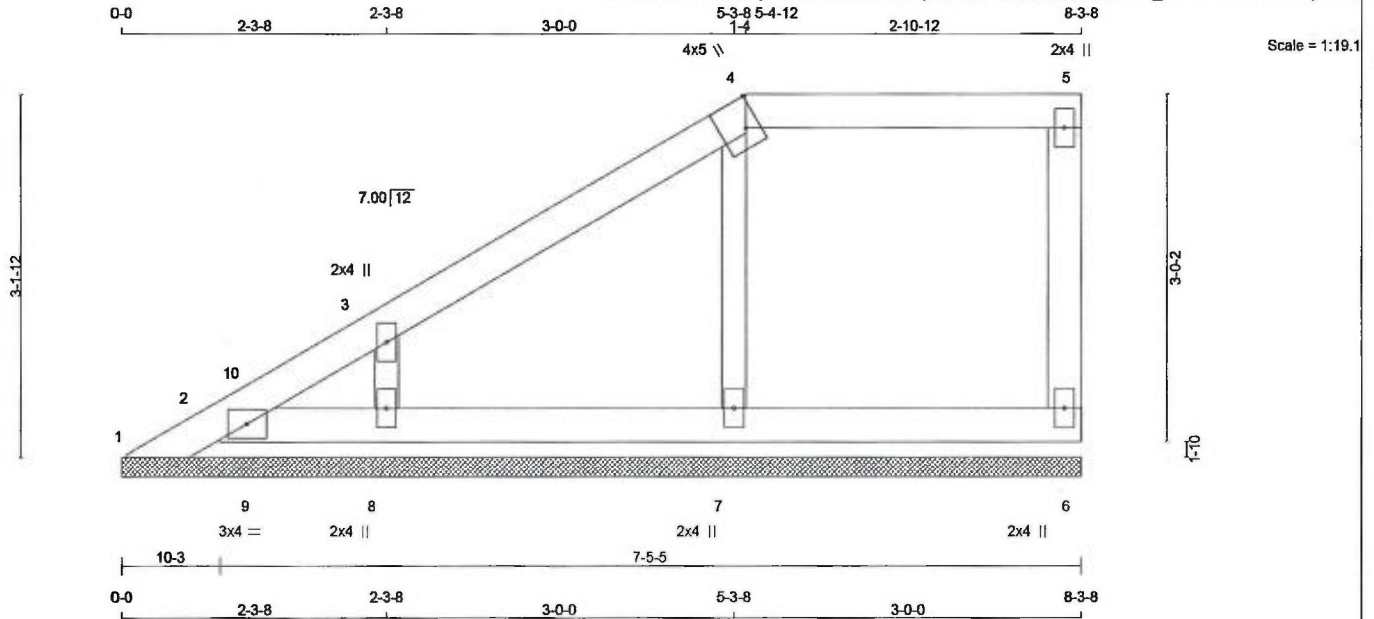
JSI GRIP= 0.15 (8) (INPUT = 0.90)

JSI METAL= 0.05 (8) (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 = 24 lb
(M)

LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 5	2x4	DRY	No.2	SPF
6 - 5	2x4	DRY	No.2	SPF
2 - 6	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 3'-0" OC.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMB1-I	MT20	3.0	4.0		
3	TMW+w	MT20	2.0	4.0		
4	TTW+h	MT20	4.0	5.0	Edge 1.50	
5	TMV+p	MT20	2.0	4.0		
6	BMV1+p	MT20	2.0	4.0		
7	BMW1+w	MT20	2.0	4.0		
8	BMW1+w	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

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): 6, 7, 8
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 = 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)	MAX. FACTORED CSI (LC)
FR-TO		FROM TO			FR-TO		
1-2	-2 / 0	-94.9 -94.9	0.01 (1)	10.00	7-4	-216 / 0	0.04 (1)
2-10	-23 / 0	-77.4 -77.4	0.01 (1)	6.25	8-3	-255 / 0	0.04 (1)
10-3	0 / 25	-77.4 -77.4	0.11 (1)	10.00	9-10	0 / 40	0.00 (1)
3-4	-2 / 0	-77.4 -77.4	0.10 (1)	10.00			
4-5	0 / 0	-77.4 -77.4	0.11 (1)	10.00			
6-5	-112 / 0	0.0 0.0	0.02 (1)	7.81			
2-9	0 / 14	-17.5 -17.5	0.01 (1)	10.00			
9-8	0 / 14	-17.5 -17.5	0.02 (4)	10.00			
8-7	-8 / 0	-17.5 -17.5	0.04 (4)	10.00			
7-6	0 / 0	-17.5 -17.5	0.04 (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

CSI: TC=0.11/1.00 (4-5:1), BC=0.04/1.00 (7-8:4), WB=0.04/1.00 (4-7:1), SSI=0.10/1.00 (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

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
MT20	618	354	1667	822
				2284
				1656

PLATE PLACEMENT TOL. = 0.250 inches

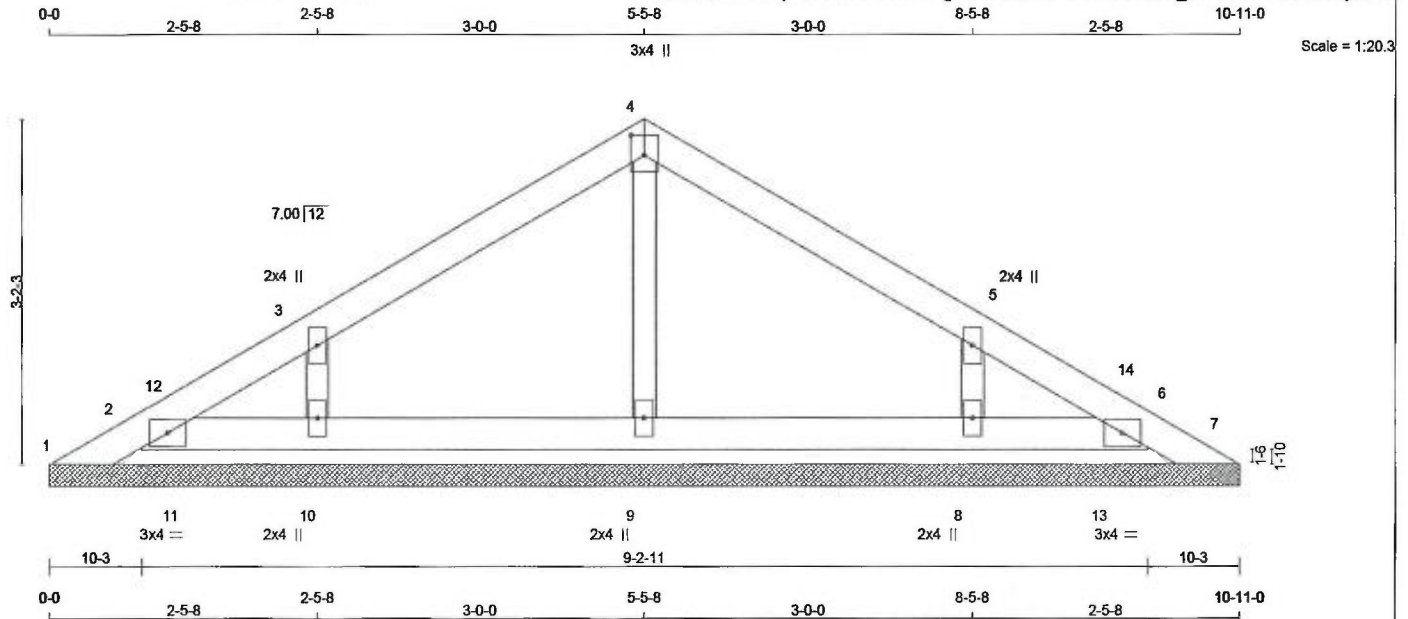
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (4) (INPUT = 0.90)
JSI METAL= 0.06 (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 = 28 lb
[M]

LUMBER					
N. L. G. A. RULES					
CHORDS		SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY		No.2	SPF
4 - 7	2x4	DRY		No.2	SPF
2 - 6	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 3-0-0 O.C.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
2 TMB1-I	MT20	3.0	4.0		
3 TMW+w	MT20	2.0	4.0		
4 TTW+p	MT20	3.0	4.0	2.25	1.50
5 TMW+w	MT20	2.0	4.0		
6 TMB1-I	MT20	3.0	4.0		
8, 9, 10					
8 BMW1+w	MT20	2.0	4.0		

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): 9, 10, 8

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 = 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. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	UNBRAC LENGTH FR-TO
1-2	0 / 0	-94.9 -94.9	0.01 (1)	10.00	9-4	-165 / 0	0.03 (1)
2-12	-61 / 0	-77.4 -77.4	0.01 (1)	6.25	10-3	-241 / 0	0.03 (1)
12-3	-16 / 0	-77.4 -77.4	0.09 (1)	6.25	8-5	-241 / 0	0.03 (1)
3-4	-38 / 0	-77.4 -77.4	0.09 (1)	6.25	11-12	0 / 27	0.00 (1)
4-5	-38 / 0	-77.4 -77.4	0.09 (1)	6.25	13-14	0 / 27	0.00 (1)
5-14	-16 / 0	-77.4 -77.4	0.09 (1)	6.25			
14-6	-61 / 0	-77.4 -77.4	0.01 (1)	6.25			
6-7	0 / 0	-94.9 -94.9	0.01 (1)	10.00			
2-11	0 / 42	-17.5 -17.5	0.01 (1)	10.00			
11-10	0 / 42	-17.5 -17.5	0.02 (4)	10.00			
10-9	0 / 23	-17.5 -17.5	0.04 (4)	10.00			
9-8	0 / 23	-17.5 -17.5	0.04 (4)	10.00			
8-13	0 / 42	-17.5 -17.5	0.02 (4)	10.00			
13-6	0 / 42	-17.5 -17.5	0.01 (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

CSI: TC=0.09/1.00 (3-4:1), BC=0.04/1.00 (9-10:4), WB=0.03/1.00 (3-10:1), SSI=0.10/1.00 (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

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

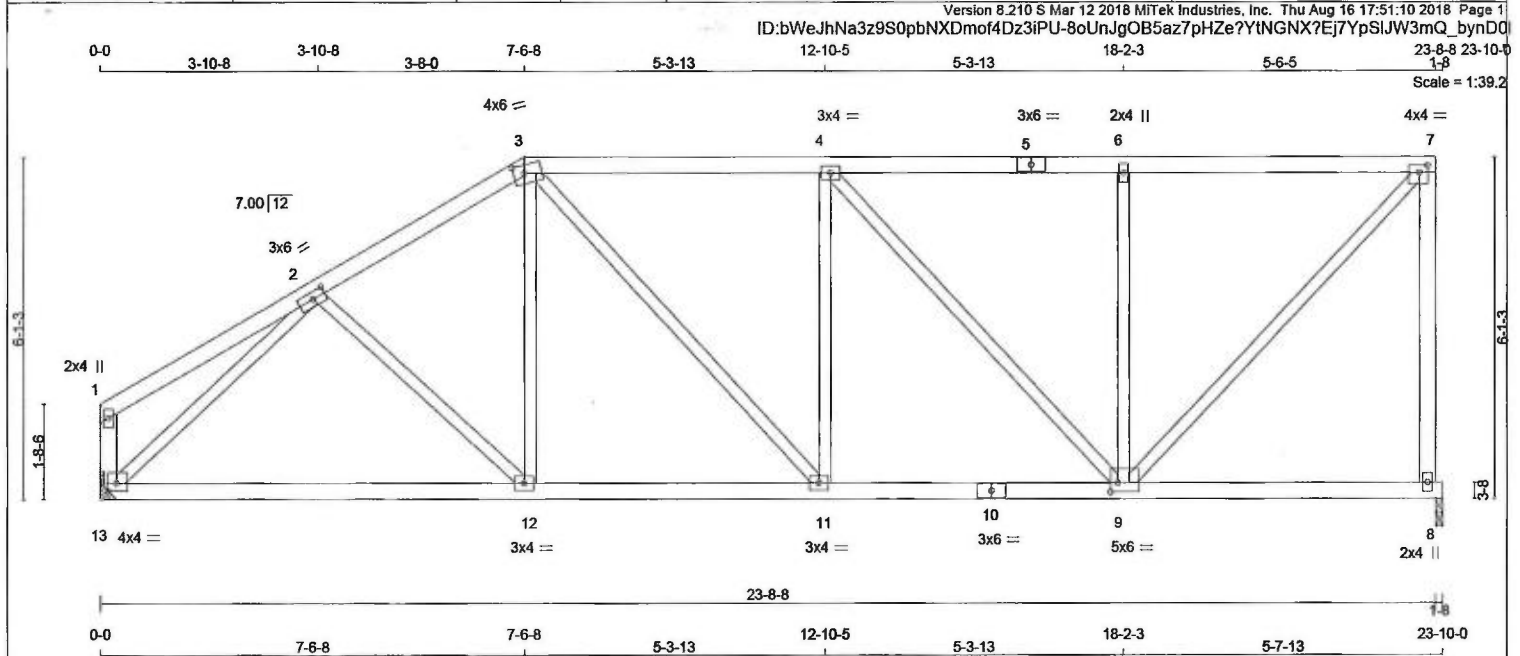
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.16 (3) (INPUT = 0.90)
JSI METAL= 0.06 (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.





LUMBER
N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
1 - 5	2x4	DRY	No.2	SPF
5 - 7	2x4	DRY	No.2	SPF
8 - 7	2x4	DRY	No.2	SPF
13 - 1	2x4	DRY	No.2	SPF
13 - 10	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
1	TMV+p	MT20	2.0	4.0		
2	TMWW-t	MT20	3.0	6.0	1.50	2.75
3	TTWW-m	MT20	4.0	6.0	1.75	2.25
4	TMWW-t	MT20	3.0	4.0		
5	TS-t	MT20	3.0	6.0		
6	TMW+w	MT20	2.0	4.0		
7	TMVW-t	MT20	4.0	4.0	1.50	1.75
8	BMV1+p	MT20	2.0	4.0		
9	BMWW-t	MT20	5.0	6.0	2.00	1.50
10	BS-t	MT20	3.0	6.0		
11	BMWW-t	MT20	3.0	4.0		
12	BMWW-t	MT20	3.0	4.0		
13	BMVW-t	MT20	4.0	4.0	1.75	1.75

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		
8	1124	0	1124	0	1-8	1-8
13	1124	0	1124	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
8	789	552/0	0/0	0/0	0/0	237/0	0/0
13	789	552/0	0/0	0/0	0/0	237/0	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 = 5.47 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)	FACTORED LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED UNBRACED LENGTH	FACTORED MAX CSI (LC)
FR-TO		FROM TO		FR-TO			
1-2	0/16	-77.4	-77.4 0.17 (1)	10-00	2-12	0/56	0.02 (4)
2-3	-1189/0	-77.4	-77.4 0.19 (1)	5.64	12-3	0/131	0.04 (4)
3-4	-1179/0	-77.4	-77.4 0.33 (1)	5.47	3-11	0/244	0.05 (1)
4-5	-868/0	-77.4	-77.4 0.33 (1)	6.12	11-4	-107/47	0.06 (1)
5-6	-868/0	-77.4	-77.4 0.33 (1)	6.12	4-9	-461/0	0.58 (1)
6-7	-868/0	-77.4	-77.4 0.33 (1)	6.12	9-6	-462/0	0.27 (1)
8-7	-1085/0	0.0	0.0 0.78 (1)	7.58	9-7	0/1259	0.28 (1)
13-1	-113/0	0.0	0.0 0.01 (1)	7.81	13-2	-1387/0	0.60 (1)
13-12	0/1005	-17.5	-17.5 0.29 (4)	10.00			
12-11	0/1014	-17.5	-17.5 0.30 (4)	10.00			
11-10	0/1179	-17.5	-17.5 0.26 (1)	10.00			
10-9	0/1179	-17.5	-17.5 0.26 (1)	10.00			
9-8	0/0	-17.5	-17.5 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 = 7.0 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 (0.79")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.79")
CALCULATED VERT. DEFL.(TL) = L/999 (0.12")

CSI: TC=0.78/1.00 (7-8:1), BC=0.30/1.00 (11-12:4), WB=0.60/1.00 (2-13:1), SSI=0.20/1.00 (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

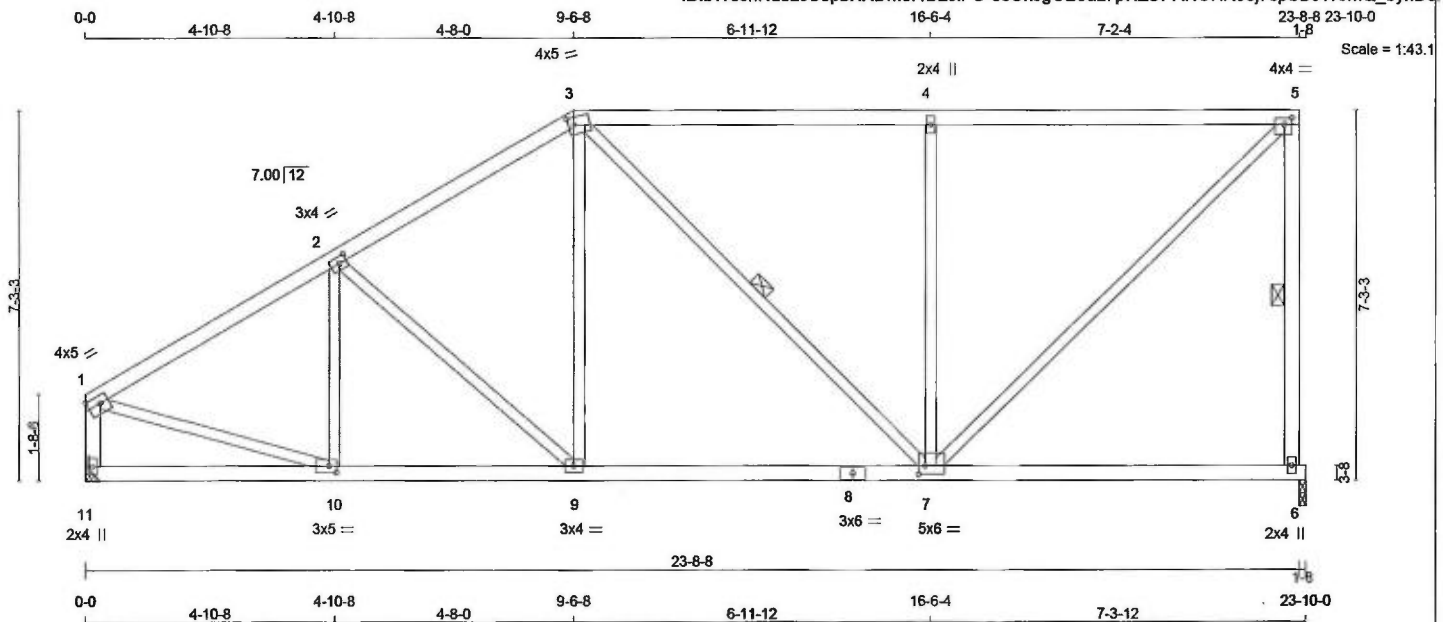
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (2) (INPUT = 0.90)
JSI METAL= 0.38 (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 = 103 lb

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE		LUMBER	DESCR
1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
6 - 5	2x4	DRY	No.2	SPF
11 - 1	2x4	DRY	No.2	SPF
11 - 8	2x4	DRY	No.2	SPF
8 - 6	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
1	TMWV-t	MT20	4.0	5.0	1.75	Edge
2	TMWV-t	MT20	3.0	4.0	1.50	1.75
3	TTWV-m	MT20	4.0	5.0	1.75	1.25
4	TMW+v	MT20	2.0	4.0		
5	TMWV-t	MT20	4.0	4.0	1.50	1.75
6	BMV1+p	MT20	2.0	4.0		
7	BMVWWW-t	MT20	5.0	6.0	2.00	1.50
8	BS-t	MT20	3.0	6.0		
9	BMVWV-t	MT20	3.0	4.0		
10	BMVWV-t	MT20	3.0	5.0	1.50	1.75
11	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	REQRD		
GROSS REACTION			GROSS REACTION			BRG	BRG		
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
6	1124	0	1124	0	0	1-8	1-8		
11	1125	0	1125	0	0	MECHANICAL			

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 11 TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
6	789	552 / 0	0 / 0	0 / 0	0 / 0	237 / 0	0 / 0
11	789	552 / 0	0 / 0	0 / 0	0 / 0	237 / 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 = 5.22 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 5-6, 3-7. DBS = 20-0-0 . CBF = 134 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		MAX. UNBRAC	MEMB.	MAX. FACTORED	FORCE (LBS)	MAX CSI (LC)
	VERT. LOAD		LC1	MAX CSI (LC)			FR-TO		
FR-TO	FROM	TO	FROM	TO	LENGTH	FR-TO	FROM	TO	LENGTH
1-2	-1235 / 0	-77.4	-77.4	0.33 (1)	5.37	10-2	-222 / 11	0.07 (1)	
2-3	-1094 / 0	-77.4	-77.4	0.32 (1)	5.63	2-9	-215 / 0	0.16 (1)	
3-4	-888 / 0	-77.4	-77.4	0.72 (1)	5.24	9-3	0 / 242	0.05 (1)	
4-5	-888 / 0	-77.4	-77.4	0.73 (1)	5.22	3-7	-56 / 0	0.04 (1)	
6-5	-1074 / 0	0.0	0.0	0.26 (1)	6.09	7-4	-681 / 0	0.63 (1)	
11-1	-1087 / 0	0.0	0.0	0.12 (1)	7.58	7-5	0 / 1238	0.28 (1)	
						1-10	0 / 1129	0.25 (1)	
11-10	0 / 0	-17.5	-17.5	0.09 (4)	10.00				
10-9	0 / 1086	-17.5	-17.5	0.24 (1)	10.00				
9-8	0 / 928	-17.5	-17.5	0.29 (4)	10.00				
8-7	0 / 928	-17.5	-17.5	0.29 (4)	10.00				
7-6	0 / 0	-17.5	-17.5	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 =	7.0	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 (0.79")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.79")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.09")

CSI: TC=0.73/1.00 (4-5:1), BC=0.29/1.00 (7-9:4),
WB=0.63/1.00 (4-7:1), SSI=0.27/1.00 (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

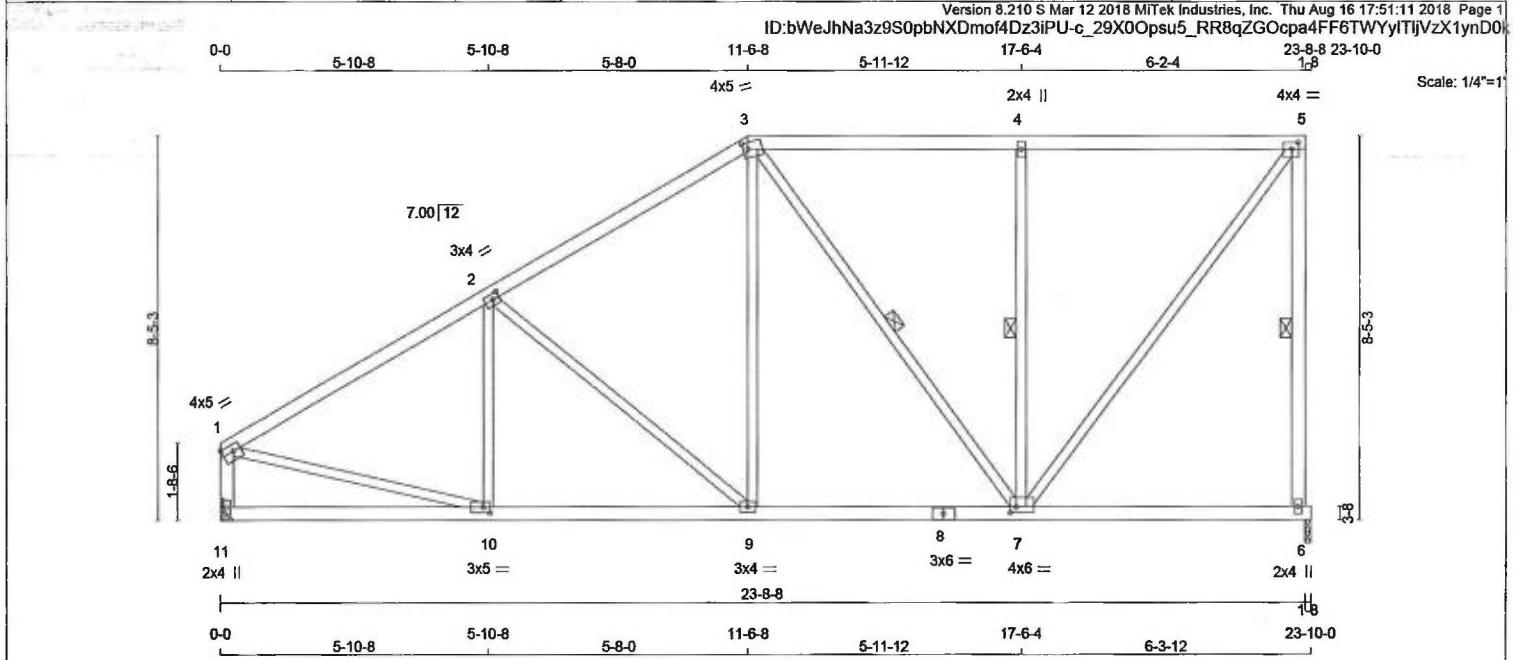
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (10) (INPUT = 0.90)
JSI METAL= 0.40 (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.**





LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
6 - 5	2x4	DRY	No.2	SPF
11 - 1	2x4	DRY	No.2	SPF
11 - 8	2x4	DRY	No.2	SPF
8 - 6	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
1	TMVW-t	MT20	4.0	5.0	1.75	Edge
2	TMWW-t	MT20	3.0	4.0	1.50	1.75
3	TTWW-m	MT20	4.0	5.0	1.75	1.25
4	TMW-w	MT20	2.0	4.0		
5	TMVW-t	MT20	4.0	4.0	1.75	1.75
6	BMV1+p	MT20	2.0	4.0		
7	BMWWW-t	MT20	4.0	6.0	1.50	1.50
8	BS-t	MT20	3.0	6.0		
9	BMWW-t	MT20	3.0	4.0		
10	BMWW-t	MT20	3.0	5.0	1.50	1.75
11	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

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX
6	1125	0	1125	0	0	1-8
11	1125	0	1125	0	0	MECHANICAL

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 11 TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX/MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	SNOW	LIVE	PERM.LIVE	WIND			
6	789	552 / 0	0 / 0	0 / 0	0 / 0	237 / 0	0 / 0
11	789	552 / 0	0 / 0	0 / 0	0 / 0	237 / 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 = 5.08 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 5-6, 3-7, 4-7. DBS = 20-0-0. CBF = 135 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			
1-2	-1256 / 0	-77.4 -77.4	0.51 (1)	5.08	10-2	-148 / 53	0.06 (1)
2-3	-979 / 0	-77.4 -77.4	0.48 (1)	5.61	2-9	-374 / 0	0.42 (1)
3-4	-682 / 0	-77.4 -77.4	0.50 (1)	6.25	9-3	0 / 336	0.08 (1)
4-5	-682 / 0	-77.4 -77.4	0.51 (1)	6.25	3-7	-241 / 0	0.18 (1)
6-5	-1080 / 0	0.0 0.0	0.35 (1)	6.08	7-4	-584 / 0	0.26 (1)
11-1	-1082 / 0	0.0 0.0	0.12 (1)	7.59	7-5	0 / 1127	0.25 (1)
					1-10	0 / 1139	0.26 (1)
11-10	0 / 0	-17.5 -17.5	0.14 (4)	10.00			
10-9	0 / 1108	-17.5 -17.5	0.25 (1)	10.00			
9-8	0 / 825	-17.5 -17.5	0.22 (4)	10.00			
8-7	0 / 825	-17.5 -17.5	0.22 (4)	10.00			
7-6	0 / 0	-17.5 -17.5	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 = 7.0 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, 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 (0.79")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.79")
CALCULATED VERT. DEFL.(TL) = L/999 (0.08")

CSI: TC=0.51/1.00 (1-2:1), BC=0.25/1.00 (9-10:1), WB=0.42/1.00 (2-9:1), SSI=0.23/1.00 (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.

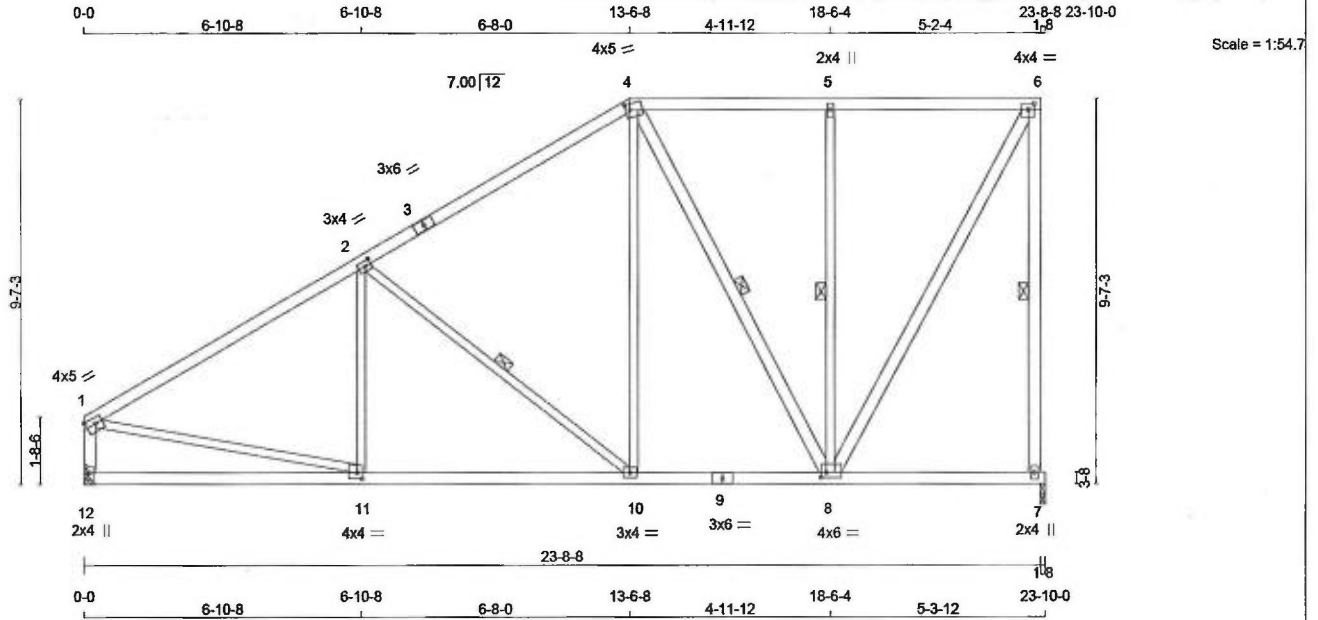
JSI GRIP= 0.90 (10) (INPUT = 0.90)
JSI METAL= 0.41 (1) (INPUT = 1.00)



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.



Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 17:51:11 2018 Page 1
ID: bWeJhNa3z9S0pbNXDmof4Dz3iPU-c_29X0Opsu5_RR8qZG0cpa4E66SwY_gTijVzX1ynD0k



TOTAL WEIGHT = 123 lb [M][F]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
1	TMVW-1	MT20	4.0	5.0	1.75 Edge
2	TMVW-1	MT20	3.0	4.0	1.50 1.75
3	TS-1	MT20	3.0	6.0	
4	TTWW-m	MT20	4.0	5.0	1.75 1.25
5	TMVW-w	MT20	2.0	4.0	
6	TMVW-1	MT20	4.0	4.0	1.75 1.75
7	BMV1+p	MT20	2.0	4.0	
8	BMVWW-1	MT20	4.0	6.0	1.50 1.50
9	BS-1	MT20	3.0	6.0	
10	BMVWW-1	MT20	3.0	4.0	
11	BMVWW-1	MT20	4.0	4.0	1.75 1.50
12	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		REQRD	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	DOWN	BRG	IN-SX	BRG	IN-SX
7	1125	0	1125	0	0	1-8	1-8		
12	1124	0	1124	0	0	MECHANICAL			

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 12 TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
7	789	552/0	0/0	0/0	0/0	237/0	0/0
12	789	552/0	0/0	0/0	0/0	237/0	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 = 5.08 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 6-7, 2-10, 4-8, 5-8. DBS = 20-0-0. CBF = 136 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. CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)	
FR-TO		FROM TO		FR-TO			
1-2	-1256/0	-77.4	-77.4 0.52 (1)	5.08	11-2	-88/89	0.04 (1)
2-3	-847/0	-77.4	-77.4 0.48 (1)	5.94	2-10	-524/0	0.27 (1)
3-4	-847/0	-77.4	-77.4 0.48 (1)	5.94	10-4	0/424	0.10 (1)
4-5	-520/0	-77.4	-77.4 0.26 (1)	6.25	4-8	-398/0	0.23 (1)
5-6	-520/0	-77.4	-77.4 0.26 (1)	6.25	8-5	-487/0	0.30 (1)
7-6	-1087/0	0.0	0.0 0.48 (1)	6.08	8-6	0/1067	0.17 (1)
12-1	-1076/0	0.0	0.0 0.11 (1)	7.61	1-11	0/1135	0.26 (1)
12-11	0/0	-17.5	-17.5 0.21 (4)	10.00			
11-10	0/1113	-17.5	-17.5 0.29 (1)	10.00			
10-9	0/708	-17.5	-17.5 0.17 (1)	10.00			
9-8	0/708	-17.5	-17.5 0.17 (1)	10.00			
8-7	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

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 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 (0.79")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL) = L/360 (0.79")
CALCULATED VERT. DEFL.(TL) = L/999 (0.09")

CSI: TC=0.52/1.00 (1-2:1), BC=0.29/1.00 (10-11:1), WB=0.30/1.00 (5-8:1), SSI=0.22/1.00 (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)	(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.

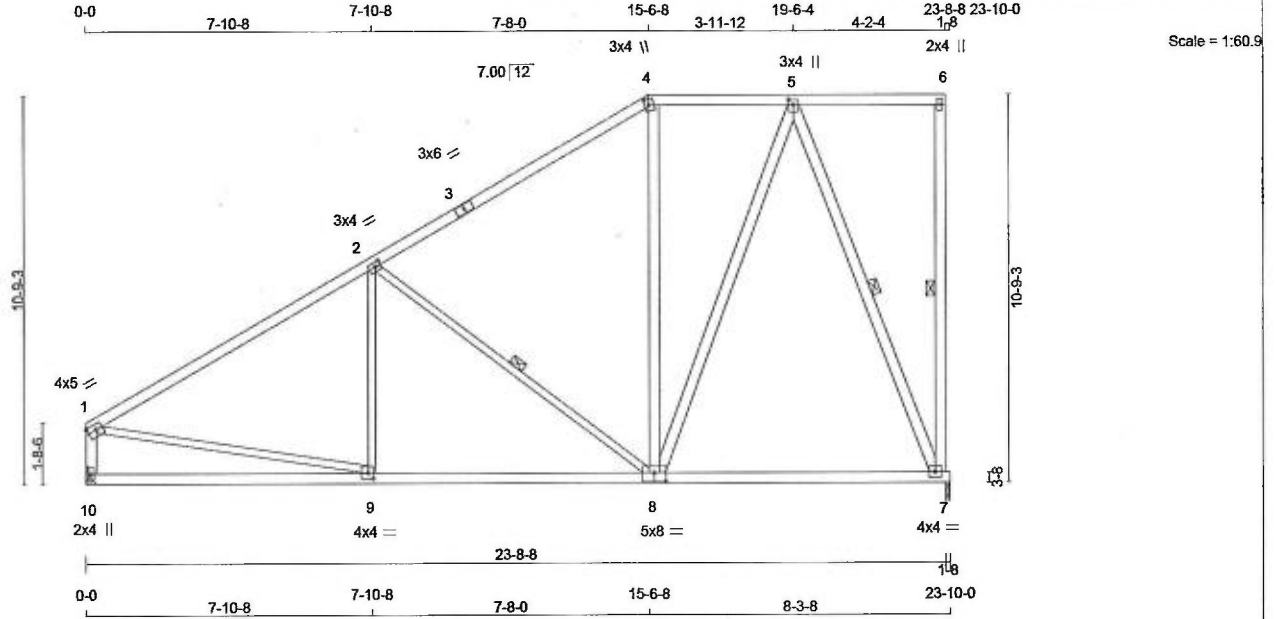
JSI GRIP= 0.88 (1) (INPUT = 0.90)
JSI METAL= 0.42 (11) (INPUT = 1.00)



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.



Version 8.210 5 Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 17:51:12 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-4BcXkMPRcBDr2bj17zwrMocMvWnlHK2c_NFW3TynD0



TOTAL WEIGHT = 4 X 125 = 501 lb [M]F

LUMBER			
N.L.G.A. RULES	CHORDS	SIZE	LUMBER
1 - 3	2x4	DRY	No.2
3 - 4	2x4	DRY	No.2
4 - 6	2x4	DRY	No.2
7 - 6	2x4	DRY	No.2
10 - 1	2x4	DRY	No.2
10 - 8	2x4	DRY	No.2
8 - 7	2x4	DRY	No.2
ALL WEBS	2x4	DRY	No.2
EXCEPT			
9 - 2	2x3	DRY	No.2
2 - 8	2x3	DRY	No.2
1 - 9	2x3	DRY	No.2

SPF

DRY: SEASONED LUMBER.

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	GROSS REACTION	HORZ	JT	VERT	GROSS REACTION	HORZ	BRG	IN-SX
7	1175	0	1175	0	0	1-8	1-8		
10	1135	0	1135	0	0	MECHANICAL			

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 10 TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS		1ST LCASE		MAX./MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
7	830	552 / 0	0 / 0	0 / 0	278 / 0
10	798	552 / 0	0 / 0	0 / 0	246 / 0

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

BRACING
FOR SECTION 4-6, MAX. PURLIN SPACING = 2.00 FT.
FOR OTHER SECTIONS, TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.71 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 6-7, 2-8, 5-7. DBS = 20-0-0. CBF = 132 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		MEMB.	
MAX. FACTORED	FORCE (LBS)	MAX. FACTORED	FORCE (LBS)
FR-TO	FROM TO	FR-TO	FROM TO
1-2	-1255 / 0	-77.4	-77.4 0.71 (1)
2-3	-728 / 0	-77.4	-77.4 0.64 (1)
3-4	-728 / 0	-77.4	-77.4 0.64 (1)
4-5	-595 / 0	-84.9	-84.9 0.19 (1)
5-6	0 / 0	-84.9	-84.9 0.24 (1)
7-6	-136 / 0	0.0	0.0 0.08 (1)
10-1	-1078 / 0	0.0	0.0 0.12 (1)
10-9	0 / 0	-17.5	-17.5 0.24 (4)
9-8	0 / 1116	-17.5	-17.5 0.34 (4)
8-7	0 / 393	-17.5	-17.5 0.29 (4)

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 PIGGYBACK TRUSS WITH SLOPES OF 7.00/12 AND -7.00/12 AND RESPECTIVE WALL HEIGHTS OF 0-0 AND 0-0 AND AN ADDITIONAL DEAD LOAD OF 3.0 P.S.F.

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 (0.79")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL) = L/360 (0.79")
CALCULATED VERT. DEFL.(TL) = L/999 (0.13")

CSI: TC=0.71/1.00 (1-2:1), BC=0.34/1.00 (8-9:4), WB=0.74/1.00 (5-7:1), SSI=0.25/1.00 (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= 0.89 (9) (INPUT = 0.90)
JSI METAL= 0.42 (1) (INPUT = 1.00)

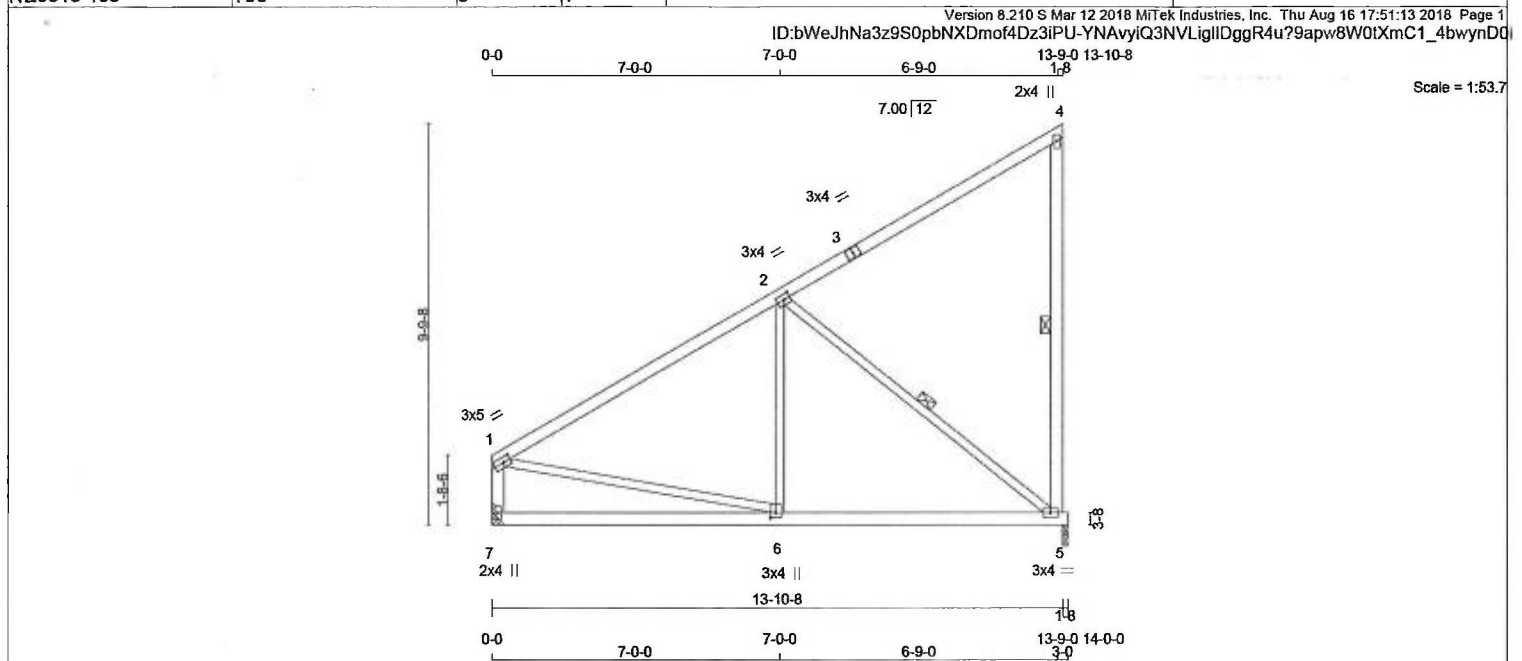
PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
1	TMVW-I	MT20	4.0	5.0	1.75 Edge
2	TMVW-I	MT20	3.0	4.0	1.50 1.75
3	TS-I	MT20	3.0	6.0	
4	TTW+m	MT20	3.0	4.0	2.00 1.25
5	TMVW+I	MT20	3.0	4.0	1.75 1.50
6	TMV+p	MT20	2.0	4.0	
7	BMVW1-I	MT20	4.0	4.0	
8	BSWWW-I	MT20	5.0	8.0	3.00 4.00
9	BMVW-I	MT20	4.0	4.0	1.75 1.75
10	BMV1+p	MT20	2.0	4.0	

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



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 63 = 188 lb

N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
7 - 1	2x4	DRY	No.2 SPF
1 - 3	2x4	DRY	No.2 SPF
3 - 4	2x4	DRY	No.2 SPF
5 - 4	2x4	DRY	No.2 SPF
7 - 5	2x4	DRY	No.2 SPF
ALL WEBS	2x3	DRY	No.2 SPF
DRY: SEASONED LUMBER.			

PLATES (table is in inches)						
JT TYPE	PLATES	W	LEN	Y	X	
1 TMVW-t	MT20	3.0	5.0	1.50	2.00	
2 TMWW-t	MT20	3.0	4.0	1.50	1.75	
3 TS-t	MT20	3.0	4.0			
4 TMV+p	MT20	2.0	4.0			
5 BMVW1-t	MT20	3.0	4.0			
6 BMWW-t	MT20	3.0	4.0	1.50	1.50	
7 BMV1+p	MT20	2.0	4.0			

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NOTE PAGE IS AN INTEGRAL PART OF
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SPECIFICATIONS AND CRITERIA USED IN
THE DESIGN OF THIS COMPONENT.

BUILDING DESIGNER							
BEARINGS				FACTORED			
JT	VERT	HORZ	GROSS REACTION	DOWN	HORZ	UPLIFT	REQRD
7	658	0	658	0	0	MECHANICAL	
5	658	0	658	0	0	1-8	1-8

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

UNFACTORED REACTIONS							
1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
7	462	323 / 0	0 / 0	0 / 0	0 / 0	139 / 0	0 / 0
5	462	323 / 0	0 / 0	0 / 0	0 / 0	139 / 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.

1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-5, 2-5. DBS = 20-0-0. CBF = 83 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 CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX UNBRACED LENGTH FR-TO	MAX CSI (LC)
FR-TO		FROM TO		FR-TO			
7-1	-611 / 0	0.0	0.0 0.07 (1)	1-6	0 / 530	7.81	0.12 (1)
1-2	-568 / 0	-77.4	-77.4 0.50 (1)	6-2	0 / 139	6.25	0.05 (4)
2-3	-34 / 0	-77.4	-77.4 0.49 (1)	2-5	-664 / 0	6.25	0.34 (1)
3-4	-34 / 0	-77.4	-77.4 0.49 (1)				
5-4	-199 / 0	0.0	0.0 0.09 (1)				
7-6	0 / 0	-17.5	-17.5 0.24 (4)			10.00	
6-5	0 / 520	-17.5	-17.5 0.28 (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 (0.46")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.46")
CALCULATED VERT. DEFL.(TL) = L/999 (0.06")

CSI: TC=0.50/1.00 (1-2:1), BC=0.28/1.00 (5-6:4), WB=0.34/1.00 (2-5:1), SSI=0.23/1.00 (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= 0.87 (5) (INPUT = 0.90)
JSI METAL= 0.23 (6) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON
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JT	TYPE	PLATES	W	LEN	Y	X
2	TMWV-I	MT20	4.0	5.0	1.50	2.00
3	TMWV-I	MT20	3.0	4.0	1.50	1.75
4	TTWV-m	MT20	4.0	6.0	1.75	2.25
5	TMW-w	MT20	2.0	4.0		
6	TMWV-I	MT20	4.0	4.0	1.50	1.75
7	BMV1+p	MT20	2.0	4.0		
8	BMWVW-I	MT20	5.0	6.0	2.00	1.50
9	BS-I	MT20	3.0	6.0		
10	BMWV-I	MT20	3.0	4.0		
11	BMWV-I	MT20	4.0	4.0	1.75	1.50
12	BMV1+p	MT20	2.0	4.0		

TOTAL LOAD CASES: (4)

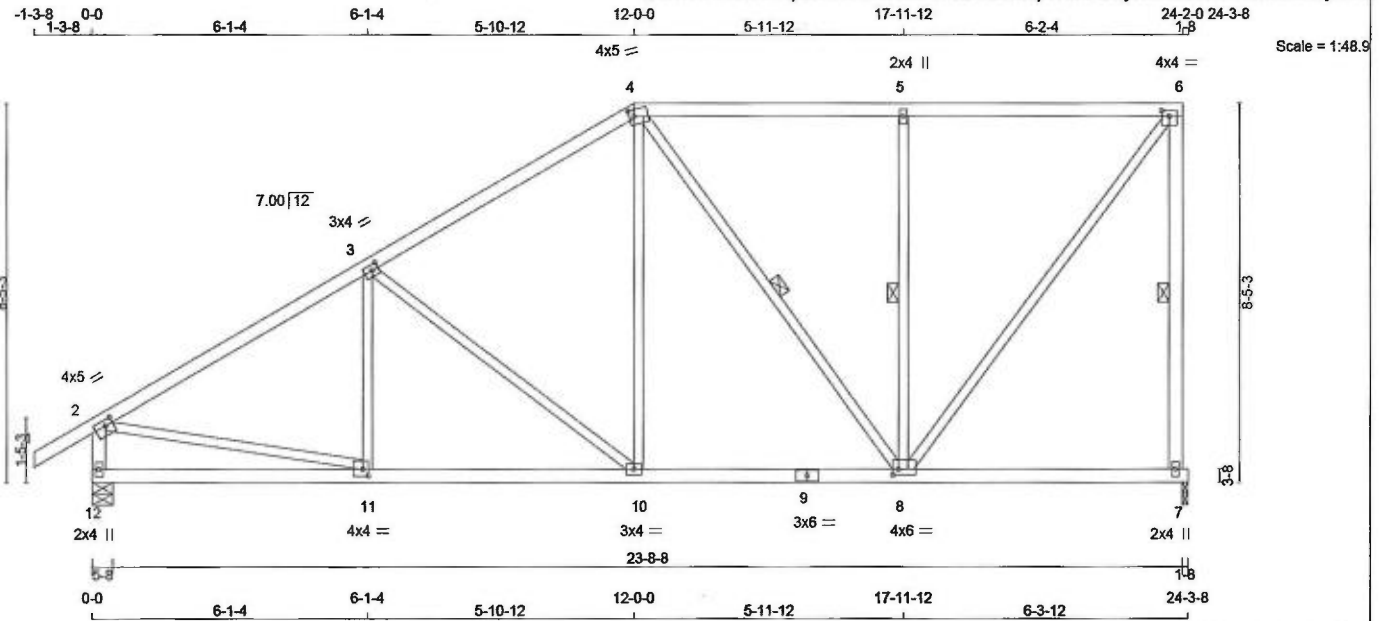
C H O R D S				W E B S			
MAX. FACTORED		FACTORED		MAX. FACTORED			
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC	MEMB.	FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO		LENGTH	FR-TO		
1-2	0 / 27	-77.4	-77.4 0.10 (1)	10.00	11-3	-169 / 30	0.05 (1)
2-3	-1355 / 0	-77.4	-77.4 0.37 (1)	5.13	3-10	-287 / 0	0.22 (1)
3-4	-1146 / 0	-77.4	-77.4 0.36 (1)	5.49	10-4	0 / 283	0.06 (1)
4-5	-911 / 0	-77.4	-77.4 0.72 (1)	5.18	4-8	-87 / 0	0.06 (1)
5-6	-911 / 0	-77.4	-77.4 0.73 (1)	5.18	8-5	-681 / 0	0.63 (1)
7-6	-1096 / 0	0.0	0.0 0.26 (1)	6.04	8-6	0 / 1269	0.29 (1)
12-2	-1213 / 0	0.0	0.0 0.13 (1)	7.27	2-11	0 / 1218	0.27 (1)
12-11	0 / 0	-17.5	-17.5 0.10 (4)	10.00			
11-10	0 / 1190	-17.5	-17.5 0.25 (1)	10.00			
10-9	0 / 973	-17.5	-17.5 0.30 (4)	10.00			
9-8	0 / 973	-17.5	-17.5 0.30 (4)	10.00			
8-7	0 / 0	-17.5	-17.5 0.22 (4)	10.00			

JSI GRIP= 0.89 (8) (INPUT = 0.90)
JSI METAL= 0.45 (2) (INPUT = 1.00)



**READ ALL NOTES ON THIS PAGE AND ON
ENGINEERING NOTE PAGE ENP-1. THIS
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THE DESIGN OF THIS COMPONENT.**





LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
1 - 4	2x4	DRY	No.2
4 - 6	2x4	DRY	No.2
7 - 6	2x4	DRY	No.2
12 - 2	2x4	DRY	No.2
12 - 9	2x4	DRY	No.2
9 - 7	2x4	DRY	No.2

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	5.0	1.50	2.00
3	TMVW-t	MT20	3.0	4.0	1.50	1.75
4	TTWW-m	MT20	4.0	5.0	1.75	1.25
5	TMVW-t	MT20	2.0	4.0		
6	TMVW-t	MT20	4.0	4.0	1.50	2.00
7	BMV1+p	MT20	2.0	4.0		
8	BMVWW-t	MT20	4.0	6.0	1.50	1.50
9	BS-t	MT20	3.0	6.0		
10	BMVWW-t	MT20	3.0	4.0		
11	BMVWW-t	MT20	4.0	4.0	1.75	1.50
12	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	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
7	1146	0	1146	0	1-8	1-8
12	1252	0	1252	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
7	804	563 / 0	0 / 0	0 / 0	0 / 0	242 / 0	0 / 0
12	876	626 / 0	0 / 0	0 / 0	0 / 0	250 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 7, 12

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.85 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 6-7, 4-8, 5-8. DBS = 20-0-0. CBF = 138 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 (LC1)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 27	-77.4 -77.4 0.10 (1)	10.00	11-3	-103 / 71	0.04 (1)	
2-3	-1363 / 0	-77.4 -77.4 0.57 (1)	4.85	3-10	-442 / 0	0.52 (1)	
3-4	-1017 / 0	-77.4 -77.4 0.52 (1)	5.46	10-4	0 / 370	0.08 (1)	
4-5	-698 / 0	-77.4 -77.4 0.50 (1)	6.25	4-8	-269 / 0	0.20 (1)	
5-6	-699 / 0	-77.4 -77.4 0.51 (1)	6.25	8-5	-584 / 0	0.26 (1)	
7-6	-1102 / 0	0.0 0.0 0.36 (1)	6.03	8-6	0 / 1154	0.26 (1)	
12-2	-1208 / 0	0.0 0.0 0.12 (1)	7.28	2-11	0 / 1222	0.27 (1)	
12-11	0 / 0	-17.5 -17.5 0.15 (4)	10.00				
11-10	0 / 1202	-17.5 -17.5 0.27 (1)	10.00				
10-9	0 / 858	-17.5 -17.5 0.22 (4)	10.00				
9-8	0 / 858	-17.5 -17.5 0.22 (4)	10.00				
8-7	0 / 0	-17.5 -17.5 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 = 7.0	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 (0.81")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.81")
CALCULATED VERT. DEFL.(TL) = L/999 (0.09")

CSI: TC=0.57/1.00 (2-3:1), BC=0.27/1.00 (10-11:1), WB=0.52/1.00 (3-10:1), SSI=0.23/1.00 (5-6:1)

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.

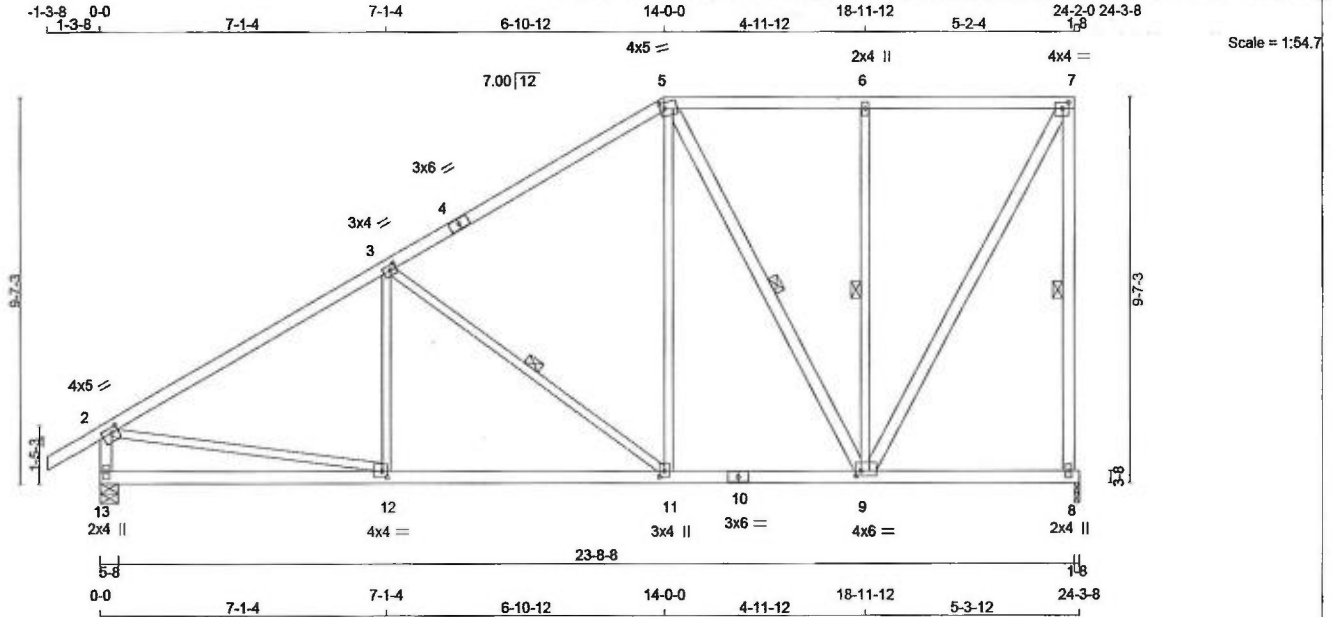
JSI GRIP= 0.89 (2) (INPUT = 0.90)
JSI METAL= 0.46 (2) (INPUT = 1.00)



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.



Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 17:51:15 2018 Page 1
ID:bWeJhNa3z9S0pbNXDmof4Dz3iPU-UmlgMORJv6bQv2Sco5TYzQEvLkqYUnU2gLTAgoynd0g



TOTAL WEIGHT = 125 lb
(M/F)

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	DRY	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF		
4 - 5	2x4	DRY	No.2	SPF		
5 - 7	2x4	DRY	No.2	SPF		
8 - 7	2x4	DRY	No.2	SPF		
13 - 2	2x4	DRY	No.2	SPF		
13 - 10	2x4	DRY	No.2	SPF		
10 - 8	2x4	DRY	No.2	SPF		
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF		
5 - 9	2x4	DRY	No.2	SPF		
9 - 7	2x4	DRY	No.2	SPF		

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-l	MT20	4.0	5.0	1.50	2.00
3	TMWW-l	MT20	3.0	4.0	1.50	1.75
4	TS-l	MT20	3.0	6.0		
5	TTWW-m	MT20	4.0	5.0	1.75	1.25
6	TMW+w	MT20	2.0	4.0		
7	TMVW-l	MT20	4.0	4.0	1.75	1.75
8	BMV1+p	MT20	2.0	4.0		
9	BMWWW-l	MT20	4.0	6.0	1.50	1.50
10	BS-l	MT20	3.0	6.0		
11	BMVW+l	MT20	3.0	4.0	1.75	1.50
12	BMWW-l	MT20	4.0	4.0	1.75	1.50
13	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		
8	1146	0	1146	0	1-8	1-8
13	1252	0	1252	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
8	804	563 / 0	0 / 0	0 / 0	0 / 0	242 / 0	0 / 0
13	876	626 / 0	0 / 0	0 / 0	0 / 0	250 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8, 13

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.86 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.

1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-8, 3-11, 5-9, 6-9. DBS = 20-0-0. CBF = 139 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			
1-2	0 / 27	-77.4 -77.4	0.10 (1)	10.00	12-3	-47 / 105	0.04 (4)
2-3	-1353 / 0	-77.4 -77.4	0.57 (1)	4.86	3-11	-588 / 0	0.31 (1)
3-4	-876 / 0	-77.4 -77.4	0.52 (1)	5.80	11-5	0 / 454	0.10 (1)
4-5	-876 / 0	-77.4 -77.4	0.52 (1)	5.80	5-9	-424 / 0	0.25 (1)
5-6	-532 / 0	-77.4 -77.4	0.26 (1)	6.25	9-6	-487 / 0	0.30 (1)
6-7	-532 / 0	-77.4 -77.4	0.26 (1)	6.25	9-7	0 / 1092	0.18 (1)
8-7	-1108 / 0	0.0 0.0	0.49 (1)	6.02	2-12	0 / 1212	0.27 (1)
13-2	-1202 / 0	0.0 0.0	0.12 (1)	7.29			
13-12	0 / 0	-17.5 -17.5	0.22 (4)	10.00			
12-11	0 / 1197	-17.5 -17.5	0.31 (1)	10.00			
11-10	0 / 732	-17.5 -17.5	0.18 (1)	10.00			
10-9	0 / 732	-17.5 -17.5	0.18 (1)	10.00			
9-8	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.I. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.81")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.81")
CALCULATED VERT. DEFL.(TL) = L/999 (0.10")

CSI: TC=0.57/1.00 (2-3:1), BC=0.31/1.00 (11-12:1), WB=0.31/1.00 (3-11:1), SSI=0.23/1.00 (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

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

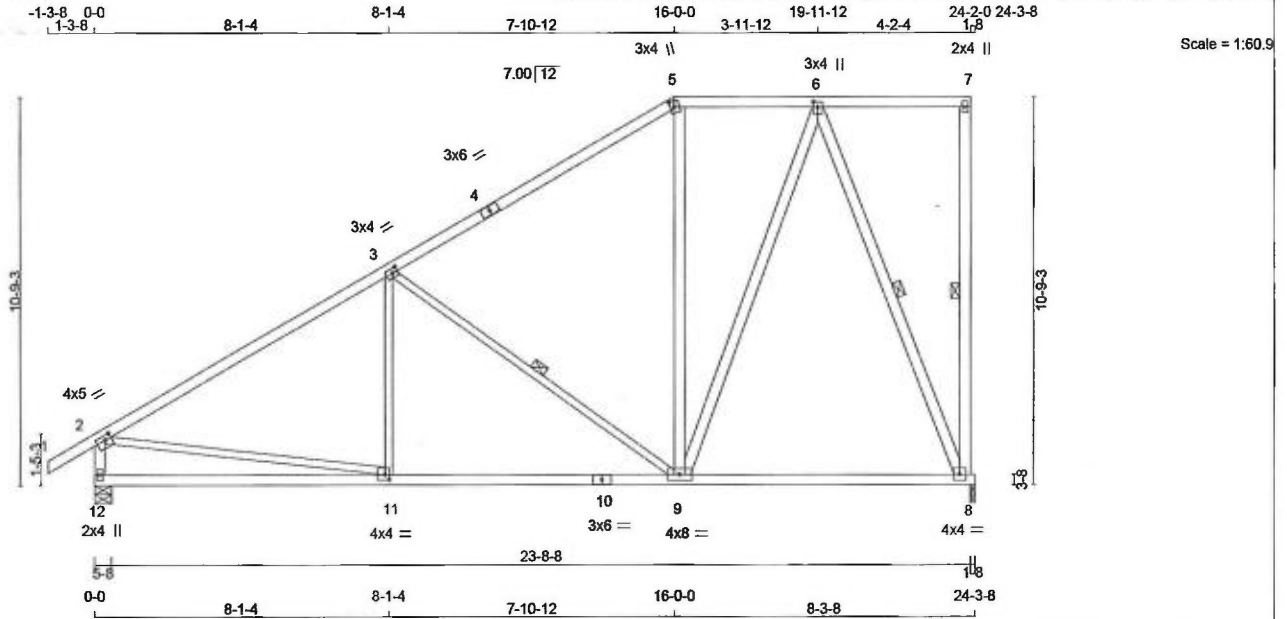
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (2) (INPUT = 0.90)
JSI METAL= 0.46 (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 = 3 X 128 = 384 lb [MJF]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	DRY	No.2	SPF
1 - 4	2x4	DRY	No.2	SPF
4 - 5	2x4	DRY	No.2	SPF
5 - 7	2x4	DRY	No.2	SPF
8 - 7	2x4	DRY	No.2	SPF
12 - 2	2x4	DRY	No.2	SPF
12 - 10	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x4	DRY	No.2	SPF
11 - 3	2x3	DRY	No.2	SPF
3 - 9	2x3	DRY	No.2	SPF
2 - 11	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	5.0	1.50	2.00
3	TMWW-t	MT20	3.0	4.0	1.50	1.75
4	TS-t	MT20	3.0	6.0		
5	TTW+m	MT20	3.0	4.0	2.00	1.25
6	TMWW+t	MT20	3.0	4.0	1.75	1.50
7	TMV+p	MT20	2.0	4.0		
8	BMVW1-t	MT20	4.0	4.0		
9	BMWW-t	MT20	4.0	8.0		
10	BS-t	MT20	3.0	6.0		
11	BMVW-t	MT20	4.0	4.0	1.75	1.50
12	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	UPLIFT	IN-SX
8	1197	0	1197	0	1-8	1-8
12	1262	0	1262	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
8	845	563 / 0	0 / 0	0 / 0	0 / 0	282 / 0	0 / 0
12	884	626 / 0	0 / 0	0 / 0	0 / 0	258 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8, 12

BRACING

FOR SECTION 5-7, MAX. PURLIN SPACING = 2.00 FT.
FOR OTHER SECTIONS, TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.47 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 7-8, 3-9, 6-8. DBS = 20-0-0. CBF = 135 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)	LC1 MAX (LC)	MAX. MEMB. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH
FR-TO		FROM TO			FR-TO		
1-2	0 / 27	-77.4 -77.4	0.10 (1)	10.00	11-3	-12 / 124	0.04 (4)
2-3	-1343 / 0	-77.4 -77.4	0.77 (1)	4.47	3-9	-718 / 0	0.51 (1)
3-4	-748 / 0	-77.4 -77.4	0.69 (1)	5.70	9-5	0 / 68	0.02 (4)
4-5	-748 / 0	-77.4 -77.4	0.69 (1)	5.70	9-6	0 / 612	0.10 (1)
5-6	-612 / 0	-84.9 -84.9	0.19 (1)	2.00	6-8	-1082 / 0	0.76 (1)
6-7	0 / 0	-84.9 -84.9	0.24 (1)	10.00	2-11	0 / 1204	0.27 (1)
8-7	-136 / 0	0.0 0.0	0.08 (1)	6.25			
12-2	-1204 / 0	0.0 0.0	0.12 (1)	7.29			
12-11	0 / 0	-17.5 -17.5	0.26 (4)	10.00			
11-10	0 / 1193	-17.5 -17.5	0.35 (4)	10.00			
10-9	0 / 1193	-17.5 -17.5	0.35 (4)	10.00			
9-8	0 / 402	-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

LOADING IN FLAT SECTION BASED ON PIGGYBACK TRUSS WITH SLOPES OF 7.00/12 AND -7.00/12 AND RESPECTIVE WALL HEIGHTS OF 0-0 AND 0-0 AND AN ADDITIONAL DEAD LOAD OF 3.0 P.S.F.

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 (0.81")
CALCULATED VERT. DEFL.(LL)= L/999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.81")
CALCULATED VERT. DEFL.(TL)= L/999 (0.14")

CSI: TC=0.77/1.00 (2-3:1), BC=0.35/1.00 (9-11:4), WB=0.76/1.00 (6-8:1), SSI=0.26/1.00 (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

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	1687 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

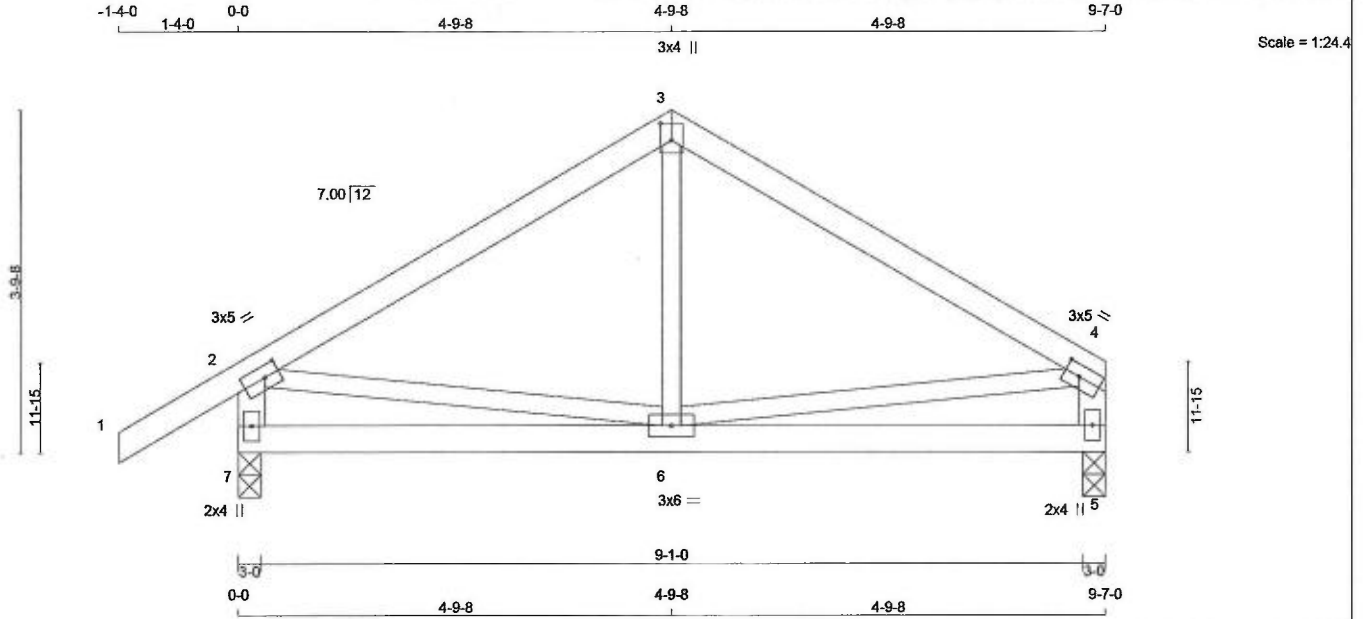
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (2) (INPUT = 0.90)
JSI METAL= 0.47 (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 = 2 X 37 = 73 lb
[M/JF]

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
1 - 3	2x4	DRY	No.2
3 - 4	2x4	DRY	No.2
7 - 2	2x4	DRY	No.2
5 - 4	2x4	DRY	No.2
7 - 5	2x4	DRY	No.2

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	5.0	1.50	2.00
3	TTW+p	MT20	3.0	4.0	2.25	1.50
4	TMVW-t	MT20	3.0	5.0	1.50	2.00
5	BMV1+p	MT20	2.0	4.0		
6	BMWW-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		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
7		563	0	563	0	0	3-0	3-0	
5		455	0	455	0	0	3-0	3-0	

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
7	393	289 / 0	0 / 0	0 / 0	0 / 0	0 / 0	104 / 0	0 / 0
5	319	223 / 0	0 / 0	0 / 0	0 / 0	0 / 0	96 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 7, 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. FACTORED VERT. LOAD LC1 (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD LC1 (LC)
FR-TO		FROM	TO		FR-TO		
1-2	0 / 27	-77.4	-77.4 0.11 (1)	10.00	6-3	0 / 86	0.03 (4)
2-3	-377 / 0	-77.4	-77.4 0.23 (1)	6.25	2-6	0 / 329	0.07 (1)
3-4	-377 / 0	-77.4	-77.4 0.23 (1)	6.25	6-4	0 / 329	0.07 (1)
7-2	-531 / 0	0.0	0.0 0.05 (1)	7.81			
5-4	-422 / 0	0.0	0.0 0.04 (1)	7.81			
7-6	0 / 0	-17.5	-17.5 0.11 (4)	10.00			
6-5	0 / 0	-17.5	-17.5 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	=	7.0	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 (0.32")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.32")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.23/1.00 (2-3:1), BC=0.11/1.00 (6-7:4), WB=0.07/1.00 (4-6:1), SSI=0.12/1.00 (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

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

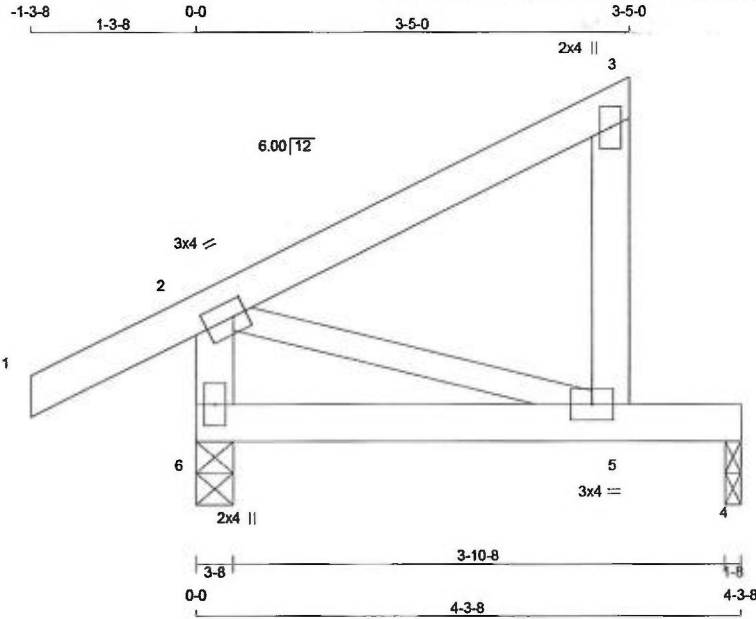
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.66 (6) (INPUT = 0.90)
JSI METAL= 0.16 (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.





Scale = 1:17.3

TOTAL WEIGHT = 7 X 17 = 118 lb [M]

LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
5 - 3	2x4	DRY	No.2	SPF
6 - 2	2x4	DRY	No.2	SPF
6 - 4	2x4	DRY	No.2	SPF
ALL WEBS 2x3 DRY No.2 SPF				
DRY: SEASONED LUMBER.				

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMVW-t	MT20	3.0	4.0	1.50 1.25
3	TMV+p	MT20	2.0	4.0	
5	BMVW-t	MT20	3.0	4.0	
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	IN-SX	IN-SX	
6	302	0	302	0	3-8	3-8	
4	143	0	143	0	1-8	1-8	

UNFACTORED REACTIONS							
JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
6	210	159 / 0	0 / 0	0 / 0	0 / 0	51 / 0	0 / 0
4	102	63 / 0	0 / 0	0 / 0	0 / 0	38 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6, 4

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 CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 23	-77.4 -77.4	0.10 (1)	10.00	2-5	0 / 0	0.00 (1)
2-3	0 / 0	-77.4 -77.4	0.15 (1)	10.00			
5-3	-132 / 0	0.0 0.0	0.02 (1)	7.81			
6-2	-237 / 0	0.0 0.0	0.02 (1)	7.81			
6-5	0 / 0	-17.5 -17.5	0.16 (1)	10.00			
5-4	0 / 0	-17.5 -17.5	0.16 (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 (0.19")
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=0.15/1.00 (2-3:1), BC=0.16/1.00 (5-6:1), WB=0.00/1.00 (2-5:1), 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)	(PLI)		
	MAX	MIN	MAX	MIN	MAX
MT20	618	354	1667	822	2284

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.22 (2) (INPUT = 0.90)
JSI METAL= 0.04 (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.



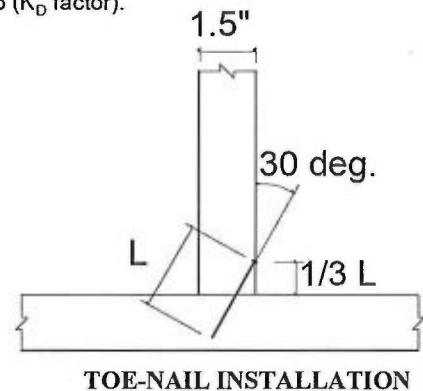
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

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

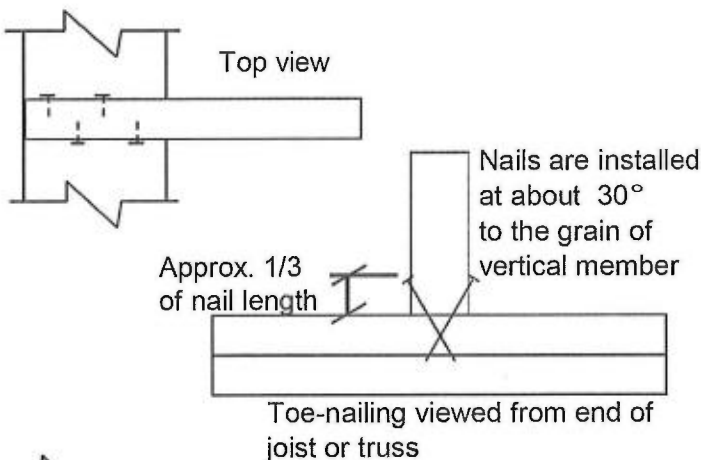
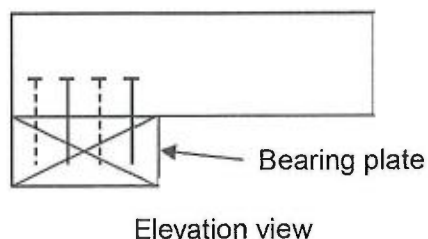
NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL WITHDRAWAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	30	42
	3.25	0.144	32	45
	3.50	0.160	38	52

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

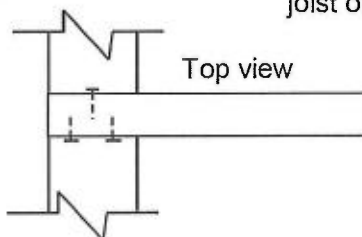
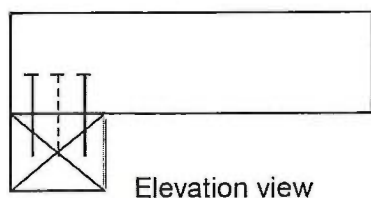
NOTES:

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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