



TOWN OF MILTON
PLANNING AND DEVELOPMENT
BUILDING PERMIT: 17-5187

BUILDING: REVIEWED
SCOTT SHERRIFFS APR 24, 2017
PLANS EXAMINER DATE

Neither the issuance of a permit nor carrying out of inspections by the Town of Milton relieves the owner from full responsibility for compliance with the provisions of the Ontario Building Code Act and the Ontario Building Code, both as amended, as well as other applicable statutes and regulations of the Province of Ontario, By-laws of the Region of Halton and Town of Milton

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5187
BUILDING DIVISION



TOP OF ALL PORCH BEAMS
AT 8' 7 1/4" A.F.F.

UNDERSIDE OF SOFFIT
FOR PORCHES AT
8' 6" A.F.F.

GARAGE WALL PLATES
AT 9' 1 2/16" A.F.F.

PARTY WALLS TO BE
FRAMED ON SITE A.P.P.

HANGER LEGEND:

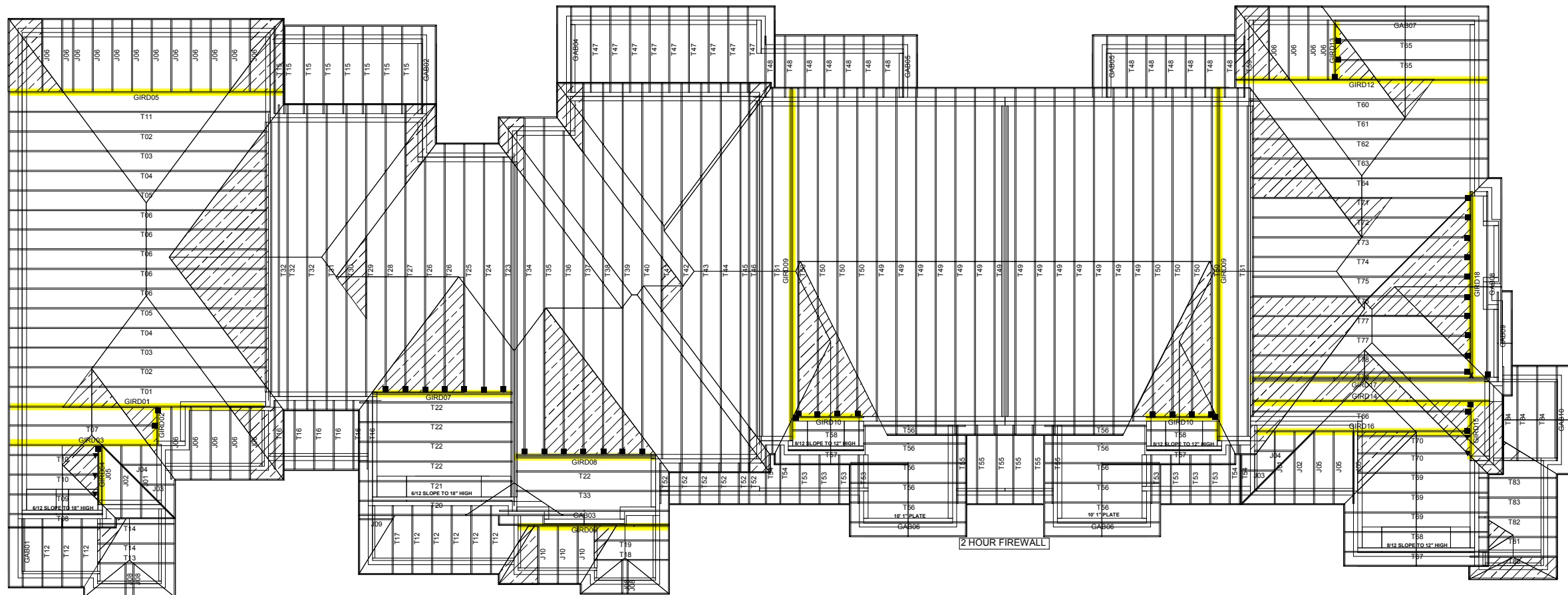
▼ LUS24 ■ LJS26DS
● HGUS26 × HGUS26-2

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: **BLOCK 335**
Customer: GREENPARK
Project: LECCO RIDGE
Location: MILTON
Date: 3/13/2017 Drawn by: BB



IVY-6E
EL 1
335-1

IVY-1
EL 1
335-2

IVY-3
EL 1
335-3

IVY-2
EL 1
335-4

IVY-2
EL 1
335-5

IVY-11
EL 1
335-6

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

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.

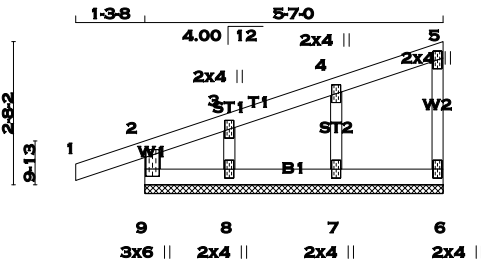
WHERE CONTINUOUS LATERAL BRACING IS REQUIRED FOR WEBS BUT CAN NOT BE PROVIDED SUBSTITUTE EACH WITH ONE SPF #2 2" X 4" T-BRACE COVERING 90% OF WEB LENGTH AND FASTENED TO EDGE OF WEB USING 3 1/4" SPIRAL NAILS @ 6" C/C

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01/29/2013

KOTT , Stouffville, ON, CGC

ENG JOB: PT0317-075



SCALE = 1:43.1

TOTAL WEIGHT = 19 lb [M]

LUMBER				
N. L. G. A. RULES	SIZE		LUMBER	DESCR.
CHORDS	SIZE			
9 - 2	2x4	DRY	No.2	SPF
1 - 5	2x4	DRY	No.2	SPF
6 - 5	2x3	DRY	No.2	SPF
9 - 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 2-0-0 OC.				

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2					
3	TMW+w	MT20	2.0	4.0	
4	TMW+w	MT20	2.0	4.0	
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	
9					
9	TMBMV1+p	MT20	3.0	6.0	3.50 1.50

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

BEARINGS
THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.
THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)
BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
9-2	-194 / 0	0.0	0.0 0.03 (1)	7-8	-180 / 0	0.03 (1)	
1-2	0 / 16	-77.3	-77.3 0.10 (1)	8-3	-97 / 0	0.01 (1)	
2-3	-22 / 0	-77.3	-77.3 0.07 (1)				
3-4	-5 / 0	-77.3	-77.3 0.05 (1)				
4-5	-8 / 0	-77.3	-77.3 0.05 (1)				
6-5	-64 / 0	0.0	0.0 0.02 (1)				
9-8	0 / 13	-17.5	-17.5 0.03 (1)				
8-7	0 / 8	-17.5	-17.5 0.02 (4)				
7-6	0 / 3	-17.5	-17.5 0.02 (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

CSI: TC=0.10 (1-2:1) , BC=0.03 (8-9:1) , WB=0.03 (4-7:1) , SSI=0.08 (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.

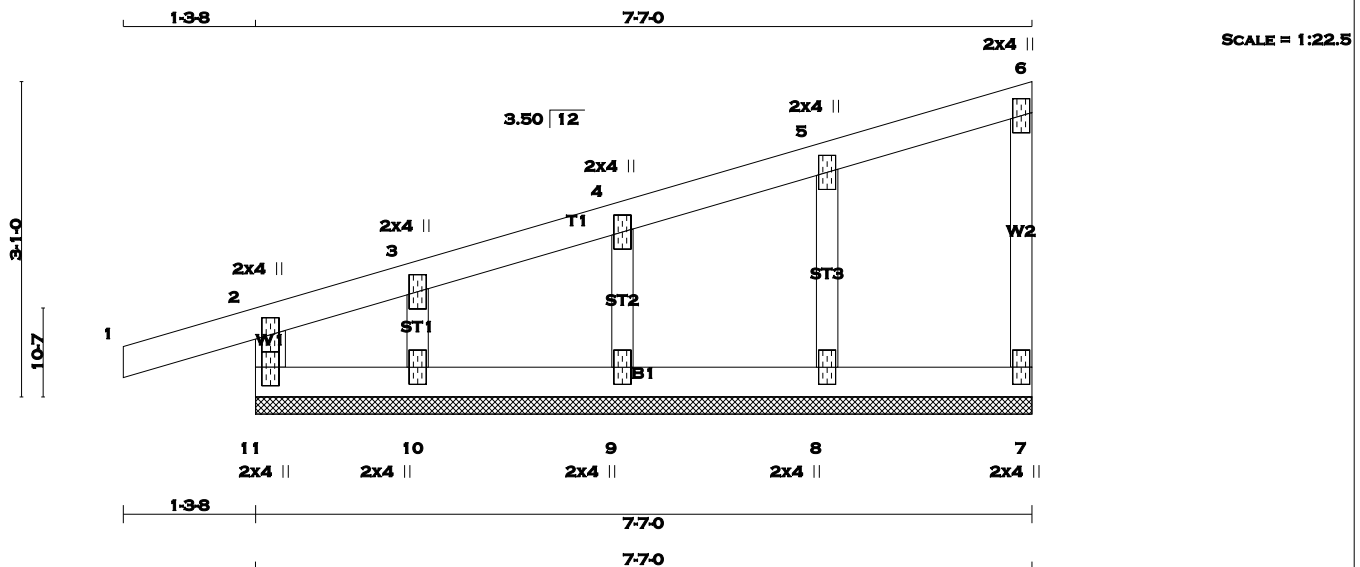
JSI GRIP= 0.17 (9) (INPUT = 0.90)
JSI METAL= 0.03 (7) (INPUT = 1.00)



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





TOTAL WEIGHT = 25 lb [M]

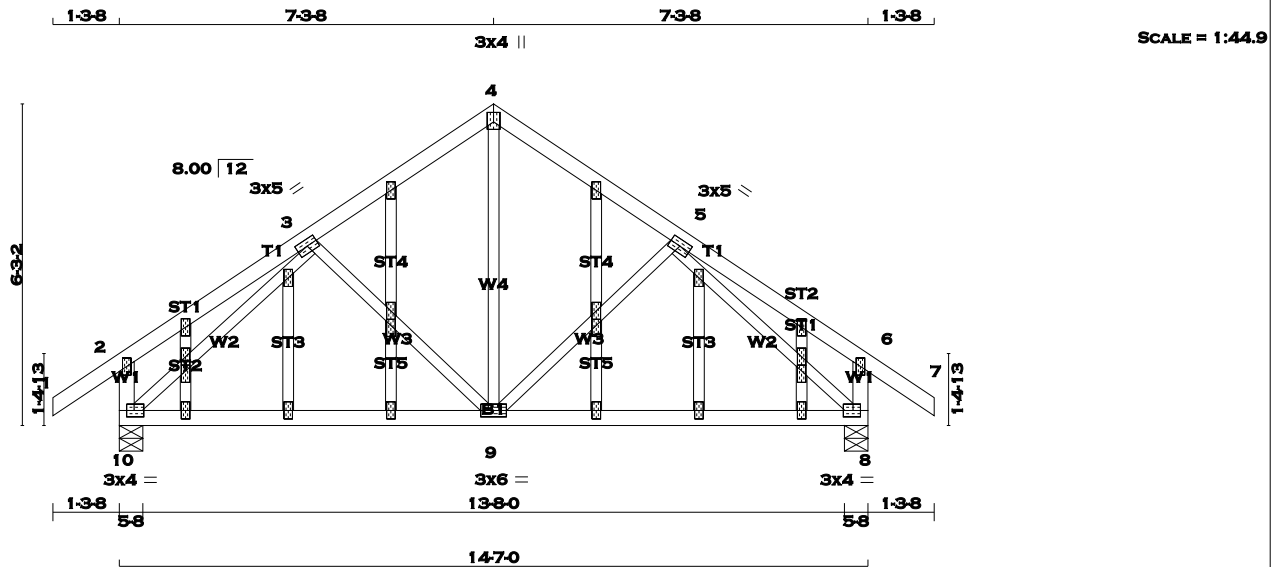
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. 11- 2 2x4 DRY No.2 SPF 1 - 6 2x4 DRY No.2 SPF 7 - 6 2x3 DRY No.2 SPF 11- 7 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF ALL GABLE WEBS 2x3 DRY No.2 SPF DRY: SEASONED LUMBER. GABLE STUDS SPACED AT 2-0-0 OC.					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS. THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE. BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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)					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 CSI: TC=0.10 (1-2:1) , BC=0.03 (10-11:1) , WB=0.03 (5-8:1) , SSI=0.08 (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= 0.10 (2) (INPUT = 0.90) JSI METAL= 0.04 (2) (INPUT = 1.00)																																																																																																															
PLATES (table is in inches) JT TYPE PLATES W LEN Y X 2 TMV+p MT20 2.0 4.0 3, 4, 5 3 TMW+w MT20 2.0 4.0 6 TMV+p MT20 2.0 4.0 7 BMV1+p MT20 2.0 4.0 8, 9, 10 8 BMW1+w MT20 2.0 4.0 11 BMV1+p MT20 2.0 4.0 2.25 1.00 A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.					<table><tr><th colspan="4">C H O R D S</th><th colspan="4">W E B S</th></tr><tr><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>FACTORED VERT. LOAD (PLF)</th><th>MAX LC1 CSI (LC)</th><th>MAX. UNBRAC LENGTH</th><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>MAX LC1 CSI (LC)</th></tr><tr><th>FR-TO</th><th></th><th>FROM TO</th><th></th><th></th><th>FR-TO</th><th></th><th></th></tr><tr><td>11- 2</td><td>-194 / 0</td><td>0.0</td><td>0.0 0.03 (1)</td><td>7.81</td><td>8- 5</td><td>-168 / 0</td><td>0.03 (1)</td></tr><tr><td>1- 2</td><td>0 / 14</td><td>-77.3</td><td>-77.3 0.10 (1)</td><td>10.00</td><td>9- 4</td><td>-160 / 0</td><td>0.02 (1)</td></tr><tr><td>2- 3</td><td>-22 / 0</td><td>-77.3</td><td>-77.3 0.07 (1)</td><td>6.25</td><td>10- 3</td><td>-101 / 0</td><td>0.01 (1)</td></tr><tr><td>3- 4</td><td>-8 / 0</td><td>-77.3</td><td>-77.3 0.04 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>4- 5</td><td>-6 / 0</td><td>-77.3</td><td>-77.3 0.04 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>5- 6</td><td>-6 / 0</td><td>-77.3</td><td>-77.3 0.04 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>7- 6</td><td>-66 / 0</td><td>0.0</td><td>0.0 0.02 (1)</td><td>7.81</td><td></td><td></td><td></td></tr><tr><td>11-10</td><td>0 / 14</td><td>-17.5</td><td>-17.5 0.03 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>10- 9</td><td>0 / 10</td><td>-17.5</td><td>-17.5 0.01 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>9- 8</td><td>0 / 6</td><td>-17.5</td><td>-17.5 0.02 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>8- 7</td><td>0 / 3</td><td>-17.5</td><td>-17.5 0.02 (4)</td><td>10.00</td><td></td><td></td><td></td></tr></table>					C H O R D S				W E B S				MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 CSI (LC)	FR-TO		FROM TO			FR-TO			11- 2	-194 / 0	0.0	0.0 0.03 (1)	7.81	8- 5	-168 / 0	0.03 (1)	1- 2	0 / 14	-77.3	-77.3 0.10 (1)	10.00	9- 4	-160 / 0	0.02 (1)	2- 3	-22 / 0	-77.3	-77.3 0.07 (1)	6.25	10- 3	-101 / 0	0.01 (1)	3- 4	-8 / 0	-77.3	-77.3 0.04 (1)	10.00				4- 5	-6 / 0	-77.3	-77.3 0.04 (1)	10.00				5- 6	-6 / 0	-77.3	-77.3 0.04 (1)	10.00				7- 6	-66 / 0	0.0	0.0 0.02 (1)	7.81				11-10	0 / 14	-17.5	-17.5 0.03 (1)	10.00				10- 9	0 / 10	-17.5	-17.5 0.01 (4)	10.00				9- 8	0 / 6	-17.5	-17.5 0.02 (4)	10.00				8- 7	0 / 3	-17.5	-17.5 0.02 (4)	10.00			
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CONTAINS SPECIFICATIONS AND CRITERIA USED
IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 77 lb

[M][F]

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMV+p	MT20	2.0	4.0	
3	TMWW-t	MT20	3.0	5.0	
4	TTW+p	MT20	3.0	4.0	2.25 1.50
5	TMWW-t	MT20	3.0	5.0	
6	TMV+p	MT20	2.0	4.0	
8	BMVW1-t	MT20	3.0	4.0	1.50 1.75
9	BMVW1-t	MT20	3.0	6.0	
10	BMVW1-t	MT20	3.0	4.0	1.50 1.75
11, 16, 21, 26					
11	NP+w	MT20	2.0	4.0	1.50 1.00
11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26					
11	NP+w	MT20	2.0	4.0	
A SIZE FOR SIZE SUBSTITUTION OF MIITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.					

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	
10		798	0	798	0	0	5-8	5-8	
8		798	0	798	0	0	5-8	5-8	
UNFACTORED REACTIONS									
		1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
10		558	403 / 0	0 / 0	0 / 0	0 / 0	154 / 0	0 / 0	
8		558	403 / 0	0 / 0	0 / 0	0 / 0	154 / 0	0 / 0	
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 10, 8									
BRACING									
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.									
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.									
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.									
LOADING									
TOTAL LOAD CASES: (4)									
		CHORDS				WEBS			
		MAX. FACTORED	FACTORED			MAX. FACTORED	FACTORED		
		MEMB.	FORCE	VERT. LOAD	LC1 MAX	MEMB.	FORCE	MAX	
			(LBS)	(PLF)	CSI (LC)		(LBS)	CSI (LC)	
FR-TO		FROM TO		LENGTH		FR-TO			
1-2		0 / 29	-77.3	-77.3	0.10 (1)	10.00	9-4	0 / 371	0.08 (1)
2-3		0 / 18	-77.3	-77.3	0.16 (1)	10.00	9-5	-155 / 5	0.07 (1)
3-4		-550 / 0	-77.3	-77.3	0.13 (1)	6.25	3-9	-155 / 5	0.07 (1)
4-5		-550 / 0	-77.3	-77.3	0.13 (1)	6.25	10-3	-770 / 0	0.31 (1)
5-6		0 / 18	-77.3	-77.3	0.16 (1)	10.00	5-8	-770 / 0	0.31 (1)
6-7		0 / 29	-77.3	-77.3	0.10 (1)	10.00			
10-2		-215 / 0	0.0	0.0	0.02 (1)	7.81			
8-6		-215 / 0	0.0	0.0	0.02 (1)	7.81			
10-9		0 / 554	-17.5	-17.5	0.30 (4)	10.00			
9-8		0 / 554	-17.5	-17.5	0.30 (4)	10.00			

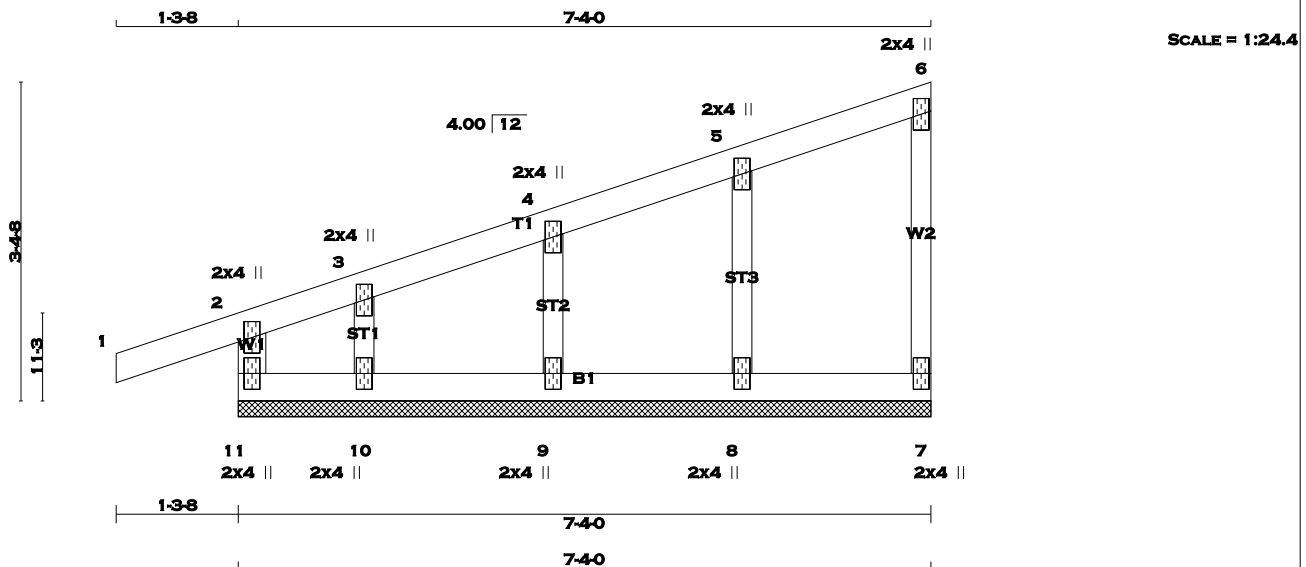
DESIGN CRITERIA			
SPECIFIED LOADS:			
TOP CH.	LL	=	23.3 PSF
	DL	=	3.0 PSF
BOT CH.	LL	=	0.0 PSF
	DL	=	7.0 PSF
TOTAL LOAD = 33.3 PSF			
SPACING = 24.0 IN./C/C			
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010			
THIS DESIGN COMPLIES WITH:			
- PART 9 OF OBC 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 (0.49")			
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")			
ALLOWABLE DEFL.(TL)= L/360 (0.49")			
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.07")			
CSI: TC=0.16 (2-3:1), BC=0.30 (9-10:4), WB=0.31 (5-8:1), SSI=0.11 (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)			
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= 0.85 (8) (INPUT = 0.90)			
JSI METAL= 0.22 (5) (INPUT = 1.00)			



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IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 25 lb [M]

LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
11 - 2	2x4	DRY	No.2		SPF
1 - 6	2x4	DRY	No.2		SPF
7 - 6	2x3	DRY	No.2		SPF
11 - 7	2x4	DRY	No.2		SPF
ALL WEBS	2x3	DRY	No.2		SPF
ALL GABLE WEBS	2x3	DRY	No.2		SPF
GABLE STUDS SPACED AT 2-0-0 OC.					

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMV+p	MT20	2.0	4.0	
3, 4, 5					
3	TMW+w	MT20	2.0	4.0	
6	TMV+p	MT20	2.0	4.0	
7	BMV1+p	MT20	2.0	4.0	
8, 9, 10					
8	BMW1+w	MT20	2.0	4.0	
11	BMV1+p	MT20	2.0	4.0	

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
11-2	-192 / 0	0.0	0.0 0.03 (1)	7.81	8-5	-168 / 0	0.03 (1)
1-2	0 / 16	-77.3	-77.3 0.10 (1)	10.00	9-4	-161 / 0	0.02 (1)
2-3	-25 / 0	-77.3	-77.3 0.08 (1)	6.25	10-3	-83 / 0	0.01 (1)
3-4	-8 / 0	-77.3	-77.3 0.04 (1)	10.00			
4-5	-6 / 0	-77.3	-77.3 0.04 (1)	10.00			
5-6	-6 / 0	-77.3	-77.3 0.04 (1)	10.00			
7-6	-66 / 0	0.0	0.0 0.02 (1)	7.81			
11-10	0 / 14	-17.5	-17.5 0.03 (1)	10.00			
10-9	0 / 10	-17.5	-17.5 0.01 (4)	10.00			
9-8	0 / 6	-17.5	-17.5 0.02 (4)	10.00			
8-7	0 / 3	-17.5	-17.5 0.02 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, 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 (1-2:1), BC=0.03 (10-11:1), WB=0.03 (5-8:1), SSI=0.08 (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.

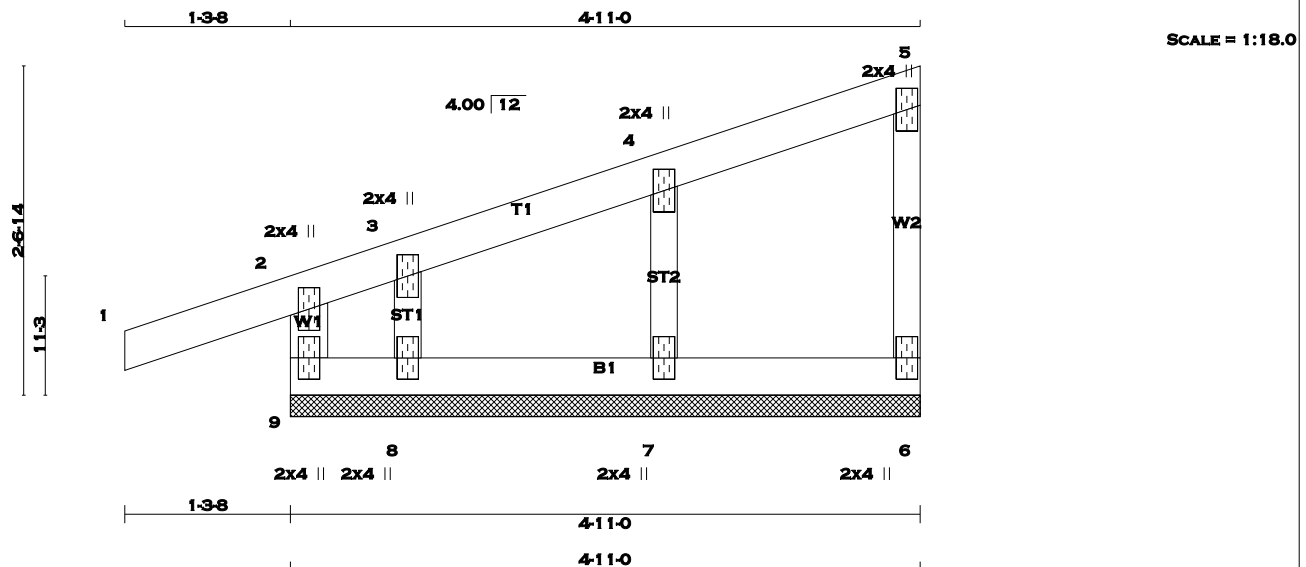
JSI GRIP= 0.11 (2) (INPUT = 0.90)
JSI METAL= 0.04 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 2 X 17 = 34 lb [M]

LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
9 - 2	2x4	DRY	No.2		SPF
1 - 5	2x4	DRY	No.2		SPF
6 - 5	2x3	DRY	No.2		SPF
9 - 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 2-0-0 OC.					

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMV+p	MT20	2.0	4.0	
3	TMW+w	MT20	2.0	4.0	
4	TMW+w	MT20	2.0	4.0	
5	TMV+p	MT20	2.0	4.0	
6	BMV1+p	MT20	2.0	4.0	
7	BMV1+w	MT20	2.0	4.0	
8	BMV1+w	MT20	2.0	4.0	
9	BMV1+p	MT20	2.0	4.0	

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	MAX. LC1 (LC)
FR-TO		FROM TO		FR-TO			
9-2	-193 / 0	0.0	0.0 0.03 (1)	7-8	-181 / 0	7.81	0.03 (1)
1-2	0 / 16	-77.3	-77.3 0.10 (1)	8-3	-46 / 0	10.00	0.01 (1)
2-3	-28 / 0	-77.3	-77.3 0.08 (1)			6.25	
3-4	-5 / 0	-77.3	-77.3 0.05 (1)			10.00	
4-5	-8 / 0	-77.3	-77.3 0.05 (1)			10.00	
6-5	-64 / 0	0.0	0.0 0.02 (1)			7.81	
9-8	0 / 11	-17.5	-17.5 0.03 (1)			10.00	
8-7	0 / 9	-17.5	-17.5 0.02 (4)			10.00	
7-6	0 / 4	-17.5	-17.5 0.02 (4)			10.00	

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

CSI: TC=0.10 (1-2:1) , BC=0.03 (8-9:1) , WB=0.03 (4-7:1) , SSI=0.08 (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
MT20	618	354	1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

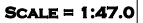
JSI GRIP= 0.11 (2) (INPUT = 0.90)
JSI METAL= 0.04 (2) (INPUT = 1.00)



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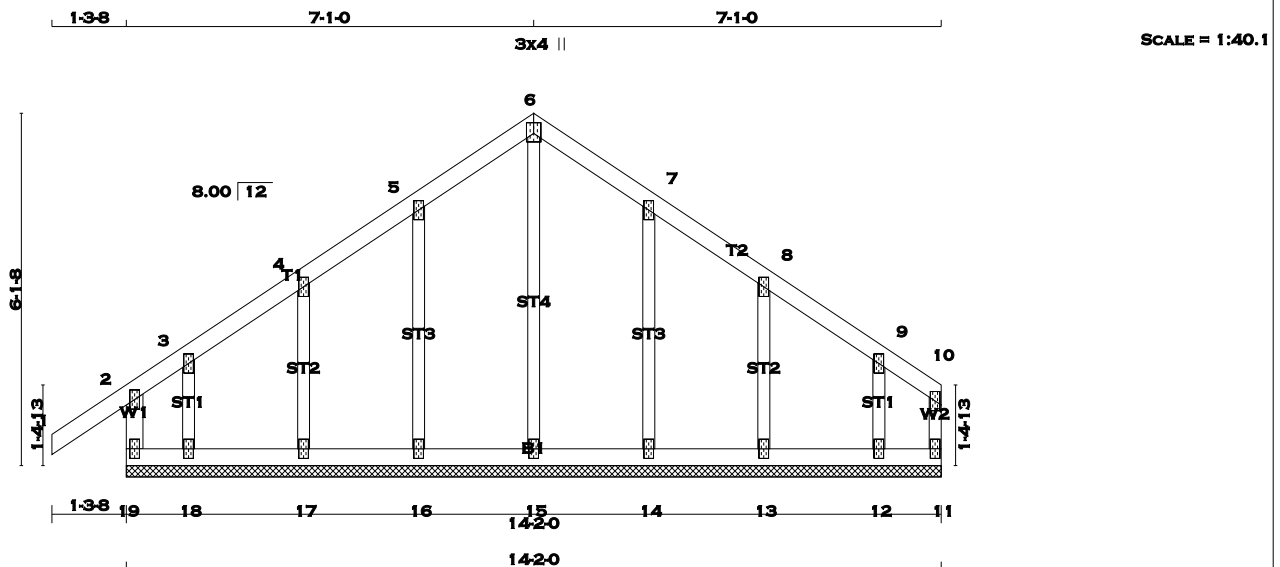




LICENSED PROFESSIONAL ENGINEER
 P. M. TREVISAN
 100136551
 March 14th, 2017
 PROVINCE OF ONTARIO

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TOTAL WEIGHT = 58 lb [M]

LUMBER				DESCR.
N. L. G. A. RULES	SIZE	LUMBER		
CHORDS				
19 - 2	2x4	DRY	No.2	SPF
1 - 6	2x4	DRY	No.2	SPF
6 - 10	2x4	DRY	No.2	SPF
11 - 10	2x3	DRY	No.2	SPF
19 - 11	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
ALL GABLE WEBS	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				
GABLE STUDS SPACED AT 2-0-0 OC.				

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

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

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

CSI: TC=0.10 (1-2:1) , BC=0.02 (18-19:1) , WB=0.10 (6-15:1) , SSI=0.07 (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
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= 0.06 (6) (INPUT = 1.00)

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMV+p	MT20	2.0	4.0	
3, 4, 5, 7, 8, 9					
3	TMW+w	MT20	2.0	4.0	
6	TTW+p	MT20	3.0	4.0	2.25 1.50
10	TMV+p	MT20	2.0	4.0	
11	BMV1+p	MT20	2.0	4.0	
12, 13, 14, 15, 16, 17, 18					
12	BMW1+w	MT20	2.0	4.0	
19	BMV1+p	MT20	2.0	4.0	

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

LOADING

TOTAL LOAD CASES: (4)

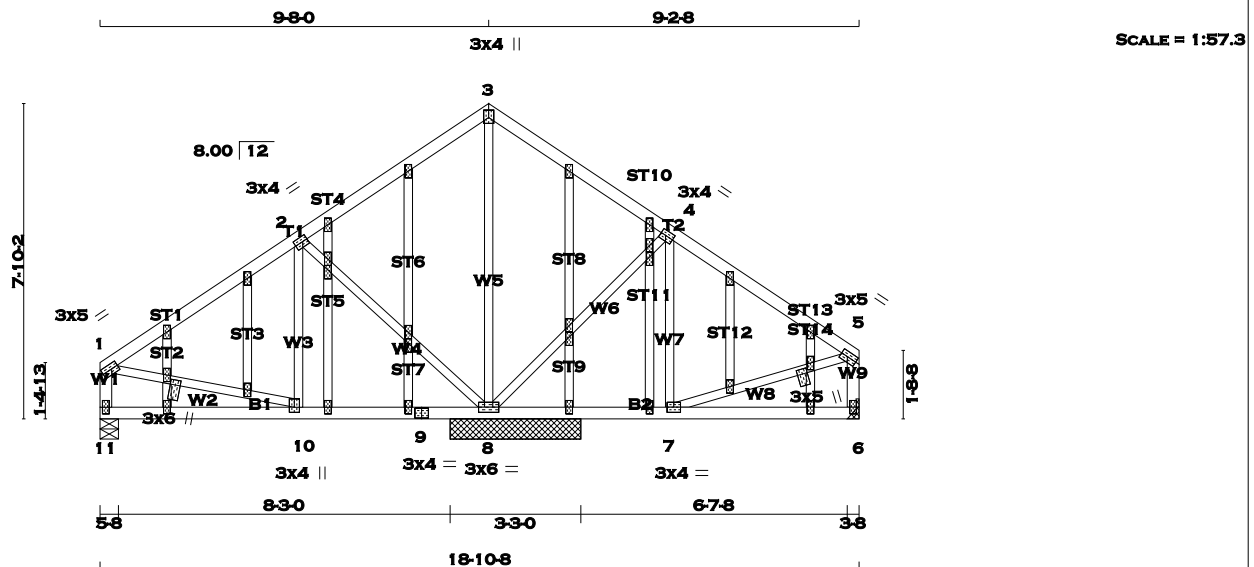
CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)
FR-TO		FROM TO		FR-TO			
19-2	-190 / 0	0.0	0.0 0.02 (1)	7.81	15-6	-174 / 0	0.10 (1)
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	16-5	-155 / 0	0.05 (1)
2-3	-24 / 0	-77.3	-77.3 0.08 (1)	6.25	17-4	-161 / 0	0.03 (1)
3-4	0 / 9	-77.3	-77.3 0.04 (1)	10.00	18-3	-60 / 0	0.01 (1)
4-5	0 / 9	-77.3	-77.3 0.04 (1)	10.00	14-7	-157 / 0	0.05 (1)
5-6	0 / 13	-77.3	-77.3 0.04 (1)	10.00	13-8	-156 / 0	0.03 (1)
6-7	0 / 13	-77.3	-77.3 0.04 (1)	10.00	12-9	-126 / 0	0.02 (1)
7-8	0 / 9	-77.3	-77.3 0.04 (1)	10.00			
8-9	0 / 7	-77.3	-77.3 0.04 (1)	10.00			
9-10	0 / 7	-77.3	-77.3 0.03 (1)	10.00			
11-10	-23 / 0	0.0	0.0 0.00 (1)	7.81			
19-18	0 / 0	-17.5	-17.5 0.02 (1)	10.00			
18-17	-4 / 0	-17.5	-17.5 0.01 (4)	10.00			
17-16	-8 / 0	-17.5	-17.5 0.01 (4)	10.00			
16-15	-11 / 0	-17.5	-17.5 0.01 (4)	6.25			
15-14	-11 / 0	-17.5	-17.5 0.01 (4)	6.25			
14-13	-8 / 0	-17.5	-17.5 0.01 (4)	10.00			
13-12	-4 / 0	-17.5	-17.5 0.01 (4)	10.00			
12-11	0 / 2	-17.5	-17.5 0.01 (4)	10.00			

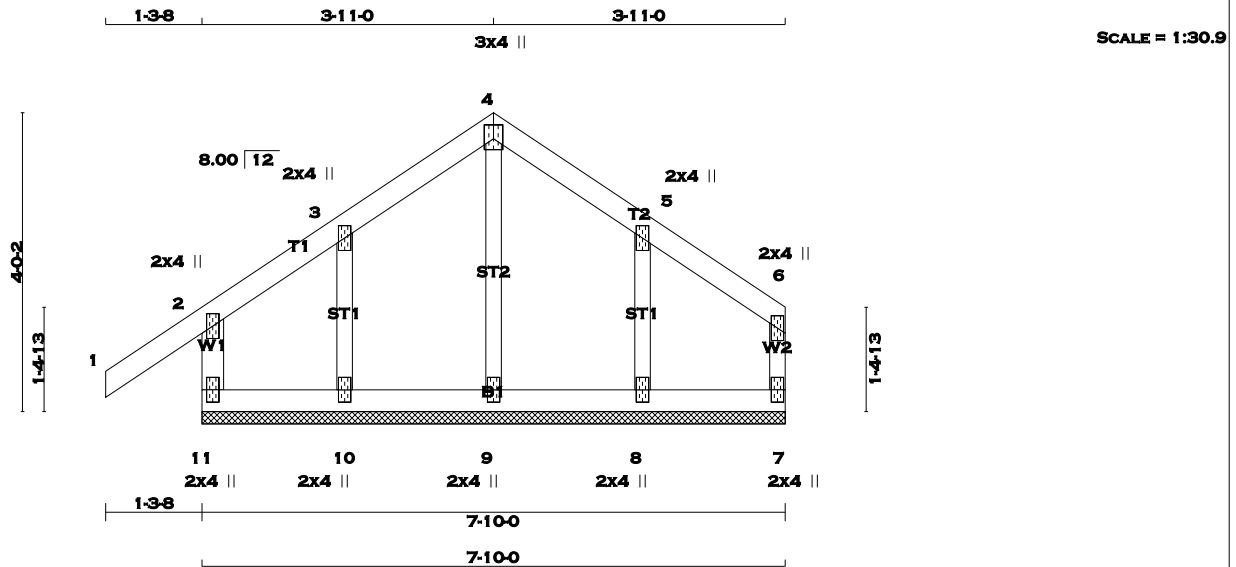


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TOTAL WEIGHT = 30 lb [M]

LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
11 - 2	2x4	DRY	No.2		SPF
1 - 4	2x4	DRY	No.2		SPF
4 - 6	2x4	DRY	No.2		SPF
7 - 6	2x3	DRY	No.2		SPF
11 - 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 2'-0" O.C.					

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMV+p	MT20	2.0	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	TMV+p	MT20	2.0	4.0	
7	BMV1+p	MT20	2.0	4.0	
8, 9, 10					
8	BMW1+w	MT20	2.0	4.0	
11	BMV1+p	MT20	2.0	4.0	

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.

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

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

LOADING

TOTAL LOAD CASES: (4)

C H O R D S				W E B S			
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		
11-2	-199 / 0	0.0	0.0 0.02 (1)	7.81	9-4	-172 / 0	0.04 (1)
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	10-3	-121 / 0	0.02 (1)
2-3	-12 / 0	-77.3	-77.3 0.08 (1)	6.25	8-5	-162 / 0	0.03 (1)
3-4	-2 / 8	-77.3	-77.3 0.04 (1)	10.00			
4-5	-2 / 5	-77.3	-77.3 0.04 (1)	10.00			
5-6	-3 / 6	-77.3	-77.3 0.04 (1)	10.00			
7-6	-58 / 0	0.0	0.0 0.01 (1)	7.81			
11-10	0 / 2	-17.5	-17.5 0.02 (1)	10.00			
10-9	-4 / 2	-17.5	-17.5 0.01 (4)	10.00			
9-8	-4 / 2	-17.5	-17.5 0.02 (4)	10.00			
8-7	0 / 3	-17.5	-17.5 0.02 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 23.3 PSF
DL = 3.0 PSF

BOT CH. LL = 0.0 PSF
DL = 7.0 PSF

TOTAL LOAD = 33.3 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , 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 (1-2:1) , BC=0.02 (10-11:1) , WB=0.04 (4-9:1) , SSI=0.07 (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
MT20	618	354	1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

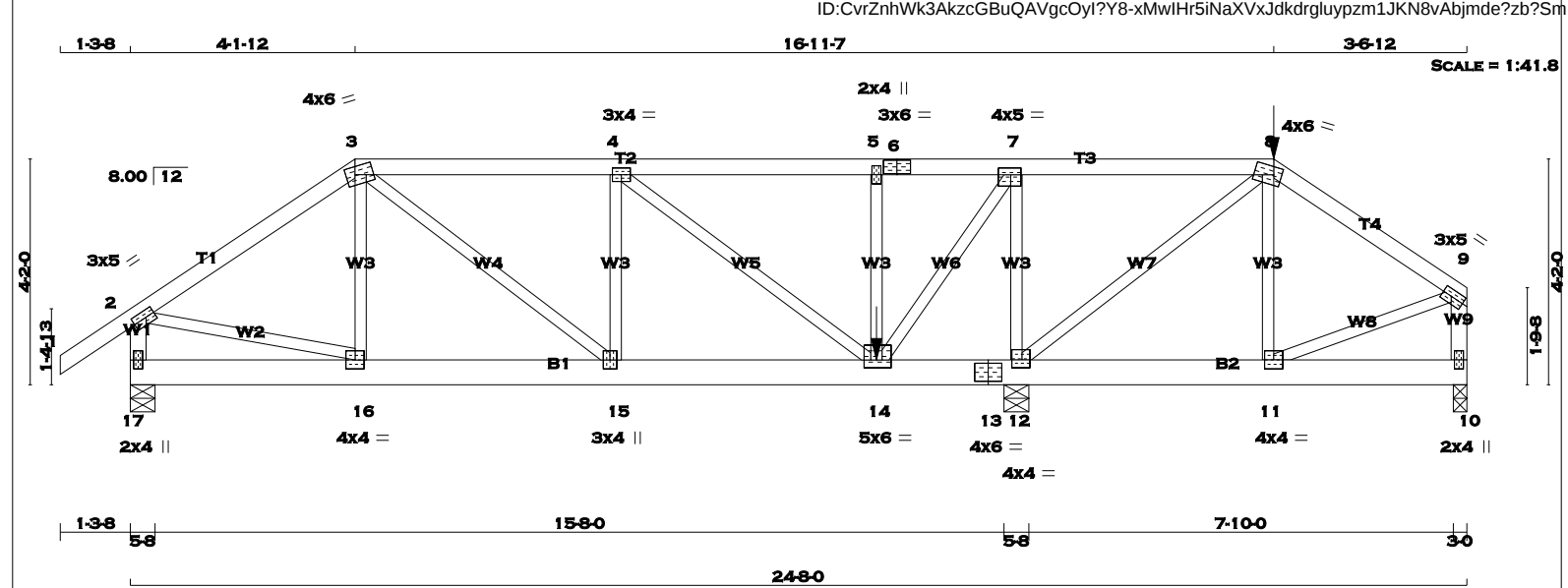
JSI GRIP= 0.13 (2) (INPUT = 0.90)
JSI METAL= 0.07 (4) (INPUT = 1.00)



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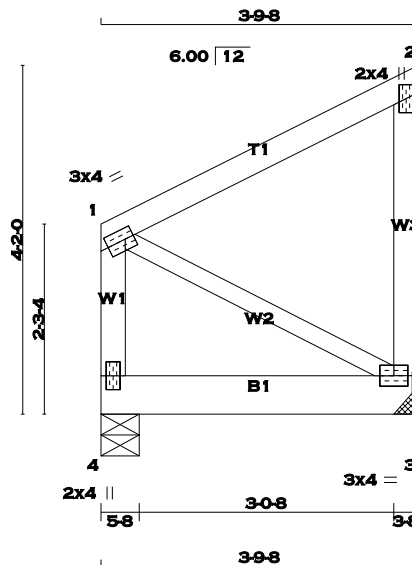


LUMBER					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER					DESIGN CRITERIA				
N. L. G. A. RULES														
CHORDS SIZE														
LUMBER														
DESCR.														
1 - 3 2x4 DRY No.2 SPF														
3 - 6 2x4 DRY No.2 SPF														
6 - 8 2x4 DRY No.2 SPF														
8 - 9 2x4 DRY No.2 SPF														
17 - 2 2x4 DRY No.2 SPF														
10 - 9 2x4 DRY No.2 SPF														
17 - 13 2x6 DRY No.2 SPF														
13 - 10 2x6 DRY No.2 SPF														
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 TTWW-m MT20 4.0 6.0 1.75 2.00														
4 TMWW-t MT20 3.0 4.0														
5 TMW+w MT20 2.0 4.0														
6 TS-t MT20 3.0 6.0														
7 TMWW-t MT20 4.0 5.0 1.50 2.25														
8 TTWW-m MT20 4.0 6.0 1.75 1.75														
9 TMVW-t MT20 3.0 5.0 1.50 2.00														
10 BMV1+p MT20 2.0 4.0														
11 BMWW-t MT20 4.0 4.0														
12 BMWW1-t MT20 4.0 4.0 1.75 1.75														
13 BS-t MT20 4.0 6.0														
14 BMWWW-t MT20 5.0 6.0 1.75 1.50														
15 BMWW+t MT20 3.0 4.0														
16 BMWW-t MT20 4.0 4.0														
17 BMV1+p MT20 2.0 4.0														
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.														
HANGERS NOTES														
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 206.7 lbs FACTORED DOWN AT 21-1-4 ON TOP CHORD, AND 685.4 lbs FACTORED DOWN AT 13-9-4 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.														
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READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.														
TOTAL LOAD CASES: (4)														
CHORDS														
MAX. FACTORED														
MEMB. FORCE (LBS)														
FACTORED														
VERT. LC1 MAX														
SNOW LIVE PERM.LIVE WIND DEAD SOIL														
CSI (LC)														
UNBRAC														
LENGTH														
FR-TO														
1-2 0 / 29														
2-3 -800 / 0														
3-4 -934 / 0														
4-5 -503 / 0														
5-6 -503 / 0														
6-7 -503 / 0														
7-8 0 / 322														
8-9 -301 / 0														
17-2 -868 / 0														
10-9 -400 / 0														
17-16 0 / 0														
16-15 0 / 662														
15-14 0 / 934														
14-13 -322 / 0														
13-12 -322 / 0														
12-11 0 / 250														
11-10 0 / 0														
FACTORED CONCENTRATED LOADS (LBS)														
JT LOC. LC1 MAX- MAX+ FACE DIR. TYPE														
8 21-1-4 -207 -207 --- FRONT VERT TOTAL														
14 13-9-4 -685 -685 --- FRONT VERT TOTAL														
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 6.00/12														
GIRDER TYPE: CPrimeHip														
LEFT SETBACK = 4-1-12														
RIGHT SETBACK = 3-6-12														
END SETBACK = 6-0-0														
END WALL WIDTH = 3-0														
CORNER FRAMING TYPE: CONVENTIONAL														
END JACK TYPE: CONVENTIONAL														
APPLIED TO FRONT SIDE														
- ADDTL LOADS BASED ON 55 % OF GSL.														
LOADS APPLIED TO FIRST 10-10-12 OF SPAN MEASURED FROM THE RIGHT.														
*** NON STANDARD GIRDER ***														
ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.														
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010														
THIS DESIGN COMPLIES WITH:														
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014														
- CSA 086-09														
- TPIC 2011														
(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD														
ALLOWABLE DEFL.(LL)= L/360 (0.55")														
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")														
ALLOWABLE DEFL.(TL)= L/360 (0.55")														
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.05")														
CSI: TC=0.54 (7-8:1), BC=0.20 (14-15:1), WB=0.50 (7-12:1), SSI=0.36 (7-8:1)														
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00 COMP=1.00 SHEAR=1.00 TENS= 1.00														
COMPANION LIVE LOAD FACTOR = 0.50														
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .														
NAIL VALUES														
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)														
MAX MIN MAX MIN MAX MIN														
MT20 618 354 1667 822 2284 1656														
PLATE PLACEMENT TOL. = 0.250 inches														
PLATE ROTATION TOL. = 0.250 degrees														
KOTT														
CONTINUED ON PAGE 2														



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SCALE = 1:27.5

TOTAL WEIGHT = 20 lb

LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
1 - 2	2x4	DRY	No.2		SPF
3 - 2	2x4	DRY	No.2		SPF
4 - 1	2x4	DRY	No.2		SPF
4 - 3	2x6	DRY	No.2		SPF
ALL WEBS 2x3 DRY					SPF
DRY: SEASONED LUMBER.					

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	3.0	4.0	1.50	1.25
2	TMV+p	MT20	2.0	4.0		
3	BMVW1-t	MT20	3.0	4.0		
4	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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	
3		686	0	686	0	0	HANGER BY OTHERS		
4		686	0	686	0	0	MIN. SEAT SIZE: 3-8	5-8	

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
3	481	337 / 0	0 / 0	0 / 0	0 / 0	145 / 0	0 / 0		
4	481	337 / 0	0 / 0	0 / 0	0 / 0	145 / 0	0 / 0		

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 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		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX. (LC)	MEMB.	FORCE (LBS)	MAX. (LC)	
FR-TO		FROM	TO	FR-TO			
1-2	0 / 0	-77.3	-77.3 0.21 (1)	1-3	0 / 0	0.00 (1)	
3-2	-147 / 0	0.0	0.0 0.04 (1)				
4-1	-147 / 0	0.0	0.0 0.02 (1)				
4-3	0 / 0	-284.3	-284.3 0.38 (1)				

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 = 13-8-8
END DISTANCE = 3-9-8
END SPAN CARRIED = 13-8-8
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, 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=0.21 (1-2:1), BC=0.38 (3-4:1), WB=0.00 (1-3:1), SSI=0.36 (3-4:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

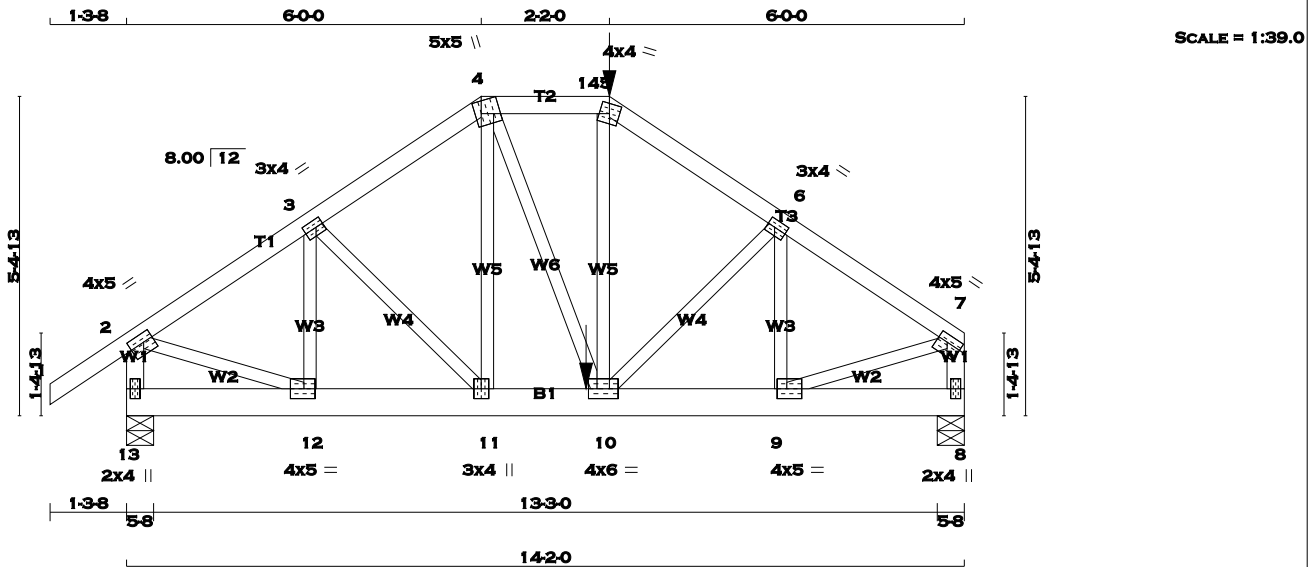
JSI GRIP= 0.15 (3) (INPUT = 0.90)
JSI METAL= 0.03 (2) (INPUT = 1.00)



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IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 75 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
5 - 7	2x4	DRY	No.2	SPF
13 - 2	2x4	DRY	No.2	SPF
8 - 7	2x4	DRY	No.2	SPF
13 - 8	2x6	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	X
2	TMVW-t	MT20	4.0	5.0	1.75 2.00
3	TMVW-t	MT20	3.0	4.0	1.50 1.50
4	TTWW+m	MT20	5.0	5.0	Edge 3.75
5	TTW-m	MT20	4.0	4.0	
6	TMVW-t	MT20	3.0	4.0	1.50 1.50
7	TMVW-t	MT20	4.0	5.0	1.50 2.00
8	BMV1+p	MT20	2.0	4.0	
9	BMVW-t	MT20	4.0	5.0	2.00 2.00
10	BMVW-t	MT20	4.0	6.0	
11	BMVW-t	MT20	3.0	4.0	
12	BMVW-t	MT20	4.0	5.0	2.00 2.25
13	BMV1+p	MT20	2.0	4.0	
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.					
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.					

HANGERS NOTES
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 348.1 lbs FACTORED DOWN AT 8-2-0 ON TOP CHORD, AND 658.3 lbs FACTORED DOWN AT 7-9-4 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.



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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
13	1241	0	1241	0	0
8	1337	0	1337	0	0

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX/MIN.	COMPONENT	REACTIONS			
13	867	629 / 0	0 / 0	0 / 0	0 / 0	238 / 0	0 / 0
8	941	644 / 0	0 / 0	0 / 0	0 / 0	297 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.26 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING				TOTAL LOAD CASES: (4)			
CHORDS		WEBS		CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED LC1 (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED LC1 (LBS)
FR-TO		FROM	TO	FR-TO		FROM	TO
1-2	0 / 29	-77.3	-77.3 0.11 (1)	10.00	12-3	-306 / 0	0.06 (1)
2-3	-1204 / 0	-77.3	-77.3 0.14 (1)	5.66	3-11	0 / 16	0.00 (1)
3-4	-1248 / 0	-77.3	-77.3 0.14 (1)	5.58	11-4	0 / 91	0.02 (1)
4-14	-1200 / 0	-77.3	-77.3 0.09 (1)	5.72	4-10	0 / 459	0.11 (1)
14-5	-1200 / 0	-145.8	-145.8 0.09 (1)	5.72	10-5	0 / 259	0.06 (1)
5-6	-1453 / 0	-77.3	-77.3 0.14 (1)	5.26	10-6	-33 / 0	0.01 (4)
6-7	-1428 / 0	-77.3	-77.3 0.14 (1)	5.30	9-6	-279 / 9	0.06 (1)
13-2	-1202 / 0	0.0	0.0 0.13 (1)	7.26	2-12	0 / 1063	0.26 (1)
8-7	-1281 / 0	0.0	0.0 0.14 (1)	7.09	9-7	0 / 1259	0.31 (1)
13-12	0 / 0	-17.5	-17.5 0.03 (1)	10.00			
12-11	0 / 1013	-17.5	-17.5 0.16 (1)	10.00			
11-10	0 / 1026	-17.5	-17.5 0.16 (1)	10.00			
10-9	0 / 1199	-33.0	-33.0 0.20 (1)	10.00			
9-8	0 / 0	-33.0	-33.0 0.04 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)					
JT	LOC.	LC1	MAX-	MAX+	TYPE
5	8-2-0	-348	-348	---	FRONT VERT
10	7-9-4	-658	-658	---	FRONT VERT

DESIGN CRITERIA

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

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

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

GIRDER TYPE: CPrimeHip
SIDE SETBACK = 6-0-0
END SETBACK = 6-0-0
END WALL WIDTH = 5-8
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDTL LOADS BASED ON 55 % OF GSL.
LOADS APPLIED TO FIRST 6-4-12 OF SPAN MEASURED FROM THE RIGHT.

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.47")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.47")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.14 (7-8:1), BC=0.20 (9-10:1), WB=0.31 (7-9:1), SSI=0.10 (2-3:1)

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 .

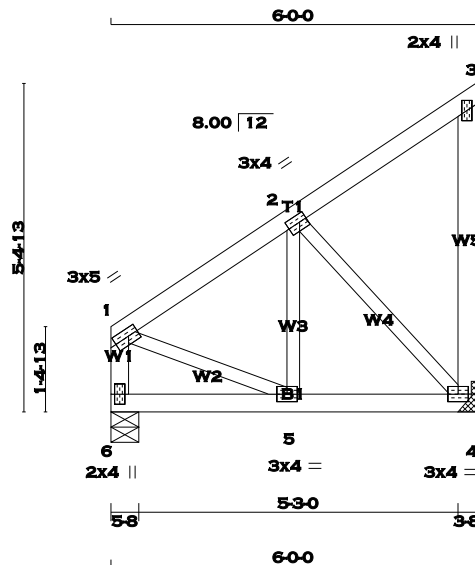
NAIL VALUES					
PLATE	GRIP(DRY)	SHEAR	SECTION		
	(PSI)	(PLI)	(PLI)		
	MAX	MIN	MAX	MIN	MAX
MT20	618	354	1667	822	2284

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 0.00 degrees

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SCALE = 1:37.9

TOTAL WEIGHT = 29 lb [M]

LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
1 - 3	2x4	DRY	No.2		SPF
4 - 3	2x4	DRY	No.2		SPF
6 - 1	2x4	DRY	No.2		SPF
6 - 4	2x4	DRY	No.2		SPF
ALL WEBS EXCEPT					SPF
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	TMVW-t	MT20	3.0	4.0	1.50	1.50
3	TMV+p	MT20	2.0	4.0		
4	BMVW1-t	MT20	3.0	4.0		
5	BMVW-t	MT20	3.0	4.0		
6	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG DOWN	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
4	658	0	658	0	0	HANGER BY OTHERS
6	658	0	658	0	0	MIN. SEAT SIZE: 3-8

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		LIVE	PERM.LIVE	WIND	DEAD	SOIL
	COMBINED	SNOW							
4	462	323 / 0	0 / 0	0 / 0	0 / 0	0 / 0	139 / 0	0 / 0	0 / 0
6	462	323 / 0	0 / 0	0 / 0	0 / 0	0 / 0	139 / 0	0 / 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				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED LC1 MAX. UNBRAC. LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED LC1 MAX. UNBRAC. LENGTH	
FR-TO		FROM TO		FR-TO			
1-2	-458 / 0	-77.3 -77.3	0.12 (1)	6.25	5-2	0 / 381	0.09 (1)
2-3	-15 / 0	-77.3 -77.3	0.12 (1)	6.25	2-4	-563 / 0	0.17 (1)
4-3	-90 / 0	0.0 0.0	0.05 (1)	7.81	1-5	0 / 418	0.10 (1)
6-1	-493 / 0	0.0 0.0	0.06 (1)	7.81			
6-5	0 / 0	-142.0 -142.0	0.22 (1)	10.00			
5-4	0 / 393	-142.0 -142.0	0.29 (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 = 7-8-8
END DISTANCE = 6-0-0
END SPAN CARRIED = 7-8-8
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

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

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

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

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

CSI: TC=0.12 (1-2:1) , BC=0.29 (4-5:1) , WB=0.17 (2-4:1) , SSI=0.22 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.76 (5) (INPUT = 0.90)
JSI METAL= 0.16 (1) (INPUT = 1.00)



RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5187
BUILDING DIVISION

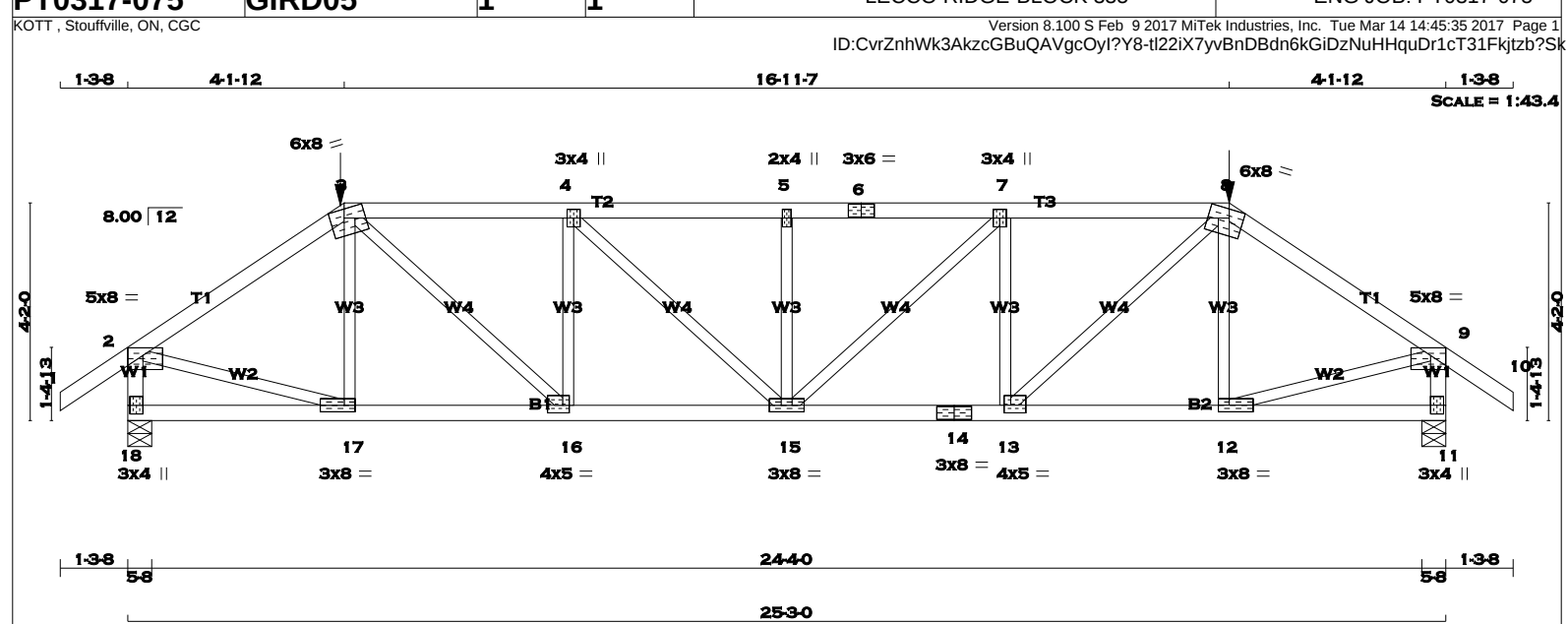
READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



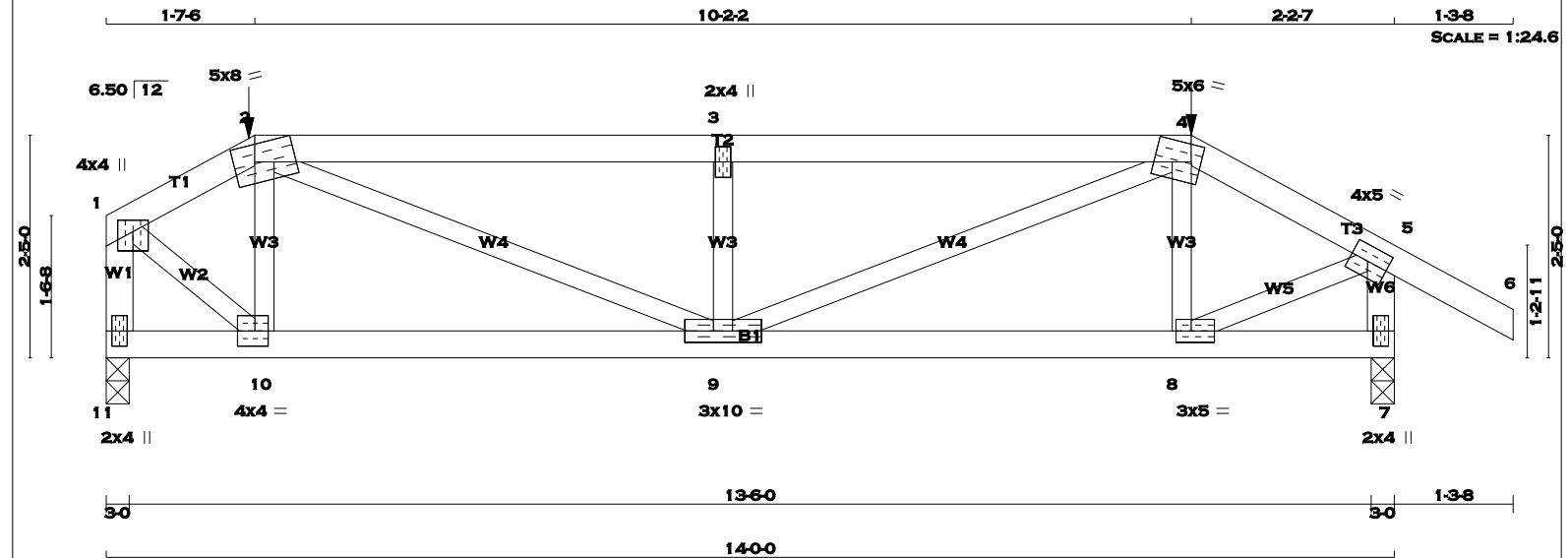
KOTT , Stouffville, ON, CGC

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Tue Mar 14 14:45:35 2017 Page 1

ID:CvrZnhWk3AkzcGBuQAVgcOyl?Y8-tl22iX7yvBnDBdn6kGiDzNuHHquDr1cT31Fkjtzb?Sk



TOTAL WEIGHT = 104 LB		[M]																																																																																																																																																																																																																																																																																																																																																																																		
LUMBER N. L. G. A. RULES <table><tr><td>CHORDS</td><td>SIZE</td><td>LUMBER</td><td>DESCR.</td></tr><tr><td>1 - 3</td><td>2x4</td><td>DRY</td><td>No.2 SPF</td></tr><tr><td>3 - 6</td><td>2x4</td><td>DRY</td><td>No.2 SPF</td></tr><tr><td>6 - 8</td><td>2x4</td><td>DRY</td><td>No.2 SPF</td></tr><tr><td>8 - 10</td><td>2x4</td><td>DRY</td><td>No.2 SPF</td></tr><tr><td>18 - 2</td><td>2x4</td><td>DRY</td><td>No.2 SPF</td></tr><tr><td>11 - 9</td><td>2x4</td><td>DRY</td><td>No.2 SPF</td></tr><tr><td>18 - 14</td><td>2x4</td><td>DRY</td><td>No.2 SPF</td></tr><tr><td>14 - 11</td><td>2x4</td><td>DRY</td><td>No.2 SPF</td></tr><tr><td colspan="4"> </td></tr><tr><td>ALL WEBS EXCEPT</td><td>2x3</td><td>DRY</td><td>No.2 SPF</td></tr></table> DRY: SEASONED LUMBER.		CHORDS	SIZE	LUMBER	DESCR.	1 - 3	2x4	DRY	No.2 SPF	3 - 6	2x4	DRY	No.2 SPF	6 - 8	2x4	DRY	No.2 SPF	8 - 10	2x4	DRY	No.2 SPF	18 - 2	2x4	DRY	No.2 SPF	11 - 9	2x4	DRY	No.2 SPF	18 - 14	2x4	DRY	No.2 SPF	14 - 11	2x4	DRY	No.2 SPF					ALL WEBS EXCEPT	2x3	DRY	No.2 SPF	DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS <table><tr><td></td><td>FACTORED</td><td>MAXIMUM FACTORED</td><td>INPUT</td><td>REQRD</td></tr><tr><td></td><td>GROSS REACTION</td><td>GROSS REACTION</td><td>BRG</td><td>BRG</td></tr><tr><td>JT</td><td>VERT</td><td>HORZ</td><td>DOWN</td><td>HORZ</td></tr><tr><td>18</td><td>2320</td><td>0</td><td>2320</td><td>0</td></tr><tr><td>11</td><td>2320</td><td>0</td><td>2320</td><td>0</td></tr></table> UNFACTORED REACTIONS <table><tr><td>1ST LCASE</td><td colspan="7">MAX./MIN. COMPONENT REACTIONS</td></tr><tr><td>JT</td><td>COMBINED</td><td>SNOW</td><td>LIVE</td><td>PERM.LIVE</td><td>WIND</td><td>DEAD</td><td>SOIL</td></tr><tr><td>18</td><td>1627</td><td>1146 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>481 / 0</td><td>0 / 0</td></tr><tr><td>11</td><td>1627</td><td>1146 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>481 / 0</td><td>0 / 0</td></tr></table> BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 18, 11 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.89 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) <table><tr><td colspan="4">CHORDS</td><td colspan="4">WEBS</td></tr><tr><td colspan="2">MAX. FACTORED</td><td colspan="2">FACTORED</td><td colspan="2">MAX. FACTORED</td><td colspan="2">FACTORED</td></tr><tr><td>MEMB.</td><td>FORCE</td><td>VERT. LOAD</td><td>LC1</td><td>MAX</td><td>MEMB.</td><td>FORCE</td><td>MAX</td></tr><tr><td></td><td>(LBS)</td><td>(PLF)</td><td>CSI (LC)</td><td>UNBRAC</td><td></td><td>(LBS)</td><td>CSI (LC)</td></tr><tr><td>FR-TO</td><td></td><td>FROM</td><td>TO</td><td>LENGTH</td><td>FR-TO</td><td></td><td></td></tr><tr><td>1-2</td><td>0 / 29</td><td>-77.3</td><td>-77.3</td><td>0.11 (1)</td><td>10.00</td><td>17-3</td><td>-390 / 17</td></tr><tr><td>2-3</td><td>-2601 / 0</td><td>-77.3</td><td>-77.3</td><td>0.39 (1)</td><td>3.89</td><td>3-16</td><td>0 / 1753</td></tr><tr><td>3-4</td><td>-3453 / 0</td><td>-145.8</td><td>-145.8</td><td>0.63 (1)</td><td>3.10</td><td>16-4</td><td>-1040 / 0</td></tr><tr><td>4-5</td><td>-3830 / 0</td><td>-145.8</td><td>-145.8</td><td>0.67 (1)</td><td>2.89</td><td>4-15</td><td>0 / 514</td></tr><tr><td>5-6</td><td>-3830 / 0</td><td>-145.8</td><td>-145.8</td><td>0.67 (1)</td><td>2.89</td><td>15-5</td><td>-562 / 0</td></tr><tr><td>6-7</td><td>-3830 / 0</td><td>-145.8</td><td>-145.8</td><td>0.67 (1)</td><td>2.89</td><td>15-7</td><td>0 / 514</td></tr><tr><td>7-8</td><td>-3453 / 0</td><td>-145.8</td><td>-145.8</td><td>0.63 (1)</td><td>3.10</td><td>13-7</td><td>-1040 / 0</td></tr><tr><td>8-9</td><td>-2601 / 0</td><td>-77.3</td><td>-77.3</td><td>0.39 (1)</td><td>3.89</td><td>13-8</td><td>0 / 1753</td></tr><tr><td>9-10</td><td>0 / 29</td><td>-77.3</td><td>-77.3</td><td>0.11 (1)</td><td>10.00</td><td>12-8</td><td>-390 / 17</td></tr><tr><td>18-2</td><td>-2263 / 0</td><td>0.0</td><td>0.0</td><td>0.26 (1)</td><td>5.61</td><td>2-17</td><td>0 / 2229</td></tr><tr><td>11-9</td><td>-2263 / 0</td><td>0.0</td><td>0.0</td><td>0.26 (1)</td><td>5.61</td><td>12-9</td><td>0 / 2229</td></tr><tr><td colspan="8"> </td></tr><tr><td>18-17</td><td>0 / 0</td><td>-33.0</td><td>-33.0</td><td>0.15 (4)</td><td>10.00</td><td></td><td></td></tr><tr><td>17-16</td><td>0 / 2150</td><td>-33.0</td><td>-33.0</td><td>0.46 (1)</td><td>10.00</td><td></td><td></td></tr><tr><td>16-15</td><td>0 / 3453</td><td>-33.0</td><td>-33.0</td><td>0.68 (1)</td><td>10.00</td><td></td><td></td></tr><tr><td>15-14</td><td>0 / 3453</td><td>-33.0</td><td>-33.0</td><td>0.68 (1)</td><td>10.00</td><td></td><td></td></tr><tr><td>14-13</td><td>0 / 3453</td><td>-33.0</td><td>-33.0</td><td>0.68 (1)</td><td>10.00</td><td></td><td></td></tr><tr><td>13-12</td><td>0 / 2150</td><td>-33.0</td><td>-33.0</td><td>0.46 (1)</td><td>10.00</td><td></td><td></td></tr><tr><td>12-11</td><td>0 / 0</td><td>-33.0</td><td>-33.0</td><td>0.15 (4)</td><td>10.00</td><td></td><td></td></tr></table> FACTORED CONCENTRATED LOADS (LBS) <table><tr><td>JT</td><td>LOC.</td><td>LC1</td><td>MAX-</td><td>MAX+</td><td>FACE</td><td>DIR.</td><td>TYPE</td></tr><tr><td>3</td><td>4-1-12</td><td>-241</td><td>-241</td><td>---</td><td>FRONT</td><td>VERT</td><td>TOTAL</td></tr><tr><td>8</td><td>21-1-3</td><td>-241</td><td>-241</td><td>---</td><td>FRONT</td><td>VERT</td><td>TOTAL</td></tr></table>			FACTORED	MAXIMUM FACTORED	INPUT	REQRD		GROSS REACTION	GROSS REACTION	BRG	BRG	JT	VERT	HORZ	DOWN	HORZ	18	2320	0	2320	0	11	2320	0	2320	0	1ST LCASE	MAX./MIN. COMPONENT REACTIONS							JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	18	1627	1146 / 0	0 / 0	0 / 0	0 / 0	481 / 0	0 / 0	11	1627	1146 / 0	0 / 0	0 / 0	0 / 0	481 / 0	0 / 0	CHORDS				WEBS				MAX. FACTORED		FACTORED		MAX. FACTORED		FACTORED		MEMB.	FORCE	VERT. LOAD	LC1	MAX	MEMB.	FORCE	MAX		(LBS)	(PLF)	CSI (LC)	UNBRAC		(LBS)	CSI (LC)	FR-TO		FROM	TO	LENGTH	FR-TO			1-2	0 / 29	-77.3	-77.3	0.11 (1)	10.00	17-3	-390 / 17	2-3	-2601 / 0	-77.3	-77.3	0.39 (1)	3.89	3-16	0 / 1753	3-4	-3453 / 0	-145.8	-145.8	0.63 (1)	3.10	16-4	-1040 / 0	4-5	-3830 / 0	-145.8	-145.8	0.67 (1)	2.89	4-15	0 / 514	5-6	-3830 / 0	-145.8	-145.8	0.67 (1)	2.89	15-5	-562 / 0	6-7	-3830 / 0	-145.8	-145.8	0.67 (1)	2.89	15-7	0 / 514	7-8	-3453 / 0	-145.8	-145.8	0.63 (1)	3.10	13-7	-1040 / 0	8-9	-2601 / 0	-77.3	-77.3	0.39 (1)	3.89	13-8	0 / 1753	9-10	0 / 29	-77.3	-77.3	0.11 (1)	10.00	12-8	-390 / 17	18-2	-2263 / 0	0.0	0.0	0.26 (1)	5.61	2-17	0 / 2229	11-9	-2263 / 0	0.0	0.0	0.26 (1)	5.61	12-9	0 / 2229									18-17	0 / 0	-33.0	-33.0	0.15 (4)	10.00			17-16	0 / 2150	-33.0	-33.0	0.46 (1)	10.00			16-15	0 / 3453	-33.0	-33.0	0.68 (1)	10.00			15-14	0 / 3453	-33.0	-33.0	0.68 (1)	10.00			14-13	0 / 3453	-33.0	-33.0	0.68 (1)	10.00			13-12	0 / 2150	-33.0	-33.0	0.46 (1)	10.00			12-11	0 / 0	-33.0	-33.0	0.15 (4)	10.00			JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	3	4-1-12	-241	-241	---	FRONT	VERT	TOTAL	8	21-1-3	-241	-241	---	FRONT	VERT	TOTAL	DESIGN CRITERIA SPECIFIED LOADS: <table><tr><td>TOP</td><td>CH.</td><td>LL</td><td>=</td><td>23.3</td><td>PSF</td></tr><tr><td></td><td></td><td>DL</td><td>=</td><td>3.0</td><td>PSF</td></tr><tr><td>BOT</td><td>CH.</td><td>LL</td><td>=</td><td>0.0</td><td>PSF</td></tr><tr><td></td><td></td><td>DL</td><td>=</td><td>7.0</td><td>PSF</td></tr><tr><td colspan="2">TOTAL LOAD</td><td>=</td><td>33.3</td><td>PSF</td><td></td></tr></table> SPACING = 24.0 IN. C/C LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12 GIRDER TYPE: CPrimeHip SIDE SETBACK = 4-1-12 END SETBACK = 6-0-0 END WALL WIDTH = 5-8 CORNER FRAMING TYPE: CONVENTIONAL END JACK TYPE: CONVENTIONAL APPLIED TO FRONT SIDE - ADDT'L 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 , 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 (0.84") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.16") ALLOWABLE DEFL.(TL)= L/360 (0.84") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.28") CSI: TC=0.67 (5-7:1) , BC=0.68 (13-15:1) , WB=0.55 (9-12:1) , SSI=0.32 (3-4:1) 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 <table><tr><td>PLATE</td><td>GRIP(DRY)</td><td>SHEAR</td><td>SECTION</td></tr><tr><td></td><td>(PSI)</td><td>(PLI)</td><td>(PLI)</td></tr><tr><td></td><td>MAX</td><td>MIN</td><td>MAX</td></tr><tr><td>MT20</td><td>618</td><td>354</td><td>1667</td></tr><tr><td></td><td>822</td><td>2284</td><td>1656</td></tr></table> PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.90 (16) (INPUT = 0.90) JSI METAL= 0.91 (14) (INPUT = 1.00)		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		PLATE	GRIP(DRY)	SHEAR	SECTION		(PSI)	(PLI)	(PLI)		MAX	MIN	MAX	MT20	618	354	1667		822	2284	1656
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2-3	-2601 / 0	-77.3	-77.3	0.39 (1)	3.89	3-16	0 / 1753																																																																																																																																																																																																																																																																																																																																																																													
3-4	-3453 / 0	-145.8	-145.8	0.63 (1)	3.10	16-4	-1040 / 0																																																																																																																																																																																																																																																																																																																																																																													
4-5	-3830 / 0	-145.8	-145.8	0.67 (1)	2.89	4-15	0 / 514																																																																																																																																																																																																																																																																																																																																																																													
5-6	-3830 / 0	-145.8	-145.8	0.67 (1)	2.89	15-5	-562 / 0																																																																																																																																																																																																																																																																																																																																																																													
6-7	-3830 / 0	-145.8	-145.8	0.67 (1)	2.89	15-7	0 / 514																																																																																																																																																																																																																																																																																																																																																																													
7-8	-3453 / 0	-145.8	-145.8	0.63 (1)	3.10	13-7	-1040 / 0																																																																																																																																																																																																																																																																																																																																																																													
8-9	-2601 / 0	-77.3	-77.3	0.39 (1)	3.89	13-8	0 / 1753																																																																																																																																																																																																																																																																																																																																																																													
9-10	0 / 29	-77.3	-77.3	0.11 (1)	10.00	12-8	-390 / 17																																																																																																																																																																																																																																																																																																																																																																													
18-2	-2263 / 0	0.0	0.0	0.26 (1)	5.61	2-17	0 / 2229																																																																																																																																																																																																																																																																																																																																																																													
11-9	-2263 / 0	0.0	0.0	0.26 (1)	5.61	12-9	0 / 2229																																																																																																																																																																																																																																																																																																																																																																													
18-17	0 / 0	-33.0	-33.0	0.15 (4)	10.00																																																																																																																																																																																																																																																																																																																																																																															
17-16	0 / 2150	-33.0	-33.0	0.46 (1)	10.00																																																																																																																																																																																																																																																																																																																																																																															
16-15	0 / 3453	-33.0	-33.0	0.68 (1)	10.00																																																																																																																																																																																																																																																																																																																																																																															
15-14	0 / 3453	-33.0	-33.0	0.68 (1)	10.00																																																																																																																																																																																																																																																																																																																																																																															
14-13	0 / 3453	-33.0	-33.0	0.68 (1)	10.00																																																																																																																																																																																																																																																																																																																																																																															
13-12	0 / 2150	-33.0	-33.0	0.46 (1)	10.00																																																																																																																																																																																																																																																																																																																																																																															
12-11	0 / 0	-33.0	-33.0	0.15 (4)	10.00																																																																																																																																																																																																																																																																																																																																																																															
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE																																																																																																																																																																																																																																																																																																																																																																													
3	4-1-12	-241	-241	---	FRONT	VERT	TOTAL																																																																																																																																																																																																																																																																																																																																																																													
8	21-1-3	-241	-241	---	FRONT	VERT	TOTAL																																																																																																																																																																																																																																																																																																																																																																													
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																																																																																																																																																																																																																																																																																																																																																																																
PLATE	GRIP(DRY)	SHEAR	SECTION																																																																																																																																																																																																																																																																																																																																																																																	
	(PSI)	(PLI)	(PLI)																																																																																																																																																																																																																																																																																																																																																																																	
	MAX	MIN	MAX																																																																																																																																																																																																																																																																																																																																																																																	
MT20	618	354	1667																																																																																																																																																																																																																																																																																																																																																																																	
	822	2284	1656																																																																																																																																																																																																																																																																																																																																																																																	
LICENSED PROFESSIONAL ENGINEER P. M. TREVISAN 100136551 March 14th, 2017 PROVINCE OF ONTARIO		RECEIVED TOWN OF MILTON MAR 29, 2017 17-5187 BUILDING DIVISION READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. KOTT																																																																																																																																																																																																																																																																																																																																																																																		



TOTAL WEIGHT = 53 lb [M]

LUMBER
 N. L. G. A. RULES
 CHORDS SIZE LUMBER DESCR.

1 - 2	2x4	DRY	No.2	SPF
2 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
11 - 1	2x4	DRY	No.2	SPF
7 - 5	2x4	DRY	No.2	SPF
11 - 7	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+p	MT20	4.0	4.0	1.50	2.00
2	TTWW-m	MT20	5.0	8.0	Edge	5.25
3	TMW+w	MT20	2.0	4.0		
4	TTWW-m	MT20	5.0	6.0	2.25	1.25
5	TMVW-t	MT20	4.0	5.0	2.00	2.25
7	BMV1+p	MT20	2.0	4.0		
8	BMWW-t	MT20	3.0	5.0	1.50	2.00
9	BMWW-t	MT20	3.0	10.0		
10	BMWW-t	MT20	4.0	4.0	2.00	1.75
11	BMV1+p	MT20	2.0	4.0		

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.
 A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

HANGERS NOTES
 1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 84.0 lbs FACTORED DOWN AT 11-9.9, AND 61.6 lbs FACTORED DOWN AT 1-7-6 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.



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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
11	1026	0	1026	0
7	1123	0	1123	0

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX/MIN. SNOW	COMPONENT LIVE	PERM. LIVE	WIND	DEAD	SOIL
11	720	503 / 0	0 / 0	0 / 0	0 / 0	217 / 0	0 / 0
7	786	562 / 0	0 / 0	0 / 0	0 / 0	224 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 11, 7

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.00 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. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	FACTORED VERT. LOAD (LC)
FR-TO		FROM	TO	FR-TO			
1-2	-880 / 0	-77.3	-77.3	0.05 (1)	6.25	10-2	-418 / 0
2-3	-1894 / 0	-120.0	-120.0	0.64 (1)	4.00	2-9	0 / 1238
3-4	-1894 / 0	-120.0	-120.0	0.64 (1)	4.00	9-3	-741 / 0
4-5	-1118 / 0	-77.3	-77.3	0.09 (1)	5.88	9-4	0 / 1002
5-6	0 / 25	-77.3	-77.3	0.11 (1)	10.00	8-4	-259 / 13
11-1	-1038 / 0	0.0	0.0	0.12 (1)	7.68	1-10	0 / 949
7-5	-1114 / 0	0.0	0.0	0.12 (1)	7.48	8-5	0 / 1055
11-10	0 / 0	-27.2	-27.2	0.12 (4)	10.00		
10-9	0 / 751	-27.2	-27.2	0.22 (1)	10.00		
9-8	0 / 969	-27.2	-27.2	0.25 (1)	10.00		
8-7	0 / 0	-27.2	-27.2	0.11 (4)	10.00		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
2	1-7-6	-62	-62	---	FRONT	VERT	TOTAL
4	11-9-9	-84	-84	---	FRONT	VERT	TOTAL

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

GIRDER TYPE: CPrimeHip
 LEFT SETBACK = 1-7-6
 RIGHT SETBACK = 2-2-7
 END SETBACK = 4-5-8
 END WALL WIDTH = 3-0
 CORNER FRAMING TYPE: CONVENTIONAL
 END JACK TYPE: CONVENTIONAL
 APPLIED TO FRONT SIDE
 - 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, BCBC 2012, ABC 2014
 - CSA 086-09
 - TPIC 2011

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

ALLOWABLE DEFL.(LL)= L/360 (0.47")
 CALCULATED VERT. DEFL.(LL)= L/999 (0.05")
 ALLOWABLE DEFL.(TL)= L/360 (0.47")
 CALCULATED VERT. DEFL.(TL)= L/999 (0.10")

CSI: TC=0.64 (2-3:1), BC=0.25 (8-9:1), WB=0.31 (2-9:1), SSI=0.32 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

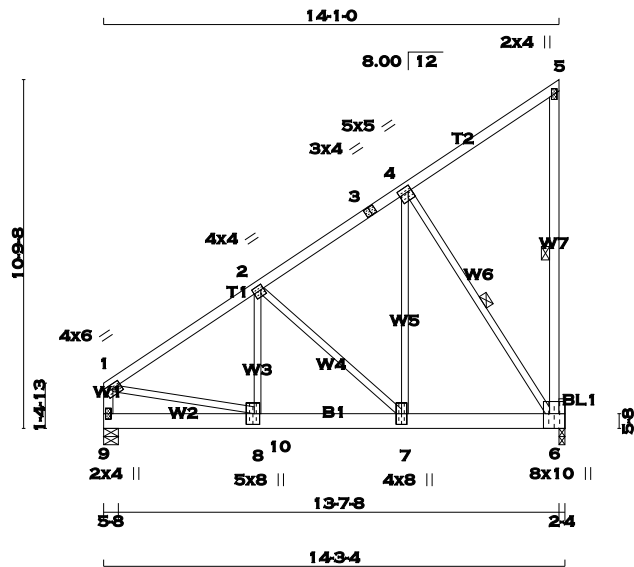
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (8) (INPUT = 0.90)
 JSI METAL= 0.36 (5) (INPUT = 1.00)

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 MAR 29, 2017
 17-5187
 BUILDING DIVISION

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TOTAL WEIGHT = 2 X 81 = 163 lb [M]

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
9 - 1	2x4	DRY	No.2	SPF
9 - 6	2x6	DRY	2100F 1.8E	SPF

BEARING BLOCKS				
BL1	2x6	DRY	No.2	SPF
ALL WEBS				
EXCEPT	2x3	DRY	No.2	SPF

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- 3	12	TOP
3- 5	12	TOP
5- 6	12	TOP
9- 1	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
9- 6	9	SIDE(301.3)
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	4.0	6.0	1.50	3.00
2	TMWW-t	MT20	4.0	4.0	1.75	1.00
3	TS-t	MT20	3.0	4.0		
4	TMVW-t	MT20	5.0	5.0	2.00	1.25
5	TMV+p	MT20	2.0	4.0		
6	BMVWK1+p	MT20	8.0	10.0	Edge	4.00
7	BMWW+t	MT20	4.0	8.0		

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
6	4270	0	4270	0	2-4
9	4536	0	4536	0	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE
6	2997	2098 / 0	0 / 0
9	3183	2227 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6, 9
BEARING SIZE FACTOR = 1.08 AT JNT(S) 6 (BASED ON SUPPORT DEPTH = 1-8)

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.45 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 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-6. DBS = 20-0-0 . CBF = 19 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-6. DBS = 4-0-0 . CBF = 92 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) TO EACH PLY 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)

C H O R D S		MAX. FACTORED	FACTORED	W E B S		MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX	MEMB.	FORCE (LBS)	MAX
FR-TO		FROM TO	CSI (LC)	LENGTH FR-TO		UNBRAC
1- 2	-4267 / 0	-77.3 -77.3	0.23 (1)	4.45	8- 2	0 / 2127
2- 3	-2377 / 0	-77.3 -77.3	0.17 (1)	5.66	2- 7	-2140 / 0
3- 4	-2377 / 0	-77.3 -77.3	0.17 (1)	5.66	7- 4	0 / 4013
4- 5	-18 / 0	-77.3 -77.3	0.13 (1)	6.25	4- 6	-3682 / 0
6- 5	-149 / 0	0.0 0.0	0.04 (1)	6.25	1- 8	0 / 3639
9- 1	-3280 / 0	0.0 0.0	0.18 (1)	6.42		0.45 (1)
9-10	0 / 0	-620.2 -620.2	0.25 (1)	10.00		
10- 8	0 / 0	-525.3 -525.3	0.25 (1)	10.00		
8- 7	0 / 3562	-525.3 -525.3	0.30 (1)	10.00		
7- 6	0 / 1984	-525.3 -525.3	0.25 (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

GIRDER TYPE: CStdGirder
START DISTANCE = 4-2-0
START SPAN CARRIED = 27-10-8
END DISTANCE = 4-2-0
END SPAN CARRIED = 27-10-8
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

GIRDER TYPE: CStdGirder
START DISTANCE = 4-2-0
START SPAN CARRIED = 23-10-8
END DISTANCE = 14-3-4
END SPAN CARRIED = 23-10-8
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, 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 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.46")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.10")

CSI: TC=0.23 (1-2:1) , BC=0.30 (7-8:1) , WB=0.93 (4-6:1) , SSI=0.54 (8-9:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

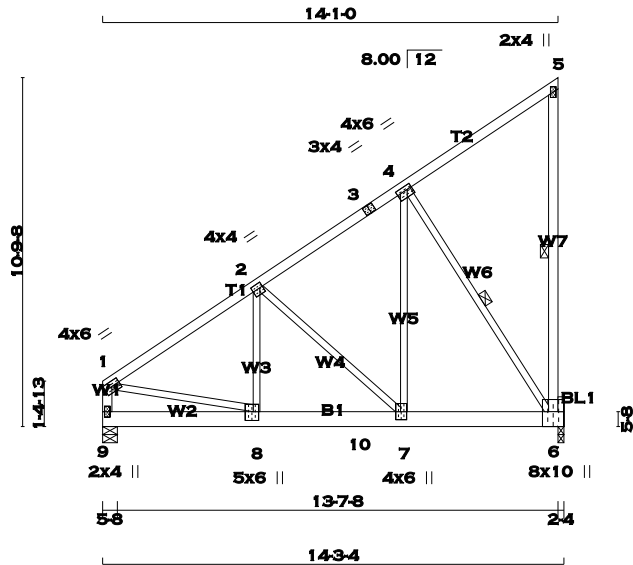
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (8) (INPUT = 0.90)
JSI METAL= 0.55 (1) (INPUT = 1.00)



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TOTAL WEIGHT = 3 X 81 = 244 lb [M]

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
9 - 1	2x4	DRY	No.2	SPF
9 - 6	2x6	DRY	2100F 1.8E	SPF

BEARING BLOCKS				
BL1	2x6	DRY	No.2	SPF
ALL WEBS EXCEPT				
2x3	DRY	No.2		SPF

DRY: SEASONED LUMBER.

DESIGN CONSISTS OF 3 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
1-3	12	TOP
3-5	12	TOP
5-6	12	TOP
9-1	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
9-6	5	SIDE(536.2)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	

STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.

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	4.0	6.0	1.75	Edge
2	TMVW-t	MT20	4.0	4.0	1.75	1.00
3	TS-t	MT20	3.0	4.0		
4	TMVW-t	MT20	4.0	6.0	1.50	1.75
5	TMV+p	MT20	2.0	4.0		
6	BMVWK1+p	MT20	8.0	10.0	Edge	4.00

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	IN-SX
6	5877	0	5877	0	0	2-4	2-4
9	6151	0	6151	0	0	5-8	5-8

UNFACTORED REACTIONS							
1ST LCASE	MAX/MIN.	COMPONENT	REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
6	4124	2887 / 0	0 / 0	0 / 0	1238 / 0	0 / 0	0 / 0
9	4317	3020 / 0	0 / 0	0 / 0	1297 / 0	0 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6, 9
BEARING SIZE FACTOR = 1.08 AT JNT(S) 6 (BASED ON SUPPORT DEPTH = 1-8)

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.70 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 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-6. DBS = 20-0-0 . CBF = 19 LBS.
1 - 2x4 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-6. DBS = 4-0-0 . CBF = 128 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) TO EACH PLY 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)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)
FR-TO		FROM TO		FR-TO		FROM TO	
1-2	-5939 / 0	-77.3 -77.3	0.16 (1)	4.70	8-2	0 / 3109	0.23 (1)
2-3	-3304 / 0	-77.3 -77.3	0.11 (1)	5.93	2-7	-2973 / 0	0.65 (1)
3-4	-3304 / 0	-77.3 -77.3	0.11 (1)	5.93	7-4	0 / 5731	0.43 (1)
4-5	-18 / 0	-77.3 -77.3	0.08 (1)	6.25	4-6	-5116 / 0	0.83 (1)
6-5	-148 / 0	0.0 0.0	0.03 (1)	6.25	1-8	0 / 5057	0.38 (1)
9-1	-4501 / 0	0.0 0.0	0.15 (1)	6.70			
9-8	0 / 0	-821.7 -821.7	0.20 (1)	10.00			
8-10	0 / 4950	-821.7 -821.7	0.26 (1)	10.00			
10-7	0 / 4950	-738.7 -738.7	0.26 (1)	10.00			
7-6	0 / 2758	-738.7 -738.7	0.21 (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

GIRDER TYPE: CStdGirder
START DISTANCE = 7-9-0
START SPAN CARRIED = 36-4-8
END DISTANCE = 7-9-0
END SPAN CARRIED = 36-4-8
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

GIRDER TYPE: CStdGirder
START DISTANCE = 7-9-0
START SPAN CARRIED = 32-10-8
END DISTANCE = 14-3-4
END SPAN CARRIED = 32-10-8
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, 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 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.46")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.09")

CSI: TC=0.16 (1-2:1) , BC=0.26 (7-8:1) , WB=0.83 (4-6:1) , SSI=0.46 (8-9:1)

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

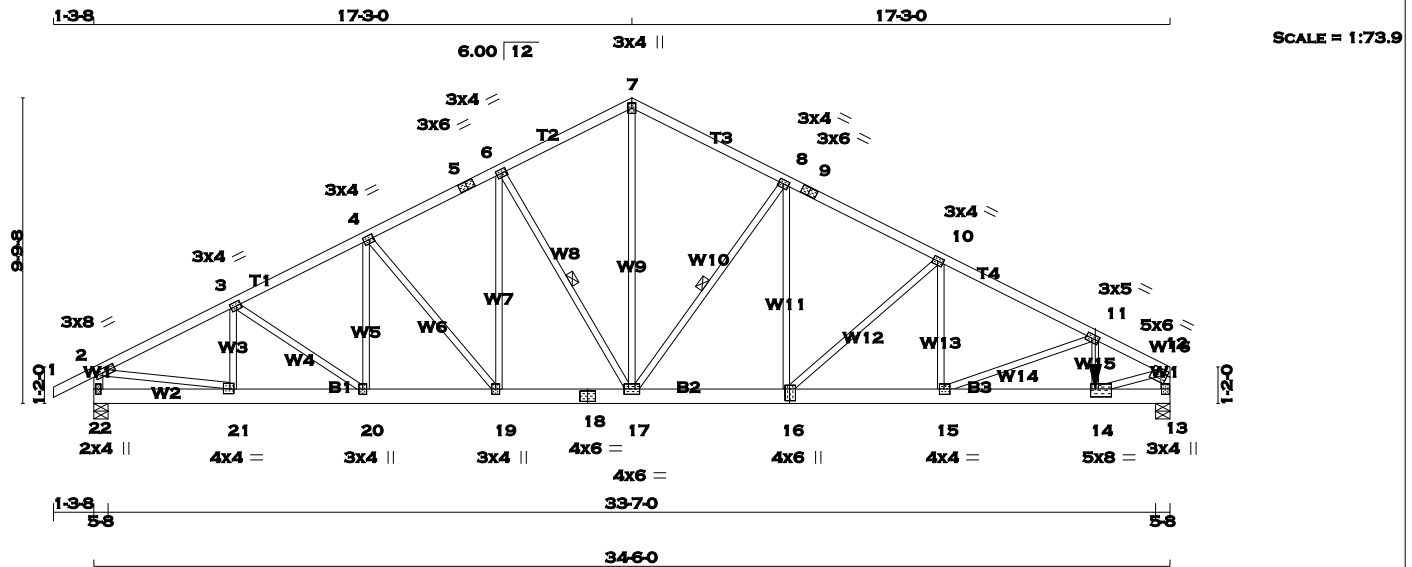
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (4) (INPUT = 0.90)
JSI METAL= 0.50 (1) (INPUT = 1.00)

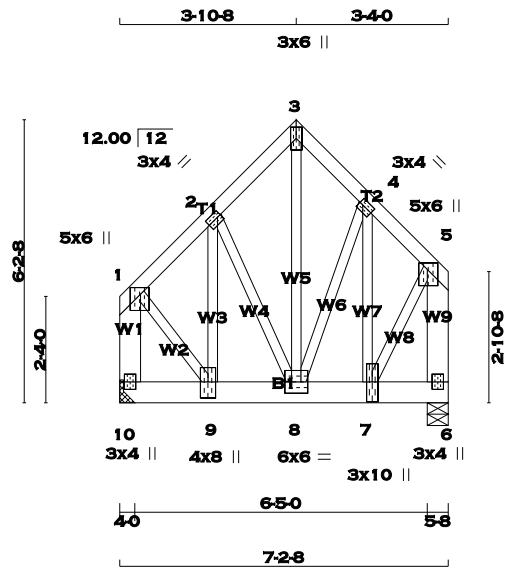


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BUILDING DIVISION

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE 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 - 5 2x4 DRY No.2 SPF 5 - 7 2x4 DRY No.2 SPF 7 - 9 2x4 DRY No.2 SPF 9 - 12 2x4 DRY No.2 SPF 22 - 2 2x4 DRY No.2 SPF 13 - 12 2x4 DRY No.2 SPF 22 - 18 2x6 DRY No.2 SPF 18 - 16 2x6 DRY No.2 SPF 16 - 13 2x6 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT DRY: SEASONED LUMBER. DESIGN CONSISTS OF <u>2</u> TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS: CHORDS #ROWS SURFACE SPACING (IN) LOAD(PLF) TOP CHORDS : (0.122"x3") SPIRAL NAILS 1-5 1 12 TOP 5-7 1 12 TOP 7-9 1 12 TOP 9-12 1 12 TOP 22-2 1 12 TOP 13-12 1 12 TOP BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS 22-18 2 12 TOP 18-16 2 12 TOP 16-13 2 12 TOP WEBS : (0.122"x3") SPIRAL NAILS 2x3 1 6 NAILS TO BE DRIVEN FROM ONE SIDE ONLY. GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS. 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.		DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT REQRD JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX 22 1950 0 1950 0 0 5-8 5-8 13 4567 0 4567 0 0 5-8 5-8 UNFACTORED REACTIONS 1ST LCASE MAX/MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 22 1366 969 / 0 0 / 0 0 / 0 397 / 0 0 / 0 13 3205 2242 / 0 0 / 0 0 / 0 963 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 22, 13 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.01 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 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 6-17. DBS = 20-0-0. CBF = 79 LBS. 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 8-17. DBS = 12-0-0. CBF = 86 LBS. DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) TO EACH PLY 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) C H O R D S W E B S MAX. FACTORED MAX. FACTORED MAX. FACTORED MAX. FACTORED MEMB. FORCE VERT. LOAD LC1 MAX. MEMB. FORCE MAX. (LBS) (PLF) CSI (LC) UNBRAC (LBS) CSI (LC) FR-TO FROM TO LENGTH FR-TO 1-2 0 / 23 -77.3 -77.3 0.06 (1) 10.00 21-3 -384 / 0 0.04 (1) 2-3 -2719 / 0 -77.3 -77.3 0.14 (1) 5.41 3-20 0 / 8 0.00 (1) 3-4 -2744 / 0 -77.3 -77.3 0.14 (1) 5.39 20-4 0 / 99 0.02 (4) 4-5 -2467 / 0 -77.3 -77.3 0.13 (1) 5.62 4-19 -377 / 0 0.15 (1) 5-6 -2467 / 0 -77.3 -77.3 0.13 (1) 5.62 19-6 0 / 331 0.04 (1) 6-7 -2130 / 0 -77.3 -77.3 0.12 (1) 5.95 6-17 -628 / 0 0.15 (1) 7-8 -2132 / 0 -77.3 -77.3 0.17 (1) 5.90 17-7 0 / 1604 0.20 (1) 8-9 -2861 / 0 -77.3 -77.3 0.19 (1) 5.26 17-8 -1147 / 0 0.29 (1) 9-10 -2861 / 0 -77.3 -77.3 0.19 (1) 5.26 16-8 0 / 845 0.10 (1) 10-11 -3852 / 0 -77.3 -77.3 0.21 (1) 4.66 16-10 -1205 / 0 0.49 (1) 11-12 -5667 / 0 -77.3 -77.3 0.14 (1) 4.01 15-10 0 / 847 0.10 (1) 22-2 -1894 / 0 0.0 0.0 0.10 (1) 7.81 15-11 -1742 / 0 0.43 (1) 13-12 -4256 / 0 0.0 0.0 0.23 (1) 5.76 14-11 0 / 1182 0.15 (1) 2-21 0 / 2481 0.31 (1) 14-12 0 / 5333 0.66 (1) 22-21 0 / 0 -17.5 -17.5 0.03 (1) 10.00 21-20 0 / 2444 -17.5 -17.5 0.19 (1) 10.00 20-19 0 / 2451 -17.5 -17.5 0.18 (1) 10.00 19-18 0 / 2210 -17.5 -17.5 0.17 (1) 10.00 18-17 0 / 2210 -17.5 -17.5 0.17 (1) 10.00 17-16 0 / 2560 -17.5 -17.5 0.20 (1) 10.00 16-15 0 / 3456 -17.5 -17.5 0.25 (1) 10.00 15-14 0 / 5075 -17.5 -17.5 0.47 (1) 10.00 14-13 0 / 0 -130.1 -130.1 0.14 (1) 10.00 FACTORED CONCENTRATED LOADS (LBS) JT LOC. LC1 MAX- MAX+ FACE DIR. TYPE 14 22-1.4 2870 2870 --- FRONT VERT TOTAL DESIGN CRITERIA *** SPECIAL LOADS ANALYSIS *** GEOMETRY AND/OR BASIC LOADS CHANGED BY USER. LOADS WERE DERIVED FROM USER INPUT NO FURTHER MODIFICATIONS WERE MADE SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.0 PSF TOTAL LOAD = 33.3 PSF SPACING = 24.0 IN./C GIRDER TYPE: CStdGirder START DISTANCE = 32-1-4 START SPAN CARRIED = 7-2-8 END DISTANCE = 34-6-0 END SPAN CARRIED = 7-2-8 END WALL WIDTH = 5-8 APPLIED TO FRONT SIDE OF BOTTOM CHORD. - ADDTL LOADS BASED ON 55 % OF GSL. *** NON STANDARD GIRDER *** ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES. THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (1.15") CALCULATED VERT. DEFL.(LL)= L/ 999 (0.08") ALLOWABLE DEFL.(TL)= L/360 (1.15") CALCULATED VERT. DEFL.(TL)= L/ 999 (0.14") CSI: TC=0.23 (12-13:1) , BC=0.47 (14-15:1) , WB=0.66 (12-14:1) , SSI=0.10 (13-14:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00 COMP=1.00 SHEAR=1.00 TENS=1.00 COMPANION LIVE LOAD FACTOR = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 822 2284 1656 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.89 (13) (INPUT = 0.90) JSI METAL= 0.71 (12) (INPUT = 1.00)  RECEIVED TOWN OF MILTON MAR 29, 2017 17-5187 BUILDING DIVISION READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. 
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TOTAL WEIGHT = 2 X 54 = 109 lb [M]

LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
1 - 3	2x4	DRY	No.2	SPF	
3 - 5	2x4	DRY	No.2	SPF	
10 - 1	2x6	DRY	No.2	SPF	
6 - 5	2x6	DRY	No.2	SPF	
10 - 6	2x6	DRY	No.2	SPF	
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW+p	MT20	5.0	6.0	1.75	2.75
2	TMVW-t	MT20	3.0	4.0	1.50	1.00
3	TTW+p	MT20	3.0	6.0		
4	TMVW-t	MT20	3.0	4.0	1.50	1.00
5	TMVW+p	MT20	5.0	6.0	1.75	2.75
6	BMV1+p	MT20	3.0	4.0		
7	BMVW+t	MT20	3.0	10.0	5.25	1.50
8	BMVW-t	MT20	6.0	6.0		
9	BMVW+t	MT20	4.0	8.0	4.25	2.00
10	BMV1+p	MT20	3.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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	
10		2870	0	2870	0	0	HANGER BY OTHERS		
6		2870	0	2870	0	0	MIN. SEAT SIZE: 4-0		

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS		PERM.LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE								
10	2014	1409 / 0	0 / 0	0 / 0	0 / 0	0 / 0	605 / 0	0 / 0			
6	2014	1409 / 0	0 / 0	0 / 0	0 / 0	0 / 0	605 / 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 = 5.17 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)	VERT. LOAD (PLF)	LC1 MAX. (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. (LC)	
FR-TO		FROM	TO	FR-TO			
1-2	-1552 / 0	-77.3	-77.3 0.10 (1)	5.17	9-2	0 / 440	0.11 (1)
2-3	-1285 / 0	-77.3	-77.3 0.08 (1)	5.59	2-8	-436 / 0	0.14 (1)
3-4	-1275 / 0	-77.3	-77.3 0.08 (1)	5.60	8-3	0 / 1666	0.41 (1)
4-5	-1316 / 0	-77.3	-77.3 0.09 (1)	5.52	8-4	-31 / 0	0.01 (1)
10-1	-2197 / 0	0.0	0.0 0.19 (1)	6.85	7-4	-52 / 8	0.02 (1)
6-5	-2278 / 0	0.0	0.0 0.24 (1)	6.75	1-9	0 / 1495	0.37 (1)
					7-5	0 / 1570	0.39 (1)
10-9	0 / 0	-719.0	-719.0 0.23 (1)	10.00			
9-8	0 / 1095	-719.0	-719.0 0.28 (1)	10.00			
8-7	0 / 922	-719.0	-719.0 0.21 (1)	10.00			
7-6	0 / 0	-719.0	-719.0 0.18 (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 = 32-0-8
END DISTANCE = 7-2-8
END SPAN CARRIED = 32-0-8
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC2010

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 (0.24")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.24")
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.24 (5-6:1), BC=0.28 (8-9:1), WB=0.41 (3-8:1), SSI=0.53 (9-10:1)

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)	(PSI)	(PLI)	(PSI)	(PLI)
MAX	MIN	MAX	MIN	MAX	MIN
MT20	618	354	1667	822	2284

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

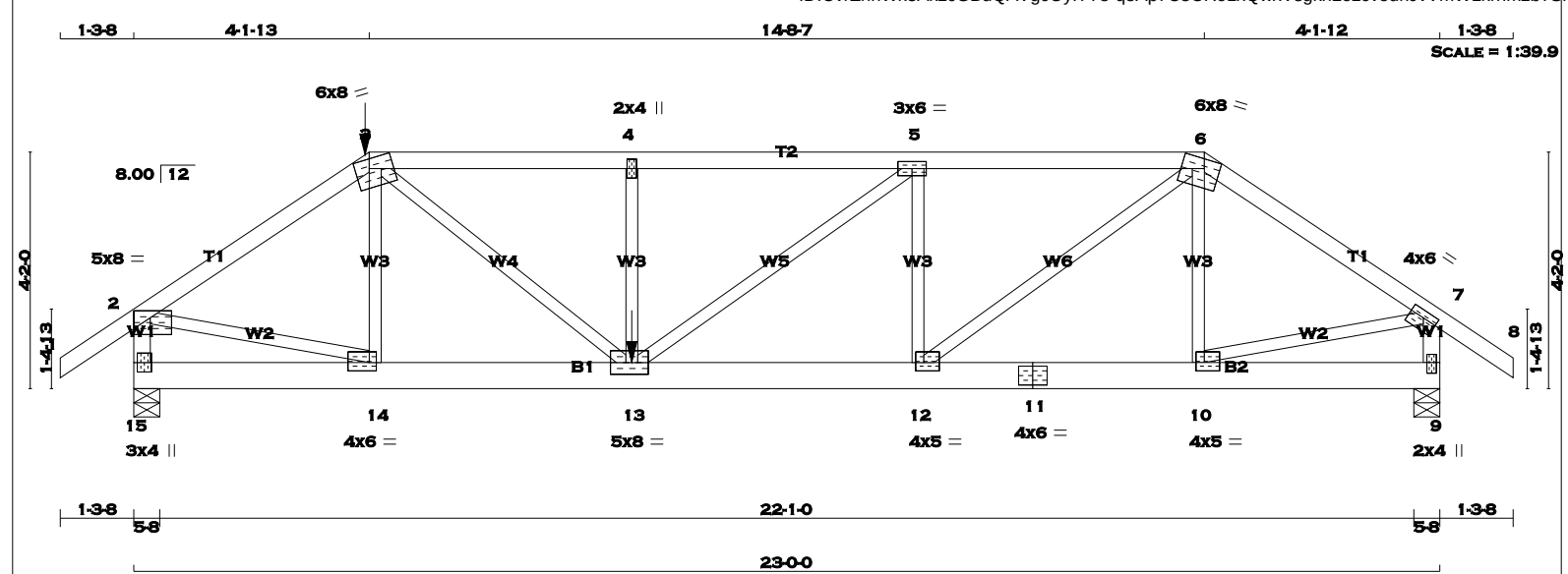
JSI GRIP= 0.90 (7) (INPUT = 0.90)
JSI METAL= 0.41 (8) (INPUT = 1.00)



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LUMBER
N. L. G. A. RULES
CHORDS SIZE LUMBER DESCR.
1 - 3 2x4 DRY No.2 SPF
3 - 6 2x4 DRY No.2 SPF
6 - 8 2x4 DRY No.2 SPF
15 - 2 2x4 DRY No.2 SPF
9 - 7 2x4 DRY No.2 SPF
15 - 11 2x6 DRY No.2 SPF
11 - 9 2x6 DRY No.2 SPF
ALL WEBS 2x3 DRY No.2 SPF
EXCEPT
DRY: SEASONED LUMBER.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER
BEARINGS
FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT REQRD
JT VERT HORZ DOWN HORZ UPLIFT IN-SX BRG IN-SX
15 2423 0 2423 0 0 5-8 5-8
9 1781 0 1781 0 0 5-8 5-8
UNFACTORED REACTIONS
1ST LCASE MAX./MIN. COMPONENT REACTIONS
JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL
15 1700 1195 / 0 0 / 0 0 / 0 505 / 0 0 / 0
9 1247 888 / 0 0 / 0 0 / 0 359 / 0 0 / 0
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 15, 9
BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.84 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.
LOADING
TOTAL LOAD CASES: (4)
CHORDS WEBS
MAX. FACTORED MAX. FACTORED MAX. FACTORED
MEMB. FORCE VERT. LOAD LC1 MAX. MEMB. FORCE MAX.
(LBS) (PLF) CSI (LC) UNBRAC (LBS) CSI (LC)
FR-TO FROM TO LENGTH FR-TO
1-2 0 / 29 -77.3 -77.3 0.11 (1) 10.00 14-3 -344 / 34 0.09 (1)
2-3 -2798 / 0 -77.3 -77.3 0.41 (1) 3.75 3-13 0 / 1897 0.47 (1)
3-4 -3784 / 0 -145.8 -145.8 0.72 (1) 2.84 13-4 -581 / 0 0.15 (1)
4-5 -3784 / 0 -77.3 -77.3 0.66 (1) 3.00 13-5 0 / 919 0.23 (1)
5-6 -3049 / 0 -77.3 -77.3 0.45 (1) 3.58 12-5 -955 / 0 0.25 (1)
6-7 -1975 / 0 -77.3 -77.3 0.34 (1) 4.43 12-6 0 / 1770 0.44 (1)
7-8 0 / 29 -77.3 -77.3 0.11 (1) 10.00 10-6 -293 / 0 0.08 (1)
15-2 -2369 / 0 0.0 0.0 0.26 (1) 5.49 2-14 0 / 2387 0.59 (1)
9-7 -1751 / 0 0.0 0.0 0.20 (1) 6.26 10-7 0 / 1685 0.42 (1)
15-14 0 / 0 -33.0 -33.0 0.08 (4) 10.00
14-13 0 / 2315 -33.0 -33.0 0.40 (1) 10.00
13-12 0 / 3049 -17.5 -17.5 0.49 (1) 10.00
12-11 0 / 1633 -17.5 -17.5 0.24 (1) 10.00
11-10 0 / 1633 -17.5 -17.5 0.24 (1) 10.00
10-9 0 / 0 -17.5 -17.5 0.04 (4) 10.00
FACTORED CONCENTRATED LOADS (LBS)
JT LOC. LC1 MAX- FACE DIR. TYPE
3 4-1-13 -241 -241 --- FRONT VERT TOTAL
13 8-9-4 -1117 -1117 --- FRONT VERT TOTAL

DESIGN CRITERIA
*** SPECIAL LOADS ANALYSIS ***
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.
LOADS WERE DERIVED FROM USER INPUT
NO FURTHER MODIFICATIONS WERE MADE
SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 33.3 PSF
SPACING = 24.0 IN. C/C
LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12
GIRDER TYPE: CPrimeHip
LEFT SETBACK = 4-1-13
RIGHT SETBACK = 4-1-12
END SETBACK = 6-0-0
END WALL WIDTH = 5-8
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDTL LOADS BASED ON 55 % OF GSL.
LOADS APPLIED TO FIRST 8-9-4 OF SPAN MEASURED FROM THE LEFT.
*** NON STANDARD GIRDER ***
ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010
THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011
(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD
ALLOWABLE DEFL.(LL)= L/360 (0.77")
CALCULATED VERT. DEFL.(LL) = L/999 (0.12")
ALLOWABLE DEFL.(TL)= L/360 (0.77")
CALCULATED VERT. DEFL.(TL) = L/999 (0.22")
CSI: TC=0.72 (3-4:1), BC=0.49 (12-13:1), WB=0.59 (2-14:1), SSI=0.33 (3-4:1)
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00 COMP=1.00 SHEAR=1.00 TENS=1.00
COMPANION LIVE LOAD FACTOR = 0.50
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656
PLATE PLACEMENT TOL. = 0.250 inches
PLATE ROTATION TOL. = 0.250 degrees
KOTT

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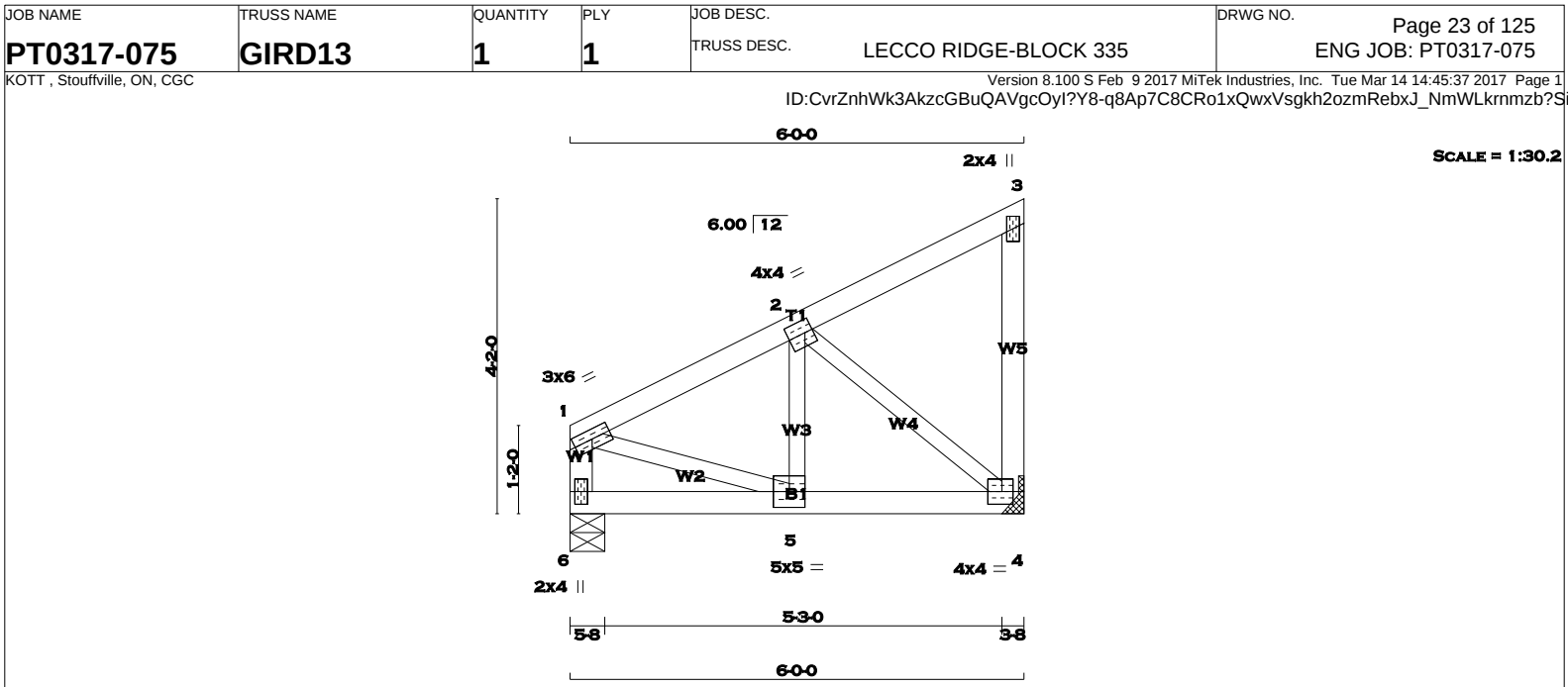
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BUILDING DIVISION

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CONTINUED ON PAGE 2



TOTAL WEIGHT = 26 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2
4 - 3	2x4	DRY	No.2
6 - 1	2x4	DRY	No.2
6 - 4	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
1	TMVW-t	MT20	3.0	6.0		
2	TMVW-t	MT20	4.0	4.0	2.00	1.25
3	TMV+p	MT20	2.0	4.0		
4	BMVW1-t	MT20	4.0	4.0	2.00	1.75
5	BMVW-t	MT20	5.0	5.0		
6	BMV1-p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
4	1117	0	1117	0	0	IN-SX
6	1117	0	1117	0	0	HANGER BY OTHERS

UNFACTORED REACTIONS

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

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.20 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

MEMB.	CHORDS		FACTORED		MAX. UNBRAC LENGTH	MEMB.	WEBS	
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX. (LC)			MAX. FORCE (LBS)	MAX. (LC)
FR-TO		FROM	TO			FR-TO		
1-2	-958 / 0	-77.3	-77.3	0.11 (1)	6.20	5-2	0 / 837	0.21 (1)
2-3	-10 / 0	-77.3	-77.3	0.10 (1)	10.00	2-4	-1101 / 0	0.28 (1)
4-3	-94 / 0	0.0	0.0	0.03 (1)	7.81	1-5	0 / 901	0.22 (1)
6-1	-774 / 0	0.0	0.0	0.09 (1)	7.81			
6-5	0 / 0	-295.1	-295.1	0.45 (1)	10.00			
5-4	0 / 866	-295.1	-295.1	0.60 (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 = 14-2-0
END DISTANCE = 6-0-0
END SPAN CARRIED = 14-2-0
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.11 (1-2:1), BC=0.60 (4-5:1), WB=0.28 (2-4:1), SSI=0.47 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

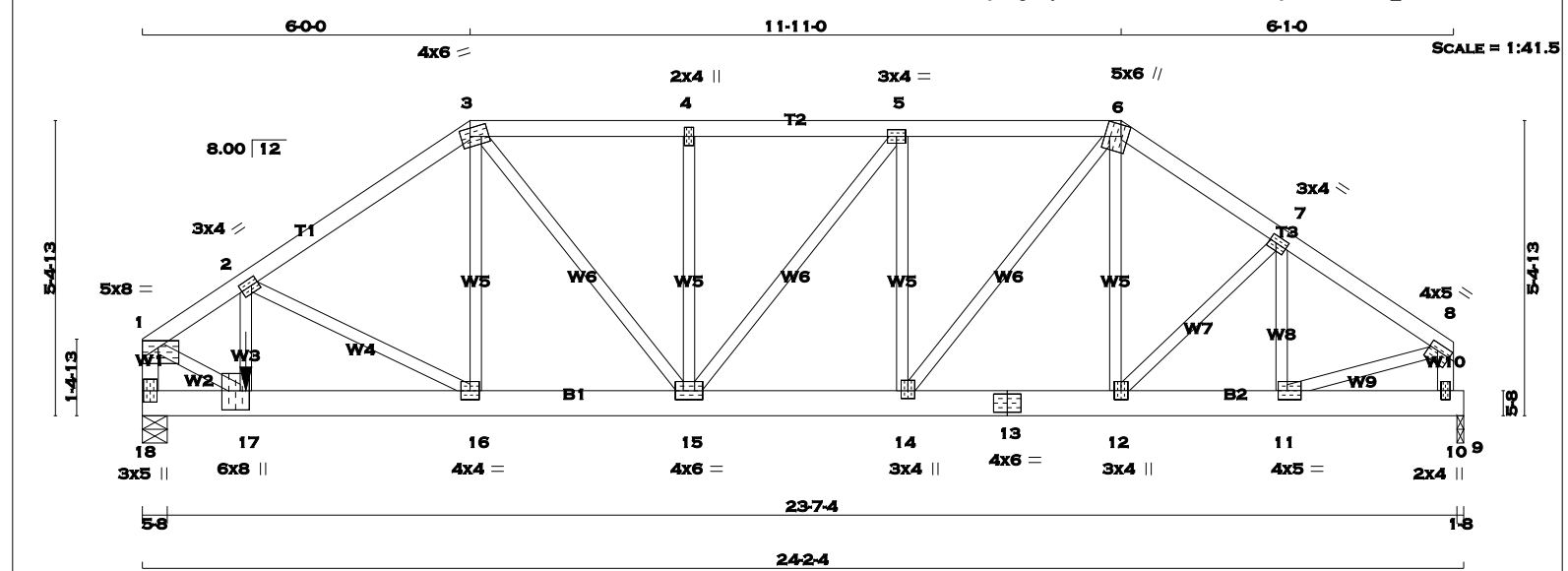
JSI GRIP= 0.87 (2) (INPUT = 0.90)
JSI METAL= 0.32 (4) (INPUT = 1.00)



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LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER				DESIGN CRITERIA			
N. L. G. A. RULES				BEARINGS				*** SPECIAL LOADS ANALYSIS ***			
CHORDS	SIZE	LUMBER	DESCR.	FACTORED	MAXIMUM FACTORED	INPUT	REQRD	GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.			
1 - 3	2x4	DRY	No.2	GROSS REACTION	GROSS REACTION	BRG	BRG	LOADS WERE DERIVED FROM USER INPUT NO FURTHER MODIFICATIONS WERE MADE			
3 - 6	2x4	DRY	No.2	VERT	DOWN	UPLIFT	IN-SX	SPECIFIED LOADS:			
6 - 8	2x4	DRY	No.2	18	2771	0	2771	TOP CH. LL = 23.3 PSF			
18 - 1	2x4	DRY	No.2	9	1271	0	1271	DL = 3.0 PSF			
10 - 8	2x4	DRY	No.2	UNFACTORED REACTIONS				BOT CH. LL = 0.0 PSF			
18 - 13	2x6	DRY	No.2	1ST LCASE	MAX/MIN.	COMPONENT REACTIONS		DL = 7.0 PSF			
13 - 9	2x6	DRY	No.2	COMBINED	SNOW	LIVE	PERM.LIVE	TOTAL LOAD = 33.3 PSF			
ALL WEBS 2x3 DRY No.2				18	1945	1361 / 0	0 / 0	SPACING = 24.0 IN. C/C			
EXCEPT				9	892	622 / 0	0 / 0	LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12			
DRY: SEASONED LUMBER.				BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 18, 9				*** NON STANDARD GIRDER ***			

							BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 18, 9										SPACING = 24.0 IN. C/C									
PLATES (table is in inches)							BRACING															LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12				
JT	TYPE	PLATES	W	LEN	Y	X	TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.04 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.																			
1	TMVW-p	MT20	5.0	8.0	1.50	Edge	ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.															*** NON STANDARD GIRDER *** ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.				
2	TMVW-t	MT20	3.0	4.0	1.50	1.50																				
3	TTWW-m	MT20	4.0	6.0	1.75	2.00																THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010				
4	TMW+w	MT20	2.0	4.0																						
5	TMVW-t	MT20	3.0	4.0																		THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012, BCBC 2012, ABC 2014 - CSA 086-09 - TPIC 2011				
6	TTWW+m	MT20	5.0	6.0	2.50	1.50																				
7	TMVW-t	MT20	3.0	4.0	1.50	1.50																(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				
8	TMVW-t	MT20	4.0	5.0	1.50	2.00																				
10	BMV+p	MT20	2.0	4.0																		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")				
11	BMVW-t	MT20	4.0	5.0	2.00	2.00																				
12	BMVW+t	MT20	3.0	4.0																		CSI: TC=0.30 (1-18:1) , BC=0.43 (16-17:1) , WB=0.62 (1-17:1) , SSI=0.84 (9-10:1)				
13	BS-t	MT20	4.0	6.0																						
14	BMVW+t	MT20	3.0	4.0	1.75	1.50																DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00 COMP=1.00 SHEAR=1.00 TENS= 1.00				
15	BMVW-t	MT20	4.0	6.0																						
16	BMVW-t	MT20	4.0	4.0																		COMPANION LIVE LOAD FACTOR = 0.50				
17	BMVW+t	MT20	6.0	8.0	4.25	2.00																				
18	BMV1+p	MT20	3.0	5.0																		TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE				
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.																										
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.																										
HANGERS NOTES																										
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 1762.6 lbs. FACTORED DOWN AT 1-10-12 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.																										

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

NAIL VALUES

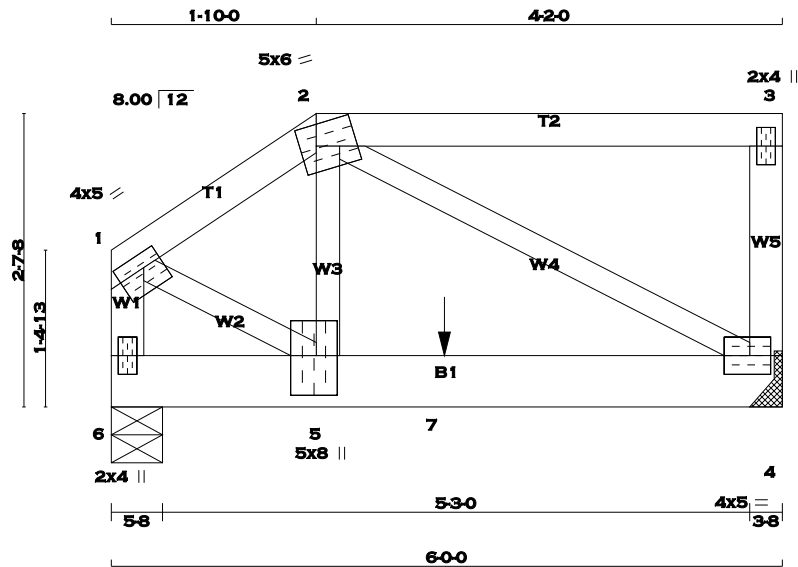
PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	
MAX MIN	MAX MIN	MAX MIN	
MT20	618 354	1667 822	2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (11) (INPUT = 0.90)

JSI METAL= 0.48 (17) (INPUT = 1.00)



SCALE = 1:20.6

TOTAL WEIGHT = 28 lb

<u>LUMBER</u>				
N. L. G. A. RULES				
CHORDS	SIZE		LUMBER	DESCR.
1 - 2	2x4	DRY	No.2	SPF
2 - 3	2x4	DRY	No.2	SPF
4 - 3	2x4	DRY	No.2	SPF
6 - 1	2x4	DRY	No.2	SPF
6 - 4	2x6	DRY	No.2	SPF

ALL WEBS 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	1.50	2.00
2	TTWW-m	MT20	5.0	6.0	2.25	1.75
3	TMV+p	MT20	2.0	4.0		
4	BMVW1-t	MT20	4.0	5.0	2.00	2.25
5	BMVW+t	MT20	5.0	8.0	4.25	2.25
6	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

HANGERS NOTES

- SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 493.0 lbs FACTORED DOWN AT 2-11-12 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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

		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT		VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX	IN-SX	IN-SX
4		1762	0	1762	0	0			
6		1372	0	1372	0	0			

UNFACTORED REACTIONS

		1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
4		1237	865 / 0	0 / 0	0 / 0	0 / 0	372 / 0	0 / 0	
6		963	674 / 0	0 / 0	0 / 0	0 / 0	289 / 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 = 5.33 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		MAX. FACTORED	
		MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)	MAX. CSI (LC)	
FR-TO				FROM TO	LENGTH	FR-TO			
1-2	-1458 / 0		-77.3	-77.3	0.08 (1)	5.33	5-2	0 / 1264	0.31 (1)
2-3	0 / 0		-77.3	-77.3	0.25 (1)	10.00	2-4	-1438 / 0	0.49 (1)
4-3	-161 / 0		0.0	0.0	0.02 (1)	7.81	1-5	0 / 1359	0.34 (1)
6-1	-1508 / 0		0.0	0.0	0.17 (1)	6.65			
6-5	0 / 0		-230.9	-230.9	0.51 (1)	10.00			
5-7	0 / 1267		-230.9	-230.9	0.80 (1)	10.00			
7-4	0 / 1267		-493.0	-493.0	0.80 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
7	2-11-12	-493	-493	---	FRONT	VERT	TOTAL

DESIGN CRITERIA

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

SPECIFIED LOADS:

TOP CH.	LL =	23.3	PSF
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 6.00/12

GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 11-5-8
END DISTANCE = 2-11-12
END SPAN CARRIED = 11-5-8
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

GIRDER TYPE: CStdGirder
START DISTANCE = 2-11-12
START SPAN CARRIED = 22-2-2
END DISTANCE = 6-0-0
END SPAN CARRIED = 22-2-2
END WALL WIDTH = 1-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 858 (0.08")

CSI: TC=0.25 (2-3:1) , BC=0.80 (4-5:1) , WB=0.49 (2-4:1) , SSI=0.86 (4-5:1)

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

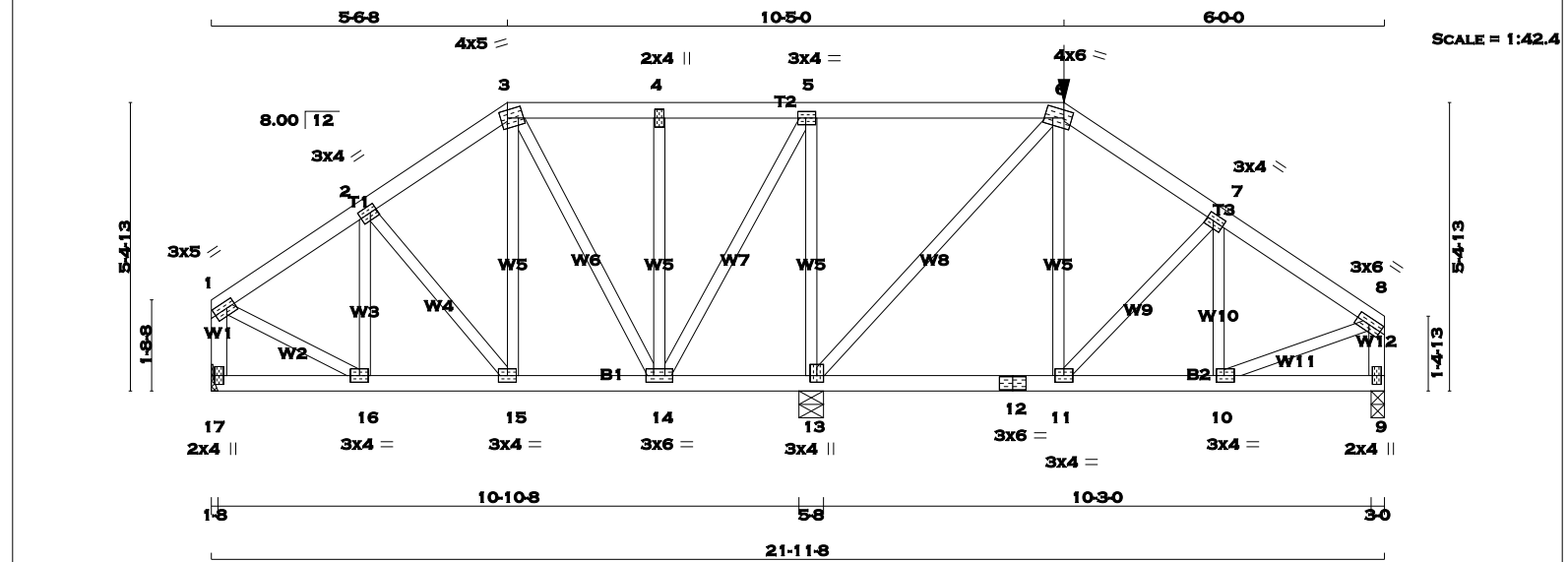
COMPANION LIVE LOAD FACTOR = 0.50

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



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LUMBER				N. L. G. A. RULES	
CHORDS	SIZE	LUMBER	DESCR.	CHORDS	SIZE
1 - 3	2x4	DRY	No.2	SPF	
3 - 6	2x4	DRY	No.2	SPF	
6 - 8	2x4	DRY	No.2	SPF	
17- 1	2x4	DRY	No.2	SPF	
9 - 8	2x4	DRY	No.2	SPF	
17- 12	2x4	DRY	No.2	SPF	
12 - 9	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	3.0	5.0	1.50	2.00
2	TMVW-t	MT20	3.0	4.0	1.50	1.50
3	TTWW-m	MT20	4.0	5.0	1.75	1.50
4	TMW-w	MT20	2.0	4.0		
5	TMVW-t	MT20	3.0	4.0	1.50	1.75
6	TTWW-m	MT20	4.0	6.0	1.75	1.75
7	TMVW-t	MT20	3.0	4.0	1.50	1.50
8	TMVW-t	MT20	3.0	6.0		
9	BMV1+p	MT20	2.0	4.0		
10	BMVW-t	MT20	3.0	4.0	1.50	1.75
11, 15, 16						
11	BMVW-t	MT20	3.0	4.0		
12	BS-t	MT20	3.0	6.0		
13	BMVW1+t	MT20	3.0	4.0	1.50	1.50
14	BMVW-t	MT20	3.0	6.0		
17	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

HANGERS NOTES
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 348.1 lbs FACTORED DOWN AT 15-11-8 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.



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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT	VERT	JT	HORZ	JT	IN-SX	JT	IN-SX
17	493	0	493	0	0	HANGER BY OTHERS	
MIN. SEAT SIZE: 1-8							
13	1672	0	1672	0	0	5-8	5-8
9	785	0	785	0	0	3-0	3-0

UNFACTORED REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
17	346	243 / 0	0 / 0	0 / 0	0 / 0	103 / 0	0 / 0
13	1172	828 / 0	0 / 0	0 / 0	0 / 0	345 / 0	0 / 0
9	554	368 / 0	0 / 0	0 / 0	0 / 0	186 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 9

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED LC1 MAX. (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED LC1 MAX. (LC)	
FR-TO		FROM TO		FR-TO			
1-2	-388 / 0	-77.3 -77.3	0.10 (1)	6-25	16-2	-110 / 14	0.03 (1)
2-3	-316 / 0	-77.3 -77.3	0.10 (1)	6-25	2-15	-130 / 0	0.04 (1)
3-4	-154 / 0	-77.3 -77.3	0.12 (1)	6-25	15-3	0 / 158	0.04 (1)
4-5	-154 / 0	-77.3 -77.3	0.45 (1)	6-25	3-14	-205 / 0	0.12 (1)
5-6	0 / 14	-149.9 -149.9	0.45 (1)	10.00	14-4	-114 / 0	0.05 (1)
6-7	-658 / 0	-77.3 -77.3	0.12 (1)	6-25	14-5	0 / 345	0.09 (1)
7-8	-748 / 0	-77.3 -77.3	0.12 (1)	6-25	13-5	-934 / 0	0.42 (1)
17-1	-471 / 0	0.0 0.0	0.06 (1)	7.81	13-6	-813 / 0	0.73 (1)
9-8	-739 / 0	0.0 0.0	0.08 (1)	7.81	11-6	0 / 230	0.08 (4)
					11-7	-145 / 0	0.05 (1)
17-16	0 / 0	-17.5 -17.5	0.03 (4)	10.00	10-7	-115 / 49	0.02 (1)
16-15	0 / 334	-17.5 -17.5	0.08 (1)	10.00	1-16	0 / 370	0.09 (1)
15-14	0 / 254	-17.5 -17.5	0.07 (1)	10.00	10-8	0 / 671	0.17 (1)
14-13	-14 / 0	-17.5 -17.5	0.14 (4)	6.25			
13-12	0 / 539	-33.9 -33.9	0.20 (1)	10.00			
12-11	0 / 539	-33.9 -33.9	0.20 (1)	10.00			
11-10	0 / 634	-33.9 -33.9	0.17 (4)	10.00			
10-9	0 / 0	-33.9 -33.9	0.08 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)				FACE	DIR.	TYPE
JT	LOC.	LC1	MAX- MAX+	FRONT	VERT	TOTAL
6	15-11-8	-348	-348	---		

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 6.00/12

GIRDER TYPE: CPrimeHip
LEFT SETBACK = 5-6-8
RIGHT SETBACK = 6-0-0
END SETBACK = 6-0-0
END WALL WIDTH = 3-0
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDTL LOADS BASED ON 55 % OF GSL.
LOADS APPLIED TO FIRST 10-6-0 OF SPAN MEASURED FROM THE RIGHT.

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 (0.36")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.36")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.02")

CSI: TC=0.45 (5-6-1) , BC=0.20 (11-13-1) , WB=0.73 (6-13-1) , SI=0.36 (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)	
MT20	618	354	1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

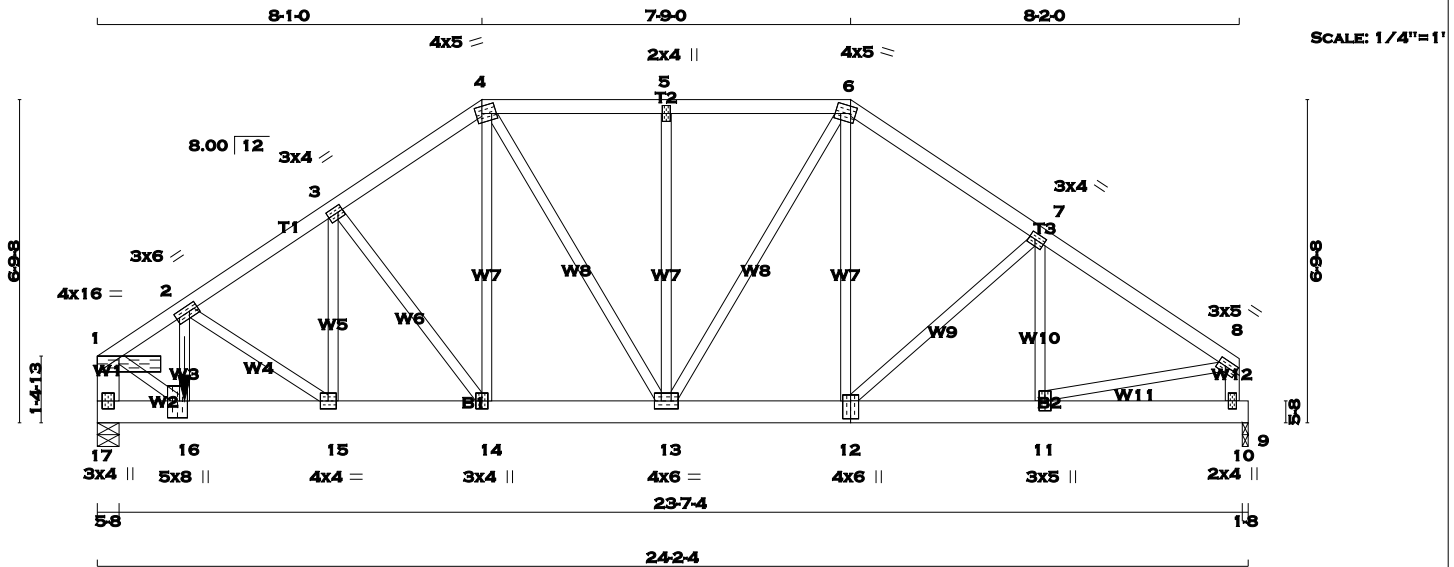
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (10) (INPUT = 0.90)
JSI METAL= 0.26 (6) (INPUT = 1.00)

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READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE 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 127 = 380 lb [M]

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2
4 - 6	2x4	DRY	No.2
6 - 8	2x4	DRY	No.2
17 - 1	2x6	DRY	No.2
10 - 8	2x4	DRY	No.2
17 - 12	2x6	DRY	No.2
12 - 9	2x6	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2

DRY: SEASONED LUMBER.

DESIGN CONSISTS OF **3** TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
1-4	12	TOP
4-6	12	TOP
6-8	12	TOP
10-8	12	TOP
17-1	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
17-12	4	SIDE(1501.3)
12-9	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	

STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.

GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.

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	X
1	TMWW-p	MT20	4.0	16.0	0.50 Edge
2	TMWW-t	MT20	3.0	6.0	1.50 2.25

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
17	6807	0	6807	0	5-8
9	1568	0	1568	0	1-8

UNFACTORED REACTIONS						
JT	1ST LCASE	MAX./MIN.	COMPONENT	REACTIONS		
17	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
17	4778	3342 / 0	0 / 0	0 / 0	0 / 0	1435 / 0
9	1100	768 / 0	0 / 0	0 / 0	0 / 0	332 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 17, 9

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.73 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)	
FR-TO		FROM TO		FR-TO			
1-2	-6030 / 0	-77.3 -77.3	0.07 (1)	4.73	16-2	0 / 2606	0.20 (1)
2-3	-3611 / 0	-77.3 -77.3	0.06 (1)	5.78	2-15	-2428 / 0	0.20 (1)
3-4	-2468 / 0	-77.3 -77.3	0.05 (1)	6.25	15-3	0 / 1653	0.12 (1)
4-5	-1934 / 0	-77.3 -77.3	0.06 (1)	6.25	3-14	-1646 / 0	0.26 (1)
5-6	-1934 / 0	-77.3 -77.3	0.06 (1)	6.25	14-4	0 / 1355	0.10 (1)
6-7	-1884 / 0	-77.3 -77.3	0.07 (1)	6.25	4-13	-239 / 0	0.08 (1)
7-8	-1974 / 0	-77.3 -77.3	0.07 (1)	6.25	13-5	-352 / 0	0.08 (1)
17-1	-6156 / 0	0.0 0.0	0.13 (1)	7.06	13-6	0 / 741	0.06 (1)
10-8	-1606 / 0	0.0 0.0	0.05 (1)	7.81	12-6	0 / 162	0.01 (1)
					12-7	-150 / 0	0.03 (1)
17-16	0 / 0	-406.8 -406.8	0.12 (1)	10.00	11-7	-217 / 5	0.02 (1)
16-15	0 / 5004	-17.5 -17.5	0.31 (1)	10.00	1-16	0 / 5696	0.43 (1)
15-14	0 / 3024	-17.5 -17.5	0.13 (1)	10.00	11-8	0 / 1700	0.13 (1)
14-13	0 / 2058	-17.5 -17.5	0.09 (1)	10.00			
13-12	0 / 1550	-17.5 -17.5	0.07 (1)	10.00			
12-11	0 / 1658	-17.5 -17.5	0.07 (1)	10.00			
11-10	0 / 0	-17.5 -17.5	0.07 (1)	10.00			
10-9	0 / 0	-17.5 -17.5	0.07 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)					
JT	LOC.	LC1	MAX-	MAX+	FACE
16	1-10-0	-5382	-5382	---	FRONT

DESIGN CRITERIA

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

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

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 18-10-8
END DISTANCE = 1-10-0
END SPAN CARRIED = 18-10-8
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.81")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.81")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.05")

CSI: TC=0.13 (1-17:1) , BC=0.31 (15-16:1) , WB=0.43 (1-16:1) , SSI=0.32 (9-10:1)

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= 0.85 (if PU = 0.90)
JSI METAL= 0.93 (if IN = 1.00)

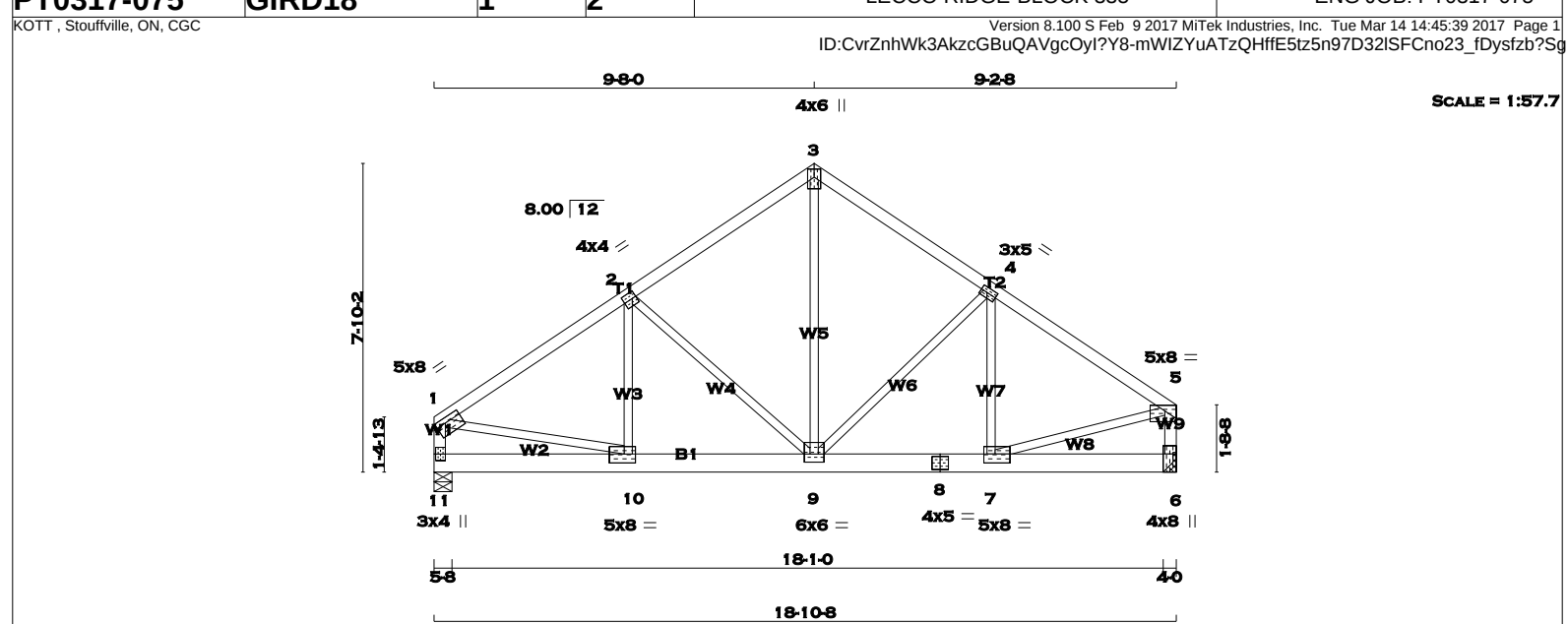


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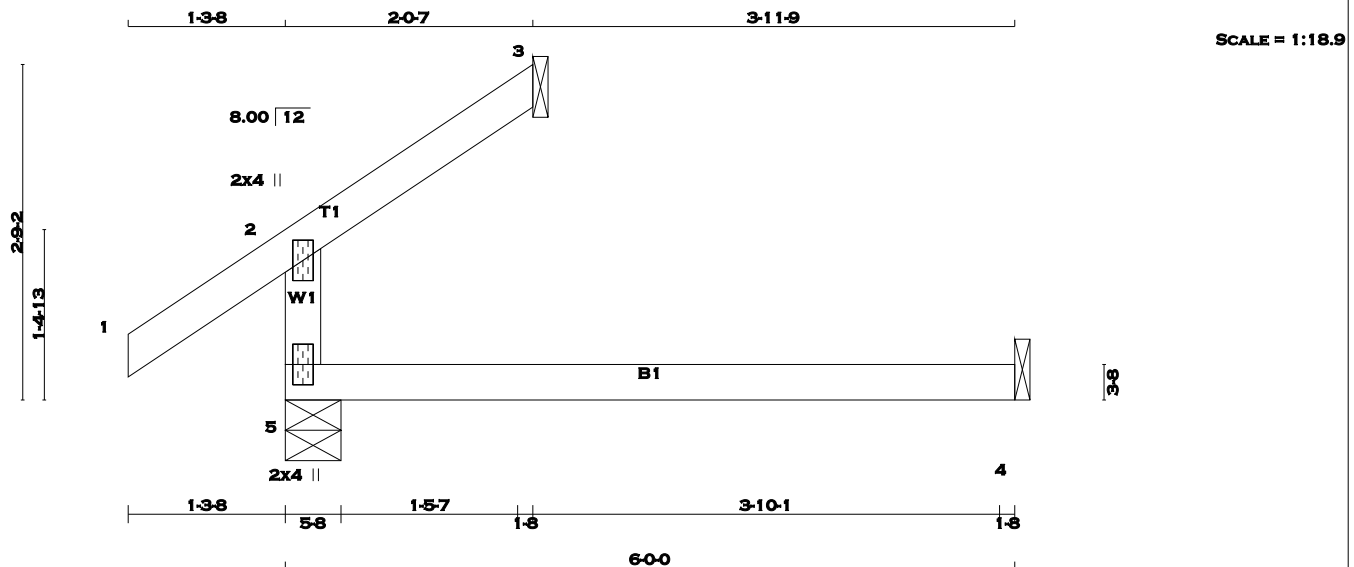
READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT , Stouffville, ON, CGC

ENG JOB: PT0317-075



LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER				DESIGN CRITERIA			
N. L. G. A. RULES				BEARINGS				SPECIFIED LOADS:			
CHORDS	SIZE	LUMBER	DESCR.	FACTORED	MAXIMUM FACTORED	INPUT	REQRD	TOP CH.	LL	=	23.3 PSF
1 - 3	2x4	DRY	No.2	GROSS REACTION	GROSS REACTION	BRG	BRG	DL	=	3.0 PSF	
3 - 5	2x4	DRY	No.2	VERT	DOWN	HORZ	UPLIFT	IN-SX			
11- 1	2x4	DRY	No.2	11 5382 0	5382 0	0	0	5-8	5-8		
6 - 5	2x4	DRY	No.2	6 5382 0	5382 0	0	0	HANGER BY OTHERS			
11- 8	2x6	DRY	No.2					MIN. SEAT SIZE: 4-0			
8 - 6	2x6	DRY	No.2								
ALL WEBS 2x3 DRY No.2				UNFACTORED REACTIONS				SPACING = 24.0 IN./C/C			
EXCEPT				1ST LCASE	MAX./MIN.	COMPONENT REACTIONS		GIRDER TYPE: CStdGirder			
DRY: SEASONED LUMBER.				JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:				11	3777	2642 / 0	0 / 0	0 / 0	0 / 0	1135 / 0	0 / 0
CHORDS #ROWS SURFACE SPACING (IN) LOAD(PLF)				6	3777	2642 / 0	0 / 0	0 / 0	0 / 0	1135 / 0	0 / 0
TOP CHORDS : (0.122"x3") SPIRAL NAILS				BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 11				THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010			
1- 3	1	12	TOP	BRACING				THIS DESIGN COMPLIES WITH:			
3- 5	1	12	TOP	TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.85 FT.				- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014			
11- 1	1	12	TOP	MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.				- CSA 086-09			
6- 5	1	12	TOP	ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.				- TPIC 2011			
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS				LOADING				(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			
11- 8	2	9	SIDE(237.7)	CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MAX.	MEMB.
8- 6	2	9	SIDE(237.7)	MEMB.	FORCE (LBS)	VERT. (PLF)	CSI (LC)	UNBRAC	LENGTH	FR-TO	MEMB.
WEBS : (0.122"x3") SPIRAL NAILS				FR-TO	FROM	TO	FROM	TO	LENGTH	FR-TO	MEMB.
2x3	1	6		1- 2	-5803 / 0	-77.3	-77.3	0.32 (1)	3.85	10- 2	0 / 1646
NAILS TO BE DRIVEN FROM ONE SIDE ONLY.				2- 3	-4246 / 0	-77.3	-77.3	0.22 (1)	4.47	2- 9	-1791 / 0
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.				3- 4	-4245 / 0	-77.3	-77.3	0.20 (1)	4.48	9- 3	0 / 4399
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.				4- 5	-5407 / 0	-77.3	-77.3	0.24 (1)	4.00	9- 4	-1399 / 0
PLATES (table is in inches)				11- 1	-4365 / 0	0.0	0.0	0.24 (1)	5.70	7- 4	0 / 1228
JT	TYPE	PLATES	W	LEN	Y	X				1-10	0 / 4942
1	TMVW-t	MT20	5.0	8.0	1.50	3.00				7- 5	0 / 4682
2	TMVW-t	MT20	4.0	4.0	2.00	1.25					
3	TTW+p	MT20	4.0	6.0	2.50	2.00					
4	TMVW-t	MT20	3.0	5.0	1.50	2.00					
5	TMVW-p	MT20	5.0	8.0	1.75	Edge					
6	BMV1+t	MT20	4.0	8.0	Edge	0.50					
7	BMVW-t	MT20	5.0	8.0	2.75	3.50					
8	BS-t	MT20	4.0	5.0							
RECEIVED TOWN OF MILTON MAR 29, 2017 17-5187 BUILDING DIVISION				READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.				COMPANION LIVE LOAD FACTOR = 0.50			
LICENSED PROFESSIONAL ENGINEER P. TREVISAN 100136551 March 14th, 2017 PROVINCE OF ONTARIO				TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .				NAIL VALUES			
				DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00 COMP=1.00 SHEAR=1.00 TENS= 1.00				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 (1) (INPUT = 0.90)				JSI METAL= 0.57 (1) (INPUT = 1.00)			
				KOTT				CONTINUED ON PAGE 2			



TOTAL WEIGHT = 2 X 13 = 25 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		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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	IN-SX	
5	265	0	265	0	0	5-8	5-8	
3	60	0	60	0	0	1-8	1-8	
4	44	0	49	0	0	1-8	1-8	

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX./MIN. SNOW		LIVE		PERM.LIVE		WIND		DEAD		SOIL	
	SNOW	WIND	SNOW	WIND	SNOW	WIND	SNOW	WIND	SNOW	WIND	SNOW	WIND	SNOW	WIND
5	188	123 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	65 / 0	0 / 0	65 / 0	0 / 0	0 / 0	0 / 0
3	40	36 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	5 / 0	0 / 0	5 / 0	0 / 0	0 / 0	0 / 0
4	35	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	35 / 0	0 / 0	35 / 0	0 / 0	0 / 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.	CHORDS		FACTORED		WEB S		FACTORED	
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. FORCE (LBS)	VERT. LOAD (PLF)
FR-TO								
5-2	-204 / 0	0.0	0.0	0.12 (4)	7.81			
1-2	0 / 29	-77.3	-77.3	0.10 (1)	10.00			
2-3	-11 / 0	-77.3	-77.3	0.05 (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=0.12 (2-5:4), BC=0.13 (4-5:4), WB=0.00 (n/a:0), SSI=0.08 (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)
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.

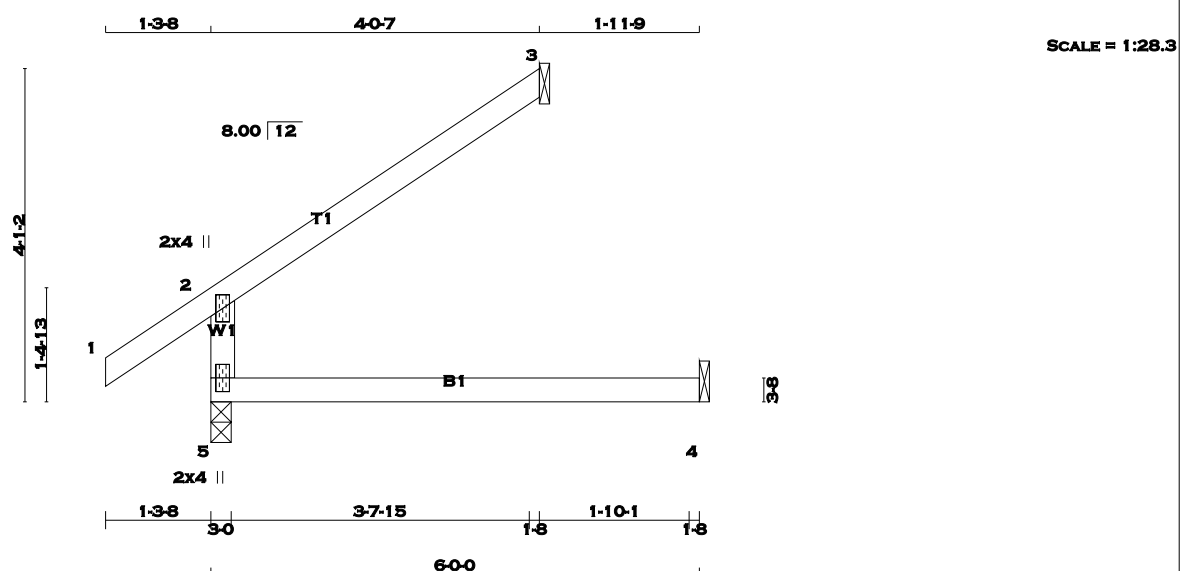
JSI GRIP= 0.13 (2) (INPUT = 0.90)
JSI METAL= 0.05 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 2 X 15 = 31 lb [M][F]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
5 - 2	2x4	No.2	SPF
1 - 3	2x4	No.2	SPF
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		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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	IN-SX	IN-SX
5	362	0	362	0	0	3-0	3-0	3-0
3	117	0	117	0	0	1-8	1-8	1-8
4	44	0	49	0	0	1-8	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		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
5	254	181 / 0	0 / 0	0 / 0	0 / 0	72 / 0	0 / 0
3	80	71 / 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)

CHORDS					WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX	
FR-TO		FROM TO	CSI (LC)	LENGTH	FR-TO		CSI (LC)	
5-2	-301 / 0	0.0	0.0	0.10 (4)	7.81			
1-2	0 / 29	-77.3	-77.3	0.10 (1)	10.00			
2-3	-22 / 0	-77.3	-77.3	0.16 (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=0.16 (2-3:1), BC=0.13 (4-5:4), WB=0.00 (n/a:0), SSI=0.13 (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.

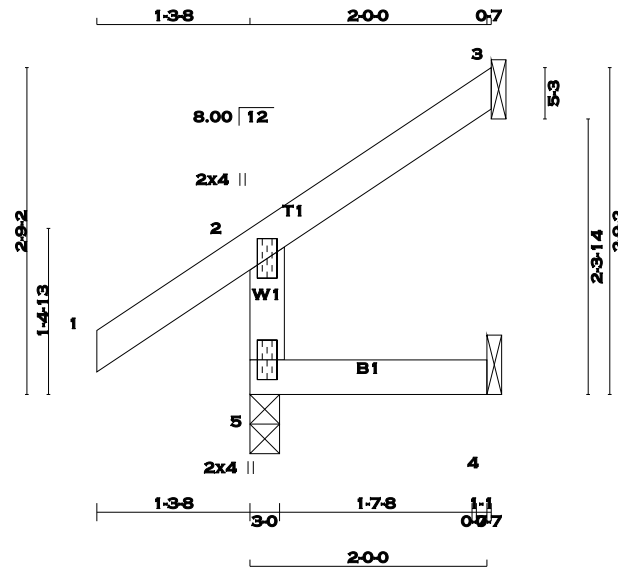
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JSI METAL= 0.07 (2) (INPUT = 1.00)



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SCALE = 1:19.4

TOTAL WEIGHT = 2 X 8 = 16 lb [M]

LUMBER
N. L. G. A. RULES

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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	223	0	223	0	3-0	3-0
3	60	0	60	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

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	154	123 / 0	0 / 0	0 / 0	0 / 0	31 / 0	0 / 0
3	40	36 / 0	0 / 0	0 / 0	0 / 0	5 / 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.	CHORDS		FACTORED		MAX. UNBRAC	WEBS	
	MAX. FACTORED	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX. (LC)		MEMB. FORCE (LBS)	MAX. FACTORED (LC)
FR-TO			FROM	TO		FR-TO	
5-2	-204 / 0		0.0	0.0	0.01 (4)	7.81	
1-2	0 / 29		-77.3	-77.3	0.10 (1)	10.00	
2-3	-11 / 0		-77.3	-77.3	0.05 (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=0.10 (1-2:1), BC=0.02 (4-5:4), WB=0.00 (n/a:0), SSI=0.07 (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.

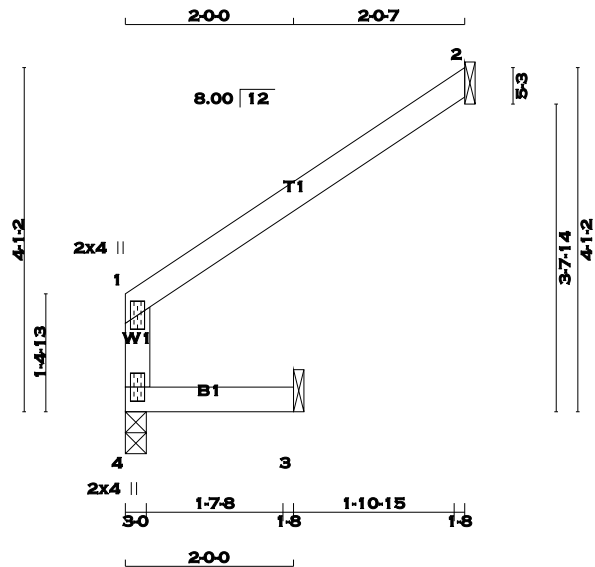
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JSI METAL= 0.05 (2) (INPUT = 1.00)



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SCALE = 1:27.4

TOTAL WEIGHT = 2 X 9 = 18 lb

LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
4 - 1	2x4	DRY	No.2		SPF
1 - 2	2x4	DRY	No.2		SPF
4 - 3	2x4	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		
4	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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	IN-SX	
4	155	0	155	0	0	3-0	3-0	
2	138	0	138	0	0	1-8	1-8	
3	54	0	54	0	0	1-8	1-8	

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) 2 , 3

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX./MIN. SNOW		LIVE		PERM.LIVE		WIND		DEAD		SOIL	
4	107		82 / 0		0 / 0		0 / 0		0 / 0		25 / 0		0 / 0	
2	94		83 / 0		0 / 0		0 / 0		0 / 0		11 / 0		0 / 0	
3	39		23 / 0		0 / 0		0 / 0		0 / 0		16 / 0		0 / 0	

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

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		MAX. FACTORED		WEBS		MAX. FACTORED	
	FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX	LC1	MAX	MEMB.	FORCE (LBS)	MAX	LC1
FR-TO		FROM TO					LENGTH FR-TO			
4-1	-174 / 0	0.0	0.0	0.09 (1)	7.81					
1-2	-10 / 0	-77.3	-77.3	0.16 (1)	6.25					
4-3	0 / 0	-17.5	-17.5	0.10 (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 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.00")

CSI: TC=0.16 (1-2:1) , BC=0.10 (3-4:1) , WB=0.00 (n/a:0) , SSI=0.11 (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.

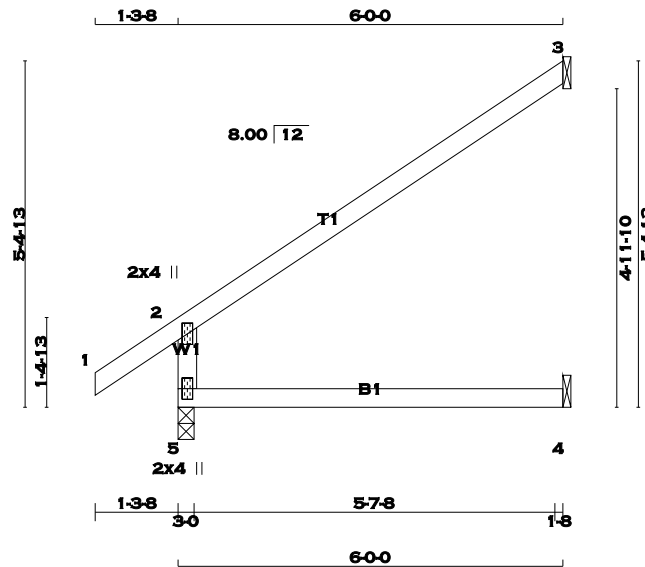
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JSI METAL= 0.04 (1) (INPUT = 1.00)



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SCALE = 1:35.9

TOTAL WEIGHT = 4 X 18 = 73 lb

LUMBER
N. L. G. A. RULES
CHORDS SIZE LUMBER DESCR.

5 - 2	2x4	DRY	No.2	SPF
1 - 3	2x4	DRY	No.2	SPF
5 - 4	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
5	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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	3-0	3-0
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	239 / 0	0 / 0	0 / 0	0 / 0	80 / 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		MAX. UNBRAC	WEBS	
	MAX. FACTORED	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX		MEMB. FORCE (LBS)	MAX. FACTORED
FR-TO							
5-2	-396 / 0		0.0	0.0	0.10 (4)	7.81	
1-2	0 / 29		-77.3	-77.3	0.10 (1)	10.00	
2-3	-32 / 0		-77.3	-77.3	0.36 (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=0.36 (2-3:1), BC=0.13 (4-5:4), WB=0.00 (n/a:0), SSI=0.19 (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.

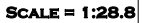
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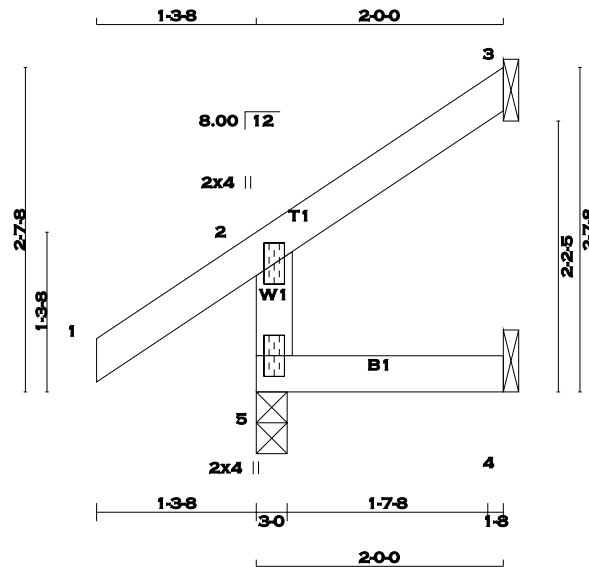
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[M]



SCALE = 1:18.6

TOTAL WEIGHT = 4 X 8 = 32 lb [M]

LUMBER
N. L. G. A. RULES

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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	IN-SX
5	222	0	222	0	0	3-0	3-0
3	58	0	58	0	0	1-8	1-8
4	16	0	18	0	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	153	122 / 0	0 / 0	0 / 0	0 / 0	31 / 0	0 / 0
3	40	35 / 0	0 / 0	0 / 0	0 / 0	5 / 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)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX CSI (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM	TO		LENGTH	FR-TO			
5-2	-202 / 0	0.0	0.0	0.01 (4)	7.81				
1-2	0 / 29	-77.3	-77.3	0.10 (1)	10.00				
2-3	-10 / 0	-77.3	-77.3	0.05 (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=0.10 (1-2:1), BC=0.02 (4-5:4), WB=0.00 (n/a:0), SSI=0.07 (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.

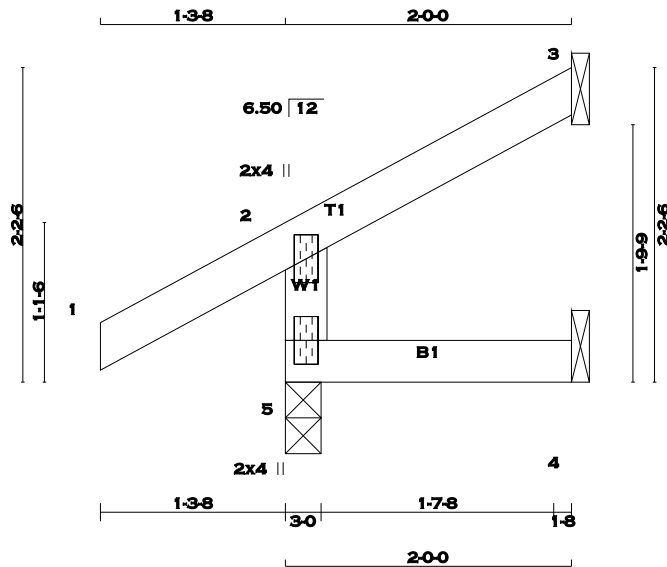
JSI GRIP= 0.13 (2) (INPUT = 0.90)
JSI METAL= 0.05 (2) (INPUT = 1.00)



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SCALE: 3/4"=1'

TOTAL WEIGHT = 7 lb [M]

LUMBER
N. L. G. A. RULES

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX
5	221	0	221	0	0	3-0	3-0	3-0
3	58	0	58	0	0	1-8	1-8	1-8
4	16	0	17	0	0	1-8	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	153	121/0	0/0	0/0	0/0	31/0	0/0
3	40	35/0	0/0	0/0	0/0	5/0	0/0
4	12	0/0	0/0	0/0	0/0	12/0	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 = 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)

MEMB.	CHORDS		FACTORED		WEBS		FACTORED	
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. LC1 (LC)	MAX. UNBRAC (LC)	MEMB. FORCE (LBS)	MAX. FORCE (LBS)	MAX. LC1 (LC)	MAX. UNBRAC (LC)
FR-TO								
5-2	-202 / 0	0.0	0.0	0.01 (4)	7.81			
1-2	0 / 25	-77.3	-77.3	0.10 (1)	10.00			
2-3	-9 / 0	-77.3	-77.3	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 (1-2:1) , BC=0.02 (4-5:4) , WB=0.00 (n/a:0) , SSI=0.07 (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.

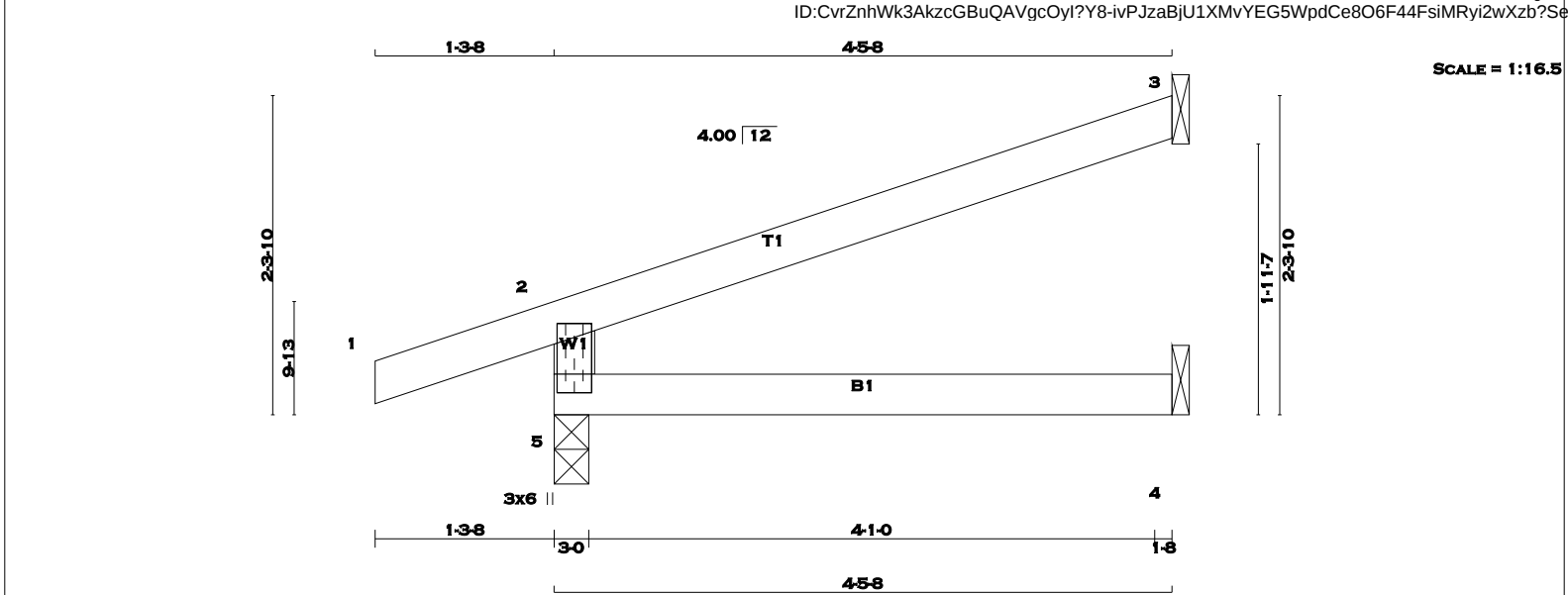
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JSI METAL= 0.05 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 3 X 12 = 37 lb [M]

LUMBER				DESCR.	SPF
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						
5	TMBMV1+p	MT20	3.0	6.0	3.50	1.50

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

BEARINGS			FACTORED			MAXIMUM FACTORED			INPUT			REQRD		
JT	GROSS	REACTION	DOWN	HORZ	UPLIFT	BRG	IN-SX	BRG	IN-SX	BRG	IN-SX	BRG	IN-SX	BRG
5	365	0	365	0	0	3-0	3-0	3-0	3-0	3-0	3-0	3-0	3-0	3-0
3	129	0	129	0	0	1-8	1-8	1-8	1-8	1-8	1-8	1-8	1-8	1-8
4	32	0	36	0	0	1-8	1-8	1-8	1-8	1-8	1-8	1-8	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	254	192 / 0	0 / 0	0 / 0	0 / 0	62 / 0	0 / 0	
3	88	78 / 0	0 / 0	0 / 0	0 / 0	10 / 0	0 / 0	
4	25	0 / 0	0 / 0	0 / 0	0 / 0	25 / 0	0 / 0	

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS			WEBS		
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO		FR-TO	
5-2	-319 / 0	0.0 0.08 (4)	7.81		
1-2	0 / 16	-77.3 -77.3 0.10 (1)	10.00		
2-3	-14 / 0	-77.3 -77.3 0.26 (1)	6.25		
5-4	0 / 0	-17.5 -17.5 0.08 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

CSI: TC=0.26 (2-3:1), BC=0.08 (4-5:4), WB=0.00 (n/a:0), SSI=0.16 (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
MT20	618	354	1667

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

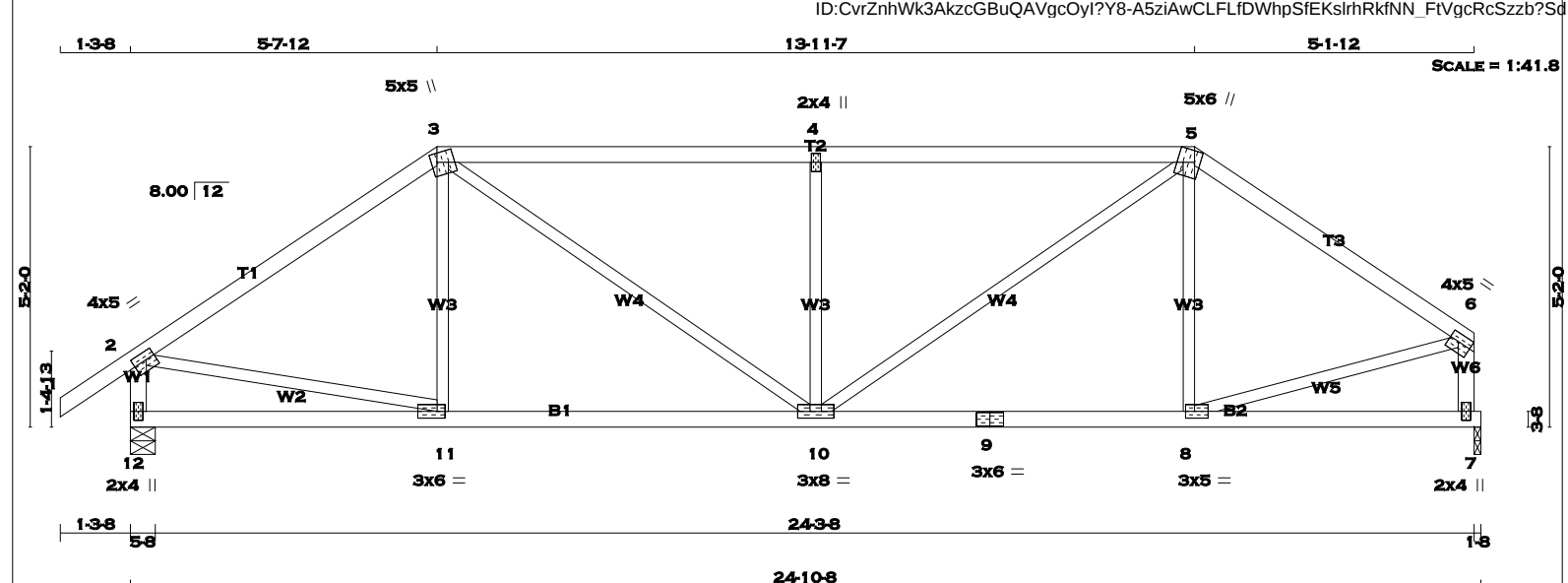
JSI GRIP= 0.27 (5) (INPUT = 0.90)
JSI METAL= 0.04 (5) (INPUT = 1.00)



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LUMBER
 N. L. G. A. RULES
 CHORDS SIZE LUMBER DESCR.

1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
5 - 6	2x4	DRY	No.2	SPF
12 - 2	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
12 - 9	2x4	DRY	No.2	SPF
9 - 7	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	5.0	1.75	2.00
3	TTWW+m	MT20	5.0	5.0	2.00	1.25
4	TMW+w	MT20	2.0	4.0		
5	TTWW+m	MT20	5.0	6.0	Edge	3.75
6	TMVW-t	MT20	4.0	5.0	1.75	Edge
7	BMV1+p	MT20	2.0	4.0		
8	BMWW-t	MT20	3.0	5.0	1.50	2.00
9	BS-t	MT20	3.0	6.0		
10	BMWWW-t	MT20	3.0	8.0		
11	BMWW-t	MT20	3.0	6.0	1.50	1.75
12	BMV1+p	MT20	2.0	4.0		

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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
12	1280	1280	5-8	5-8
7	1174	1174	1-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX. SNOW	MIN. LIVE	PERM. LIVE	WIND	DEAD	SOIL
12	896	640 / 0	0 / 0	0 / 0	0 / 0	256 / 0	0 / 0
7	824	576 / 0	0 / 0	0 / 0	0 / 0	248 / 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 = 4.14 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
 TOTAL LOAD CASES: (4)



CHORDS

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	LC1 MAX (PLF)	CS1 (LC)	UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CS1 (LC)
FR-TO		FROM	TO			FR-TO		
1-2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	11-3	-77 / 76	0.03 (1)
2-3	-1287 / 0	-77.3	-77.3	0.51 (1)	5.04	3-10	0 / 641	0.14 (1)
3-4	-1594 / 0	-77.3	-77.3	0.78 (1)	4.14	10-4	-663 / 0	0.26 (1)
4-5	-1594 / 0	-77.3	-77.3	0.78 (1)	4.14	10-5	0 / 725	0.16 (1)
5-6	-1206 / 0	-77.3	-77.3	0.41 (1)	5.31	8-5	-150 / 50	0.06 (1)
12-2	-1241 / 0	0.0	0.0	0.13 (1)	7.20	2-11	0 / 1088	0.24 (1)
7-6	-1140 / 0	0.0	0.0	0.12 (1)	7.45	8-6	0 / 1038	0.23 (1)
12-11	0 / 0	-17.5	-17.5	0.16 (4)	10.00			
11-10	0 / 1068	-17.5	-17.5	0.26 (1)	10.00			
10-9	0 / 999	-17.5	-17.5	0.25 (1)	10.00			
9-8	0 / 999	-17.5	-17.5	0.25 (1)	10.00			
8-7	0 / 0	-17.5	-17.5	0.15 (4)	10.00			

WEBS

MEMB.	MAX. FACTORED FORCE (LBS)	MAX CS1 (LC)
FR-TO		
11-3	-77 / 76	0.03 (1)
3-10	0 / 641	0.14 (1)
10-4	-663 / 0	0.26 (1)
10-5	0 / 725	0.16 (1)
8-5	-150 / 50	0.06 (1)
2-11	0 / 1088	0.24 (1)
8-6	0 / 1038	0.23 (1)

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 6.00/12

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 (0.82")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
 ALLOWABLE DEFL.(TL)= L/360 (0.82")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.11")

CSI: TC=0.78 (3-4:1), BC=0.26 (10-11:1), WB=0.26 (4-10:1), SSI=0.26 (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

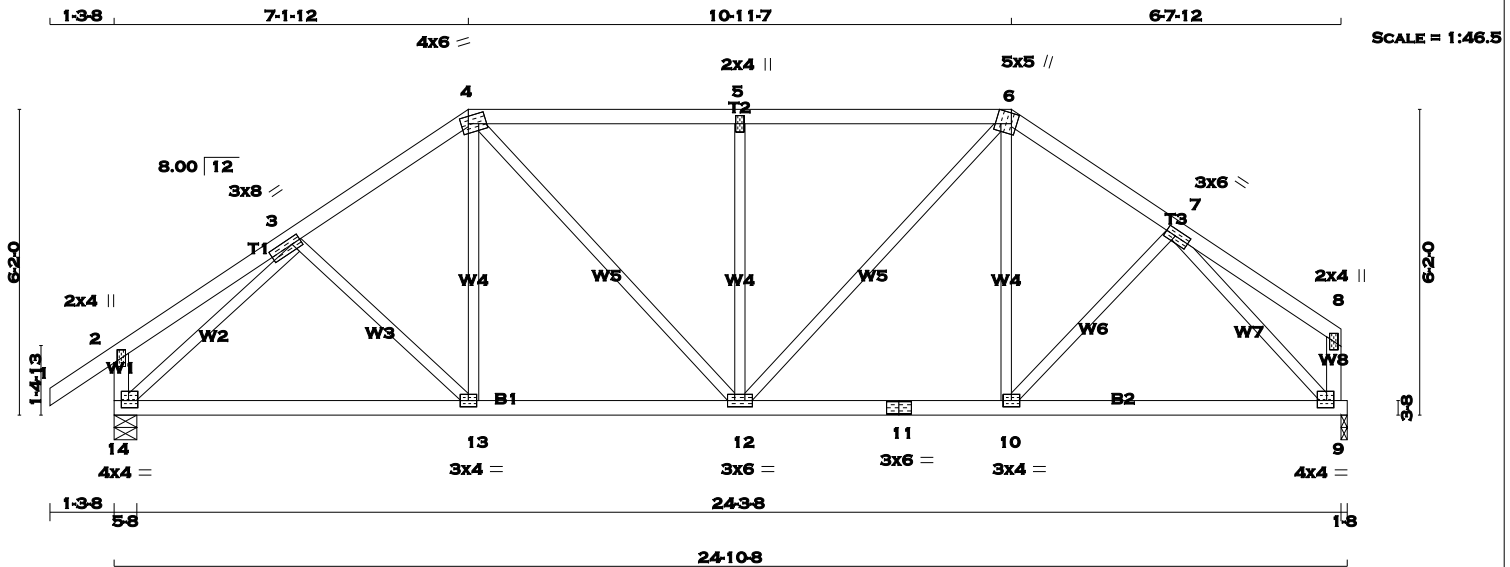
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (11) (INPUT = 0.90)
 JSI METAL= 0.44 (2) (INPUT = 1.00)

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LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2
4 - 6	2x4	DRY	No.2
6 - 8	2x4	DRY	No.2
14 - 2	2x4	DRY	No.2
9 - 8	2x4	DRY	No.2
14 - 11	2x4	DRY	No.2
11 - 9	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
3	TMVW-t	MT20	3.0	8.0	1.50	2.25
4	TTWW-m	MT20	4.0	6.0	1.75	1.75
5	TMV+w	MT20	2.0	4.0		
6	TTWW+m	MT20	5.0	5.0	Edge	3.75
7	TMVW-t	MT20	3.0	6.0	1.50	2.50
8	TMV+p	MT20	2.0	4.0		
9	BMVW1-t	MT20	4.0	4.0	1.75	1.75
10	BMVW-t	MT20	3.0	4.0		
11	BS-t	MT20	3.0	6.0		
12	BMVW-t	MT20	3.0	6.0		
13	BMVW-t	MT20	3.0	4.0		
14	BMVW1-t	MT20	4.0	4.0	1.75	1.75

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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
14	1280	0	1280	0	0	5-8
9	1174	0	1174	0	0	1-8

UNFACTORED REACTIONS							
	1ST LCASE		MAX./MIN. COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
14	896	640 / 0	0 / 0	0 / 0	0 / 0	256 / 0	0 / 0
9	824	576 / 0	0 / 0	0 / 0	0 / 0	248 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 14, 9

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.33 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. UNBRACED LENGTH	MEMB.
FR-TO		FROM TO			FR-TO			
1-2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	3-13	-20 / 43	0.01 (4)
2-3	0 / 16	-77.3	-77.3	0.15 (1)	10.00	13-4	0 / 148	0.04 (4)
3-4	-1257 / 0	-77.3	-77.3	0.13 (1)	5.62	4-12	0 / 370	0.08 (1)
4-5	-1286 / 0	-77.3	-77.3	0.32 (1)	5.33	12-5	-518 / 0	0.31 (1)
5-6	-1286 / 0	-77.3	-77.3	0.32 (1)	5.33	12-6	0 / 437	0.10 (1)
6-7	-1203 / 0	-77.3	-77.3	0.11 (1)	5.73	10-6	0 / 97	0.03 (4)
7-8	0 / 15	-77.3	-77.3	0.12 (1)	10.00	10-7	0 / 70	0.02 (4)
14-2	-215 / 0	0.0	0.0	0.02 (1)	7.81	14-3	-1456 / 0	0.57 (1)
9-8	-102 / 0	0.0	0.0	0.01 (1)	7.81	7-9	-1389 / 0	0.53 (1)
14-13	0 / 1045	-17.5	-17.5	0.28 (1)	10.00			
13-12	0 / 1033	-17.5	-17.5	0.28 (4)	10.00			
12-11	0 / 988	-17.5	-17.5	0.26 (1)	10.00			
11-10	0 / 988	-17.5	-17.5	0.26 (1)	10.00			
10-9	0 / 938	-17.5	-17.5	0.25 (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 6.00/12

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 (0.82")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.82")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.10")

CSI: TC=0.32 (4-5:1), BC=0.28 (12-13:4), WB=0.57 (3-14:1), SSI=0.20 (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.

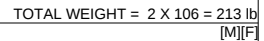
JSI GRIP= 0.90 (14) (INPUT = 0.90)
JSI METAL= 0.39 (14) (INPUT = 1.00)



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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 6.00/12

<u>BRACING</u>									
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.64 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.									
<u>LOADING</u>									
TOTAL LOAD CASES: (4)									
CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX. CSI (LC)	MAX. UNBRACED LENGTH	MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM	TO						
1-2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	3-12	-125 / 23	0.08 (1)	
2-3	0 / 21	-77.3	-77.3	0.23 (1)	10.00	12-4	0 / 403	0.09 (1)	
3-4	-1197 / 0	-77.3	-77.3	0.19 (1)	5.64	12-5	-184 / 0	0.24 (1)	
4-5	-983 / 0	-77.3	-77.3	0.16 (1)	6.11	5-10	-242 / 0	0.31 (1)	
5-6	-954 / 0	-77.3	-77.3	0.16 (1)	6.18	10-6	0 / 391	0.09 (1)	
6-7	-1162 / 0	-77.3	-77.3	0.17 (1)	5.73	10-7	-42 / 42	0.02 (1)	
7-8	0 / 20	-77.3	-77.3	0.20 (1)	10.00	13-3	-1453 / 0	0.84 (1)	
13-2	-235 / 0	0.0	0.0	0.02 (1)	7.81	7-9	-1394 / 0	0.77 (1)	
9-8	-122 / 0	0.0	0.0	0.01 (1)	7.81				
13-12	0 / 1071	-17.5	-17.5	0.36 (4)	10.00				
12-11	0 / 1074	-17.5	-17.5	0.37 (4)	10.00				
11-10	0 / 1074	-17.5	-17.5	0.37 (4)	10.00				
10-9	0 / 978	-17.5	-17.5	0.32 (4)	10.00				

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

THIS TRUSS 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)= $L/360$ (0.82")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.04")
ALLOWABLE DEFL.(TL)= $L/360$ (0.82")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.18")

CSI: TC=0.23 (2-3:1), BC=0.37 (10-12:4),
WB=0.84 (3-13:1), SSI=0.15 (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= 0.89 (3) (INPUT = 0.90)

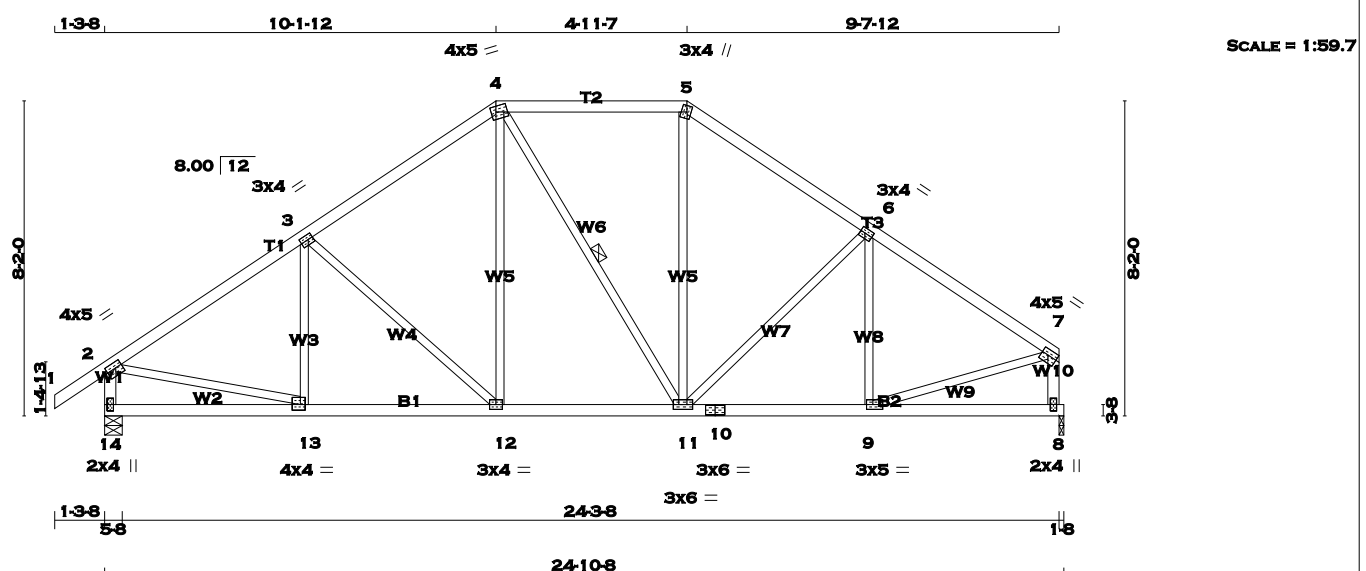
JSI METAL= 0.51 (7) (INPUT = 1.00)



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CONTAINS SPECIFICATIONS AND CRITERIA USED
IN THE DESIGN OF THIS COMPONENT.**





TOTAL WEIGHT = 2 X 111 = 222 lb
[M][F]

LUMBER		N. L. G. A. RULES		LUMBER	DESCR
CHORDS	SIZE				
1 - 4	2x4	DRY	No.2	SPF	
4 - 5	2x4	DRY	No.2	SPF	
5 - 7	2x4	DRY	No.2	SPF	
14 - 2	2x4	DRY	No.2	SPF	
8 - 7	2x4	DRY	No.2	SPF	
14 - 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
2	TMVW-t	MT20	4.0	5.0	1.75 2.00
3	TMVW-t	MT20	3.0	4.0	1.50 1.50
4	TTWV-m	MT20	4.0	5.0	1.75 1.50
5	TTW+m	MT20	3.0	4.0	2.00 1.25
6	TMVW-t	MT20	3.0	4.0	1.50 1.50
7	TMVW-t	MT20	4.0	5.0	1.75 Edge
8	BMV1+p	MT20	2.0	4.0	
9	BMVW-t	MT20	3.0	5.0	1.50 2.00
10	BS-t	MT20	3.0	6.0	
11	BMVWV-t	MT20	3.0	6.0	
12	BMVW-t	MT20	3.0	4.0	
13	BMVW-t	MT20	4.0	4.0	1.75 1.50
14	BMV1+p	MT20	2.0	4.0	

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	GROSS REACTION	DOWN	HORZ	DOWN	HORZ	UPLIFT	IN-SX	BRG	IN-SX
14	1280	0	1280	0	0	5-8	5-8		
8	1174	0	1174	0	0	1-8	1-8		

UNFACTORED REACTIONS		1ST LCASE		MAX./MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
14	896	640 / 0	0 / 0	0 / 0	256 / 0
8	824	576 / 0	0 / 0	0 / 0	248 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.33 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 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-11. DBS = 20-0-0 . CBF = 3 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. 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		FACTORED	
MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)
FR-TO		FROM TO	LENGTH FR-TO
1-2	0 / 29	-77.3 -77.3	0.10 (1) 10.00
2-3	-1322 / 0	-77.3 -77.3	0.28 (1) 5.33
3-4	-1103 / 0	-77.3 -77.3	0.27 (1) 5.71
4-5	-884 / 0	-77.3 -77.3	0.25 (1) 6.22
5-6	-1085 / 0	-77.3 -77.3	0.24 (1) 5.79
6-7	-1224 / 0	-77.3 -77.3	0.25 (1) 5.52
14-2	-1242 / 0	0.0 0.0	0.13 (1) 7.20
8-7	-1137 / 0	0.0 0.0	0.12 (1) 7.45
14-13	0 / 0	-17.5 -17.5	0.11 (4) 10.00
13-12	0 / 1121	-17.5 -17.5	0.23 (1) 10.00
12-11	0 / 898	-17.5 -17.5	0.19 (1) 10.00
11-10	0 / 1039	-17.5 -17.5	0.21 (1) 10.00
10-9	0 / 1039	-17.5 -17.5	0.21 (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 6.00/12

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 (0.82")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.82")
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.28 (2-3:1), BC=0.23 (12-13:1), WB=0.26 (3-12:1), SSI=0.16 (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.

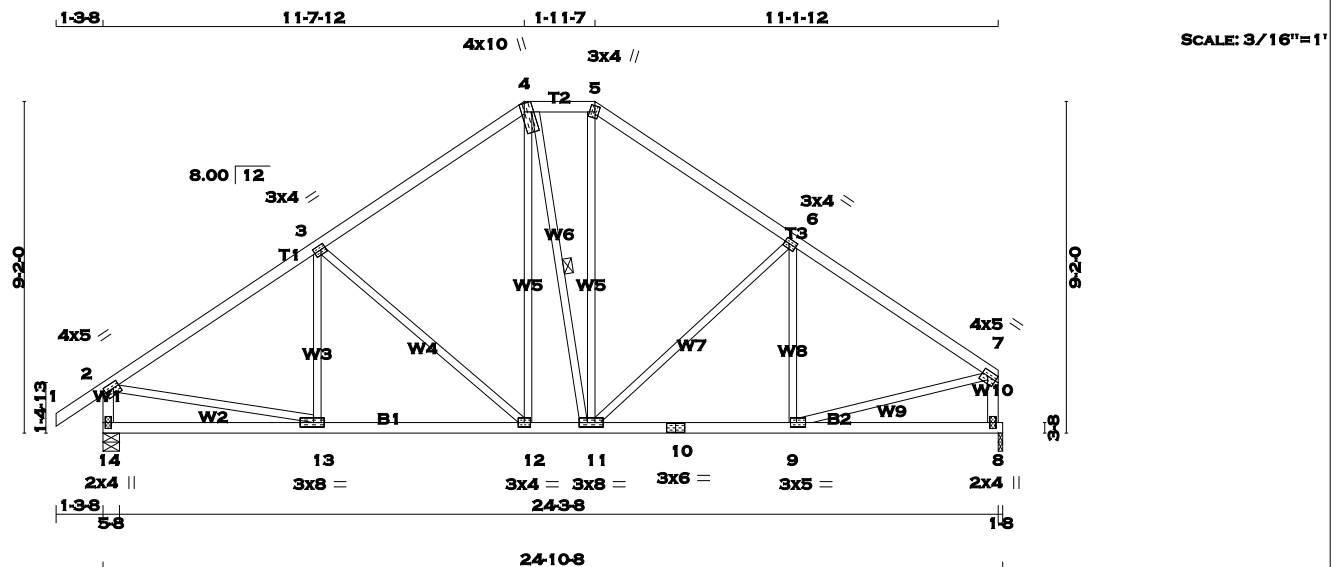
JSI GRIP= 0.89 (9) (INPUT = 0.90)
JSI METAL= 0.45 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 2 X 117 = 233 lb
[M][F]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 5	2x4	DRY	No.2	SPF
5 - 7	2x4	DRY	No.2	SPF
14 - 2	2x4	DRY	No.2	SPF
8 - 7	2x4	DRY	No.2	SPF
14 - 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
2	TMVW-t	MT20	4.0	5.0	1.75 2.00
3	TMVW-t	MT20	3.0	4.0	1.50 1.50
4	TTWw+m	MT20	4.0	10.0	Edge 1.00
5	TTW+m	MT20	3.0	4.0	2.00 1.25
6	TMVW-t	MT20	3.0	4.0	1.50 1.50
7	TMVW-t	MT20	4.0	5.0	1.75 Edge
8	BMV1+p	MT20	2.0	4.0	
9	BMVW-t	MT20	3.0	5.0	1.50 2.00
10	BS-t	MT20	3.0	6.0	
11	BMVW-t	MT20	3.0	8.0	
12	BMVW-t	MT20	3.0	4.0	
13	BMVW-t	MT20	3.0	8.0	1.50 3.50
14	BMV1+p	MT20	2.0	4.0	

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	GROSS REACTION	DOWN	HORZ	DOWN	HORZ	UPLIFT	IN-SX	BRG	IN-SX
14	1280	0	0	1280	0	0	5-8	5-8	
8	1174	0	0	1174	0	0	1-8	1-8	

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
14	896	640 / 0	0 / 0	0 / 0	0 / 0	256 / 0	0 / 0
8	824	576 / 0	0 / 0	0 / 0	0 / 0	248 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.19 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 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-11. DBS = 20-0-0 . CBF = 2 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. 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 CSI (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM	TO	LENGTH	FR-TO		
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	13-3	-87 / 75	0.04 (1)
2-3	-1324 / 0	-77.3	-77.3 0.38 (1)	5.19	3-12	-410 / 0	0.49 (1)
3-4	-1012 / 0	-77.3	-77.3 0.35 (1)	5.77	12-4	0 / 321	0.07 (1)
4-5	-816 / 0	-77.3	-77.3 0.04 (1)	6.25	4-11	-17 / 0	0.01 (1)
5-6	-1007 / 0	-77.3	-77.3 0.32 (1)	5.83	11-5	0 / 310	0.07 (1)
6-7	-1238 / 0	-77.3	-77.3 0.34 (1)	5.38	11-6	-329 / 0	0.39 (1)
14-2	-1238 / 0	0.0	0.0 0.13 (1)	7.22	9-6	-152 / 50	0.07 (1)
8-7	-1133 / 0	0.0	0.0 0.12 (1)	7.46	2-13	0 / 1145	0.26 (1)
					9-7	0 / 1085	0.24 (1)
14-13	0 / 0	-17.5	-17.5 0.15 (4)	10.00			
13-12	0 / 1126	-17.5	-17.5 0.26 (1)	10.00			
12-11	0 / 820	-17.5	-17.5 0.18 (1)	10.00			
11-10	0 / 1053	-17.5	-17.5 0.24 (1)	10.00			
10-9	0 / 1053	-17.5	-17.5 0.24 (1)	10.00			
9-8	0 / 0	-17.5	-17.5 0.14 (4)	10.00			

DESIGN CRITERIA	
SPECIFIED LOADS:	
TOP CH.	LL = 23.3 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 6.00/12

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 (0.82")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.82")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.09")

CSI: TC=0.38 (2-3:1), BC=0.26 (12-13:1), WB=0.49 (3-12:1), SSI=0.18 (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)
MAX MIN	MAX MIN
MT20	618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

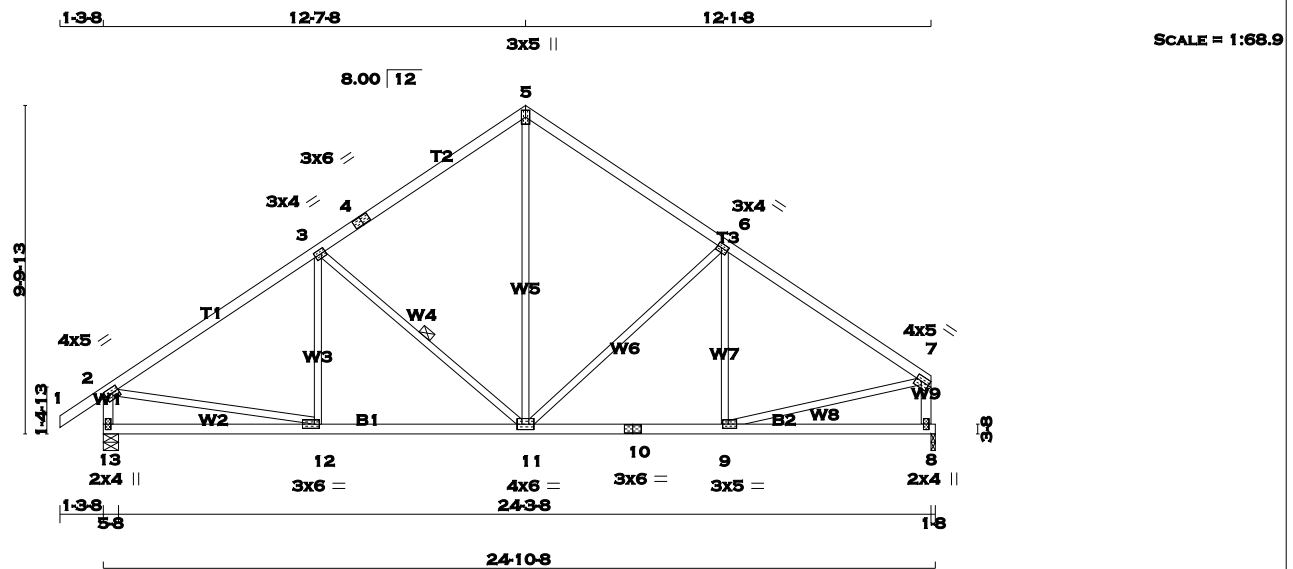
JSI GRIP= 0.90 (9) (INPUT = 0.90)
JSI METAL= 0.45 (2) (INPUT = 1.00)



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17-5187
BUILDING DIVISION

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TOTAL WEIGHT = 5 X 106 = 528 lb
[M][F]

LUMBER				DESCR.	
N. L. G. A. RULES		LUMBER	SIZE	No.2	SPF
CHORDS	SIZE				
1 - 4	2x4	DRY	No.2	SPF	
4 - 5	2x4	DRY	No.2	SPF	
5 - 7	2x4	DRY	No.2	SPF	
13 - 2	2x4	DRY	No.2	SPF	
8 - 7	2x4	DRY	No.2	SPF	
13 - 10	2x4	DRY	No.2	SPF	
10 - 8	2x4	DRY	No.2	SPF	
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	1.75	2.00
3	TMVW-t	MT20	3.0	4.0	1.50	1.50
4	TS-t	MT20	3.0	6.0		
5	TTW+p	MT20	3.0	5.0		
6	TMVW-t	MT20	3.0	4.0	1.50	1.50
7	TMVW-t	MT20	4.0	5.0	1.75	Edge
8	BMV1+p	MT20	2.0	4.0		
9	BMVW-t	MT20	3.0	5.0	1.50	2.00
10	BS-t	MT20	3.0	6.0		
11	BMVW-t	MT20	4.0	6.0		
12	BMVW-t	MT20	3.0	6.0	1.50	1.75
13	BMV1+p	MT20	2.0	4.0		

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
13	1280	0	1280	0	0	5-8	5-8		
8	1174	0	1174	0	0	1-8	1-8		

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
13	896	640 / 0	0 / 0	0 / 0	0 / 0	256 / 0	0 / 0
8	824	576 / 0	0 / 0	0 / 0	0 / 0	248 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.10 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 3-11. DBS = 20-0-0 . CBF = 58 LBS.
DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. 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

CHORDS				WEBS			
MEMB.		FACTORED		MEMB.		FACTORED	
		FORCE (LBS)				FORCE (LBS)	
		VERT. LOAD LC1					
		MAX					
		FROM TO					
		CS1 (LC)					
		UNBRAC					
		LENGTH					
FR-TO							
1-2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	12-3	-66 / 86
2-3	-1317 / 0	-77.3	-77.3	0.45 (1)	5.10	3-11	-467 / 0
3-4	-958 / 0	-77.3	-77.3	0.42 (1)	5.79	11-5	0 / 674
4-5	-958 / 0	-77.3	-77.3	0.42 (1)	5.79	11-6	-392 / 0
5-6	-957 / 0	-77.3	-77.3	0.38 (1)	5.85	9-6	-125 / 64
6-7	-1239 / 0	-77.3	-77.3	0.41 (1)	5.29	2-12	0 / 1139
13-2	-1234 / 0	0.0	0.0	0.13 (1)	7.23	9-7	0 / 1084
8-7	-1129 / 0	0.0	0.0	0.12 (1)	7.47		0.24 (1)
13-12	0 / 0	-17.5	-17.5	0.17 (4)	10.00		
12-11	0 / 1123	-17.5	-17.5	0.27 (1)	10.00		
11-10	0 / 1057	-17.5	-17.5	0.25 (1)	10.00		
10-9	0 / 1057	-17.5	-17.5	0.25 (1)	10.00		
9-8	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

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 (0.82")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.82")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.09")

CSI: TC=0.45 (2-3:1) , BC=0.27 (11-12:1) , WB=0.55 (6-11:1) , SSI=0.20 (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.

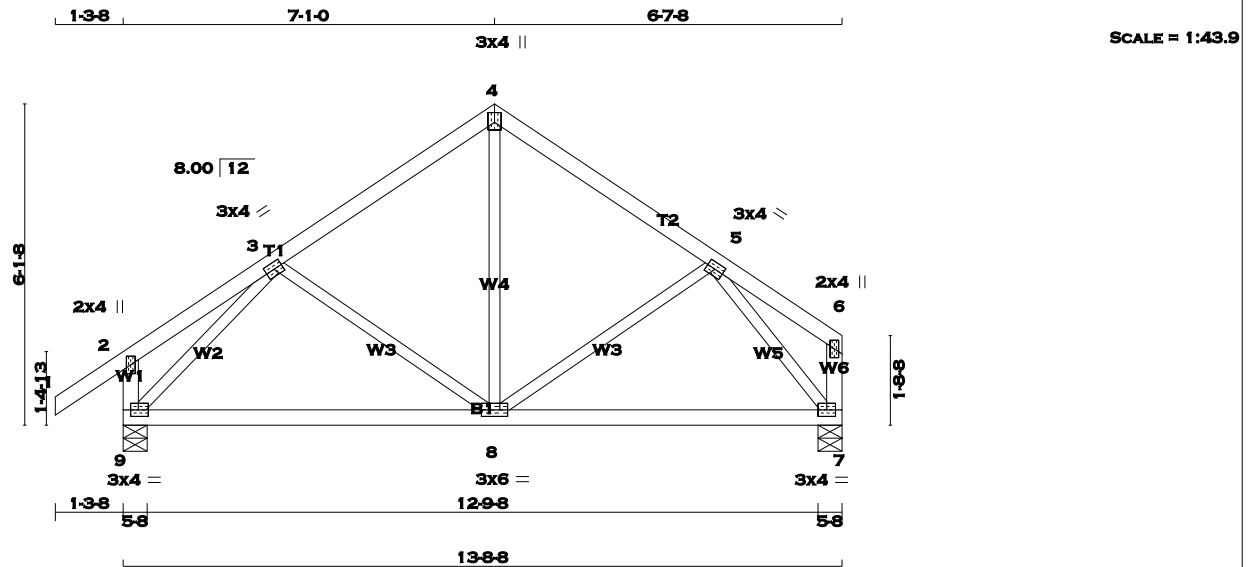
JSI GRIP= 0.90 (9) (INPUT = 0.90)
JSI METAL= 0.45 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 57 lb

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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
3	TMWW-t	MT20	3.0	4.0		
4	TTW+p	MT20	3.0	4.0	2.25	1.50
5	TMWW-t	MT20	3.0	4.0		
6	TMV+p	MT20	2.0	4.0		
7	BMVW1-t	MT20	3.0	4.0		
8	BMWWW-t	MT20	3.0	6.0		
9	BMVW1-t	MT20	3.0	4.0	1.50	1.75

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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	
9		756	0	756	0	0	5-8	5-8	
7		650	0	650	0	0	5-8	5-8	

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX	MIN	COMPONENT	REACTIONS		
9	528	383	0	0	0	0	0
7	456	319	0	0	0	0	0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 9, 7

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. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)
FR-TO		FROM	TO	FR-TO		FROM	TO
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	3-8	-136 / 10	0.06 (1)
2-3	0 / 24	-77.3	-77.3 0.17 (1)	10.00	8-4	0 / 263	0.06 (1)
3-4	-497 / 0	-77.3	-77.3 0.16 (1)	6.25	8-5	-64 / 26	0.03 (1)
4-5	-497 / 0	-77.3	-77.3 0.16 (1)	6.25	9-3	-741 / 0	0.21 (1)
5-6	0 / 28	-77.3	-77.3 0.17 (1)	10.00	5-7	-724 / 0	0.18 (1)
9-2	-172 / 0	0.0	0.0 0.02 (1)	7.81			
7-6	-42 / 0	0.0	0.0 0.00 (1)	7.81			
9-8	0 / 512	-17.5	-17.5 0.27 (4)	10.00			
8-7	0 / 453	-17.5	-17.5 0.27 (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=0.17 (2-3:1) , BC=0.27 (8-9:4) , WB=0.21 (3-9:1) , SSI=0.13 (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)
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.

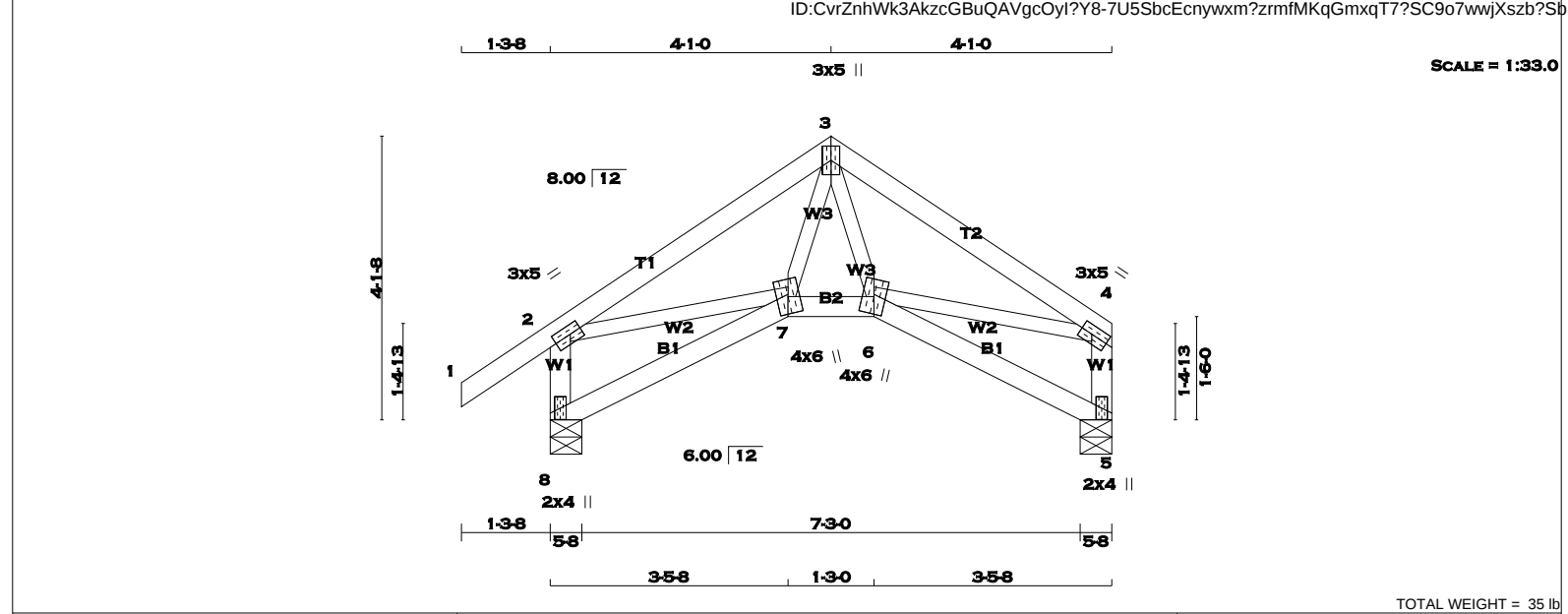
JSI GRIP= 0.90 (7) (INPUT = 0.90)
JSI METAL= 0.25 (3) (INPUT = 1.00)



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LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 4	2x4	DRY	No.2	SPF
8 - 2	2x4	DRY	No.2	SPF
5 - 4	2x4	DRY	No.2	SPF
8 - 7	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
6 - 5	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
8	493	0	493	0	0	5-8	5-8	
5	387	0	387	0	0	5-8	5-8	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX./MIN. SNOW		LIVE		PERM. LIVE		WIND		DEAD		SOIL	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	WIND	DEAD	SOIL				
8	344	254 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	90 / 0	0 / 0	0 / 0				
5	272	190 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	82 / 0	0 / 0	0 / 0				

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8, 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. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)
FR-TO		FROM	TO	FR-TO		FROM	TO
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	3-6	0 / 90	0.02 (4)
2-3	-441 / 0	-77.3	-77.3 0.17 (1)	6.25	7-3	0 / 90	0.02 (4)
3-4	-441 / 0	-77.3	-77.3 0.17 (1)	6.25	2-7	0 / 370	0.08 (1)
8-2	-463 / 0	0.0	0.0 0.05 (1)	7.81	6-4	0 / 370	0.08 (1)
5-4	-357 / 0	0.0	0.0 0.04 (1)	7.81			
8-7	0 / 0	-17.5	-17.5 0.06 (4)	10.00			
7-6	0 / 343	-17.5	-17.5 0.06 (1)	10.00			
6-5	0 / 0	-17.5	-17.5 0.06 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.27")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.27")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.17 (2-3:1), BC=0.06 (7-8:4), WB=0.08 (2-7:1), SSI=0.10 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.52 (6) (INPUT = 0.90)
JSI METAL= 0.18 (4) (INPUT = 1.00)

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	TTWW+p	MT20	3.0	5.0		
4	TMVW-t	MT20	3.0	5.0	1.50	2.00
5	BMV1+p	MT20	2.0	4.0		
6	BBWW+m	MT20	4.0	6.0		
7	BBWW+m	MT20	4.0	6.0		
8	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

LICENSED PROFESSIONAL ENGINEER

P. TREVISAN

100136551

March 14th, 2017

PROVINCE OF ONTARIO

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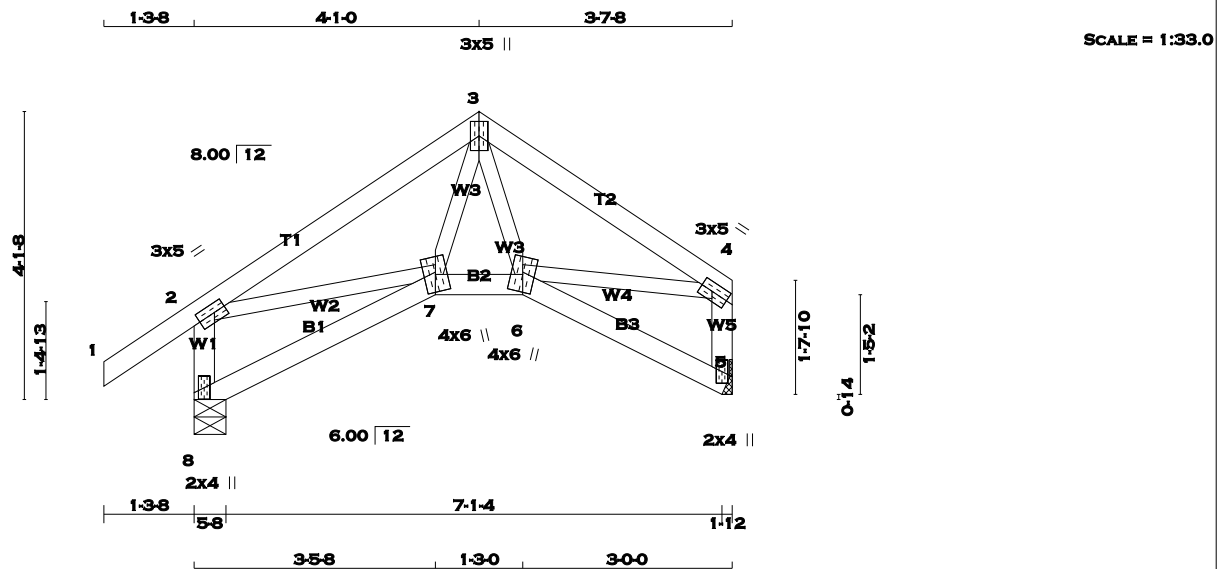
TOWN OF MILTON

MAR 29, 2017

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TOTAL WEIGHT = 34 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	
8 - 2	2x4	DRY	No.2	SPF	
5 - 4	2x4	DRY	No.2	SPF	
8 - 7	2x4	DRY	No.2	SPF	
7 - 6	2x4	DRY	No.2	SPF	
6 - 5	2x4	DRY	No.2	SPF	
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	
DRY: SEASONED LUMBER.					

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	5.0	1.50	2.00
3	TTWW+p	MT20	3.0	5.0		
4	TMVW-t	MT20	3.0	5.0	1.50	2.00
5	BMV1+p	MT20	2.0	4.0		
6	BBWW+m	MT20	4.0	6.0		
7	BBWW+m	MT20	4.0	6.0		
8	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

FACTORED			MAXIMUM FACTORED			INPUT	REQRD
GROSS REACTION			GROSS REACTION			BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
8	472	0	472	0	0	5-8	5-8
5	366	0	366	0	0	HANGER BY OTHERS	
MIN. SEAT SIZE: 1-12							

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
8	329	243 / 0	0 / 0	0 / 0	0 / 0	85 / 0	0 / 0		
5	257	179 / 0	0 / 0	0 / 0	0 / 0	77 / 0	0 / 0		

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 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)	VERT. LOAD (PLF)	LC1 MAX. (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	FR-TO
FR-TO		FROM	TO	FR-TO			
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	7-3	0 / 85	0.02 (4)
2-3	-393 / 0	-77.3	-77.3 0.17 (1)	6.25	3-6	0 / 52	0.02 (4)
3-4	-383 / 0	-77.3	-77.3 0.13 (1)	6.25	2-7	0 / 329	0.07 (1)
8-2	-441 / 0	0.0	0.0 0.05 (1)	7.81	6-4	0 / 319	0.07 (1)
5-4	-339 / 0	0.0	0.0 0.04 (1)	7.81			
8-7	0 / 0	-17.5	-17.5 0.06 (4)	10.00			
7-6	0 / 305	-17.5	-17.5 0.05 (1)	10.00			
6-5	0 / 0	-17.5	-17.5 0.05 (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

(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 (0.26")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.26")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.17 (2-3:1) , BC=0.06 (7-8:4) , WB=0.07 (2-7:1) , SSI=0.10 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

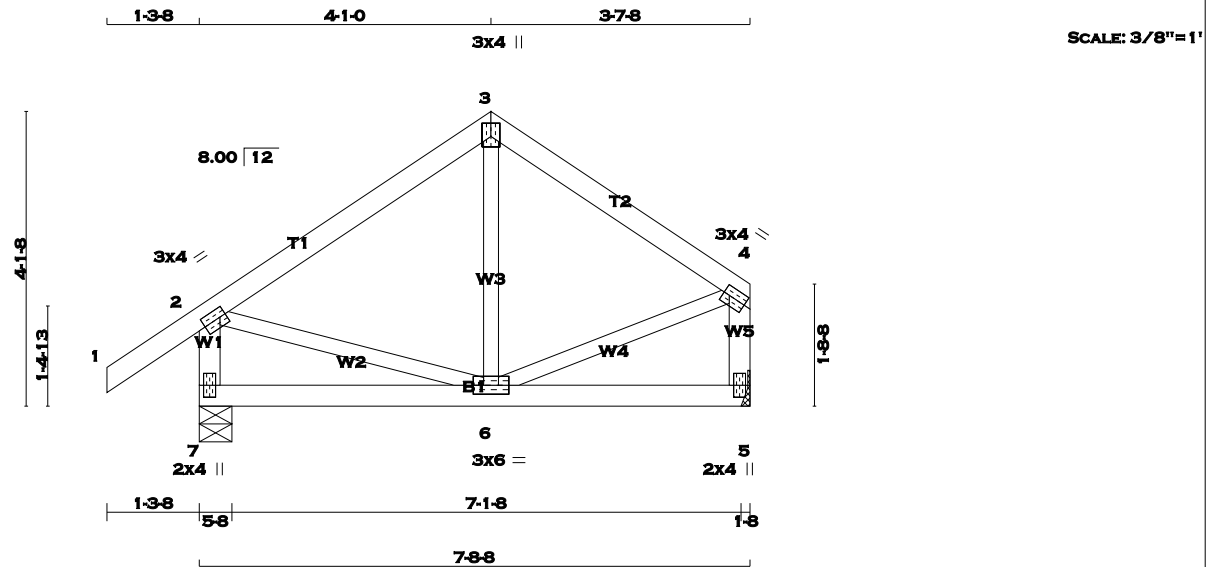
JSI GRIP= 0.47 (7) (INPUT = 0.90)
JSI METAL= 0.16 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 2 X 33 = 66 lb
[M][F]

LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
1 - 3	2x4	DRY	No.2		SPF
3 - 4	2x4	DRY	No.2		SPF
7 - 2	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 EXCEPT					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	1.00
3	TTW+p	MT20	3.0	4.0	2.25	1.50
4	TMVW-t	MT20	3.0	4.0	1.50	1.00
5	BMV1+p	MT20	2.0	4.0		
6	BMVWW-t	MT20	3.0	6.0		
7	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

FACTORED			MAXIMUM FACTORED			INPUT	REQRD
GROSS REACTION			GROSS REACTION			BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
7	472	0	472	0	0	5-8	5-8
5	366	0	366	0	0	HANGER BY OTHERS	
MIN. SEAT SIZE: 1-8							

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS		LIVE		PERM.LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW											
7	329	243 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	85 / 0	0 / 0	85 / 0	0 / 0	0 / 0	0 / 0
5	257	179 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	77 / 0	0 / 0	77 / 0	0 / 0	0 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)	
FR-TO		FROM	TO	FR-TO		FROM	TO
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	6-3	-42 / 53	0.02 (4)
2-3	-231 / 0	-77.3	-77.3 0.17 (1)	6.25	2-6	0 / 199	0.04 (1)
3-4	-231 / 0	-77.3	-77.3 0.13 (1)	6.25	6-4	0 / 206	0.05 (1)
7-2	-443 / 0	0.0	0.0 0.05 (1)	7.81			
5-4	-342 / 0	0.0	0.0 0.04 (1)	7.81			
7-6	0 / 0	-17.5	-17.5 0.07 (4)	10.00			
6-5	0 / 0	-17.5	-17.5 0.07 (4)	10.00			

DESIGN CRITERIA

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

(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 (0.26")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.26")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.17 (2-3:1), BC=0.07 (5-6:4), WB=0.05 (4-6:1), SSI=0.10 (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= 0.67 (4) (INPUT = 0.90)
JSI METAL= 0.14 (2) (INPUT = 1.00)



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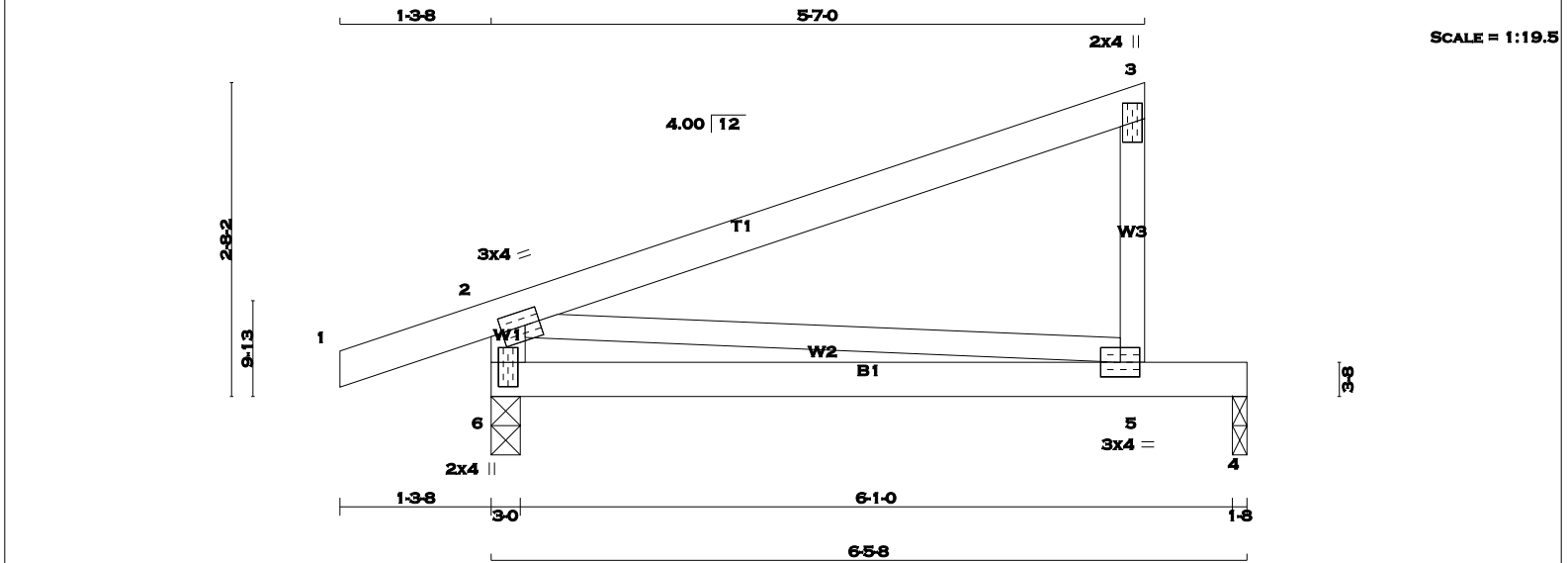
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JSI GRIP= 0.88 (11) (INPUT = 0.90)
JSI METAL= 0.45 (2) (INPUT = 1.00)





LUMBER

N. L. G. A. RULES

CHORDS SIZE

1 - 3 2x4 DRY No.2

5 - 3 2x3 DRY No.2

6 - 2 2x4 DRY No.2

6 - 4 2x4 DRY No.2

ALL WEBS 2x3 DRY No.2

DRY: SEASONED LUMBER.

DESCR.

SPF

SPF

SPF

SPF

SPF

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	4.0	1.50	1.50
3	TMV+p	MT20	2.0	4.0		
5	BMVW-t	MT20	3.0	4.0		
6	BMV1+p	MT20	2.0	4.0	2.50	1.00

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

BEARINGS

JT	FACTORED	MAXIMUM FACTORED	INPUT	REQRD
	GROSS REACTION	GROSS REACTION	BRG	BRG
	VERT	HORZ	DOWN	HORZ
6	405	0	405	0
4	243	0	243	0

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
6	282	210 / 0	0 / 0	0 / 0	0 / 0	72 / 0	0 / 0
4	172	112 / 0	0 / 0	0 / 0	0 / 0	60 / 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

MEMB.

MAX. FORCE FACTORED (LBS)

VERT. LOAD

FACTORED (PLF)

LC1

MAX

MAX. UNBRAC

WEBS

MEMB.

MAX. FORCE FACTORED (LBS)

MAX

MAX. CSI (LC)

FR-TO

FROM

TO

LENGTH

FR-TO

1-2	0 / 16	-77.3	-77.3	0.10 (1)	10.00	2-5	0 / 0	0.00 (1)
2-3	0 / 0	-77.3	-77.3	0.41 (1)	10.00			
5-3	-216 / 0	0.0	0.0	0.04 (1)	7.81			
6-2	-319 / 0	0.0	0.0	0.03 (1)	7.81			
6-5	0 / 0	-17.5	-17.5	0.29 (1)	10.00			
5-4	0 / 0	-17.5	-17.5	0.28 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014

- CSA 086-09

- TPIC 2011

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

ALLOWABLE DEFL.(LL)= L/360 (0.22")

CALCULATED VERT. DEFL.(LL) = L/ 999 (0.07")

ALLOWABLE DEFL.(TL)= L/360 (0.22")

CALCULATED VERT. DEFL.(TL) = L/ 444 (0.17")

CSI: TC=0.41 (2-3:1) , BC=0.29 (5-6:1) , WB=0.00 (2-5:1) , SSI=0.19 (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) (PSI)	SHEAR (PLI)	SECTION (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= 0.29 (2) (INPUT = 0.90)

JSI METAL= 0.06 (6) (INPUT = 1.00)



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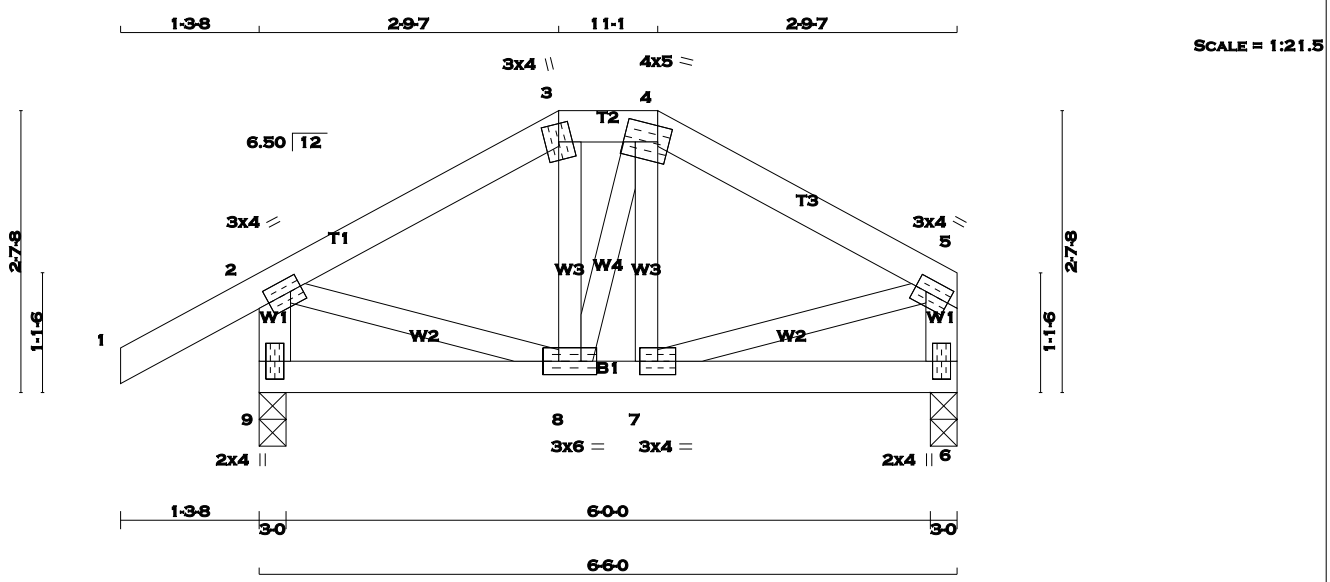
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IN THE DESIGN OF THIS COMPONENT.





LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR.					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA				
					BEARINGS										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				
					FACTORED		MAXIMUM FACTORED		INPUT		REQRD								
					GROSS REACTION		GROSS REACTION		BRG		BRG								
					JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX							
					9	414	0	414	0	0	3-0	3-0							
					6	308	0	308	0	0	3-0	3-0							
ALL WEBS 2x3 DRY No.2 SPF					UNFACTORED REACTIONS										SPACING = 24.0 IN./C				
EXCEPT					1ST LCASE MAX./MIN. COMPONENT REACTIONS										LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12				
					JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL							
					9	288	215 / 0	0 / 0	0 / 0	0 / 0	73 / 0	0 / 0							
					6	216	151 / 0	0 / 0	0 / 0	0 / 0	65 / 0	0 / 0							
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	TTW+m	MT20	3.0	4.0		
4	TTWW-m	MT20	4.0	5.0	1.75	1.25
5	TMVW-t	MT20	3.0	4.0	1.50	1.25
6	BMV1+p	MT20	2.0	4.0		
7	BMWW-t	MT20	3.0	4.0		
8	BMWWW-t	MT20	3.0	6.0		
9	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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 (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)		
FR-TO		FROM TO		LENGTH	FR-TO				
1-2	0 / 25	-77.3	-77.3 0.10 (1)	10.00	8-3	-26 / 21	0.01 (4)		
2-3	-246 / 0	-77.3	-77.3 0.08 (1)	6.25	8-4	-2 / 2	0.00 (4)		
3-4	-215 / 0	-77.3	-77.3 0.01 (1)	6.25	7-4	-23 / 20	0.01 (4)		
4-5	-247 / 0	-77.3	-77.3 0.08 (1)	6.25	2-8	0 / 224	0.05 (1)		
9-2	-391 / 0	0.0	0.0 0.04 (1)	7.81	7-5	0 / 225	0.05 (1)		
6-5	-286 / 0	0.0	0.0 0.03 (1)	7.81					
9-8	0 / 0	-17.5	-17.5 0.03 (4)	10.00					
8-7	0 / 216	-17.5	-17.5 0.05 (1)	10.00					
7-6	0 / 0	-17.5	-17.5 0.03 (4)	10.00					

ALLOWABLE DEFL.(LL)= L/360 (0.22")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.22")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.00")

CSI: TC=0.10 (1-2:1), BC=0.05 (7-8:1), WB=0.05 (5-7:1), SSI=0.07 (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
MT20	618	354	1667	822	2284

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

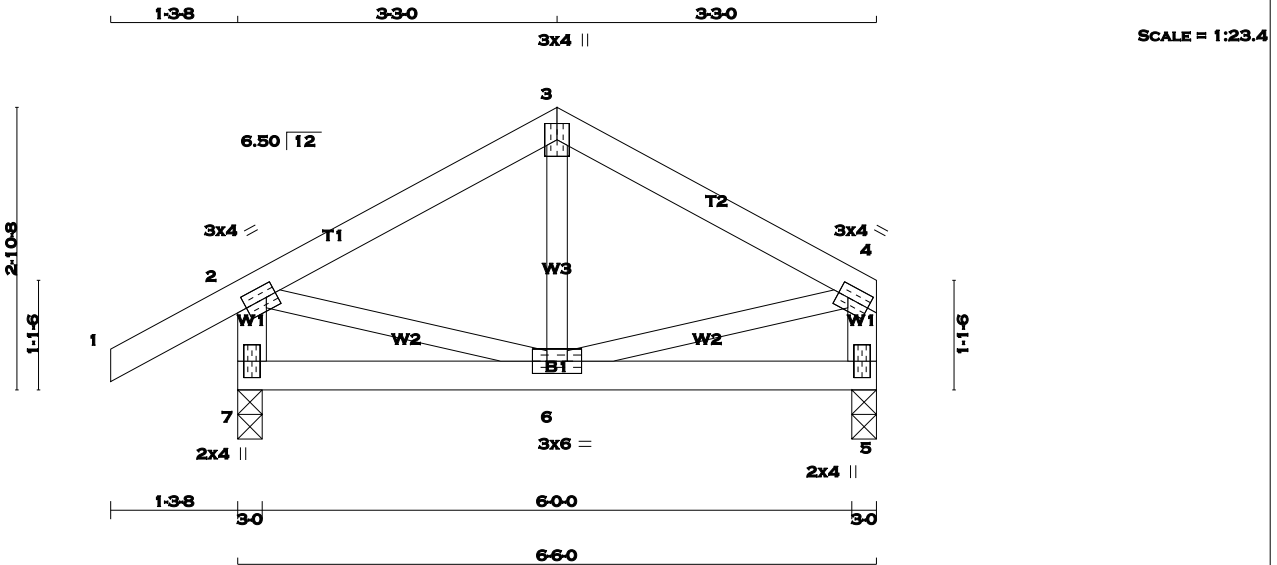
JSI GRIP= 0.56 (5) (INPUT = 0.90)
JSI METAL= 0.13 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 2 X 26 = 52 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
7 - 2	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 EXCEPT

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	TTW+p	MT20	3.0	4.0		
4	TMVW-t	MT20	3.0	4.0	1.50	1.25
5	BMV1+p	MT20	2.0	4.0		
6	BMVWW-t	MT20	3.0	6.0		
7	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	GROSS REACTION	HORZ	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
7	414	0	414	0	0	3-0	3-0	3-0	3-0
5	308	0	308	0	0	3-0	3-0	3-0	3-0

UNFACTORED REACTIONS		1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
7	288	215 / 0	0 / 0	0 / 0	0 / 0	73 / 0	0 / 0		
5	216	151 / 0	0 / 0	0 / 0	0 / 0	65 / 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		MAX. FACTORED		FACTORED		WEBS		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX	MAX. UNBRAC	LENGTH	MEMB.	FORCE (LBS)	MAX. UNBRAC	LENGTH
FR-TO		FROM	TO	CSI (LC)		FR-TO		FROM	TO
1-2	0 / 25	-77.3	-77.3	0.10 (1)	10.00	6-3	-32 / 45	0.02 (4)	
2-3	-230 / 0	-77.3	-77.3	0.10 (1)	6.25	2-6	0 / 208	0.05 (1)	
3-4	-230 / 0	-77.3	-77.3	0.10 (1)	6.25	6-4	0 / 208	0.05 (1)	
7-2	-391 / 0	0.0	0.0	0.04 (1)	7.81				
5-4	-285 / 0	0.0	0.0	0.03 (1)	7.81				
7-6	0 / 0	-17.5	-17.5	0.05 (4)	10.00				
6-5	0 / 0	-17.5	-17.5	0.05 (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 (0.22")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.22")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.00")

CSI: TC=0.10 (3-4:1) , BC=0.05 (6-7:4) , WB=0.05 (2-6:1) , SSI=0.09 (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.

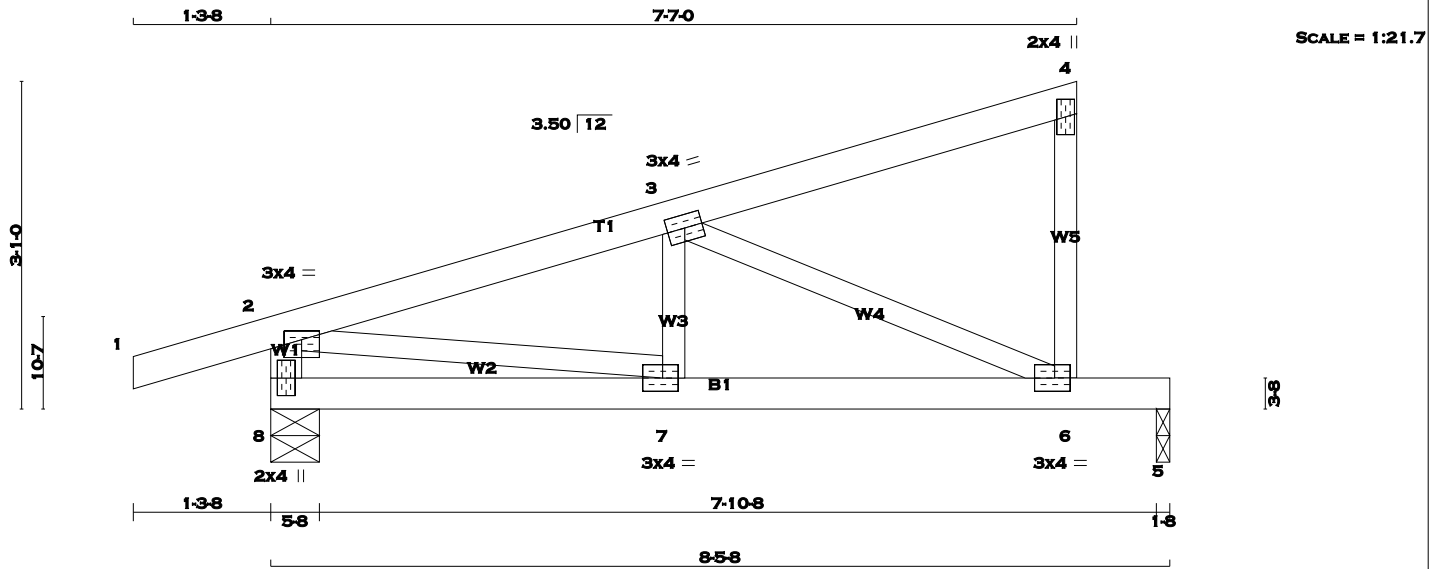
JSI GRIP= 0.52 (4) (INPUT = 0.90)
JSI METAL= 0.13 (4) (INPUT = 1.00)



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IN THE DESIGN OF THIS COMPONENT.





LUMBER

N. L. G. A. RULES

CHORDS

SIZE

DRY

No.2

DESCR.

SPF

1 - 4

2x4

DRY

No.2

SPF

6 - 4

2x3

DRY

No.2

SPF

8 - 2

2x4

DRY

No.2

SPF

8 - 5

2x4

DRY

No.2

SPF

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-p

MT20

3.0

4.0

1.00

2.00

3

TMVW-t

MT20

3.0

4.0

4

TMV+p

MT20

2.0

4.0

6

BMVW-t

MT20

3.0

4.0

1.50

1.75

7

BMVW-t

MT20

3.0

4.0

1.50

1.75

8

BMV1+p

MT20

2.0

4.0

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH

TEE-LOK TL20 PLATES IS ALLOWED.

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
8	501	0	5-8	5-8
5	337	0	1-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE	
8	349	257 / 0	0 / 0	0 / 0	0 / 0
5	238	158 / 0	0 / 0	0 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8, 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	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX	UNBRAC LENGTH	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX	CSI (LC)
FR-TO			FROM TO				FR-TO				
1-2		0 / 14	-77.3	-77.3	0.10 (1)	10.00	7-3	0 / 97	0.03 (4)		
2-3		-629 / 0	-77.3	-77.3	0.13 (1)	6.25	3-6	-670 / 0	0.19 (1)		
3-4		-9 / 0	-77.3	-77.3	0.13 (1)	10.00	2-7	0 / 619	0.14 (1)		
6-4		-115 / 0	0.0	0.0	0.03 (1)	7.81					
8-2		-489 / 0	0.0	0.0	0.05 (1)	7.81					
8-7		0 / 0	-17.5	-17.5	0.11 (1)	10.00					
7-6		0 / 612	-17.5	-17.5	0.49 (1)	10.00					
6-5		0 / 0	-17.5	-17.5	0.39 (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

- TPC 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 (0.28")

CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")

ALLOWABLE DEFL.(TL)= L/360 (0.28")

CALCULATED VERT. DEFL.(TL) = L/ 873 (0.12")

CSI: TC=0.13 (2-3:1) , BC=0.49 (6-7:1) , WB=0.19 (3-6:1) , SSI=0.26 (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= 0.83 (7) (INPUT = 0.90)

JSI METAL= 0.23 (7) (INPUT = 1.00)



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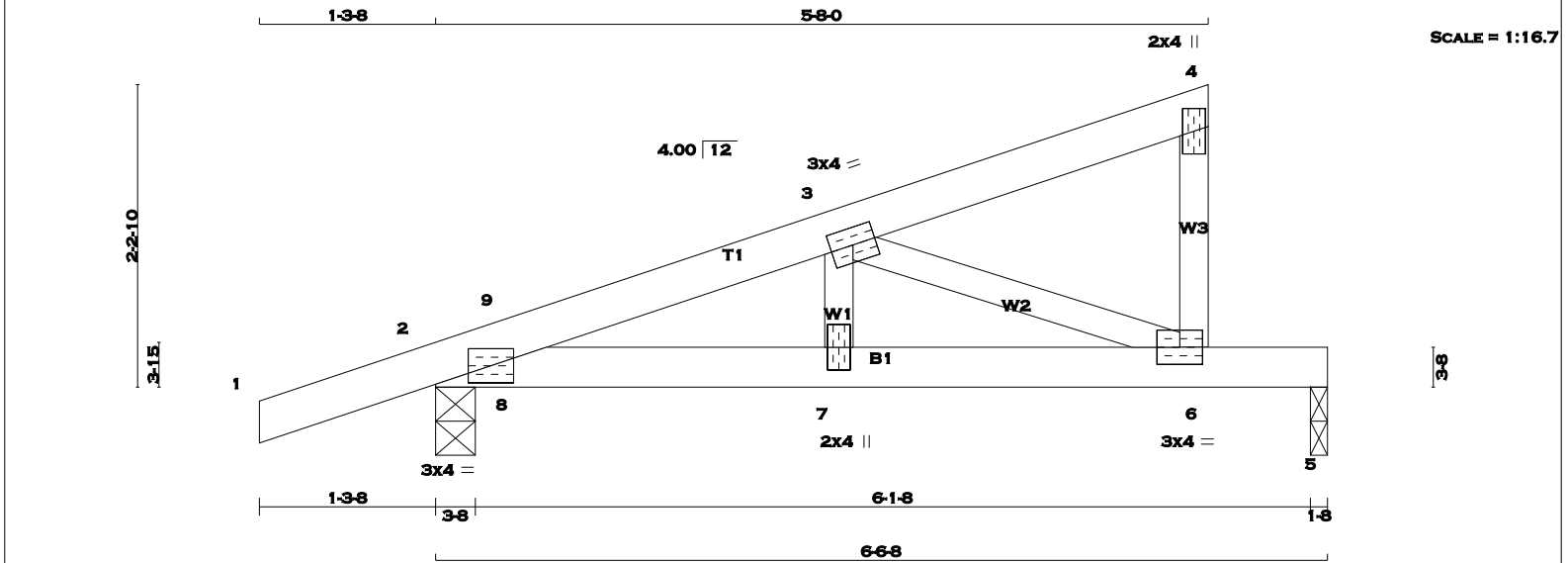
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IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 6 X 20 = 119 lb
[M][F]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	No.2	SPF
6 - 4	2x3	No.2	SPF
2 - 5	2x4	No.2	SPF
ALL WEBS	2x3	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMB1-I	MT20	3.0	4.0		
3	TMVW-t	MT20	3.0	4.0		
4	TMV+p	MT20	2.0	4.0		
6	BMVW-t	MT20	3.0	4.0		
7	BMV+w	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
2	409	0	409	0	3-8	3-8
5	247	0	247	0	1-8	1-8

UNFACTORED REACTIONS								
JT	1ST LCASE COMBINED		MAX/MIN. COMPONENT REACTIONS					
			SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
2	285		212 / 0	0 / 0	0 / 0	0 / 0	73 / 0	0 / 0
5	175		114 / 0	0 / 0	0 / 0	0 / 0	61 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 2, 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)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)		
FR-TO		FROM TO			FR-TO				
1-2	0 / 15	-77.3 -77.3	0.10 (1)	10.00	7-3	0 / 178	0.04 (1)		
2-9	-607 / 0	-77.3 -77.3	0.01 (1)	6.25	3-6	-606 / 0	0.11 (1)		
9-3	-593 / 0	-77.3 -77.3	0.05 (1)	6.25	8-9	-74 / 2	0.00 (1)		
3-4	-4 / 0	-77.3 -77.3	0.06 (1)	10.00					
6-4	-91 / 0	0.0 0.0	0.01 (1)	7.81					
2-8	0 / 568	-17.5 -17.5	0.14 (1)	10.00					
8-7	0 / 568	-17.5 -17.5	0.16 (1)	10.00					
7-6	0 / 568	-17.5 -17.5	0.38 (1)	10.00					
6-5	0 / 0	-17.5 -17.5	0.29 (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 (0.22")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.22")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.06")

CSI: TC=0.10 (1-2:1) , BC=0.38 (6-7:1) , WB=0.11 (3-6:1) , SSI=0.19 (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.

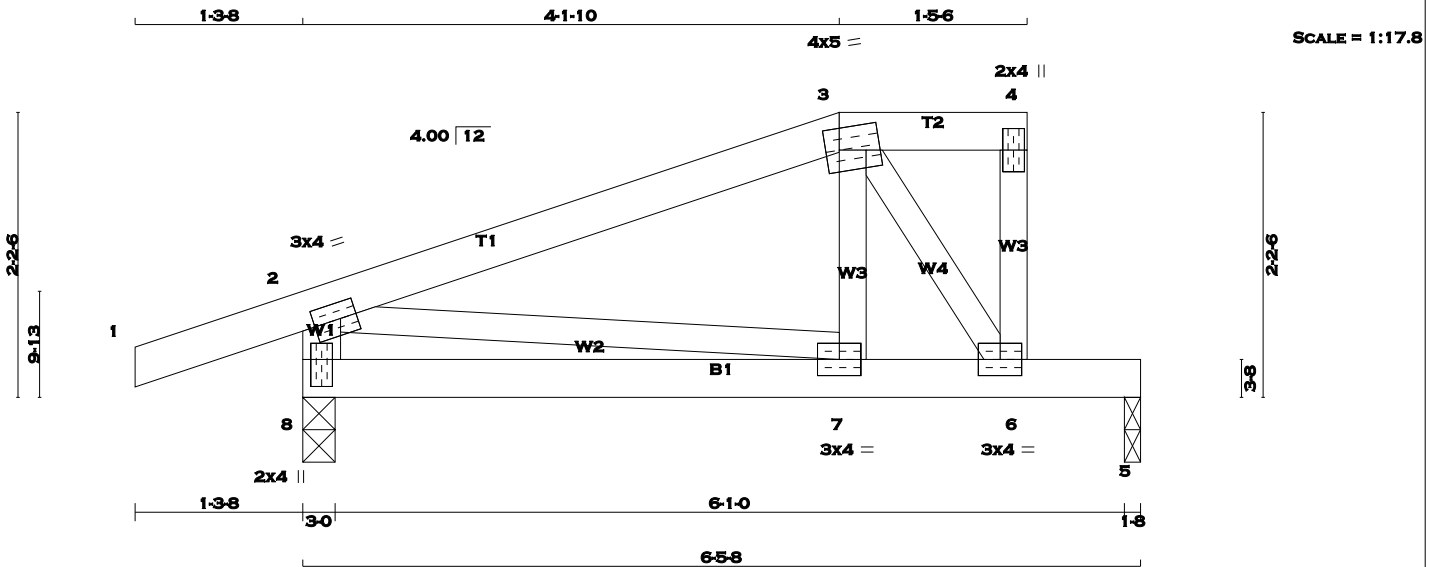
JSI GRIP= 0.86 (6) (INPUT = 0.90)
JSI METAL= 0.21 (6) (INPUT = 1.00)



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LUMBER

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

ALL WEBS EXCEPT

2x3

DRY

No.2

SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	4.0	1.50	1.50
3	TTWW-m	MT20	4.0	5.0	2.00	1.25
4	TMV+p	MT20	2.0	4.0		
6	BMVW-t	MT20	3.0	4.0		
7	BMVW-t	MT20	3.0	4.0		
8	BMV1+p	MT20	2.0	4.0	2.50	1.00

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
8	410	0	410	0	0	3-0	3-0	
5	306	0	306	0	0	1-8	1-8	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX/MIN. SNOW		LIVE		PERM.LIVE		WIND		DEAD		SOIL	
	VERT	HORZ	DOWN	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX					
8	285	213 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	73 / 0	0 / 0	0 / 0	0 / 0	0 / 0
5	215	150 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	65 / 0	0 / 0	0 / 0	0 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8, 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. FORCE (LBS)	FACTORED VERT. LOAD (LBS)	LC1 MAX (PLF)	MAX UNBRAC LENGTH (LC)	MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (LBS)	LC1 MAX (PLF)	MAX UNBRAC LENGTH (LC)
FR-TO					FR-TO				
1-2	0 / 16	-77.3	-77.3	0.10 (1)	10.00	7-3	0 / 233	0.05 (1)	
2-3	-277 / 0	-77.3	-77.3	0.23 (1)	6.25	3-6	-454 / 0	0.07 (1)	
3-4	0 / 0	-77.3	-77.3	0.03 (1)	10.00	2-7	0 / 264	0.06 (1)	
6-4	-56 / 0	0.0	0.0	0.01 (1)	7.81				
8-2	-383 / 0	0.0	0.0	0.04 (1)	7.81				
8-7	0 / 0	-17.5	-17.5	0.08 (4)	10.00				
7-6	0 / 275	-17.5	-17.5	0.36 (1)	10.00				
6-5	0 / 0	-94.8	-94.8	0.32 (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 6.00/12

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 (0.22")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.22")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")

CSI: TC=0.23 (2-3:1) , BC=0.36 (6-7:1) , WB=0.07 (3-6:1) , SSI=0.24 (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= 0.64 (3) (INPUT = 0.90)
JSI METAL= 0.16 (3) (INPUT = 1.00)



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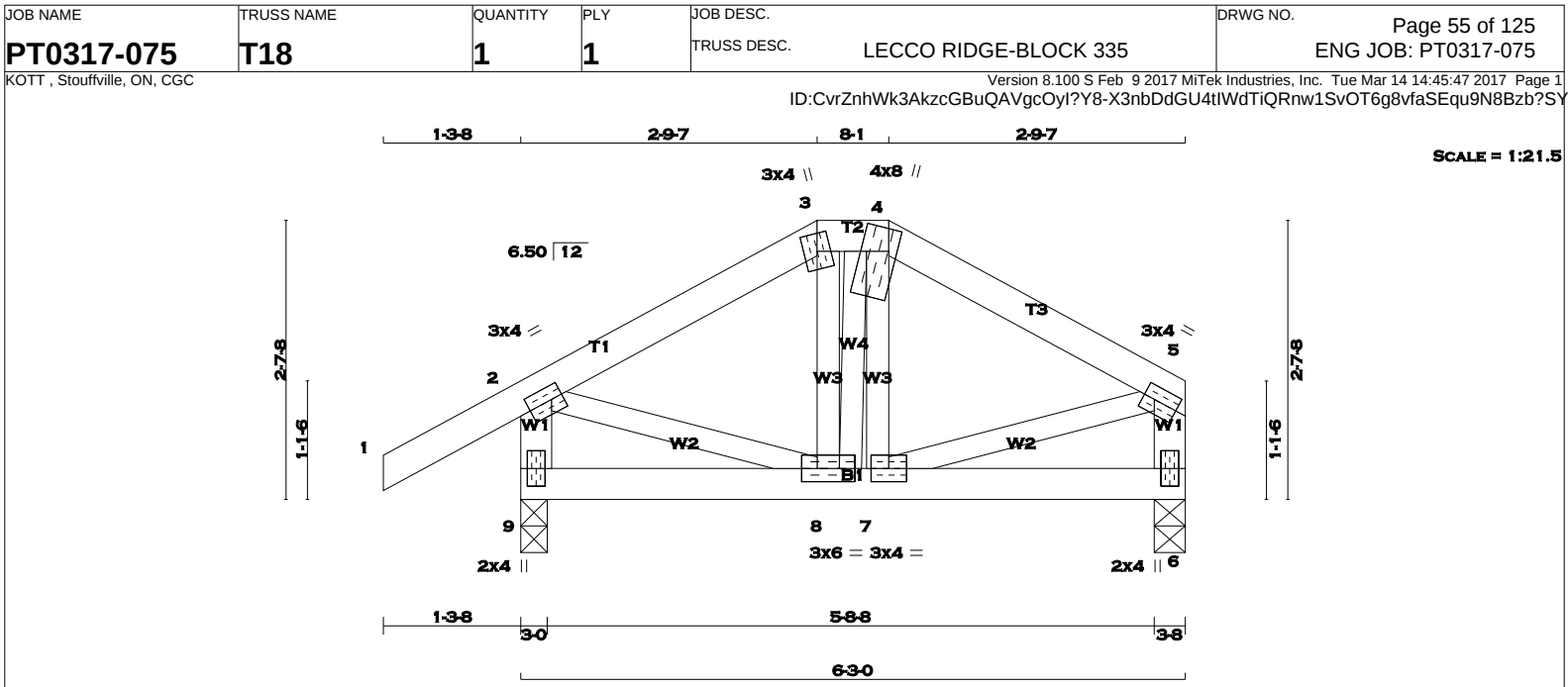
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LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2
3 - 4	2x4	DRY	No.2
4 - 5	2x4	DRY	No.2
9 - 2	2x4	DRY	No.2
6 - 5	2x4	DRY	No.2
9 - 6	2x4	DRY	No.2

ALL WEBS 2x3 DRY No.2

EXCEPT

SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	4.0	1.50	1.25
3	TTW+m	MT20	3.0	4.0		
4	TTWW+m	MT20	4.0	8.0	2.50	1.00
5	TMVW-t	MT20	3.0	4.0	1.50	1.25
6	BMV1+p	MT20	2.0	4.0		
7	BMWW-t	MT20	3.0	4.0		
8	BMWW-t	MT20	3.0	6.0		
9	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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
9	402	0	402	0
6	296	0	296	0

UNFACTORED REACTIONS

	1ST LCASE	MAX/MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	
9	280	209 / 0	0 / 0	0 / 0	0 / 0	71 / 0	0 / 0	
6	208	146 / 0	0 / 0	0 / 0	0 / 0	63 / 0	0 / 0	

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 9, 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				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)	
FR-TO		FROM	TO	FR-TO		FROM	TO
1-2	0 / 25	-77.3	-77.3 0.10 (1)	10.00	8-3	-24 / 20	0.01 (4)
2-3	-230 / 0	-77.3	-77.3 0.08 (1)	6.25	8-4	-4 / 3	0.00 (4)
3-4	-201 / 0	-77.3	-77.3 0.00 (1)	6.25	7-4	-20 / 17	0.01 (4)
4-5	-231 / 0	-77.3	-77.3 0.08 (1)	6.25	2-8	0 / 210	0.05 (1)
9-2	-379 / 0	0.0	0.0 0.04 (1)	7.81	7-5	0 / 211	0.05 (1)
6-5	-275 / 0	0.0	0.0 0.03 (1)	7.81			
9-8	0 / 0	-17.5	-17.5 0.03 (4)	10.00			
8-7	0 / 202	-17.5	-17.5 0.05 (4)	10.00			
7-6	0 / 0	-17.5	-17.5 0.03 (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 6.00/12

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 (0.21")

CALCULATED VERT. DEFL.(LL) = L/999 (0.00")

ALLOWABLE DEFL.(TL)= L/360 (0.21")

CALCULATED VERT. DEFL.(TL) = L/999 (0.00")

CSI: TC=0.10 (1-2:1), BC=0.05 (7-8:4), WB=0.05 (5-7:1), SSI=0.07 (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
MT20	618	354	1667

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.52 (5) (INPUT = 0.90)

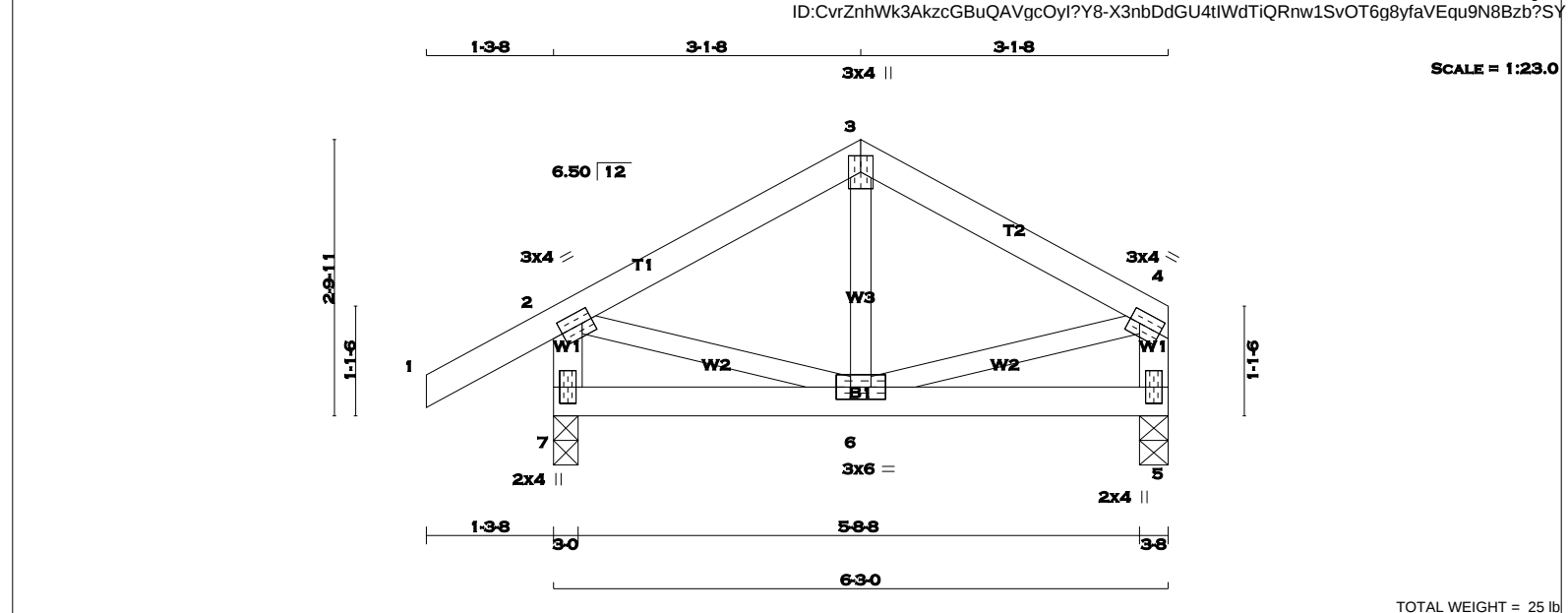
JSI METAL= 0.12 (2) (INPUT = 1.00)



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LUMBER					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										[M][F]
N. L. G. A. RULES															
CHORDS SIZE LUMBER DESCR.															
1 - 3 2x4 DRY No.2 SPF															
3 - 4 2x4 DRY No.2 SPF					BEARINGS FACTORED MAXIMUM FACTORED INPUT REQ'D GROSS REACTION GROSS REACTION BRG BRG JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX 7 402 0 402 0 0 3-0 3-0 5 296 0 296 0 0 3-8 3-8										
7 - 2 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					UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 7 280 209 / 0 0 / 0 0 / 0 71 / 0 0 / 0 5 208 146 / 0 0 / 0 0 / 0 63 / 0 0 / 0										
EXCEPT															
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	TTW+p	MT20	3.0	4.0		
4	TMVW-t	MT20	3.0	4.0	1.50	1.25
5	BMV1+p	MT20	2.0	4.0		
6	BMVWW-t	MT20	3.0	6.0		
7	BMV1+p	MT20	2.0	4.0		
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.						

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)									
C H O R D S									
MEMB.		MAX. FACTORED FORCE (LBS)		FACTORED VERT. LOAD (PLF)		MAX. UNBRACED LENGTH		W E B S	
				LC1 MAX				MAX. FACTORED FORCE (LBS)	
				CSI (LC)				MAX. FACTORED FORCE (LBS)	
FR-TO				FROM TO				FR-TO	
1- 2		0 / 25		-77.3 -77.3		0.10 (1)		10.00 6- 3	
2- 3		-218 / 0		-77.3 -77.3		0.10 (1)		6.25 2- 6	
3- 4		-218 / 0		-77.3 -77.3		0.10 (1)		6.25 6- 4	
7- 2		-379 / 0		0.0 0.0		0.04 (1)		7.81	
5- 4		-274 / 0		0.0 0.0		0.03 (1)		7.81	
7- 6		0 / 0		-17.5 -17.5		0.05 (4)		10.00	
6- 5		0 / 0		-17.5 -17.5		0.05 (4)		10.00	

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 (0.21")					
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")					
ALLOWABLE DEFL.(TL)= L/360 (0.21")					
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.00")					
CSI: TC=0.10 (1-2:1) , BC=0.05 (6-7:4) , WB=0.04 (2-6:1) , SSI=0.08 (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
MT20	618	354	1667	822	2284 1656
PLATE PLACEMENT TOL. = 0.250 inches					
PLATE ROTATION TOL. = 5.0 Deg.					
JSI GRIP= 0.49 (4) (INPUT = 0.90)					
JSI METAL= 0.12 (2) (INPUT = 1.00)					

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GABLE STUDS SPACED AT 2'-0" OC.

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX FACTORED CSI (LC)
FR-TO		FROM TO			FR-TO		
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	11-3	0 / 183	0.04 (1)
2-3	-1163 / 0	-77.3	-77.3 0.14 (1)	5.76	3-10	-459 / 0	0.15 (1)
3-4	-662 / 0	-77.3	-77.3 0.19 (1)	6.25	10-4	0 / 279	0.06 (1)
4-5	-297 / 0	-77.3	-77.3 0.18 (1)	6.25	4-9	-531 / 0	0.31 (1)
5-6	-236 / 0	-77.3	-77.3 0.08 (1)	6.25	9-5	-67 / 22	0.07 (1)
8-6	-772 / 0	0.0	0.0 0.26 (1)	6.25	9-6	0 / 623	0.14 (1)
12-2	-752 / 0	0.0	0.0 0.08 (1)	7.81	2-11	0 / 985	0.22 (1)
12-11	0 / 0	-17.5	-17.5 0.06 (4)	10.00			
11-10	0 / 968	-17.5	-17.5 0.19 (1)	10.00			
10-9	0 / 557	-17.5	-17.5 0.12 (1)	10.00			
9-8	0 / 17	-17.5	-17.5 0.16 (1)	10.00			
8-7	-296 / 0	-17.5	-17.5 0.16 (1)	6.25			

JSI GRIP= 0.88 (11) (INPUT = 0.90)
JSI METAL= 0.32 (2) (INPUT = 1.00)



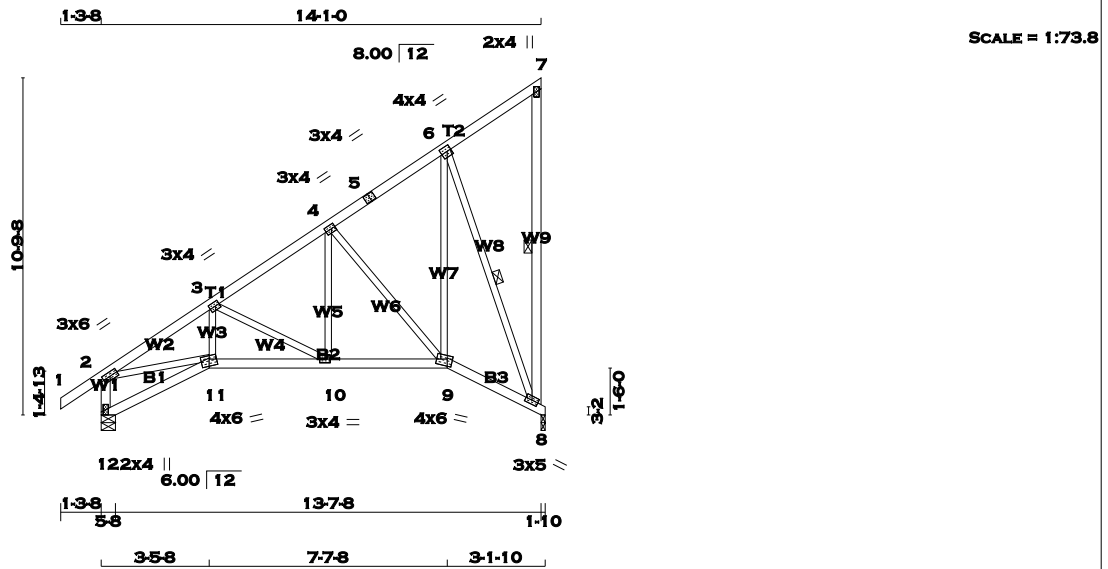
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KOTT, Stouffville, ON, CGC

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Tue Mar 14 14:45:48 2017 Page 1

ID: CvrZnhWk3AkzcGBuQAVgcOyl?Y8-?FKzRzH6rBQNEchc?URG?6weV4S_OyWO2Yuwgdzb?SX



TOTAL WEIGHT = 79 lb

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
1 - 5	2x4	DRY	No.2
5 - 7	2x4	DRY	No.2
8 - 7	2x4	DRY	No.2
12 - 2	2x4	DRY	No.2
12 - 11	2x4	DRY	No.2
11 - 9	2x4	DRY	No.2
9 - 8	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2

DESCR. SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	6.0		
3	TMVW-t	MT20	3.0	4.0	1.50	1.50
4	TMVW-t	MT20	3.0	4.0	1.50	1.50
5	TS-t	MT20	3.0	4.0		
6	TMVW-t	MT20	4.0	4.0	2.00	1.50
7	TMV+p	MT20	2.0	4.0		
8	BMVW1-t	MT20	3.0	5.0		
9	BBWW-m	MT20	4.0	6.0	2.75	2.00
10	BMVW-t	MT20	3.0	4.0		
11	BBWW-m	MT20	4.0	6.0	2.75	2.75
12	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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		
8	668	0		668	0	0	1-10			1-10		
12	774	0		774	0	0	5-8			5-8		

UNFACTORED REACTIONS							
1ST LCASE		MAX/MIN. COMPONENT REACTIONS		1ST LCASE		MAX/MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	JT	COMBINED	SNOW	LIVE
8	469	328 / 0	0 / 0	8	469	328 / 0	0 / 0
12	541	392 / 0	0 / 0	12	541	392 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.82 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-8, 6-8, DBS = 20-0-0. CBF = 90 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. 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)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC)	MAX. FACTORED VERT. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC)
FR-TO		FROM TO			FR-TO		
1-2	0 / 29	-77.3 -77.3	0.10 (1)	10.00	11-3	0 / 179	0.04 (1)
2-3	-1146 / 0	-77.3 -77.3	0.12 (1)	5.82	3-10	-452 / 0	0.13 (1)
3-4	-667 / 0	-77.3 -77.3	0.09 (1)	6.25	10-4	0 / 287	0.06 (1)
4-5	-289 / 0	-77.3 -77.3	0.09 (1)	6.25	4-9	-480 / 0	0.27 (1)
5-6	-289 / 0	-77.3 -77.3	0.09 (1)	6.25	9-6	0 / 542	0.12 (1)
6-7	-15 / 0	-77.3 -77.3	0.09 (1)	6.25	6-8	-718 / 0	0.38 (1)
8-7	-92 / 0	0.0 0.0	0.05 (1)	6.25	2-11	0 / 972	0.22 (1)
12-2	-744 / 0	0.0 0.0	0.08 (1)	7.81			
12-11	0 / 0	-17.5 -17.5	0.06 (4)	10.00			
11-10	0 / 955	-17.5 -17.5	0.19 (1)	10.00			
10-9	0 / 555	-17.5 -17.5	0.12 (1)	10.00			
9-8	0 / 278	-17.5 -17.5	0.07 (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 (0.47")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.47")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.05")

CSI: TC=0.12 (2-3:1), BC=0.19 (10-11:1), WB=0.38 (6-8:1), SSI=0.10 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

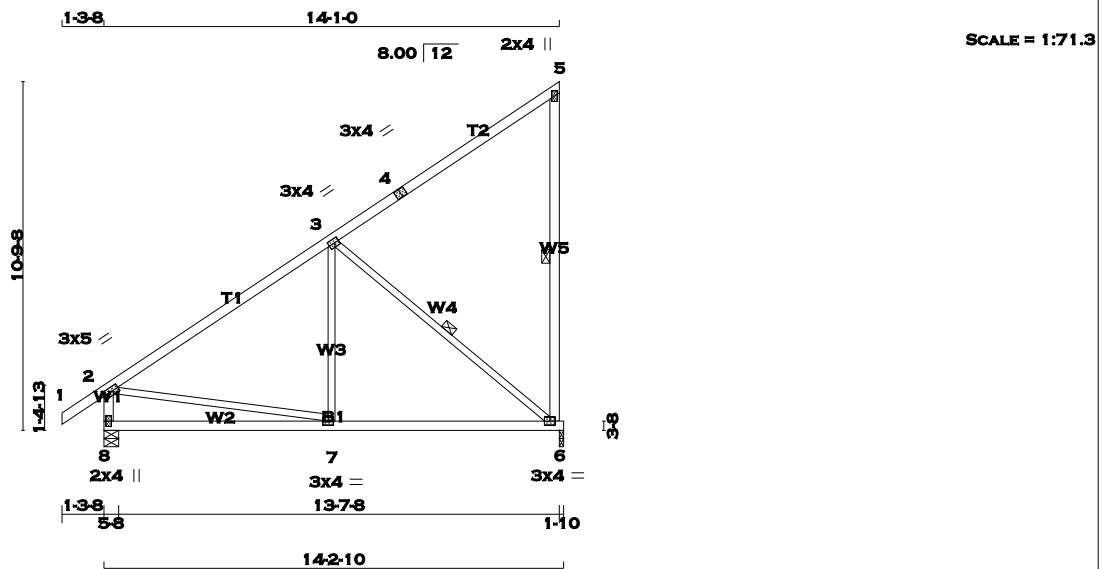
JSI GRIP= 0.88 (8) (INPUT = 0.90)
JSI METAL= 0.32 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 5 X 67 = 336 lb
[M][F]

LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
1 - 4	2x4	DRY	No.2		SPF
4 - 5	2x4	DRY	No.2		SPF
6 - 5	2x4	DRY	No.2		SPF
8 - 2	2x4	DRY	No.2		SPF
8 - 6	2x4	DRY	No.2		SPF
ALL WEBS 2x3 DRY No.2 EXCEPT					SPF
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	TMVW-t	MT20	3.0	4.0	1.50	1.50
4	TS-t	MT20	3.0	4.0		
5	TMV+p	MT20	2.0	4.0		
6	BMVW1-t	MT20	3.0	4.0		
7	BMVW-t	MT20	3.0	4.0		
8	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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	IN-SX	
6		668	0	668	0	0	1-10	1-10	
8		774	0	774	0	0	5-8	5-8	

UNFACTORED REACTIONS

		1ST LCASE	MAX./MIN. COMPONENT REACTIONS							
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
6		469	328 / 0	0 / 0	0 / 0	0 / 0	141 / 0	0 / 0		
8		541	392 / 0	0 / 0	0 / 0	0 / 0	149 / 0	0 / 0		

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6, 8

BRACING

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

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-6, 3-6. DBS = 20-0-0 . CBF = 82 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. 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)

		C H O R D S				W E B S			
		MAX. FACTORED		FACTORED		MAX. FACTORED		FACTORED	
MEMB.		FORCE (LBS)	VERT. LOAD	LC1 MAX (PLF)	LC1 MAX (LC)	MEMB.	FORCE (LBS)	MAX (LC)	
FR-TO			FROM	TO	UNBRAC LENGTH	FR-TO			
1-2		0 / 29	-77.3	-77.3	0.10 (1)	10.00	7-3	0 / 149	0.05 (4)
2-3		-572 / 0	-77.3	-77.3	0.52 (1)	6.25	3-6	-656 / 0	0.37 (1)
3-4		-37 / 0	-77.3	-77.3	0.51 (1)	6.25	2-7	0 / 513	0.12 (1)
4-5		-37 / 0	-77.3	-77.3	0.51 (1)	6.25			
6-5		-205 / 0	0.0	0.0	0.12 (1)	6.25			
8-2		-727 / 0	0.0	0.0	0.07 (1)	7.81			
8-7		0 / 0	-17.5	-17.5	0.25 (4)	10.00			
7-6		0 / 507	-17.5	-17.5	0.29 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C/C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.47")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.47")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.06")

CSI: TC=0.52 (2-3:1) , BC=0.29 (6-7:4) , WB=0.37 (3-6:1) , SSI=0.22 (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
MT20	618	354	1667	822	2284

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (7) (INPUT = 0.90)
JSI METAL= 0.23 (2) (INPUT = 1.00)



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 IN THE DESIGN OF THIS COMPONENT.





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 6.00/12

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)= $L/360$ (0.80")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.06")
ALLOWABLE DEFL.(TL)= $L/360$ (0.80")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.11")

CSI: TC=0.43 (5-6:1), BC=0.30 (10-11:1),
WB=0.72 (5-7:1), SSI=0.20 (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

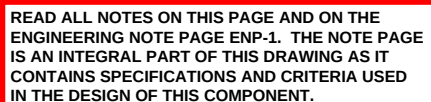
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

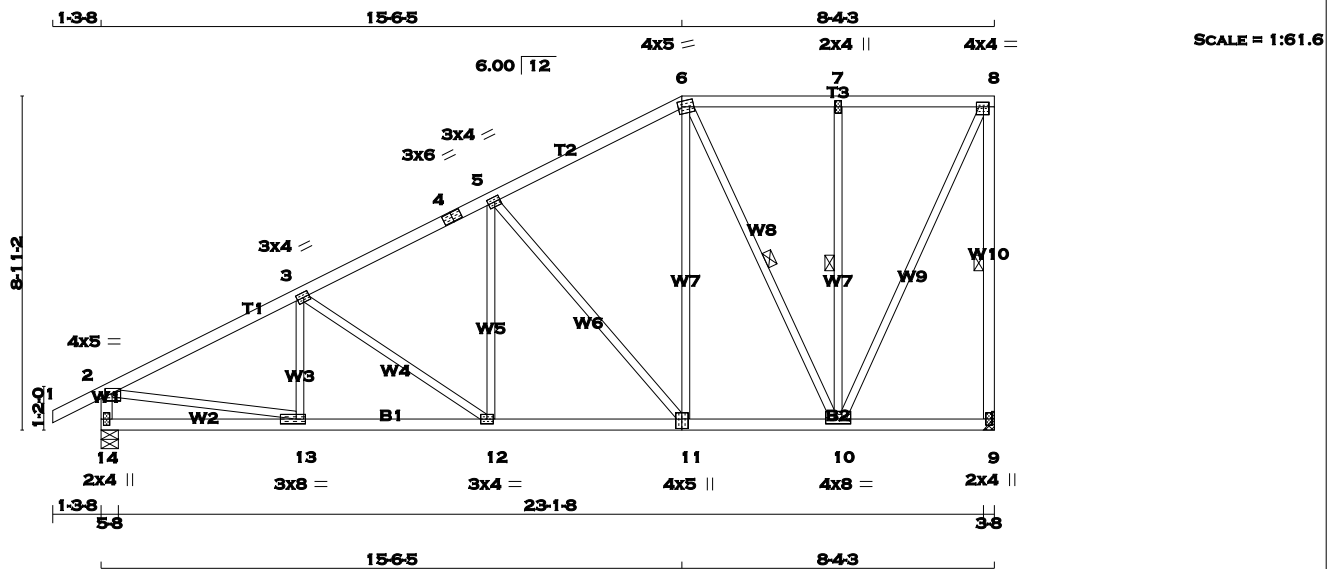
NAIL VALUES					
PLATE	GRIP(DRY) (PSI)		SHEAR (PLI)		SECTION (PLI)
	MAX	MIN	MAX	MIN	MAX MIN
MT20	618	354	1667	822	2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (7) (INPUT = 0.90)
JSI METAL= 0.39 (1) (INPUT = 1.00)





TOTAL WEIGHT = 120 lb
[M][F]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 8	2x4	DRY	No.2	SPF
9 - 8	2x4	DRY	No.2	SPF
14 - 2	2x4	DRY	No.2	SPF
14 - 11	2x4	DRY	No.2	SPF
11 - 9	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-p	MT20	4.0	5.0	1.50	2.25
3	TMVW-t	MT20	3.0	4.0	1.50	1.75
4	TS-t	MT20	3.0	6.0		
5	TMVW-t	MT20	3.0	4.0	1.50	1.75
6	TTVW-m	MT20	4.0	5.0	1.75	1.25
7	TMVW-w	MT20	2.0	4.0		
8	TMVW-t	MT20	4.0	4.0	1.50	1.75
9	BMV1+p	MT20	2.0	4.0		
10	BMVWW-t	MT20	4.0	8.0	1.50	4.00
11	BSWW-t	MT20	4.0	5.0	3.00	2.00
12	BMVW-t	MT20	3.0	4.0		
13	BMVW-t	MT20	3.0	8.0	1.50	3.00
14	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.



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

BEARINGS					
FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT	REQRD
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
9	1132	0	1132	0	0
14	1237	0	1237	0	0

UNFACTORED REACTIONS							
JT	1ST LCASE	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
9	795	556 / 0	0 / 0	0 / 0	0 / 0	0 / 0	239 / 0
14	866	619 / 0	0 / 0	0 / 0	0 / 0	0 / 0	247 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.01 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 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 8-9. DBS = 12-0-0 . CBF = 83 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 6-10, 7-10. DBS = 20-0-0 . CBF = 70 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. 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 / 23	-77.3 -77.3	0.10 (1)	10.00	13-3	-128 / 47	0.03 (1)
2-3	-1545 / 0	-77.3 -77.3	0.29 (1)	5.01	3-12	-319 / 0	0.22 (1)
3-4	-1268 / 0	-77.3 -77.3	0.23 (1)	5.47	12-5	0 / 273	0.06 (1)
4-5	-1268 / 0	-77.3 -77.3	0.23 (1)	5.47	5-11	-651 / 0	0.87 (1)
5-6	-810 / 0	-77.3 -77.3	0.23 (1)	6.25	11-6	0 / 575	0.13 (1)
6-7	-472 / 0	-77.3 -77.3	0.17 (1)	6.25	6-10	-559 / 0	0.36 (1)
7-8	-472 / 0	-77.3 -77.3	0.17 (1)	6.25	10-7	-397 / 0	0.20 (1)
9-8	-1101 / 0	0.0 0.0	0.41 (1)	6.03	10-8	0 / 1086	0.24 (1)
14-2	-1197 / 0	0.0 0.0	0.12 (1)	7.31	2-13	0 / 1415	0.32 (1)
14-13	0 / 0	-17.5 -17.5	0.11 (4)	10.00			
13-12	0 / 1397	-17.5 -17.5	0.27 (1)	10.00			
12-11	0 / 1133	-17.5 -17.5	0.23 (1)	10.00			
11-10	0 / 716	-17.5 -17.5	0.15 (1)	10.00			
10-9	0 / 0	-17.5 -17.5	0.07 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

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 (0.80")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.80")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.10")

CSI: TC=0.41 (8-9:1) , BC=0.27 (12-13:1) , WB=0.87 (5-11:1) , SSI=0.17 (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

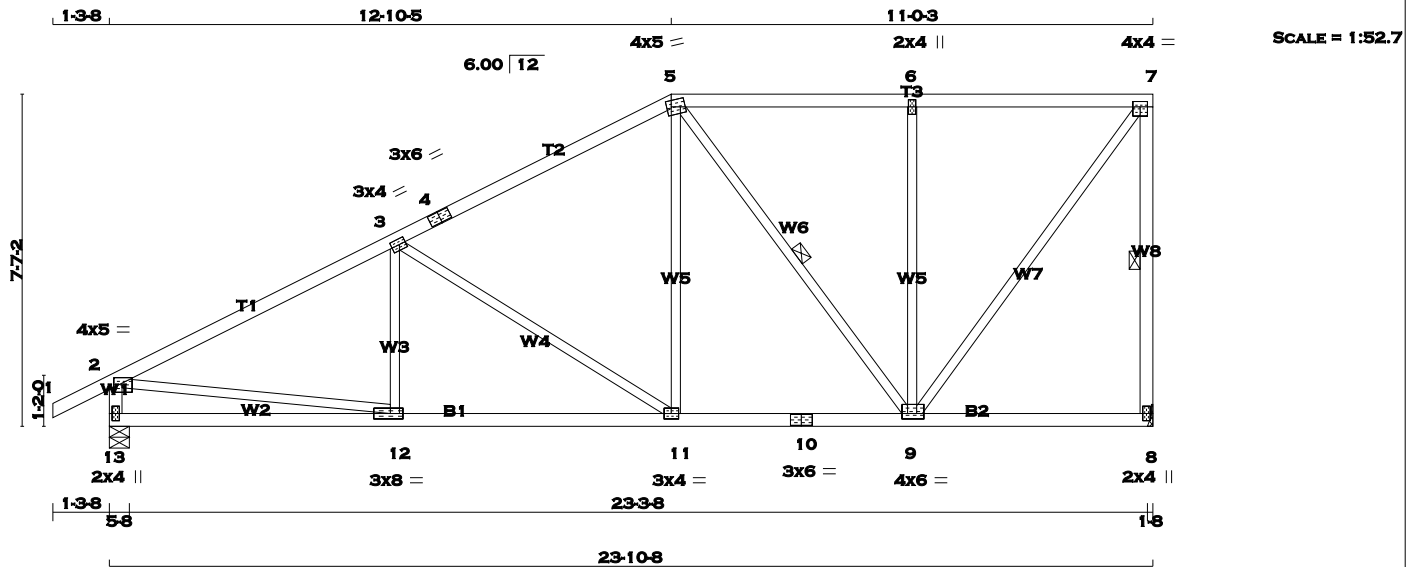
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (13) (INPUT = 0.90)
JSI METAL= 0.40 (2) (INPUT = 1.00)

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TOTAL WEIGHT = 107 lb
[M][F]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	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
DRY: SEASONED LUMBER.				

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-p	MT20	4.0	5.0	1.50	2.25
3	TMVW-t	MT20	3.0	4.0	1.50	1.75
4	TS-t	MT20	3.0	6.0		
5	TTWW-m	MT20	4.0	5.0	1.75	1.25
6	TMVW-w	MT20	2.0	4.0		
7	TMVW-t	MT20	4.0	4.0	1.50	2.00
8	BMV1+p	MT20	2.0	4.0		
9	BMVWW-t	MT20	4.0	6.0	1.50	1.50
10	BS-t	MT20	3.0	6.0		
11	BMVW-t	MT20	3.0	4.0		
12	BMVW-t	MT20	3.0	8.0	1.50	3.50
13	BMV1+p	MT20	2.0	4.0		
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.						



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	IN-SX	IN-SX		
8		1132	0	1132	0	0		HANGER BY OTHERS	
13		1237	0	1237	0	0	5-8	MIN. SEAT SIZE: 1-8	5-8
UNFACTORED REACTIONS									
JT	1ST LCASE	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
8		795	556 / 0	0 / 0	0 / 0	0 / 0	239 / 0	0 / 0	
13		866	619 / 0	0 / 0	0 / 0	0 / 0	247 / 0	0 / 0	

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

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

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-8. DBS = 12-0-0 . CBF = 82 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-9. DBS = 20-0-0 . CBF = 47 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. 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	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO	CSI (LC)	LENGTH	FR-TO		LENGTH	FR-TO	
1-2	0 / 23	-77.3 -77.3	0.10 (1)	10.00	12-3	-59 / 91	0.03 (4)		
2-3	-1552 / 0	-77.3 -77.3	0.47 (1)	4.75	3-11	-582 / 0	0.69 (1)		
3-4	-1058 / 0	-77.3 -77.3	0.43 (1)	5.56	11-5	0 / 415	0.09 (1)		
4-5	-1058 / 0	-77.3 -77.3	0.43 (1)	5.56	5-9	-374 / 0	0.21 (1)		
5-6	-702 / 0	-77.3 -77.3	0.30 (1)	6.25	9-6	-528 / 0	0.56 (1)		
6-7	-702 / 0	-77.3 -77.3	0.30 (1)	6.25	9-7	0 / 1166	0.26 (1)		
8-7	-1092 / 0	0.0 0.0	0.28 (1)	6.05	2-12	0 / 1424	0.32 (1)		
13-2	-1190 / 0	0.0 0.0	0.12 (1)	7.32					
13-12	0 / 0	-17.5 -17.5	0.18 (4)	10.00					
12-11	0 / 1411	-17.5 -17.5	0.31 (1)	10.00					
11-10	0 / 928	-17.5 -17.5	0.21 (1)	10.00					
10-9	0 / 928	-17.5 -17.5	0.21 (1)	10.00					
9-8	0 / 0	-17.5 -17.5	0.12 (4)	10.00					

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

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 (0.80")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.80")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11")

CSI: TC=0.47 (2-3:1) , BC=0.31 (11-12:1) , WB=0.69 (3-11:1) , SSI=0.22 (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

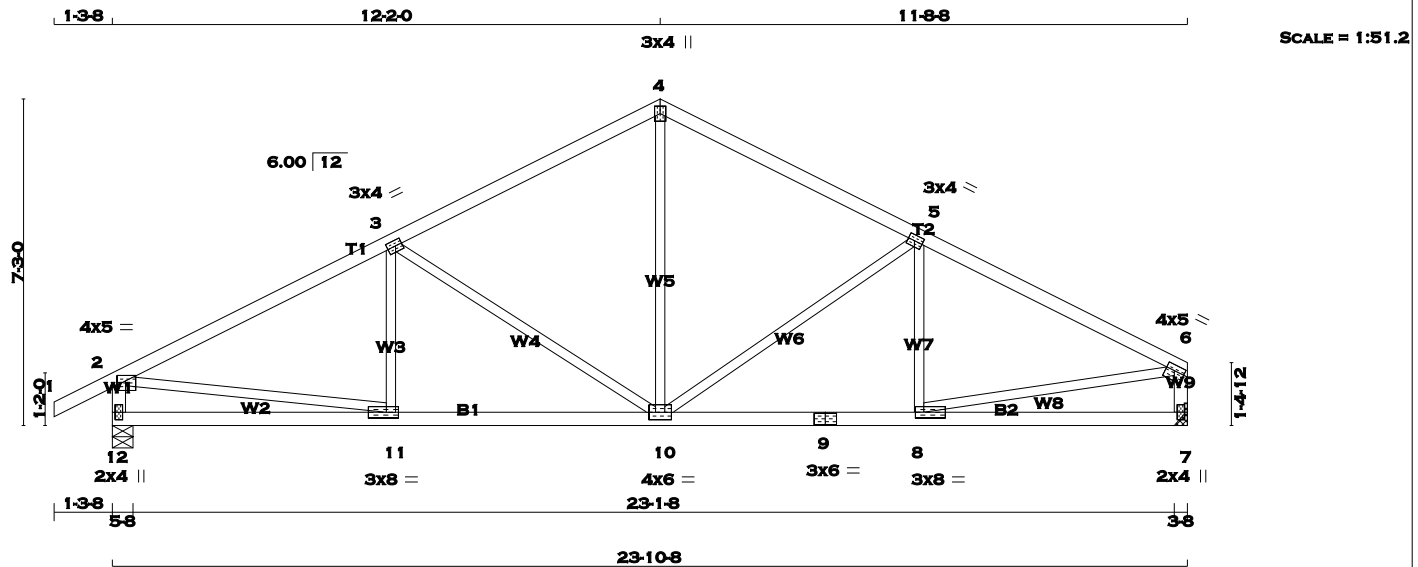
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (7) (INPUT = 0.90)
JSI METAL= 0.40 (2) (INPUT = 1.00)

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LUMBER				N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.	CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	1 - 4	2x4	DRY	No.2
4 - 6	2x4	DRY	No.2	12 - 2	2x4	DRY	No.2
12 - 2	2x4	DRY	No.2	7 - 6	2x4	DRY	No.2
7 - 6	2x4	DRY	No.2	12 - 9	2x4	DRY	No.2
12 - 9	2x4	DRY	No.2	9 - 7	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-p	MT20	4.0	5.0	1.50	2.25	
3	TMVW-t	MT20	3.0	4.0	1.50	1.75	
4	TTW+p	MT20	3.0	4.0			
5	TMVW-t	MT20	3.0	4.0	1.50	1.75	
6	TMVW-t	MT20	4.0	5.0	1.50	2.25	
7	BMV1+p	MT20	2.0	4.0			
8	BMVW-t	MT20	3.0	8.0	1.50	2.25	
9	BS-t	MT20	3.0	6.0			
10	BMVW-t	MT20	4.0	6.0			
11	BMVW-t	MT20	3.0	8.0	1.50	3.25	
12	BMV1+p	MT20	2.0	4.0			

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.



DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
<u>BEARINGS</u>									
		FACTORED		MAXIMUM FACTORED			INPUT	REQRD	
		GROSS REACTION		GROSS REACTION			BRG	BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
12		1237	0	1237	0	0	5-8	5-8	
7		1132	0	1132	0	0	HANGER BY OTHERS		
MIN. SEAT SIZE: 3-8									

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN.	SNOW	LIVE	PERM.LIVE	WIND	DEAD
12	866	619 / 0	0 / 0	0 / 0	0 / 0	0 / 0	247 / 0
7	795	556 / 0	0 / 0	0 / 0	0 / 0	0 / 0	239 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.83 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)	VERT. LOAD (PLF)	LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	FR-TO
1-2	0 / 23	-77.3	-77.3 0.10 (1)	10.00	11-3	-80 / 78	0.03 (4)
2-3	-1555 / 0	-77.3	-77.3 0.42 (1)	4.83	3-10	-519 / 0	0.51 (1)
3-4	-1121 / 0	-77.3	-77.3 0.38 (1)	5.51	10-4	0 / 638	0.14 (1)
4-5	-1120 / 0	-77.3	-77.3 0.36 (1)	5.56	10-5	-434 / 0	0.41 (1)
5-6	-1468 / 0	-77.3	-77.3 0.38 (1)	4.99	8-5	-133 / 58	0.04 (1)
12-2	-1191 / 0	0.0	0.0 0.12 (1)	7.32	2-11	0 / 1426	0.32 (1)
7-6	-1088 / 0	0.0	0.0 0.11 (1)	7.58	8-6	0 / 1357	0.31 (1)
12-11	0 / 0	-17.5	-17.5 0.15 (4)	10.00			
11-10	0 / 1413	-17.5	-17.5 0.30 (1)	10.00			
10-9	0 / 1334	-17.5	-17.5 0.28 (1)	10.00			
9-8	0 / 1334	-17.5	-17.5 0.28 (1)	10.00			
8-7	0 / 0	-17.5	-17.5 0.14 (4)	10.00			

DESIGN CRITERIA			
SPECIFIED LOADS:			
TOP CH.	LL	=	23.3 PSF
	DL	=	3.0 PSF
BOT CH.	LL	=	0.0 PSF
	DL	=	7.0 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

(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 (0.80")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.80")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11")

CSI: TC=0.42 (2-3:1) , BC=0.30 (10-11:1) , WB=0.51 (3-10:1) , SSI=0.21 (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)
MT20	618	354	1667	822	2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

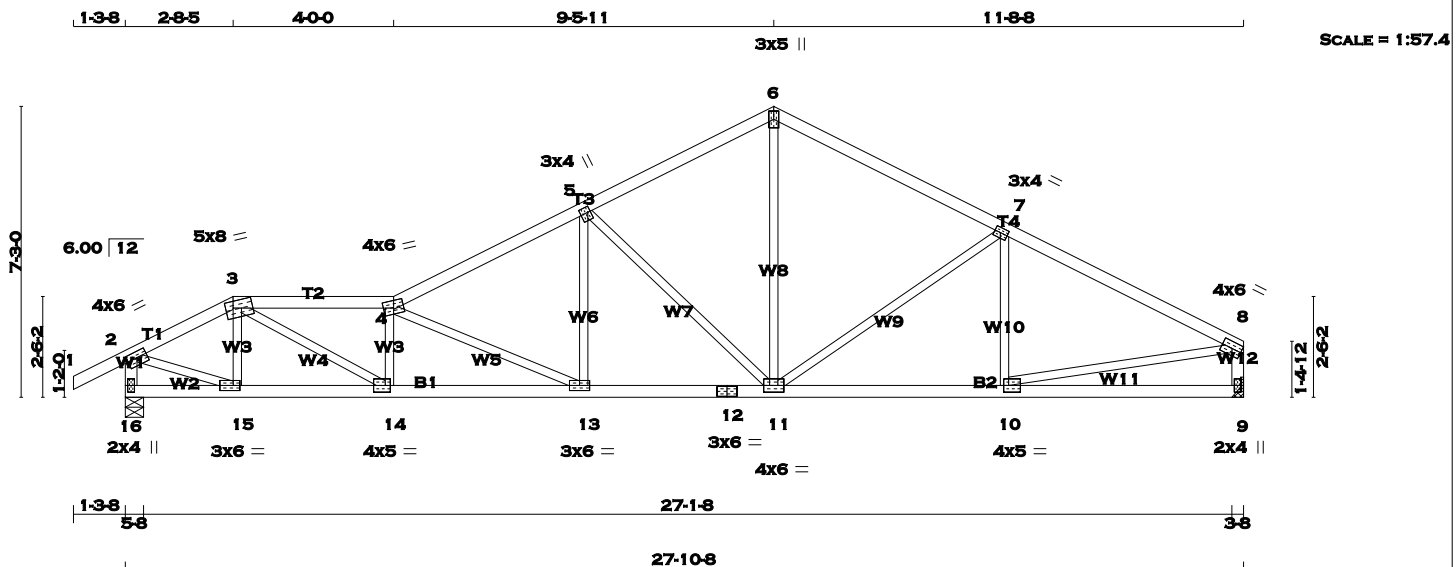
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (8) (INPUT = 0.90)
JSI METAL= 0.47 (6) (INPUT = 1.00)

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 IS AN INTEGRAL PART OF THIS DRAWING AS IT
 CONTAINS SPECIFICATIONS AND CRITERIA USED
 IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 111 lb
[M][F]

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2
3 - 4	2x4	DRY	No.2
4 - 6	2x4	DRY	No.2
6 - 8	2x4	DRY	No.2
16 - 2	2x4	DRY	No.2
9 - 8	2x4	DRY	No.2
16 - 12	2x4	DRY	No.2
12 - 9	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			SPF
DRY: SEASONED LUMBER.			

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	6.0	1.75	3.00
3	TTWW-m	MT20	5.0	8.0	2.00	2.25
4	TTWW-m	MT20	4.0	6.0	2.25	3.00
5	TMWW-t	MT20	3.0	4.0	1.75	0.75
6	TTW+p	MT20	3.0	5.0		
7	TMWW-t	MT20	3.0	4.0	1.50	1.75
8	TMVW-t	MT20	4.0	6.0		Edge
9	BMV1+p	MT20	2.0	4.0		
10	BMWW-t	MT20	4.0	5.0	2.00	1.50
11	BMWW-t	MT20	4.0	6.0		
12	BS-t	MT20	3.0	6.0		
13	BMWW-t	MT20	3.0	6.0		
14	BMWW-t	MT20	4.0	5.0	2.00	1.50
15	BMWW-t	MT20	3.0	6.0	1.50	2.00
16	BMV1+p	MT20	2.0	4.0		
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.						
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.						

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	IN-SX	IN-SX		
16		1427	0	1427	0	5-8	5-8		
9		1322	0	1322	0			HANGER BY OTHERS	
MIN. SEAT SIZE: 3-8									

UNFACTORED REACTIONS								
		1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
16		999	712 / 0	0 / 0	0 / 0	0 / 0	287 / 0	0 / 0
9		928	649 / 0	0 / 0	0 / 0	0 / 0	279 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.83 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)	VERT. LOAD (PLF)	MAX. FACTORED (LC1)	MAX. UNBRACED (LC)	MEMB.	FORCE (LBS)	MAX. FACTORED (LC)	MAX. UNBRACED (LC)	
FR-TO		FROM TO			FR-TO				
1-2	0 / 23	-77.3 -77.3	0.10 (1)	10.00	15-3	-376 / 0	0.06 (1)		
2-3	-1662 / 0	-77.3 -77.3	0.10 (1)	5.07	3-14	0 / 1749	0.39 (1)		
3-4	-2988 / 0	-77.3 -77.3	0.26 (1)	3.83	14-4	-814 / 0	0.13 (1)		
4-5	-2216 / 0	-77.3 -77.3	0.29 (1)	4.34	4-13	-1132 / 0	0.53 (1)		
5-6	-1472 / 0	-77.3 -77.3	0.24 (1)	5.15	13-5	0 / 572	0.13 (1)		
6-7	-1477 / 0	-77.3 -77.3	0.37 (1)	4.99	5-11	-975 / 0	0.77 (1)		
7-8	-1778 / 0	-77.3 -77.3	0.40 (1)	4.61	11-6	0 / 991	0.22 (1)		
16-2	-1412 / 0	0.0 0.0	0.14 (1)	6.86	11-7	-383 / 0	0.36 (1)		
9-8	-1278 / 0	0.0 0.0	0.13 (1)	7.13	10-7	-182 / 44	0.05 (1)		
					2-15	0 / 1553	0.35 (1)		
					10-8	0 / 1638	0.37 (1)		
16-15	0 / 0	-17.5 -17.5	0.04 (4)	10.00					
15-14	0 / 1467	-17.5 -17.5	0.28 (1)	10.00					
14-13	0 / 3027	-17.5 -17.5	0.56 (1)	10.00					
13-12	0 / 2000	-17.5 -17.5	0.38 (1)	10.00					
12-11	0 / 2000	-17.5 -17.5	0.38 (1)	10.00					
11-10	0 / 1611	-17.5 -17.5	0.32 (1)	10.00					
10-9	0 / 0	-17.5 -17.5	0.14 (4)	10.00					

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

SPACING = 24.0 IN./C/C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

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 (0.93")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.14")
ALLOWABLE DEFL.(TL)= L/360 (0.93")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.26")

CSI: TC=0.40 (7-8:1), BC=0.56 (13-14:1), WB=0.77 (5-11:1), SSI=0.20 (7-8:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

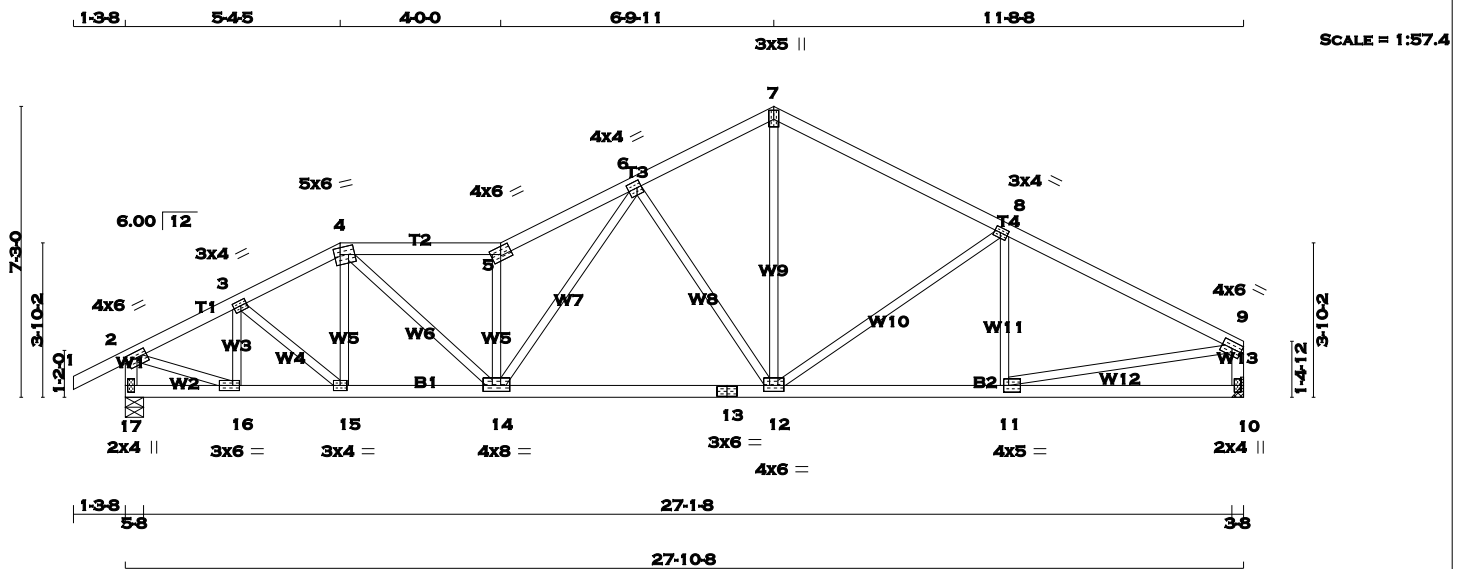
JSI GRIP= 0.89 (10) (INPUT = 0.90)
JSI METAL= 0.49 (12) (INPUT = 1.00)



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TOTAL WEIGHT = 115 lb
[M][F]

LUMBER				N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.	CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	1 - 4	2x4	DRY	No.2
4 - 5	2x4	DRY	No.2	4 - 5	2x4	DRY	No.2
5 - 7	2x4	DRY	No.2	5 - 7	2x4	DRY	No.2
7 - 9	2x4	DRY	No.2	7 - 9	2x4	DRY	No.2
17 - 2	2x4	DRY	No.2	17 - 2	2x4	DRY	No.2
10 - 9	2x4	DRY	No.2	10 - 9	2x4	DRY	No.2
17 - 13	2x4	DRY	No.2	17 - 13	2x4	DRY	No.2
13 - 10	2x4	DRY	No.2	13 - 10	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2	ALL WEBS	2x3	DRY	No.2
EXCEPT				EXCEPT			
DRY: SEASONED LUMBER.							

PLATES (table is in inches)							
JT	TYPE	PLATES	W	LEN	Y	X	
2	TMVW-t	MT20	4.0	6.0	1.75	3.00	
3	TMVW-t	MT20	3.0	4.0	1.50	1.75	
4	TTWW-m	MT20	5.0	6.0	2.00	1.75	
5	TTWW-h	MT20	4.0	6.0	2.25	3.25	
6	TMVW-t	MT20	4.0	4.0	2.00	1.25	
7	TTWW-p	MT20	3.0	5.0	2.75	1.50	
8	TMVW-t	MT20	3.0	4.0	1.50	1.75	
9	TMVW-t	MT20	4.0	6.0		Edge	
10	BMV1+p	MT20	2.0	4.0			
11	BMVW-t	MT20	4.0	5.0	2.00	1.50	
12	BMVW-t	MT20	4.0	6.0	1.75	3.00	
13	BS-t	MT20	3.0	6.0			
14	BMVW-t	MT20	4.0	8.0	1.75	4.00	
15	BMVW-t	MT20	3.0	4.0			
16	BMVW-t	MT20	3.0	6.0	1.50	2.00	
17	BMV1+p	MT20	2.0	4.0			
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.							
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.							

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
<u>BEARINGS</u>									
		FACTORED		MAXIMUM FACTORED		INPUT	REQRD		
		GROSS REACTION		GROSS REACTION		BRG	BRG		
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
17	1427	0		1427	0	0	5-8	5-8	
10	1322	0		1322	0	0	HANGER BY OTHERS		
							MIN. SEAT SIZE: 3-8		

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN.	LIVE	PERM.	LIVE	WIND	DEAD
17	999	712 / 0	0 / 0	0 / 0	0 / 0	0 / 0	287 / 0
10	928	649 / 0	0 / 0	0 / 0	0 / 0	0 / 0	279 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.14 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)	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 / 23	-77.3 -77.3	0.10 (1)	10.00	16-3	-426 / 0	0.07 (1)
2-3	-1655 / 0	-77.3 -77.3	0.10 (1)	5.08	3-15	0 / 175	0.04 (1)
3-4	-1822 / 0	-77.3 -77.3	0.09 (1)	4.91	15-4	-47 / 17	0.01 (1)
4-5	-2307 / 0	-77.3 -77.3	0.22 (1)	4.33	4-14	0 / 930	0.21 (1)
5-6	-2609 / 0	-77.3 -77.3	0.19 (1)	4.14	14-5	-1424 / 0	0.33 (1)
6-7	-1471 / 0	-77.3 -77.3	0.14 (1)	5.27	14-6	0 / 1066	0.24 (1)
7-8	-1482 / 0	-77.3 -77.3	0.37 (1)	4.98	6-12	-830 / 0	0.57 (1)
8-9	-1776 / 0	-77.3 -77.3	0.40 (1)	4.61	12-7	0 / 1035	0.23 (1)
17-2	-1398 / 0	0.0	0.0	14 (1)	6.88	12-8	-375 / 0
10-9	-1276 / 0	0.0	0.0	13 (1)	7.13	11-8	-190 / 37
						11-9	0 / 1556
							0.35 (1)
							0.37 (1)
17-16	0 / 0	-17.5 -17.5	0.03 (1)	10.00			
16-15	0 / 1487	-17.5 -17.5	0.26 (1)	10.00			
15-14	0 / 1619	-17.5 -17.5	0.29 (1)	10.00			
14-13	0 / 1755	-17.5 -17.5	0.38 (1)	10.00			
13-12	0 / 1755	-17.5 -17.5	0.38 (1)	10.00			
12-11	0 / 1610	-17.5 -17.5	0.36 (1)	10.00			
11-10	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 ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

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 (0.93")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.12")
ALLOWABLE DEFL.(TL)= L/360 (0.93")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.23")

CSI: TC=0.40 (8-9:1), BC=0.38 (12-14:1), WB=0.57 (6-12:1), SSI=0.20 (8-9:1)

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

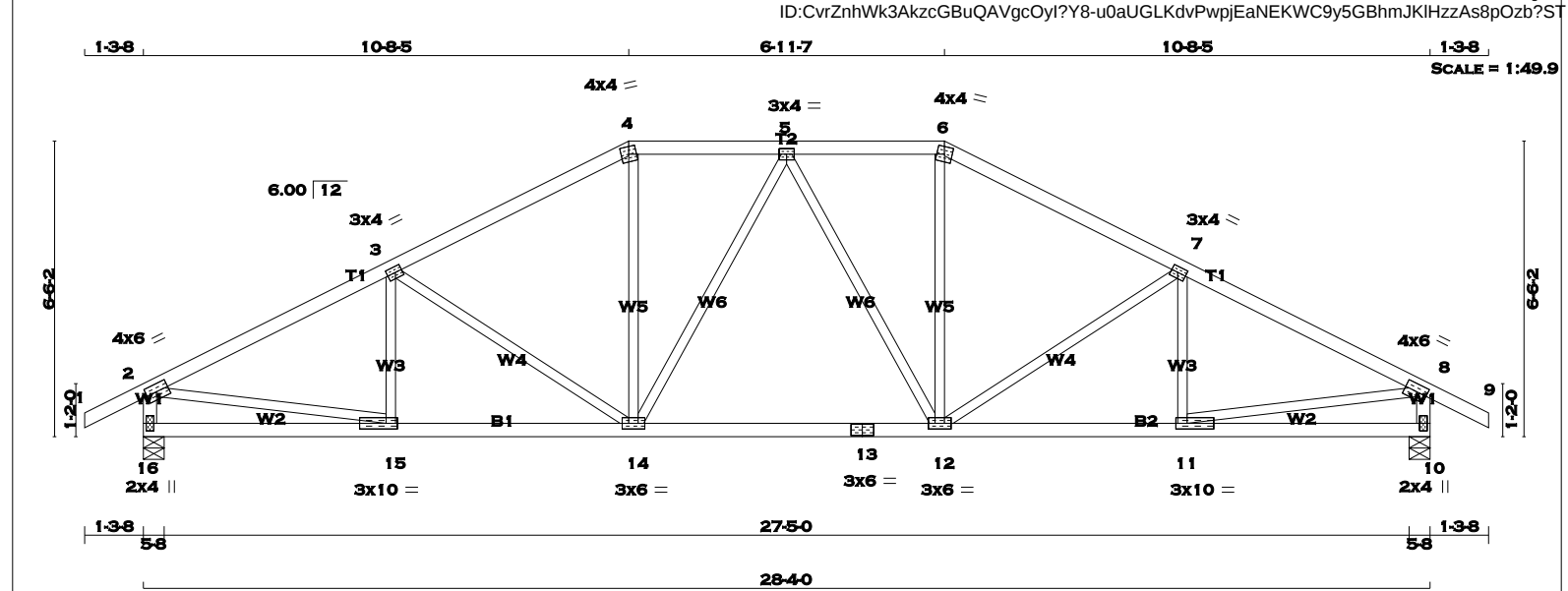
JSI GRIP= 0.89 (11) (INPUT = 0.90)
JSI METAL= 0.52 (5) (INPUT = 1.00)



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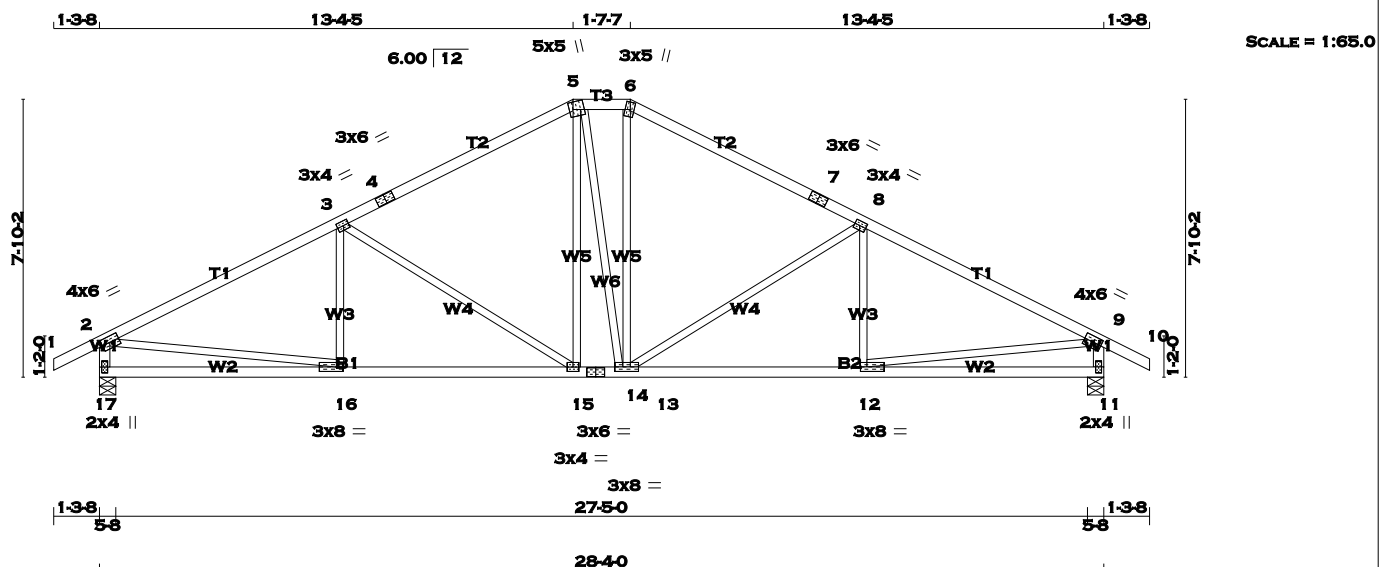
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR.				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS				DESIGN CRITERIA			
1 - 4	2x4	DRY	No.2	SPF	FACTORED	MAXIMUM FACTORED	INPUT	REQRD	SPECIFIED LOADS:		
4 - 6	2x4	DRY	No.2	SPF	GROSS REACTION	GROSS REACTION	BRG	BRG	TOP CH. LL = 23.3 PSF		
6 - 9	2x4	DRY	No.2	SPF	JT VERT	DOWN	HORZ	UPLIFT	DL = 3.0 PSF		
16 - 2	2x4	DRY	No.2	SPF	16 1449 0	1449 0	0	5-8	BOT CH. LL = 0.0 PSF		
10 - 8	2x4	DRY	No.2	SPF	10 1449 0	1449 0	0	5-8	DL = 7.0 PSF		
16 - 13	2x4	DRY	No.2	SPF					TOTAL LOAD = 33.3 PSF		
13 - 10	2x4	DRY	No.2	SPF							
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	UNFACTORED REACTIONS				SPACING = 24.0 IN. C/C		
DRY: SEASONED LUMBER.					1ST LCASE	MAX/MIN.	COMPONENT REACTIONS		LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12		
					JT COMBINED	SNOW	LIVE	PERM.LIVE	THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010		
					16 1014 723 / 0	0 / 0	0 / 0	0 / 0	THIS DESIGN COMPLIES WITH:		
					10 1014 723 / 0	0 / 0	0 / 0	0 / 0	- 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 (0.94")		
									CALCULATED VERT. DEFL.(LL) = L/ 999 (0.08")		
									ALLOWABLE DEFL.(TL)= L/360 (0.94")		
									CALCULATED VERT. DEFL.(TL) = L/ 999 (0.17")		
									CSI: TC=0.34 (2-3:1) , BC=0.35 (14-15:1) , WB=0.39 (2-15:1) , SSI=0.18 (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= 0.89 (11) (INPUT = 0.90)		
									JSI METAL= 0.51 (8) (INPUT = 1.00)		



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 CONTAINS SPECIFICATIONS AND CRITERIA USED
 IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 121 lb
[M][F]

<u>LUMBER</u>			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY No.2	SPF
4 - 5	2x4	DRY No.2	SPF
5 - 6	2x4	DRY No.2	SPF
6 - 7	2x4	DRY No.2	SPF
7 - 10	2x4	DRY No.2	SPF
17 - 2	2x4	DRY No.2	SPF
11 - 9	2x4	DRY No.2	SPF
17 - 14	2x4	DRY No.2	SPF
14 - 11	2x4	DRY No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMWw-t	MT20	4.0	6.0	2.00	2.75
3	TMWw-t	MT20	3.0	4.0	1.50	1.75
4	TS-t	MT20	3.0	6.0		
5	TTWW+m	MT20	5.0	5.0	2.50	1.25
6	TTW+m	MT20	3.0	5.0	2.50	1.25
7	TS-t	MT20	3.0	6.0		
8	TMWwW-t	MT20	3.0	4.0	1.50	1.75
9	TMWV-t	MT20	4.0	6.0	2.00	2.75
10	BMV1+p	MT20	2.0	4.0		
12	BMWwV-t	MT20	3.0	8.0	1.50	2.25
13	BMWwWV-t	MT20	3.0	8.0		
14	BS-t	MT20	3.0	6.0		
15	BMWwV-t	MT20	3.0	4.0		
16	BMWwV-t	MT20	3.0	8.0	1.50	2.25
17	BMV1+n	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQ'D BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX
17	1449	0	1449	0	0	5-8
11	1449	0	1449	0	0	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
17	1014	723 / 0	0 / 0	0 / 0	0 / 0	291 / 0	0 / 0
11	1014	723 / 0	0 / 0	0 / 0	0 / 0	291 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.28 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)

C H O R D S					W E B S				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX FACTORED CSI (LC)		
FR-TO		FROM TO			FR-TO				
1-2	0 / 23	-77.3	-77.3 0.10 (1)	10.0	16-3	-88 / 88	0.03 (4)		
2-3	-1924 / 0	-77.3	-77.3 0.55 (1)	4.28	3-15	-579 / 0	0.75 (1)		
3-4	-1434 / 0	-77.3	-77.3 0.49 (1)	4.87	15-5	0 / 364	0.08 (1)		
4-5	-1434 / 0	-77.3	-77.3 0.49 (1)	4.87	5-13	0 / 12	0.00 (1)		
5-6	-1265 / 0	-77.3	-77.3 0.04 (1)	5.69	13-6	0 / 378	0.08 (1)		
6-7	-1437 / 0	-77.3	-77.3 0.49 (1)	4.87	13-8	-575 / 0	0.75 (1)		
7-8	-1437 / 0	-77.3	-77.3 0.49 (1)	4.87	12-8	-91 / 87	0.03 (4)		
8-9	-1923 / 0	-77.3	-77.3 0.55 (1)	4.28	2-16	0 / 1759	0.40 (1)		
9-10	0 / 23	-77.3	-77.3 0.10 (1)	10.00	12-9	0 / 1758	0.40 (1)		
17-2	-1400 / 0	0.0	0.0 0.14 (1)	6.88					
11-9	-1399 / 0	0.0	0.0 0.14 (1)	6.88					
17-16	0 / 0	-17.5	-17.5 0.20 (4)	10.00					
16-15	0 / 1745	-17.5	-17.5 0.38 (1)	10.00					
15-14	0 / 1262	-17.5	-17.5 0.28 (1)	10.00					
14-13	0 / 1262	-17.5	-17.5 0.28 (1)	10.00					
13-12	0 / 1744	-17.5	-17.5 0.37 (1)	10.00					
12-11	0 / 0	-17.5	-17.5 0.19 (4)	10.00					

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE
OF 6.00/12

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 (0.94")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.09")
ALLOWABLE DEFL.(TL)= L/360 (0.94")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.17")

CSI: TC=0.55 (2-3:1) , BC=0.38 (15-16:1) ,
WB=0.75 (3-15:1) . SSI=0.23 (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) (PSI)		SHEAR (PLI)		SECTION (PLI)
	MAX	MIN	MAX	MIN	MAX MIN
MT20	618	354	1667	822	2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

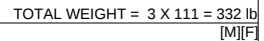
JSI GRIP= 0.89 (16) (INPUT = 0.90)
JSI METAL= 0.52 (2) (INPUT = 1.00)

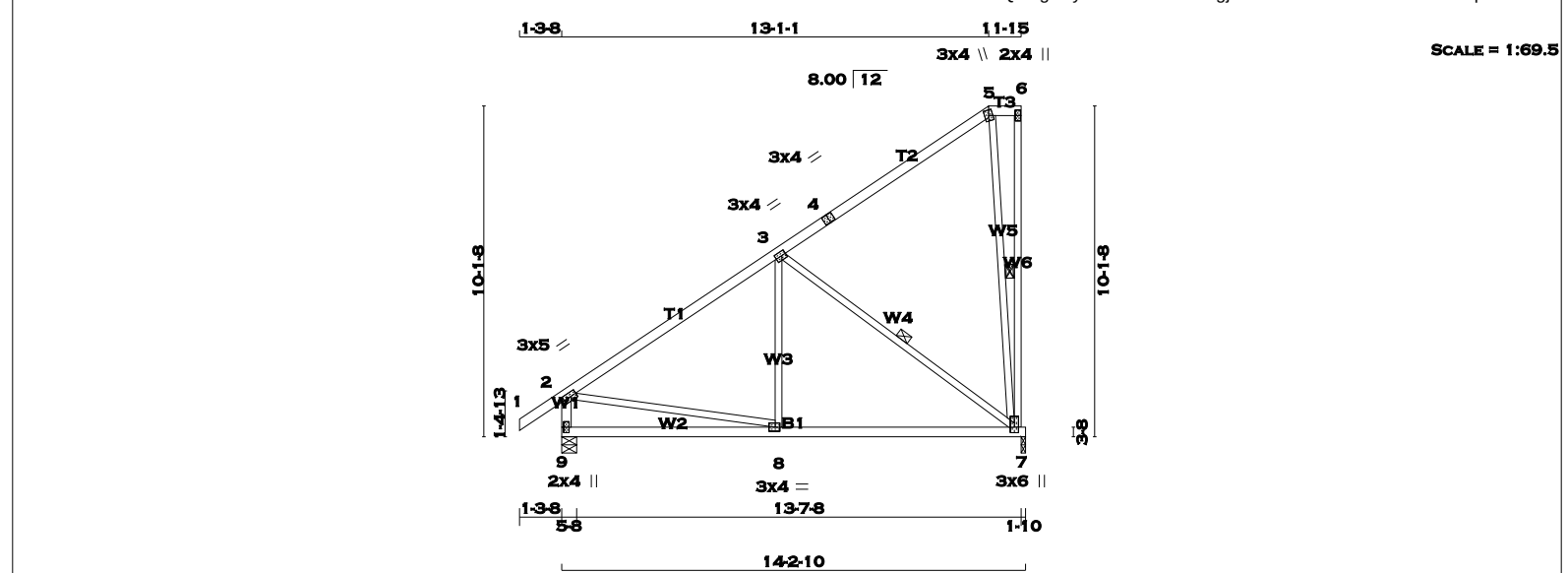


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**READ ALL NOTES ON THIS PAGE AND ON THE
ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE
IS AN INTEGRAL PART OF THIS DRAWING AS IT
CONTAINS SPECIFICATIONS AND CRITERIA USED
IN THE DESIGN OF THIS COMPONENT.**







LUMBER

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

ALL WEBS 2x3 DRY No.2 SPF

EXCEPT

DRY: SEASONED LUMBER.

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
7	668	0	668	0	1-10	1-10
9	774	0	774	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
7	469	328 / 0	0 / 0	0 / 0	0 / 0	141 / 0	0 / 0
9	541	392 / 0	0 / 0	0 / 0	0 / 0	149 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 7, 9

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 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 6-7, 3-7, 5-7. DBS = 20-0-0 . CBF = 77 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. 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)

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.47")

CALCULATED VERT. DEFL.(LL) = L/999 (0.01")

ALLOWABLE DEFL.(TL)= L/360 (0.47")

CALCULATED VERT. DEFL.(TL) = L/999 (0.08")

CSI: TC=0.45 (2-3:1) , BC=0.29 (7-8:4) , WB=0.36 (3-7:1) , SSI=0.21 (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
MT20	618	354	1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (7) (INPUT = 0.90)

JSI METAL= 0.24 (2) (INPUT = 1.00)

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	TMVW-t	MT20	3.0	4.0	1.50	1.50
4	TS-t	MT20	3.0	4.0		
5	TTW+m	MT20	3.0	4.0		
6	TMV+p	MT20	2.0	4.0		
7	BMVWW1+p	MT20	3.0	6.0	2.00	1.50
8	BMVWW-t	MT20	3.0	4.0	1.50	1.75
9	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

TOTAL WEIGHT = 70 lb

[M][F]

C H O R D S		F A C T O R E D		F A C T O R E D		W E B S		F A C T O R E D	
MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX. UNBRACED LENGTH	MEMB.	MAX. FORCE (LBS)	MAX. UNBRACED LENGTH	MEMB.	MAX. FORCE (LBS)
FR-TO					FR-TO			FR-TO	
1-2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	8-3	0 / 147	0.05 (4)	
2-3	-589 / 0	-77.3	-77.3	0.45 (1)	6.25	3-7	-618 / 0	0.36 (1)	
3-4	-61 / 0	-77.3	-77.3	0.43 (1)	6.25	5-7	-211 / 0	0.14 (1)	
4-5	-61 / 0	-77.3	-77.3	0.43 (1)	6.25	2-8	0 / 525	0.12 (1)	
5-6	0 / 0	-77.3	-77.3	0.01 (1)	10.00				
7-6	-39 / 0	0.0	0.0	0.03 (1)	6.25				
9-2	-731 / 0	0.0	0.0	0.08 (1)	7.81				
9-8	0 / 0	-17.5	-17.5	0.25 (4)	10.00				
8-7	0 / 518	-17.5	-17.5	0.29 (4)	10.00				

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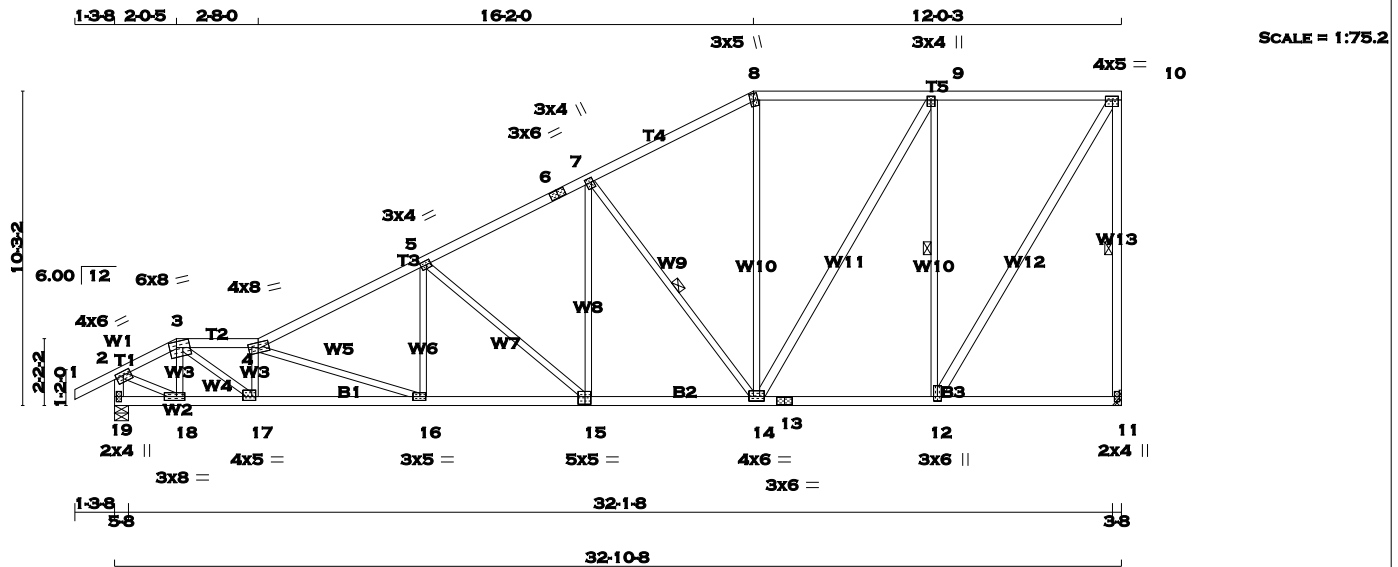
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LUMBER				N. L. G. A. RULES			
CHORDS		SIZE		LUMBER		DESCR.	
1 - 3	2x4	DRY	No.2	SPF			
3 - 4	2x4	DRY	No.2	SPF			
4 - 6	2x4	DRY	No.2	SPF			
6 - 8	2x4	DRY	No.2	SPF			
8 - 10	2x4	DRY	No.2	SPF			
11 - 10	2x4	DRY	No.2	SPF			
19 - 2	2x4	DRY	No.2	SPF			
19 - 15	2x4	DRY	No.2	SPF			
15 - 13	2x4	DRY	No.2	SPF			
13 - 11	2x4	DRY	No.2	SPF			
ALL WEBS				2x3	DRY	No.2	SPF
EXCEPT							
14 - 9	2x4	DRY	No.2	SPF			
12 - 10	2x4	DRY	No.2	SPF			

DRY: SEASONED LUMBER.

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	6.0	1.50	3.00
3	TTWW-m	MT20	6.0	8.0	2.25	2.75
4	TTWW-m	MT20	4.0	8.0	2.00	3.75
5	TMVW-t	MT20	3.0	4.0	1.50	1.75
6	TS-t	MT20	3.0	6.0		
7	TMVW-t	MT20	3.0	4.0	1.75	0.75
8	TTW+m	MT20	3.0	5.0	2.50	1.25
9	TMVW-t	MT20	3.0	4.0	1.50	1.50
10	TMVW-t	MT20	4.0	5.0	1.50	2.25
11	BMV1+p	MT20	2.0	4.0		
12	BMVW-t	MT20	3.0	6.0	1.75	1.50
13	BS-t	MT20	3.0	6.0		
14	BMVW-t	MT20	4.0	6.0	1.75	3.00
15	BSW-t	MT20	5.0	5.0	3.00	2.25
16	BMVW-t	MT20	3.0	5.0	1.50	2.25
17	BMVW-t	MT20	4.0	5.0	1.50	1.50
18	BMVW-t	MT20	3.0	8.0	1.50	3.25
19	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT		REQRD	
JT	VERT	JT	HORZ	DOWN	UPLIFT	BRG	BRG
11	1559	0	1559	0	0	IN-SX	IN-SX
				HANGER BY OTHERS			
19	1664	0	1664	0	0	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS		PERM.LIVE		DEAD		SOIL	
JT	COMBINED	JT	LIVE	JT	WIND	JT	DEAD	JT	SOIL
11	1094	765 / 0	0 / 0	0 / 0	0 / 0	329 / 0	0 / 0	0 / 0	0 / 0
19	1165	829 / 0	0 / 0	0 / 0	0 / 0	337 / 0	0 / 0	0 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 19

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.77 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 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 10-11. DBS = 8-0-0. CBF = 76 LBS.
- 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-14. DBS = 14-0-0. CBF = 88 LBS.
- 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 9-12. DBS = 12-0-0. CBF = 91 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. 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)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO		FR-TO			
1-2	0 / 23	-77.3 -77.3	0.10 (1)	10.00	18-3	-585 / 0	0.09 (1)
2-3	-1814 / 0	-77.3 -77.3	0.07 (1)	4.93	3-17	0 / 2063	0.46 (1)
3-4	-3252 / 0	-77.3 -77.3	0.18 (1)	3.77	17-4	-1188 / 0	0.18 (1)
4-5	-2713 / 0	-77.3 -77.3	0.39 (1)	3.91	4-16	-925 / 0	0.54 (1)
5-6	-2005 / 0	-77.3 -77.3	0.31 (1)	4.51	16-5	0 / 418	0.09 (1)
6-7	-2005 / 0	-77.3 -77.3	0.31 (1)	4.51	5-15	-852 / 0	0.81 (1)
7-8	-1348 / 0	-77.3 -77.3	0.29 (1)	5.29	15-7	0 / 641	0.14 (1)
8-9	-1191 / 0	-77.3 -77.3	0.38 (1)	5.39	7-14	-1003 / 0	0.58 (1)
9-10	-818 / 0	-77.3 -77.3	0.37 (1)	6.21	14-8	0 / 256	0.06 (1)
11-10	-1516 / 0	0.0 0.0	0.79 (1)	5.33	14-9	0 / 741	0.12 (1)
19-2	-1653 / 0	0.0 0.0	0.17 (1)	6.45	12-9	-1216 / 0	0.88 (1)
					12-10	0 / 1566	0.25 (1)
					2-18	0 / 1747	0.39 (1)
19-18	0 / 0	-17.5 -17.5	0.02 (1)	10.00			
18-17	0 / 1588	-17.5 -17.5	0.30 (1)	10.00			
17-16	0 / 3317	-17.5 -17.5	0.62 (1)	10.00			
16-15	0 / 2444	-17.5 -17.5	0.46 (1)	10.00			
15-14	0 / 1794	-17.5 -17.5	0.34 (1)	10.00			
14-13	0 / 818	-17.5 -17.5	0.22 (1)	10.00			
13-12	0 / 818	-17.5 -17.5	0.22 (1)	10.00			
12-11	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 ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.10")
CALCULATED VERT. DEFL.(LL) = L/999 (0.15")
ALLOWABLE DEFL.(TL)= L/360 (1.10")
CALCULATED VERT. DEFL.(TL) = L/999 (0.28")

CSI: TC=0.79 (10-11:1), BC=0.62 (16-17:1), WB=0.88 (9-12:1), SSI=0.23 (9-10:1)

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.

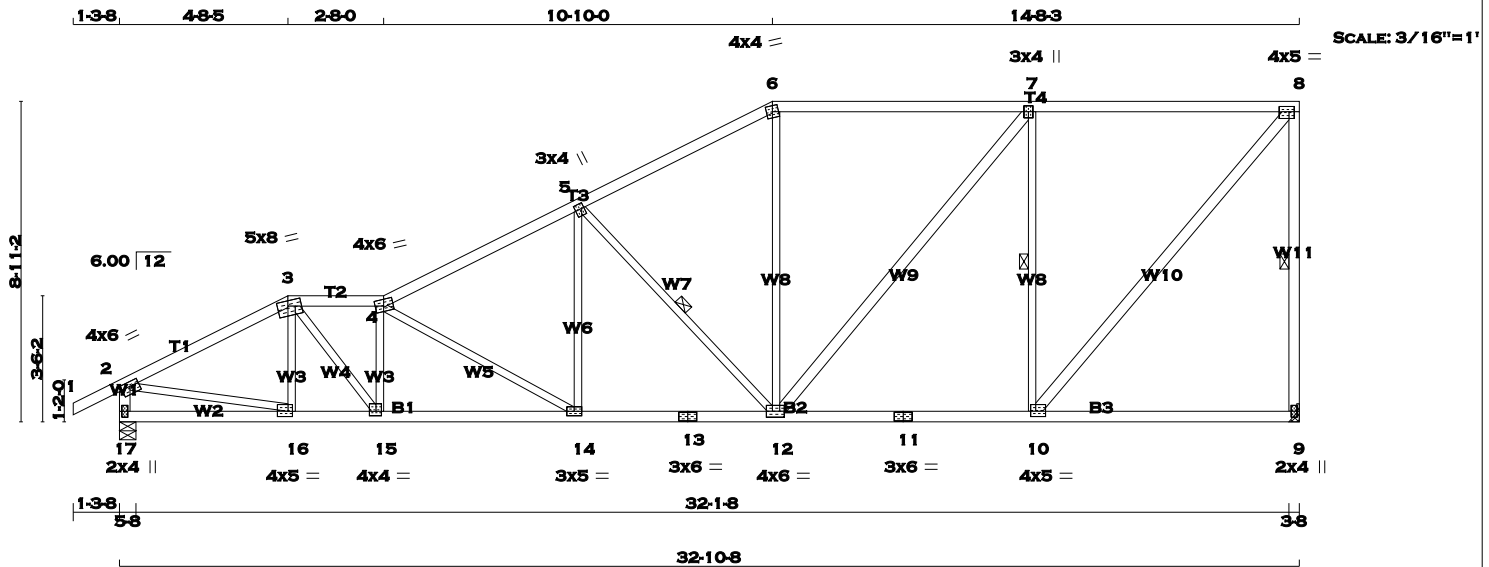
JSI GRIP= 0.90 (15) (INPUT = 0.90)
JSI METAL= 0.52 (17) (INPUT = 1.00)



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TOTAL WEIGHT = 155 lb
[M]

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
6 - 8	2x4	DRY	No.2	SPF
9 - 8	2x4	DRY	No.2	SPF
17 - 2	2x4	DRY	No.2	SPF
17 - 13	2x4	DRY	No.2	SPF
13 - 11	2x4	DRY	No.2	SPF
11 - 9	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
12 - 7	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	6.0	1.50	3.00
3	TTWW-m	MT20	5.0	8.0	1.75	3.50
4	TTWW-m	MT20	4.0	6.0	2.25	2.75
5	TMWWW+t	MT20	3.0	4.0	1.75	0.75
6	TTW-m	MT20	4.0	4.0		
7	TMWWW+t	MT20	3.0	4.0		
8	TMVW-t	MT20	4.0	5.0	1.75	1.75
9	BMV1+p	MT20	2.0	4.0		
10	BMWWW-t	MT20	4.0	5.0	1.75	1.75
11	BS-t	MT20	3.0	6.0		
12	BMWWW-t	MT20	4.0	6.0	2.00	2.00
13	BS-t	MT20	3.0	6.0		
14	BMWWW-t	MT20	3.0	5.0		
15	BMWWW-t	MT20	4.0	4.0	1.50	1.75
16	BMWWW-t	MT20	4.0	5.0	1.75	1.50
17	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITTEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT		REQRD	
JT	VERT	JT	HORZ	DOWN	HORZ	BRG	BRG
9	1559	0	1559	0	0	IN-SX	IN-SX
17	1664	0	1664	0	0	HANGER BY OTHERS	MIN. SEAT SIZE: 3-8

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
9	1094	765 / 0	0 / 0	0 / 0	0 / 0	329 / 0	0 / 0
17	1165	829 / 0	0 / 0	0 / 0	0 / 0	337 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.96 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 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 8-9. DBS = 8-0-0. CBF = 75 LBS.
- 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-12. DBS = 14-0-0. CBF = 83 LBS.
- 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-10. DBS = 12-0-0. CBF = 86 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. 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, 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 / 23	-77.3 -77.3	0.10 (1)	10.00	16-3	-275 / 0	0.06 (1)
2-3	-2203 / 0	-77.3 -77.3	0.40 (1)	4.21	3-15	0 / 1252	0.28 (1)
3-4	-2741 / 0	-77.3 -77.3	0.18 (1)	4.05	15-4	-926 / 0	0.19 (1)
4-5	-2338 / 0	-77.3 -77.3	0.54 (1)	3.96	4-14	-765 / 0	0.56 (1)
5-6	-1661 / 0	-77.3 -77.3	0.47 (1)	4.61	14-5	0 / 492	0.11 (1)
6-7	-1469 / 0	-77.3 -77.3	0.87 (1)	4.05	5-12	-949 / 0	0.42 (1)
7-8	-1110 / 0	-77.3 -77.3	0.82 (1)	4.60	12-6	0 / 365	0.08 (1)
9-8	-1507 / 0	0.0 0.0	0.55 (1)	5.35	12-7	0 / 564	0.09 (1)
17-2	-1627 / 0	0.0 0.0	0.16 (1)	6.48	10-7	-1140 / 0	0.59 (1)
					10-8	0 / 1700	0.27 (1)
					2-16	0 / 2000	0.45 (1)
17-16	0 / 0	-17.5 -17.5	0.09 (4)	10.00			
16-15	0 / 1960	-17.5 -17.5	0.34 (1)	10.00			
15-14	0 / 2771	-17.5 -17.5	0.51 (1)	10.00			
14-13	0 / 2113	-17.5 -17.5	0.41 (1)	10.00			
13-12	0 / 2113	-17.5 -17.5	0.41 (1)	10.00			
12-11	0 / 1110	-17.5 -17.5	0.32 (4)	10.00			
11-10	0 / 1110	-17.5 -17.5	0.32 (4)	10.00			
10-9	0 / 0	-17.5 -17.5	0.24 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.10")
CALCULATED VERT. DEFL.(LL) = L/999 (0.14")
ALLOWABLE DEFL.(TL)= L/360 (1.10")
CALCULATED VERT. DEFL.(TL) = L/999 (0.25")

CSI: TC=0.87 (6-7:1), BC=0.51 (14-15:1), WB=0.59 (7-10:1), SSI=0.28 (7-8:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

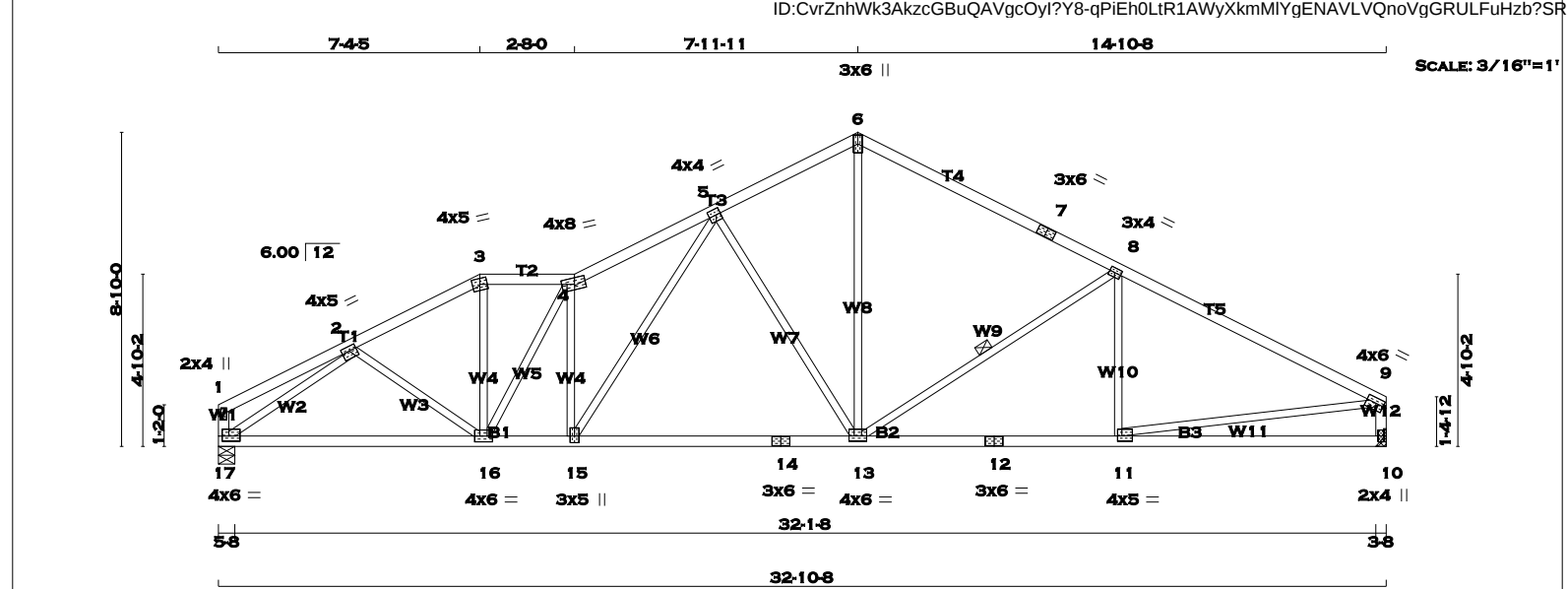
JSI GRIP= 0.90 (8) (INPUT = 0.90)
JSI METAL= 0.59 (16) (INPUT = 1.00)



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17-5187
BUILDING DIVISION

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE 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 - 4

2x4

DRY

No.2

SPF

4 - 6

2x4

DRY

No.2

SPF

6 - 7

2x4

DRY

No.2

SPF

7 - 9

2x4

DRY

No.2

SPF

17 - 1

2x4

DRY

No.2

SPF

10 - 9

2x4

DRY

No.2

SPF

17 - 14

2x4

DRY

No.2

SPF

14 - 12

2x4

DRY

No.2

SPF

12 - 10

2x4

DRY

No.2

SPF

ALL WEBS

2x3

DRY

No.2

SPF

EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMV+p	MT20	2.0	4.0		
2	TMVW-t	MT20	4.0	5.0	1.50	2.50
3	TTW-m	MT20	4.0	5.0		
4	TTWW-m	MT20	4.0	8.0	2.25	3.75
5	TMVW-t	MT20	4.0	4.0	2.00	1.50
6	TTW+p	MT20	3.0	6.0		
7	TS-t	MT20	3.0	6.0		
8	TMVW-t	MT20	3.0	4.0	1.50	1.75
9	TMVW-t	MT20	4.0	6.0	1.75	2.75
10	BMV1+p	MT20	2.0	4.0		
11	BMVW-t	MT20	4.0	5.0	1.75	1.50
12	BS-t	MT20	3.0	6.0		
13	BMVW-t	MT20	4.0	6.0	1.75	3.00
14	BS-t	MT20	3.0	6.0		
15	BMVW-t	MT20	3.0	5.0	2.25	1.50
16	BMVW-t	MT20	4.0	6.0		
17	BMVW-t	MT20	4.0	6.0	1.75	2.25

A SIZE FOR SIZE SUBSTITUTION OF MITEK MI20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
17	1559	0	1559	0
10	1559	0	1559	0

HANGER BY OTHERS

MIN. SEAT SIZE: 3-8

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
17	1094	765 / 0	0 / 0	0 / 0	0 / 0	329 / 0	0 / 0
10	1094	765 / 0	0 / 0	0 / 0	0 / 0	329 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.81 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 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 8-13. DBS = 20-0-0 . CBF = 73 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. 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)

FACTORED VERT. LOAD (PLF)

LC1 MAX CSI (LC)

WEBS

MEMB.

MAX. FACTORED FORCE (LBS)

MAX CSI (LC)

FR-TO	FROM	TO		FR-TO		
1-2	-77.3	-77.3	0.13 (1)	10.00	2-16	0 / 100
2-3	-2221 / 0	-77.3	-77.3	0.17 (1)	4.46	16-3
3-4	-1992 / 0	-77.3	-77.3	0.11 (1)	4.71	16-4
4-5	-2683 / 0	-77.3	-77.3	0.24 (1)	4.05	15-4
5-6	-1694 / 0	-77.3	-77.3	0.19 (1)	4.94	15-5
6-7	-1710 / 0	-77.3	-77.3	0.65 (1)	4.31	5-13
7-8	-1710 / 0	-77.3	-77.3	0.65 (1)	4.31	13-6
8-9	-2191 / 0	-77.3	-77.3	0.74 (1)	3.81	13-8
17-1	-117 / 0	0.0	0.0	0.01 (1)	7.81	11-8
10-9	-1503 / 0	0.0	0.0	0.15 (1)	6.70	17-2
						11-9
17-16	0 / 1893	-17.5	-17.5	0.43 (1)	10.00	
16-15	0 / 2400	-17.5	-17.5	0.48 (1)	10.00	
15-14	0 / 1931	-17.5	-17.5	0.44 (1)	10.00	
14-13	0 / 1931	-17.5	-17.5	0.44 (1)	10.00	
13-12	0 / 1987	-17.5	-17.5	0.45 (1)	10.00	
12-11	0 / 1987	-17.5	-17.5	0.45 (1)	10.00	
11-10	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

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014

- CSA 086-09

- TPIC 2011

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

ALLOWABLE DEFL.(LL)= L/360 (1.10")

CALCULATED VERT. DEFL.(LL)= L/ 999 (0.14")

ALLOWABLE DEFL.(TL)= L/360 (1.10")

CALCULATED VERT. DEFL.(TL)= L/ 999 (0.31")

CSI: TC=0.74 (8-9:1) , BC=0.48 (15-16:1) , WB=0.98 (5-13:1) , SSI=0.25 (8-9:1)

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= 0.90 (9) (INPUT = 0.90)

JSI METAL= 0.71 (2) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER

P. J. TREVISAN

100136551

March 14th, 2017

PROVINCE OF ONTARIO

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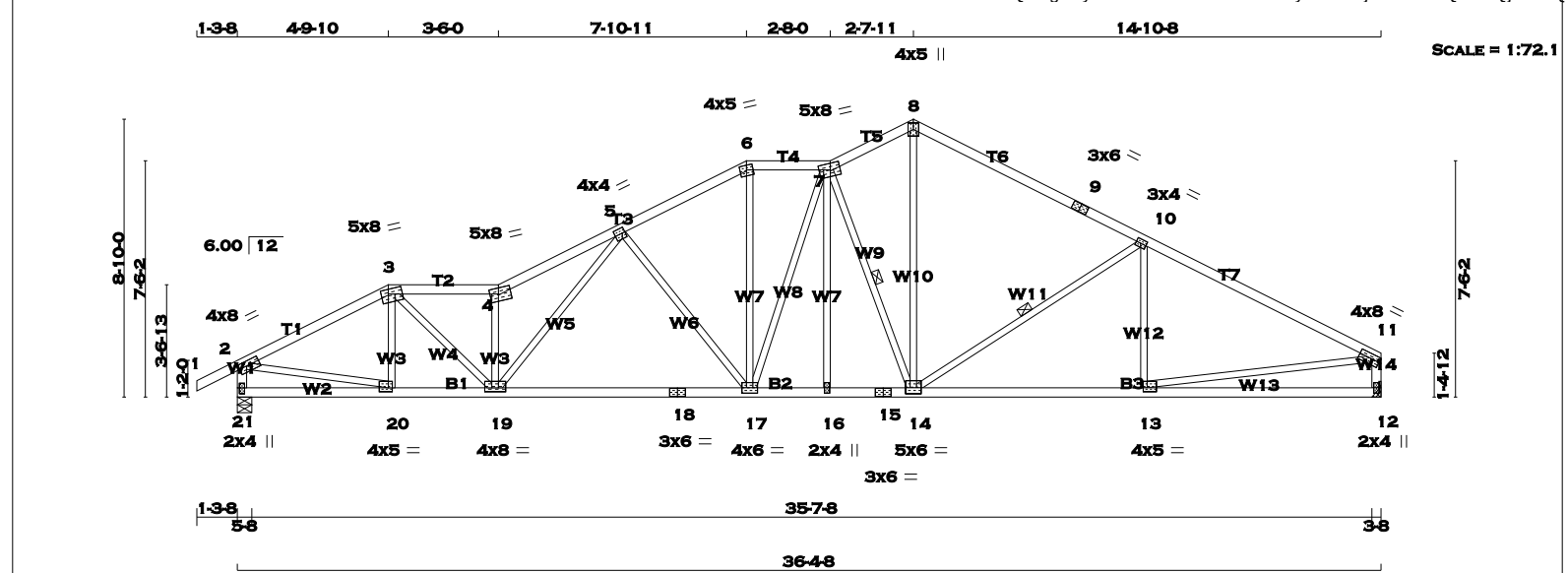
MAR 29, 2017

17-5187

BUILDING DIVISION

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KOTT



TOTAL WEIGHT = 160 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
6 - 7	2x4	DRY	No.2	SPF
7 - 8	2x4	DRY	No.2	SPF
8 - 9	2x4	DRY	No.2	SPF
9 - 11	2x4	DRY	No.2	SPF
21 - 2	2x4	DRY	No.2	SPF
12 - 11	2x4	DRY	No.2	SPF
21 - 18	2x4	DRY	No.2	SPF
18 - 15	2x4	DRY	No.2	SPF
15 - 12	2x4	DRY	No.2	SPF
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	8.0	1.75 3.00
3	TTWW-m	MT20	5.0	8.0	1.75 2.75
4	TTW-m	MT20	5.0	8.0	2.25 3.25
5	TMWW-t	MT20	4.0	4.0	2.00 1.00
6	TTW-m	MT20	4.0	5.0	1.75 2.50
7	TTWWW-m	MT20	5.0	8.0	2.50 3.75
8	TTW+p	MT20	4.0	5.0	
9	TS-t	MT20	3.0	6.0	
10	TMWW-t	MT20	3.0	4.0	1.50 1.75
11	TMVW-t	MT20	4.0	8.0	1.75 Edge
12	BMV1+p	MT20	2.0	4.0	
13	BMWW-t	MT20	4.0	5.0	1.50 1.50
14	BMWWW-t	MT20	5.0	6.0	2.25 3.00
15	BS-t	MT20	3.0	6.0	
16	BMW+w	MT20	2.0	4.0	
17	BMWWW-t	MT20	4.0	6.0	
18	BS-t	MT20	3.0	6.0	
19	BMWWW-t	MT20	4.0	8.0	1.50 4.00
20	BMWW-t	MT20	4.0	5.0	1.50 1.50
21	BMV1+p	MT20	2.0	4.0	2.25 1.00

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.



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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT	REQRD
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
21	1830	0	1830	0	0
12	1725	0	1725	0	0

UNFACTORED REACTIONS		1ST LCASE	MAX./MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
21	1282	910 / 0	0 / 0
12	1211	847 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 21

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.39 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-14. DBS = 12-0-0 . CBF = 83 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 10-14. DBS = 20-0-0 . CBF = 69 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. 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		FACTORED		WEBS	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)
FR-TO		FROM TO		FR-TO	
1-2	0 / 23	-77.3 -77.3	0.10 (1)	10.00	20-3 -315 / 0
2-3	-2481 / 0	-77.3 -77.3	0.32 (1)	4.11	3-19 0 / 1595
3-4	-3357 / 0	-77.3 -77.3	0.25 (1)	3.66	19-4 -1954 / 0
4-5	-3803 / 0	-77.3 -77.3	0.34 (1)	3.39	19-5 0 / 1188
5-6	-2425 / 0	-77.3 -77.3	0.23 (1)	4.24	5-17 -882 / 0
6-7	-2164 / 0	-77.3 -77.3	0.12 (1)	4.55	17-6 0 / 862
7-8	-1995 / 0	-77.3 -77.3	0.11 (1)	4.71	17-7 -1 / 37
8-9	-2029 / 0	-77.3 -77.3	0.69 (1)	3.98	16-7 -58 / 0
9-10	-2029 / 0	-77.3 -77.3	0.69 (1)	3.98	7-14 -1101 / 0
10-11	-2480 / 0	-77.3 -77.3	0.79 (1)	3.58	14-8 0 / 1465
21-2	-1791 / 0	0.0	0.0	6.24	14-10 -550 / 0
12-11	-1670 / 0	0.0	0.0	6.42	13-10 -180 / 73
					2-20 0 / 2251
					13-11 0 / 2269
21-20	0 / 0	-17.5 -17.5	0.10 (4)	10.00	
20-19	0 / 2207	-17.5 -17.5	0.39 (1)	10.00	
19-18	0 / 2692	-17.5 -17.5	0.57 (1)	10.00	
18-17	0 / 2692	-17.5 -17.5	0.57 (1)	10.00	
17-16	0 / 2165	-17.5 -17.5	0.49 (1)	10.00	
16-15	0 / 2166	-17.5 -17.5	0.44 (1)	10.00	
15-14	0 / 2166	-17.5 -17.5	0.44 (1)	10.00	
14-13	0 / 2246	-17.5 -17.5	0.47 (1)	10.00	
13-12	0 / 0	-17.5 -17.5	0.24 (4)	10.00	

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.21")
CALCULATED VERT. DEFL.(LL) = L/999 (0.21")
ALLOWABLE DEFL.(TL)= L/360 (1.21")
CALCULATED VERT. DEFL.(TL) = L/999 (0.43")

CSI: TC=0.79 (10-11:1), BC=0.57 (17-19:1), WB=0.71 (5-17:1), SSI=0.25 (10-11:1)

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

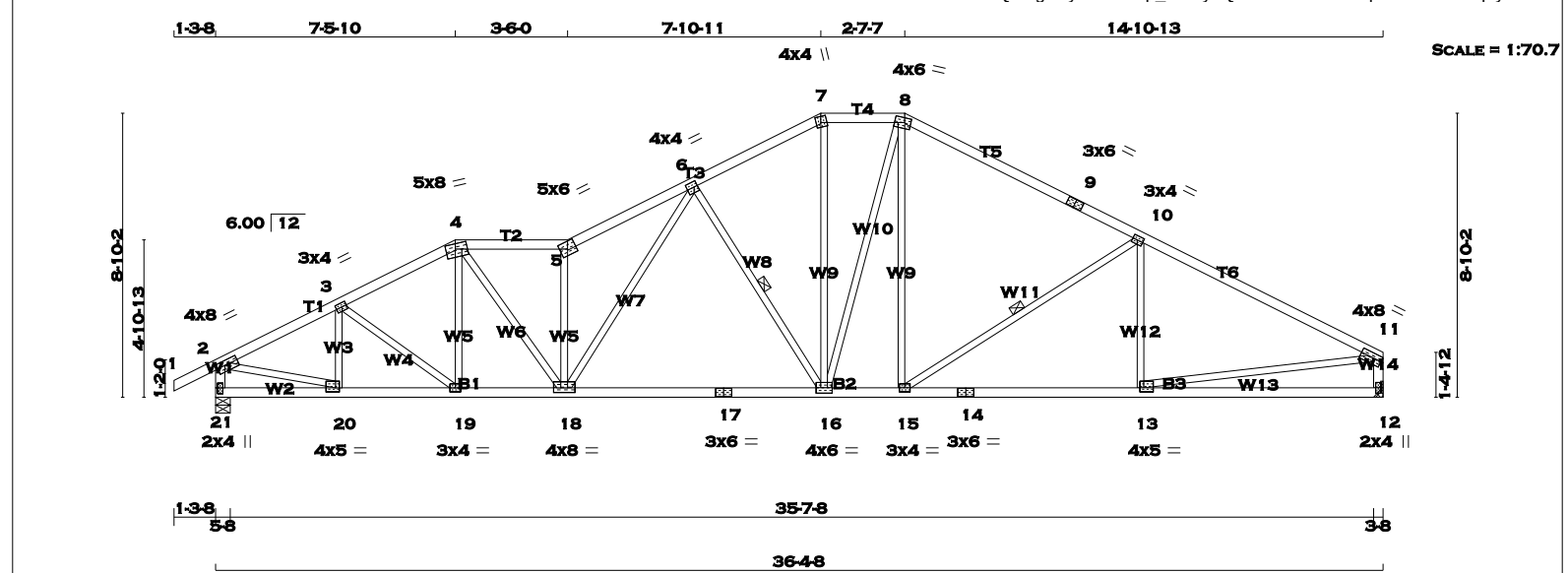
PLATE PLACEMENT TOL. = 0.250 inches

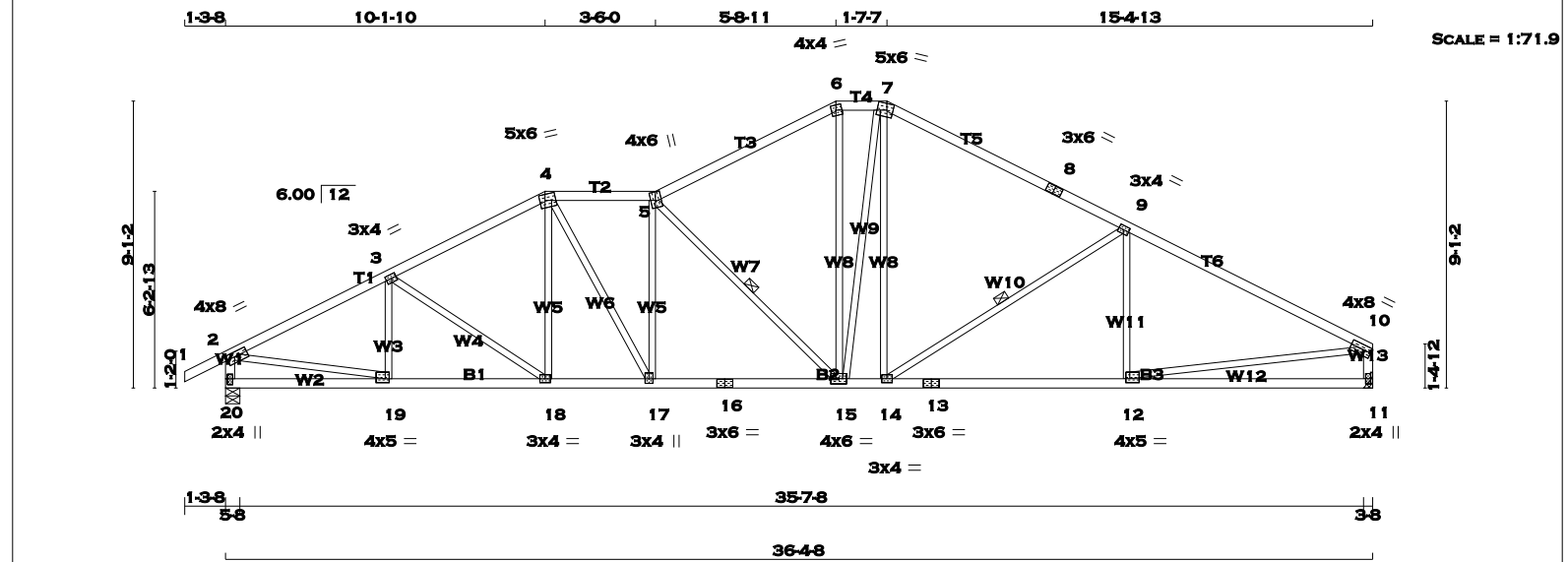
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (4) (INPUT = 0.90)
JSI METAL= 0.75 (18) (INPUT = 1.00)

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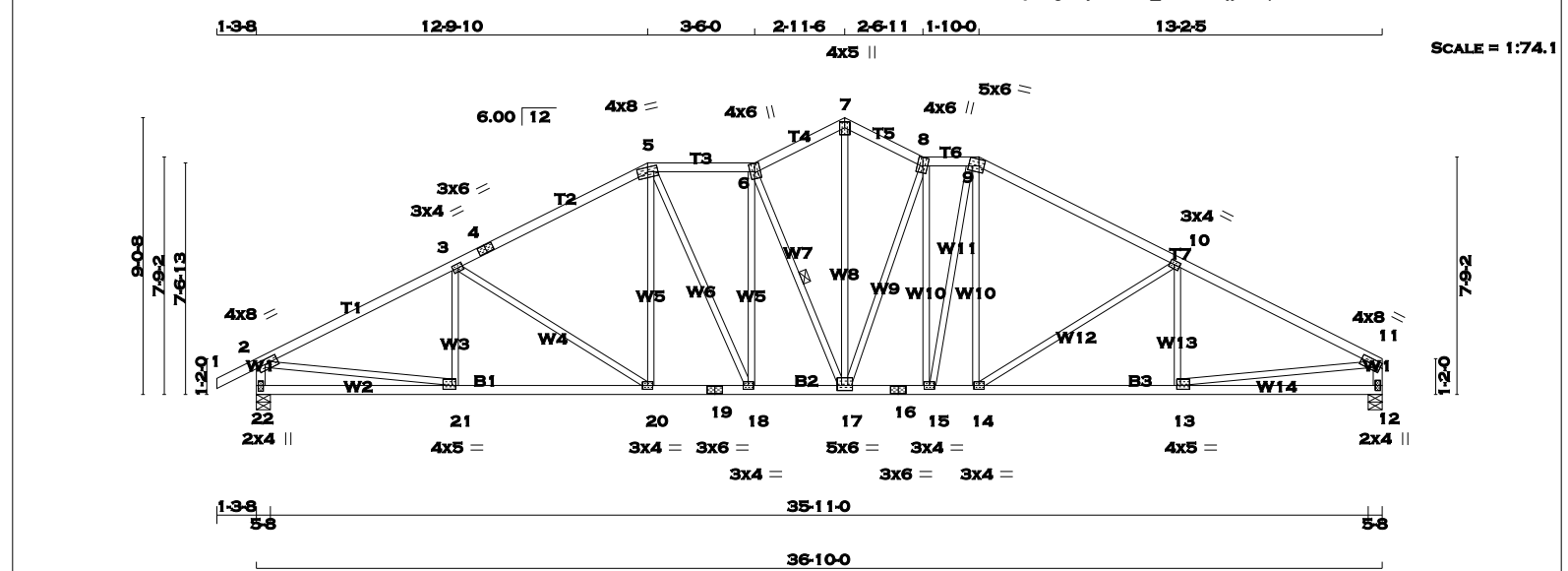
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. SPF 1 - 4 2x4 DRY No.2 4 - 5 2x4 DRY No.2 5 - 6 2x4 DRY No.2 6 - 7 2x4 DRY No.2 7 - 8 2x4 DRY No.2 8 - 10 2x4 DRY No.2 20 - 2 2x4 DRY No.2 11 - 10 2x4 DRY No.2 20 - 16 2x4 DRY No.2 16 - 13 2x4 DRY No.2 13 - 11 2x4 DRY No.2 ALL WEBS 2x3 DRY No.2 EXCEPT DRY: SEASONED LUMBER.					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED MAXIMUM FACTORED INPUT REQD GROSS REACTION GROSS REACTION BRG BRG JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX 20 1830 0 1830 0 0 5-8 5-8 11 1725 0 1725 0 0 HANGER BY OTHERS MIN. SEAT SIZE: 3-8 UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 20 1282 910 / 0 0 / 0 0 / 0 0 / 0 372 / 0 0 / 0 11 1211 847 / 0 0 / 0 0 / 0 0 / 0 364 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 20 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.47 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 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-15. DBS = 14-0-0 . CBF = 88 LBS. 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 9-14. DBS = 20-0-0 . CBF = 75 LBS. DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. 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) C H O R D S W E B S MAX. FACTORED MAX. FACTORED MAX. FACTORED MEMB. FORCE VERT. LOAD LC1 MAX. MAX. MEMB. FORCE MAX. (LBS) (PLF) CSI (LC) UNBRAC (LBS) CSI (LC) FR-TO FROM TO LENGTH FR-TO 1-2 0 / 23 -77.3 -77.3 0.10 (1) 10.00 19-3 -288 / 3 0.06 (1) 2-3 -2545 / 0 -77.3 -77.3 0.34 (1) 4.05 3-18 -201 / 0 0.13 (1) 3-4 -2400 / 0 -77.3 -77.3 0.32 (1) 4.16 18-4 0 / 190 0.04 (1) 4-5 -2471 / 0 -77.3 -77.3 0.19 (1) 4.24 4-17 0 / 685 0.15 (1) 5-6 -1982 / 0 -77.3 -77.3 0.40 (1) 4.41 17-5 -523 / 0 0.32 (1) 6-7 -1780 / 0 -77.3 -77.3 0.06 (1) 4.98 5-15 -1010 / 0 0.48 (1) 7-8 -1983 / 0 -77.3 -77.3 0.75 (1) 3.92 15-6 0 / 603 0.14 (1) 8-9 -1983 / 0 -77.3 -77.3 0.75 (1) 3.92 15-7 0 / 187 0.04 (1) 9-10 -2484 / 0 -77.3 -77.3 0.86 (1) 3.47 14-7 0 / 406 0.09 (1) 20-2 -1789 / 0 0.0 0.0 0.18 (1) 6.24 14-9 -604 / 0 0.36 (1) 11-10 -1669 / 0 0.0 0.0 0.17 (1) 6.42 12-9 -160 / 84 0.07 (1) 2-19 0 / 2325 0.52 (1) 12-10 0 / 2272 0.51 (1) 20-19 0 / 0 -17.5 -17.5 0.10 (4) 10.00 19-18 0 / 2293 -17.5 -17.5 0.41 (1) 10.00 18-17 0 / 2131 -17.5 -17.5 0.38 (1) 10.00 17-16 0 / 2480 -17.5 -17.5 0.47 (1) 10.00 16-15 0 / 2480 -17.5 -17.5 0.47 (1) 10.00 15-14 0 / 1748 -17.5 -17.5 0.36 (1) 10.00 14-13 0 / 2250 -17.5 -17.5 0.49 (1) 10.00 13-12 0 / 2250 -17.5 -17.5 0.49 (1) 10.00 12-11 0 / 0 -17.5 -17.5 0.26 (4) 10.00					DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.0 PSF TOTAL LOAD = 33.3 PSF SPACING = 24.0 IN. C/C LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12 THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (1.21") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.15") ALLOWABLE DEFL.(TL)= L/360 (1.21") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.29") CSI: TC=0.86 (9-10:1) , BC=0.49 (12-14:1) , WB=0.52 (2-19:1) , SSI=0.26 (9-10:1) 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 (5) (INPUT = 0.90) JSI METAL= 0.71 (16) (INPUT = 1.00)				
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TOTAL WEIGHT = 175 lb
[M][F]

LUMBER		N. L. G. A. RULES		LUMBER	DESCR.
CHORDS	SIZE				
1 - 4	2x4	DRY	No.2	SPF	SPF
4 - 5	2x4	DRY	No.2		
5 - 6	2x4	DRY	No.2		
6 - 7	2x4	DRY	No.2		
7 - 8	2x4	DRY	No.2		
8 - 9	2x4	DRY	No.2		
9 - 11	2x4	DRY	No.2		
22 - 2	2x4	DRY	No.2		
12 - 11	2x4	DRY	No.2		
22 - 19	2x4	DRY	No.2		
19 - 16	2x4	DRY	No.2		
16 - 12	2x4	DRY	No.2		
ALL WEBS	2x3	DRY	No.2		
EXCEPT					

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMVW-t	MT20	4.0	8.0	1.75 3.00
3	TMWW-t	MT20	3.0	4.0	1.50 1.75
4	TS-t	MT20	3.0	6.0	
5	TTWW-m	MT20	4.0	8.0	1.75 4.00
6	TTWW+m	MT20	4.0	6.0	3.25 1.75
7	TTW+p	MT20	4.0	5.0	2.25 2.00
8	TTWW+m	MT20	4.0	6.0	3.25 1.75
9	TTWW-m	MT20	5.0	6.0	2.50 2.00
10	TMWW-t	MT20	3.0	4.0	1.50 1.75
11	TMVW-t	MT20	4.0	8.0	1.75 Edge
12	BMV1+p	MT20	2.0	4.0	
13	BMWW-t	MT20	4.0	5.0	1.50 1.50
14, 15, 18, 20					
14	BMWW-t	MT20	3.0	4.0	
16	BS-t	MT20	3.0	6.0	
17	BMWWW-t	MT20	5.0	6.0	2.00 3.00
19	BS-t	MT20	3.0	6.0	
21	BMWW-t	MT20	4.0	5.0	1.50 1.50
22	BMV1+p	MT20	2.0	4.0	2.25 1.00

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.



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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	GROSS REACTION	DOWN	HORZ	DOWN	HORZ	UPLIFT	IN-SX	BRG	IN-SX
22	1852	0	1852	0	0	5-8	5-8	5-8	5-8
12	1747	0	1747	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
22	1297	921 / 0	0 / 0	0 / 0	376 / 0
12	1226	858 / 0	0 / 0	0 / 0	368 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 22, 12

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.70 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 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 6-17. DBS = 16-0-0 . CBF = 91 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. 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			
MAX. FACTORED		FACTORED		MAX. FACTORED		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM	TO		FR-TO		
1-2	0 / 23	-77.3	-77.3 0.10 (1)	10.00	21-3	-191 / 53	0.06 (1)
2-3	-2636 / 0	-77.3	-77.3 0.58 (1)	3.75	3-20	-441 / 0	0.51 (1)
3-4	-2275 / 0	-77.3	-77.3 0.51 (1)	4.05	20-5	0 / 339	0.08 (1)
4-5	-2275 / 0	-77.3	-77.3 0.51 (1)	4.05	5-18	0 / 386	0.09 (1)
5-6	-2178 / 0	-77.3	-77.3 0.17 (1)	4.48	18-6	-322 / 0	0.34 (1)
6-7	-2056 / 0	-77.3	-77.3 0.13 (1)	4.63	6-17	-909 / 0	0.38 (1)
7-8	-2055 / 0	-77.3	-77.3 0.11 (1)	4.65	17-7	0 / 1616	0.36 (1)
8-9	-2065 / 0	-77.3	-77.3 0.08 (1)	4.68	17-8	-737 / 0	0.95 (1)
9-10	-2247 / 0	-77.3	-77.3 0.54 (1)	4.03	15-8	-387 / 0	0.43 (1)
10-11	-2639 / 0	-77.3	-77.3 0.62 (1)	3.70	15-9	0 / 371	0.08 (1)
22-2	-1803 / 0	0.0	0.0 0.18 (1)	6.23	14-9	0 / 370	0.08 (1)
12-11	-1697 / 0	0.0	0.0 0.17 (1)	6.38	14-10	-474 / 0	0.60 (1)
					13-10	-179 / 60	0.05 (1)
22-21	0 / 0	-17.5	-17.5 0.17 (4)	10.00	2-21	0 / 2401	0.54 (1)
21-20	0 / 2380	-17.5	-17.5 0.46 (1)	10.00	13-11	0 / 2403	0.54 (1)
20-19	0 / 2015	-17.5	-17.5 0.39 (1)	10.00			
19-18	0 / 2015	-17.5	-17.5 0.39 (1)	10.00			
18-17	0 / 2182	-17.5	-17.5 0.38 (1)	10.00			
17-16	0 / 2080	-17.5	-17.5 0.36 (1)	10.00			
16-15	0 / 2080	-17.5	-17.5 0.36 (1)	10.00			
15-14	0 / 1990	-17.5	-17.5 0.39 (1)	10.00			
14-13	0 / 2384	-17.5	-17.5 0.46 (1)	10.00			
13-12	0 / 0	-17.5	-17.5 0.19 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C/C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.23")
CALCULATED VERT. DEFL.(LL) = L/999 (0.17")
ALLOWABLE DEFL.(TL)= L/360 (1.23")
CALCULATED VERT. DEFL.(TL) = L/999 (0.30")

CSI: TC=0.62 (10-11:1), BC=0.46 (13-14:1), WB=0.95 (8-17:1), SSI=0.22 (10-11:1)

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

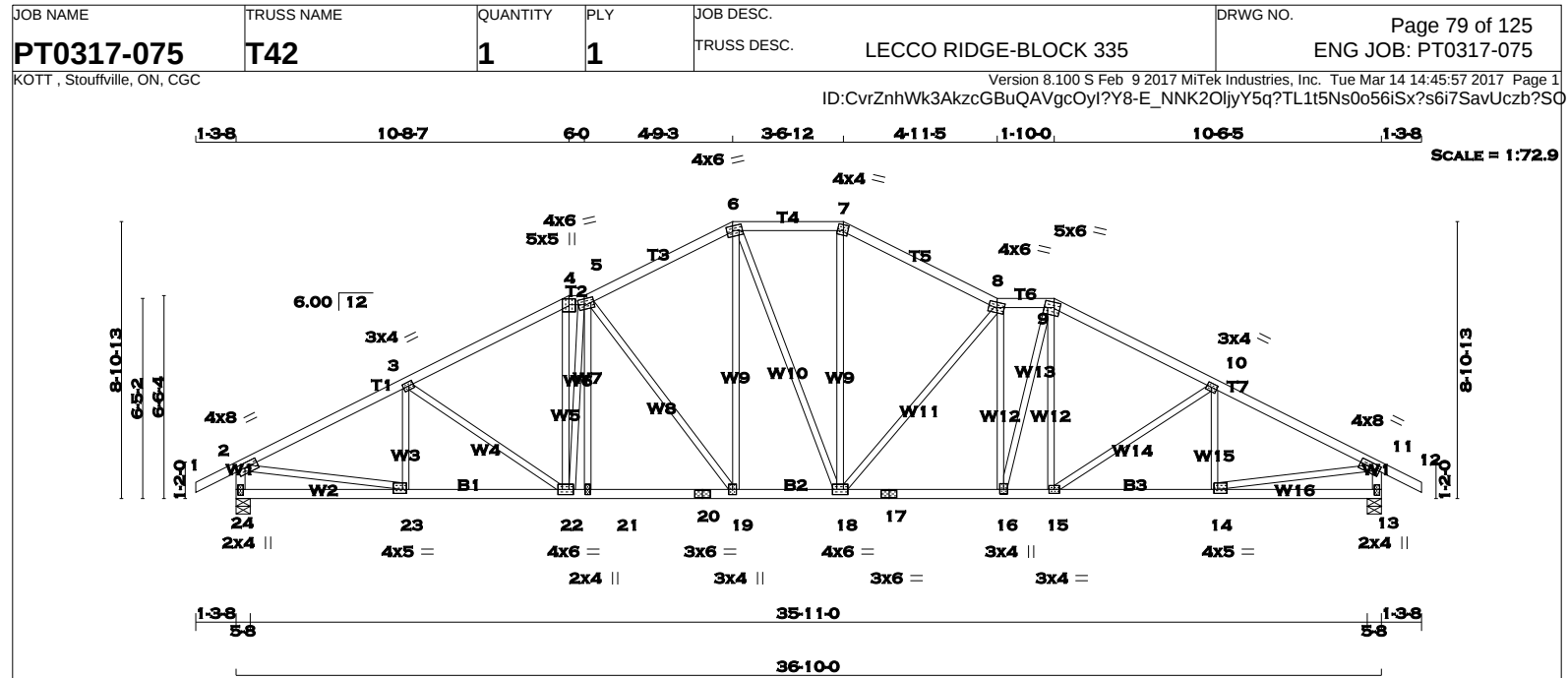
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (5) (INPUT = 0.90)

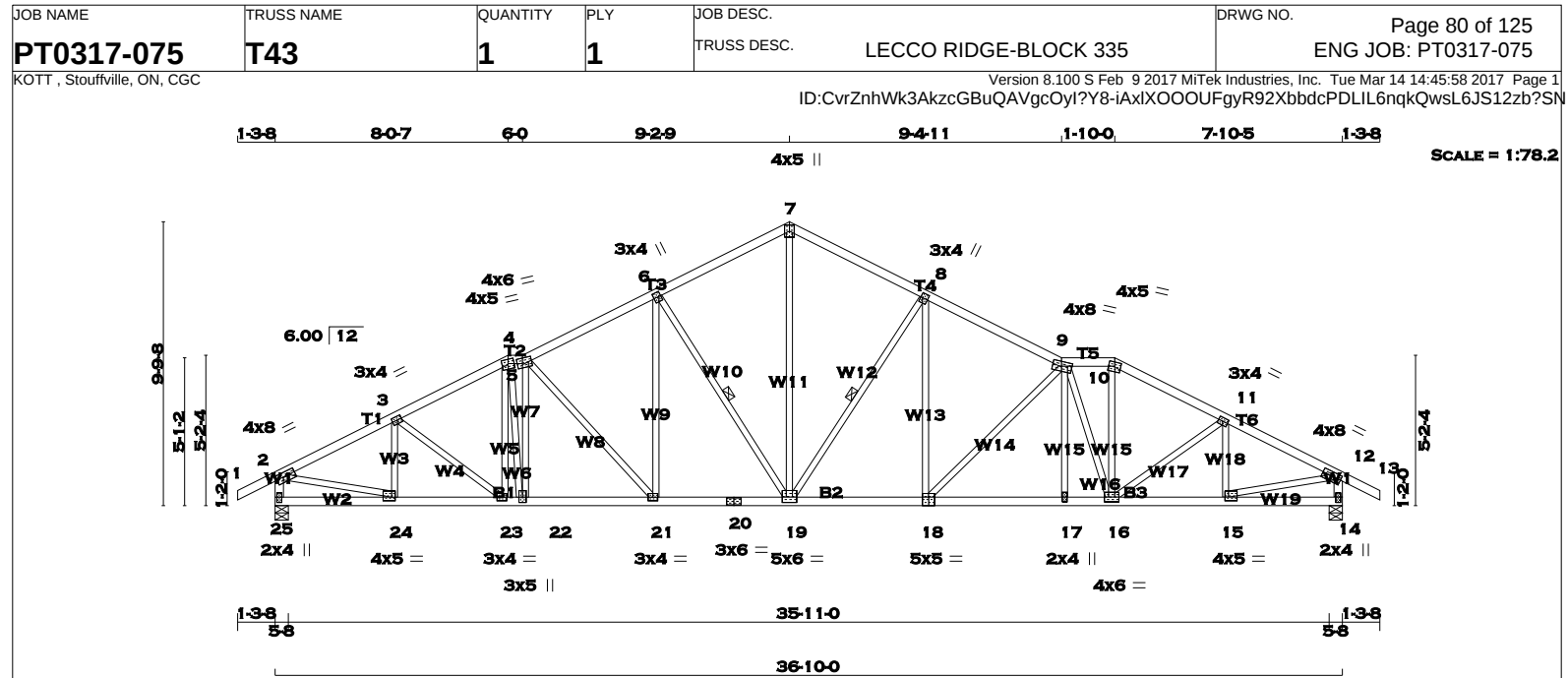
JSI METAL= 0.71 (13) (INPUT = 1.00)

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LUMBER N. L. G. A. RULES CHORDS SIZE					LUMBER					DESCR.					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED GROSS REACTION JT VERT HORZ 24 1852 0 13 1852 0 MAXIMUM FACTORED GROSS REACTION DOWN HORZ UPLIFT IN-SX 1852 0 0 1852 0 0 INPUT BRG IN-SX 5-8 5-8 5-8 UNFACTORED REACTIONS 1ST LCASE MAX/MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 24 1297 921 / 0 0 / 0 0 / 0 376 / 0 0 / 0 13 1297 921 / 0 0 / 0 0 / 0 376 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 24, 13 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.97 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) <table><tr><th colspan="2">CHORDS</th><th colspan="2">WEBS</th></tr><tr><th>MEMB.</th><th>FORCE (LBS)</th><th>FACTORED VERT. LOAD (PLF)</th><th>FACTORED MAX. UNBRACED LENGTH (LC1)</th></tr><tr><td>FR-TO</td><td></td><td>FROM</td><td>TO</td></tr><tr><td>1-2</td><td>0 / 23</td><td>-77.3</td><td>-77.3 0.10 (1)</td></tr><tr><td>2-3</td><td>-2595 / 0</td><td>-77.3</td><td>-77.3 0.39 (1)</td></tr><tr><td>3-4</td><td>-2421 / 0</td><td>-77.3</td><td>-77.3 0.36 (1)</td></tr><tr><td>4-5</td><td>-2130 / 0</td><td>-77.3</td><td>-77.3 0.05 (1)</td></tr><tr><td>5-6</td><td>-2051 / 0</td><td>-77.3</td><td>-77.3 0.29 (1)</td></tr><tr><td>6-7</td><td>-1867 / 0</td><td>-77.3</td><td>-77.3 0.16 (1)</td></tr><tr><td>7-8</td><td>-2079 / 0</td><td>-77.3</td><td>-77.3 0.31 (1)</td></tr><tr><td>8-9</td><td>-2331 / 0</td><td>-77.3</td><td>-77.3 0.09 (1)</td></tr><tr><td>9-10</td><td>-2421 / 0</td><td>-77.3</td><td>-77.3 0.35 (1)</td></tr><tr><td>10-11</td><td>-2593 / 0</td><td>-77.3</td><td>-77.3 0.38 (1)</td></tr><tr><td>11-12</td><td>0 / 23</td><td>-77.3</td><td>-77.3 0.10 (1)</td></tr><tr><td>24-2</td><td>-1808 / 0</td><td>0.0</td><td>0.0 0.18 (1)</td></tr><tr><td>13-11</td><td>-1809 / 0</td><td>0.0</td><td>0.0 0.18 (1)</td></tr><tr><td>24-23</td><td>0 / 0</td><td>-17.5</td><td>-17.5 0.11 (4)</td></tr><tr><td>23-22</td><td>0 / 2339</td><td>-17.5</td><td>-17.5 0.45 (1)</td></tr><tr><td>22-21</td><td>0 / 2189</td><td>-17.5</td><td>-17.5 0.43 (1)</td></tr><tr><td>21-20</td><td>0 / 2188</td><td>-17.5</td><td>-17.5 0.41 (1)</td></tr><tr><td>20-19</td><td>0 / 2188</td><td>-17.5</td><td>-17.5 0.41 (1)</td></tr><tr><td>19-18</td><td>0 / 1841</td><td>-17.5</td><td>-17.5 0.34 (1)</td></tr><tr><td>18-17</td><td>0 / 2341</td><td>-17.5</td><td>-17.5 0.43 (1)</td></tr><tr><td>17-16</td><td>0 / 2341</td><td>-17.5</td><td>-17.5 0.43 (1)</td></tr><tr><td>16-15</td><td>0 / 2149</td><td>-17.5</td><td>-17.5 0.39 (1)</td></tr><tr><td>15-14</td><td>0 / 2337</td><td>-17.5</td><td>-17.5 0.42 (1)</td></tr><tr><td>14-13</td><td>0 / 0</td><td>-17.5</td><td>-17.5 0.11 (4)</td></tr></table>										CHORDS		WEBS		MEMB.	FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED MAX. UNBRACED LENGTH (LC1)	FR-TO		FROM	TO	1-2	0 / 23	-77.3	-77.3 0.10 (1)	2-3	-2595 / 0	-77.3	-77.3 0.39 (1)	3-4	-2421 / 0	-77.3	-77.3 0.36 (1)	4-5	-2130 / 0	-77.3	-77.3 0.05 (1)	5-6	-2051 / 0	-77.3	-77.3 0.29 (1)	6-7	-1867 / 0	-77.3	-77.3 0.16 (1)	7-8	-2079 / 0	-77.3	-77.3 0.31 (1)	8-9	-2331 / 0	-77.3	-77.3 0.09 (1)	9-10	-2421 / 0	-77.3	-77.3 0.35 (1)	10-11	-2593 / 0	-77.3	-77.3 0.38 (1)	11-12	0 / 23	-77.3	-77.3 0.10 (1)	24-2	-1808 / 0	0.0	0.0 0.18 (1)	13-11	-1809 / 0	0.0	0.0 0.18 (1)	24-23	0 / 0	-17.5	-17.5 0.11 (4)	23-22	0 / 2339	-17.5	-17.5 0.45 (1)	22-21	0 / 2189	-17.5	-17.5 0.43 (1)	21-20	0 / 2188	-17.5	-17.5 0.41 (1)	20-19	0 / 2188	-17.5	-17.5 0.41 (1)	19-18	0 / 1841	-17.5	-17.5 0.34 (1)	18-17	0 / 2341	-17.5	-17.5 0.43 (1)	17-16	0 / 2341	-17.5	-17.5 0.43 (1)	16-15	0 / 2149	-17.5	-17.5 0.39 (1)	15-14	0 / 2337	-17.5	-17.5 0.42 (1)	14-13	0 / 0	-17.5	-17.5 0.11 (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 ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12 THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012, BCBC 2012, ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (1.23") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.15") ALLOWABLE DEFL.(TL)= L/360 (1.23") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.28") CSI: TC=0.39 (2-3:1), BC=0.45 (22-23:1), WB=1.00 (8-18:1), SSI=0.18 (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= 0.90 (9) (INPUT = 0.90) JSI METAL= 0.70 (23) (INPUT = 1.00)				
CHORDS		WEBS																																																																																																																																							
MEMB.	FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED MAX. UNBRACED LENGTH (LC1)																																																																																																																																						
FR-TO		FROM	TO																																																																																																																																						
1-2	0 / 23	-77.3	-77.3 0.10 (1)																																																																																																																																						
2-3	-2595 / 0	-77.3	-77.3 0.39 (1)																																																																																																																																						
3-4	-2421 / 0	-77.3	-77.3 0.36 (1)																																																																																																																																						
4-5	-2130 / 0	-77.3	-77.3 0.05 (1)																																																																																																																																						
5-6	-2051 / 0	-77.3	-77.3 0.29 (1)																																																																																																																																						
6-7	-1867 / 0	-77.3	-77.3 0.16 (1)																																																																																																																																						
7-8	-2079 / 0	-77.3	-77.3 0.31 (1)																																																																																																																																						
8-9	-2331 / 0	-77.3	-77.3 0.09 (1)																																																																																																																																						
9-10	-2421 / 0	-77.3	-77.3 0.35 (1)																																																																																																																																						
10-11	-2593 / 0	-77.3	-77.3 0.38 (1)																																																																																																																																						
11-12	0 / 23	-77.3	-77.3 0.10 (1)																																																																																																																																						
24-2	-1808 / 0	0.0	0.0 0.18 (1)																																																																																																																																						
13-11	-1809 / 0	0.0	0.0 0.18 (1)																																																																																																																																						
24-23	0 / 0	-17.5	-17.5 0.11 (4)																																																																																																																																						
23-22	0 / 2339	-17.5	-17.5 0.45 (1)																																																																																																																																						
22-21	0 / 2189	-17.5	-17.5 0.43 (1)																																																																																																																																						
21-20	0 / 2188	-17.5	-17.5 0.41 (1)																																																																																																																																						
20-19	0 / 2188	-17.5	-17.5 0.41 (1)																																																																																																																																						
19-18	0 / 1841	-17.5	-17.5 0.34 (1)																																																																																																																																						
18-17	0 / 2341	-17.5	-17.5 0.43 (1)																																																																																																																																						
17-16	0 / 2341	-17.5	-17.5 0.43 (1)																																																																																																																																						
16-15	0 / 2149	-17.5	-17.5 0.39 (1)																																																																																																																																						
15-14	0 / 2337	-17.5	-17.5 0.42 (1)																																																																																																																																						
14-13	0 / 0	-17.5	-17.5 0.11 (4)																																																																																																																																						
PLATES (table is in inches) JT TYPE PLATES W LEN Y X 2 TMVW-t MT20 4.0 8.0 1.75 3.00 3 TMWW-t MT20 3.0 4.0 1.50 1.75 4 TTW+p MT20 5.0 5.0 2.25 2.50 5 TTWWW-m MT20 4.0 6.0 2.25 2.25 6 TTWW-m MT20 4.0 6.0 1.75 2.25 7 TTW-m MT20 4.0 4.0 2.25 1.75 8 TTWW-m MT20 4.0 6.0 2.00 2.75 9 TTWW-m MT20 5.0 6.0 2.00 2.25 10 TMWW-t MT20 3.0 4.0 1.50 1.75 11 TMVW-t MT20 4.0 8.0 1.75 3.00 13 BMV1+p MT20 2.0 4.0 2.25 1.00 14 BMWW-t MT20 4.0 5.0 1.50 1.50 15 BMWW-t MT20 3.0 4.0 16 BMWW-t MT20 3.0 4.0 1.75 1.50 17 BS-t MT20 3.0 6.0 18 BMWW-t MT20 4.0 6.0 19 BMWW-t MT20 3.0 4.0 20 BS-t MT20 3.0 6.0 21 BMW+w MT20 2.0 4.0 22 BMWW-t MT20 4.0 6.0 23 BMWW-t MT20 4.0 5.0 1.50 1.50 24 BMV1+p MT20 2.0 4.0 2.25 1.00 A SIZE FOR SIZE SUBSTITUTION OF MITEK MI20 WITH TEE-LOK TL20 PLATES IS ALLOWED.										RECEIVED TOWN OF MILTON MAR 29, 2017 17-5187 BUILDING DIVISION READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.																																																																																																																															



TOTAL WEIGHT = 177 lb [M][F]

LUMBER		N. L. G. A. RULES		LUMBER	DESCR.
CHORDS	SIZE				
1 - 4	2x4	DRY	No.2	SPF	
4 - 5	2x4	DRY	No.2	SPF	
5 - 7	2x4	DRY	No.2	SPF	
7 - 9	2x4	DRY	No.2	SPF	
9 - 10	2x4	DRY	No.2	SPF	
10 - 13	2x4	DRY	No.2	SPF	
25 - 2	2x4	DRY	No.2	SPF	
14 - 12	2x4	DRY	No.2	SPF	
25 - 20	2x4	DRY	No.2	SPF	
20 - 18	2x4	DRY	No.2	SPF	
18 - 14	2x4	DRY	No.2	SPF	
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMVW-t	MT20	4.0	8.0	1.75 3.00
3	TMVW-t	MT20	3.0	4.0	1.50 1.75
4	TTWW-m	MT20	4.0	5.0	1.75 2.50
5	TTWW-m	MT20	4.0	6.0	2.00 1.25
6	TMVW-t	MT20	3.0	4.0	2.00 0.75
7	TTW+p	MT20	4.0	5.0	
8	TMVW-t	MT20	3.0	4.0	2.00 0.75
9	TTWW-m	MT20	4.0	8.0	2.00 3.75
10	TTW-m	MT20	4.0	5.0	1.75 2.50
11	TMVW-t	MT20	3.0	4.0	1.50 1.75
12	TMVW-t	MT20	4.0	8.0	1.75 3.00
14	BMV1+p	MT20	2.0	4.0	2.25 1.00
15	BMVW-t	MT20	4.0	5.0	1.50 1.50
16	BMVW-t	MT20	4.0	6.0	
17	BMVW-t	MT20	2.0	4.0	
18	BSW-I	MT20	5.0	5.0	Edge 2.50
19	BMVW-t	MT20	5.0	6.0	2.25 3.00
20	BS-t	MT20	3.0	6.0	
21	BMVW-t	MT20	3.0	4.0	
22	BMVW-t	MT20	3.0	5.0	2.25 1.50
23	BMVW-t	MT20	3.0	4.0	
24	BMVW-t	MT20	4.0	5.0	1.50 1.50
25	BMV1+p	MT20	2.0	4.0	2.25 1.00

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.



DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER					
BEARINGS					
FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	
JT	VERT	JT	HORZ	DOWN	UPLIFT
25	1852	0	1852	0	5-8
14	1852	0	1852	0	5-8

UNFACTORED REACTIONS					
1ST LCASE		MAX./MIN. COMPONENT REACTIONS			
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
25	1297	921 / 0	0 / 0	0 / 0	376 / 0
14	1297	921 / 0	0 / 0	0 / 0	376 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 25, 14

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.17 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 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 6-19. DBS = 20-0-0. CBF = 90 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 8-19. DBS = 16-0-0. CBF = 87 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. 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 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 / 23	-77.3 -77.3	0.10 (1)	10.00	24-3	-416 / 0	0.08 (1)
2-3	-2480 / 0	-77.3 -77.3	0.22 (1)	4.21	3-23	0 / 36	0.01 (1)
3-4	-2543 / 0	-77.3 -77.3	0.21 (1)	4.17	23-4	0 / 180	0.04 (1)
4-5	-2323 / 0	-77.3 -77.3	0.06 (1)	4.47	22-5	-926 / 0	0.38 (1)
5-6	-2313 / 0	-77.3 -77.3	0.27 (1)	4.28	5-21	-372 / 0	0.30 (1)
6-7	-1917 / 0	-77.3 -77.3	0.25 (1)	4.64	21-6	0 / 358	0.08 (1)
7-8	-1917 / 0	-77.3 -77.3	0.26 (1)	4.63	6-19	-720 / 0	0.36 (1)
8-9	-2415 / 0	-77.3 -77.3	0.29 (1)	4.19	19-7	0 / 1421	0.32 (1)
9-10	-2278 / 0	-77.3 -77.3	0.09 (1)	4.49	19-8	-873 / 0	0.43 (1)
10-11	-2540 / 0	-77.3 -77.3	0.20 (1)	4.18	18-8	0 / 518	0.12 (1)
11-12	-2471 / 0	-77.3 -77.3	0.21 (1)	4.22	18-9	-602 / 0	0.50 (1)
12-13	0 / 23	-77.3 -77.3	0.10 (1)	10.00	17-9	0 / 58	0.02 (4)
25-2	-1813 / 0	0.0	0.0 18 (1)	6.21	9-16	-949 / 0	0.40 (1)
14-12	-1816 / 0	0.0	0.0 18 (1)	6.21	16-10	0 / 946	0.21 (1)
					16-11	0 / 44	0.01 (1)
25-24	0 / 0	-17.5 -17.5	0.07 (4)	10.00	15-11	-412 / 0	0.08 (1)
24-23	0 / 2231	-17.5 -17.5	0.44 (1)	10.00	2-24	0 / 2279	0.51 (1)
23-22	0 / 2256	-17.5 -17.5	0.44 (1)	10.00	15-12	0 / 2272	0.51 (1)
22-21	0 / 2341	-17.5 -17.5	0.44 (1)	10.00	4-22	0 / 819	0.18 (1)
21-20	0 / 2086	-17.5 -17.5	0.39 (1)	10.00			
20-19	0 / 2086	-17.5 -17.5	0.39 (1)	10.00			
19-18	0 / 2178	-17.5 -17.5	0.40 (1)	10.00			
18-17	0 / 2599	-17.5 -17.5	0.47 (1)	10.00			
17-16	0 / 2600	-17.5 -17.5	0.46 (1)	10.00			
16-15	0 / 2222	-17.5 -17.5	0.40 (1)	10.00			
15-14	0 / 0	-17.5 -17.5	0.06 (4)	10.00			

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5187
BUILDING DIVISION

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE 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	=	3.0 PSF
BOT CH.	LL	=	0.0 PSF
	DL	=	7.0 PSF
TOTAL LOAD = 33.3 PSF			

SPACING = 24.0 IN. C/C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.23")
CALCULATED VERT. DEFL.(LL) = L/999 (0.17")
ALLOWABLE DEFL.(TL)= L/360 (1.23")
CALCULATED VERT. DEFL.(TL) = L/999 (0.30")

CSI: TC=0.29 (8-9:1), BC=0.47 (17-18:1), WB=0.51 (2-24:1), SSI=0.16 (8-9:1)

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)
				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 (8) (INPUT = 0.90)
JSI METAL= 0.67 (24) (INPUT = 1.00)



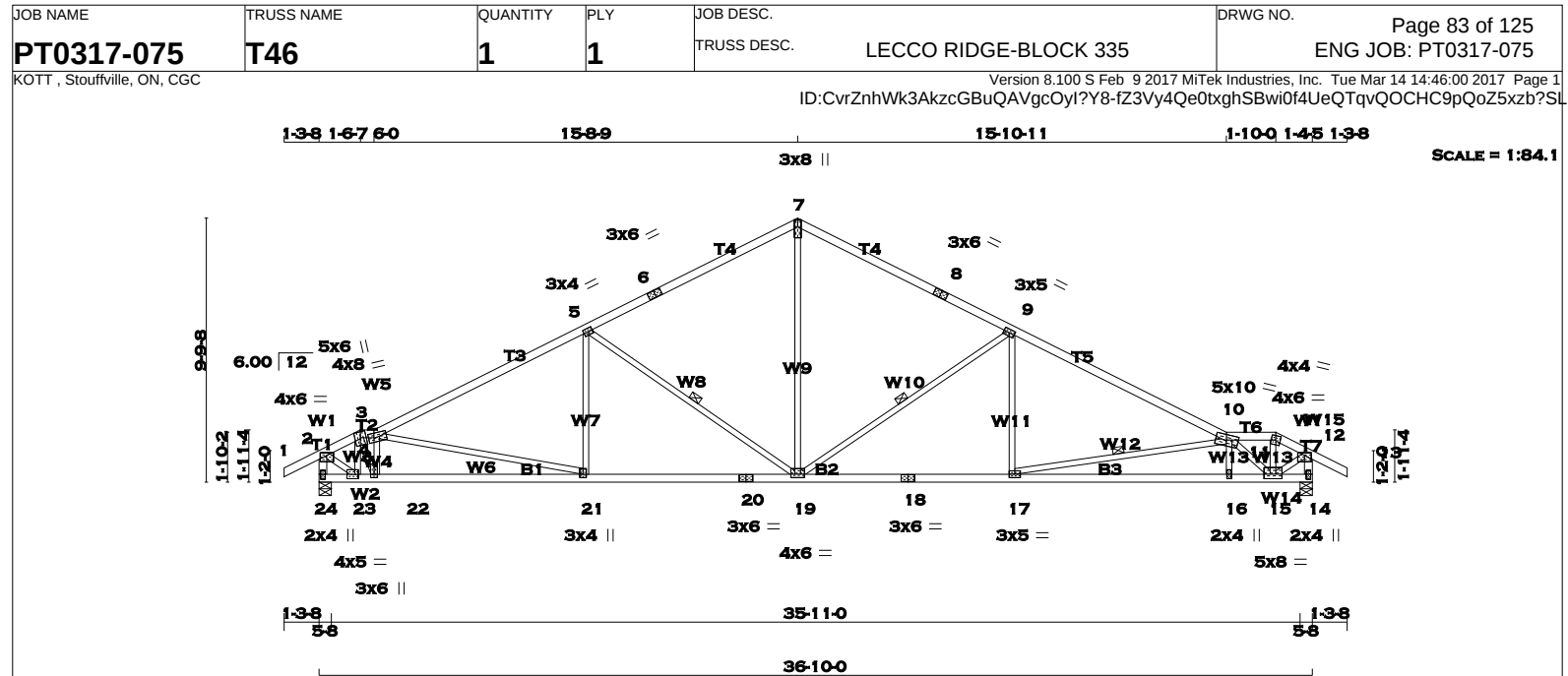
JSI GRIP= 0.87 (9) (INPUT = 0.90)
JSI METAL= 0.83 (8) (INPUT = 1.00)

1-2	0 / 23	-77.3	-77.3	0.10 (1)	10.00	21-3	-168 / 1	0.04 (1)
2-3	-2534 / 0	-77.3	-77.3	0.40 (1)	3.99	20-4	-1169 / 0	0.28 (1)
3-4	-2394 / 0	-77.3	-77.3	0.06 (1)	4.42	4-19	-249 / 0	0.22 (1)
4-5	-2445 / 0	-77.3	-77.3	0.46 (1)	3.99	19-5	0 / 243	0.06 (4)
5-6	-1924 / 0	-77.3	-77.3	0.42 (1)	4.44	5-17	-758 / 0	0.41 (1)
6-7	-1925 / 0	-77.3	-77.3	0.43 (1)	4.43	17-6	0 / 1347	0.30 (1)
7-8	-2586 / 0	-77.3	-77.3	0.49 (1)	3.86	17-7	-934 / 0	0.50 (1)
8-9	-2313 / 0	-77.3	-77.3	0.09 (1)	4.46	15-7	0 / 420	0.09 (1)
9-10	-2543 / 0	-77.3	-77.3	0.37 (1)	4.01	15-8	-614 / 0	0.58 (1)
10-11	0 / 23	-77.3	-77.3	0.10 (1)	10.00	14-8	0 / 62	0.02 (4)
22-2	-1818 / 0	0.0	0.0	0.18 (1)	6.20	8-13	-1280 / 0	0.32 (1)
12-10	-1810 / 0	0.0	0.0	0.18 (1)	6.22	13-9	0 / 870	0.20 (1)
						2-21	0 / 2295	0.52 (1)
22-21	0 / 0	-17.5	-17.5	0.13 (4)	10.00	13-10	0 / 2302	0.52 (1)
21-20	0 / 2270	-17.5	-17.5	0.45 (1)	10.00	3-20	0 / 1084	0.24 (1)
20-19	0 / 2424	-17.5	-17.5	0.47 (1)	10.00			
19-18	0 / 2210	-17.5	-17.5	0.43 (1)	10.00			
18-17	0 / 2210	-17.5	-17.5	0.43 (1)	10.00			
17-16	0 / 2336	-17.5	-17.5	0.45 (1)	10.00			
16-15	0 / 2336	-17.5	-17.5	0.45 (1)	10.00			
15-14	0 / 2869	-17.5	-17.5	0.54 (1)	10.00			
14-13	0 / 2870	-17.5	-17.5	0.50 (1)	10.00			
13-12	0 / 0	-17.5	-17.5	0.10 (4)	10.00			





KOTT



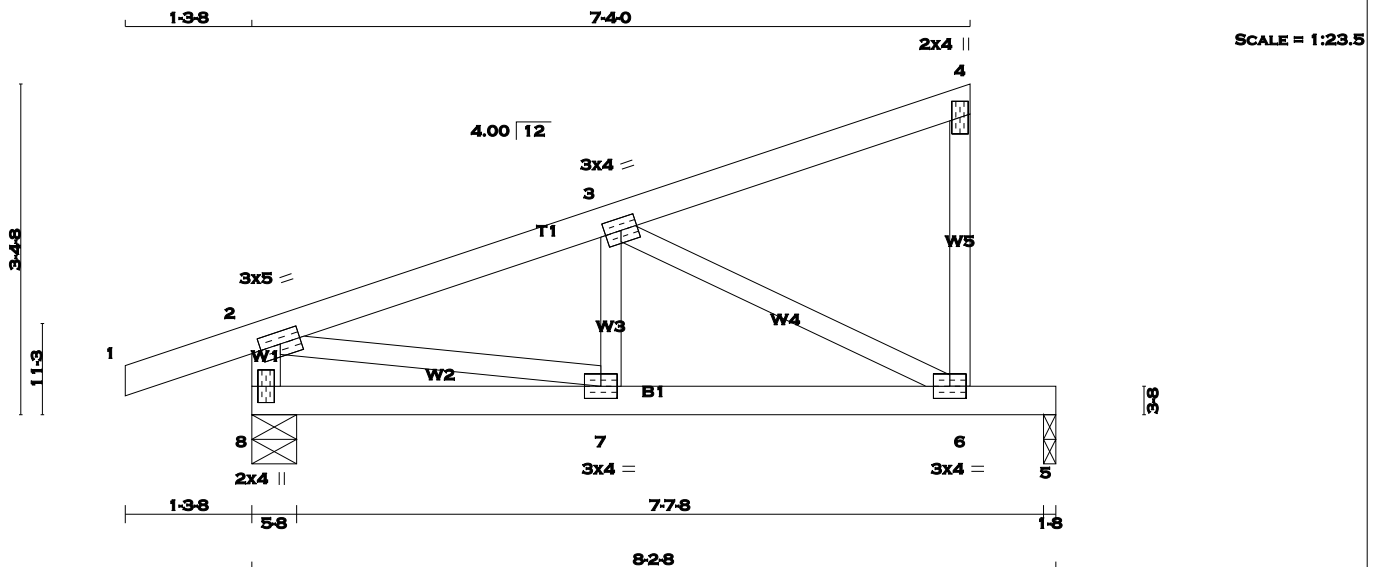
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. 1 - 3 2x4 DRY No.2 SPF 3 - 4 2x4 DRY No.2 SPF 4 - 6 2x4 DRY No.2 SPF 6 - 7 2x4 DRY No.2 SPF 7 - 8 2x4 DRY No.2 SPF 8 - 10 2x4 DRY No.2 SPF 10 - 11 2x4 DRY No.2 SPF 11 - 13 2x4 DRY No.2 SPF 24 - 2 2x4 DRY No.2 SPF 14 - 12 2x4 DRY No.2 SPF 24 - 20 2x4 DRY No.2 SPF 20 - 18 2x4 DRY No.2 SPF 18 - 14 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT DRY: SEASONED LUMBER.				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 24 1852 0 1852 0 0 5-8 5-8 14 1852 0 1852 0 0 5-8 5-8 UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 24 1297 921 / 0 0 / 0 0 / 0 376 / 0 0 / 0 14 1297 921 / 0 0 / 0 0 / 0 376 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 24, 14 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.10 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-19. DBS = 16-0-0 . CBF = 84 LBS. 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 9-19. DBS = 12-0-0 . CBF = 80 LBS. 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 10-17. DBS = 20-0-0 . CBF = 85 LBS. DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. 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) C H O R D S MEMB. MAX. FACTORED FORCE (LBS) FACTORED VERT. LOAD (PLF) MAX. CSI (LC) W E B S MAX. FACTORED FORCE (LBS) MAX. FACTORED FORCE (LBS) MAX. FACTORED FORCE (LBS) FR-TO FROM TO LENGTH FR-TO 1-2 0 / 23 -77.3 -77.3 0.10 (1) 10.00 23-3 -873 / 0 0.13 (1) 2-3 -1693 / 0 -77.3 -77.3 0.10 (1) 5.03 22-4 -1512 / 0 0.22 (1) 3-4 -2136 / 0 -77.3 -77.3 0.05 (1) 4.64 4-21 0 / 350 0.08 (1) 4-5 -2630 / 0 -77.3 -77.3 0.92 (1) 3.30 21-5 0 / 147 0.05 (4) 5-6 -1929 / 0 -77.3 -77.3 0.79 (1) 3.89 5-19 -842 / 0 0.56 (1) 6-7 -1929 / 0 -77.3 -77.3 0.79 (1) 3.89 19-7 0 / 1233 0.28 (1) 7-8 -1929 / 0 -77.3 -77.3 0.81 (1) 3.85 19-9 -1073 / 0 0.72 (1) 8-9 -1929 / 0 -77.3 -77.3 0.81 (1) 3.85 17-9 0 / 284 0.07 (4) 9-10 -2846 / 0 -77.3 -77.3 1.00 (1) 3.10 17-10 -684 / 0 0.32 (1) 10-11 -1535 / 0 -77.3 -77.3 0.06 (1) 5.28 16-10 0 / 135 0.05 (4) 11-12 -1692 / 0 -77.3 -77.3 0.10 (1) 5.03 10-15 -2305 / 0 0.36 (1) 12-13 0 / 23 -77.3 -77.3 0.10 (1) 10.00 15-11 0 / 684 0.15 (1) 24-2 -1858 / 0 0.0 0.0 0.19 (1) 6.15 2-23 0 / 1739 0.39 (1) 14-12 -1837 / 0 0.0 0.0 0.19 (1) 6.18 15-12 0 / 1726 0.39 (1) 24-23 0 / 0 -17.5 -17.5 0.04 (1) 10.00 23-22 0 / 1548 -17.5 -17.5 0.30 (1) 10.00 22-21 0 / 2040 -17.5 -17.5 0.44 (1) 10.00 21-20 0 / 2383 -17.5 -17.5 0.50 (1) 10.00 20-19 0 / 2383 -17.5 -17.5 0.50 (1) 10.00 19-18 0 / 2577 -17.5 -17.5 0.55 (1) 10.00 18-17 0 / 2577 -17.5 -17.5 0.55 (1) 10.00 17-16 0 / 3248 -17.5 -17.5 0.66 (1) 10.00 16-15 0 / 3254 -17.5 -17.5 0.53 (1) 10.00 15-14 0 / 0 -17.5 -17.5 0.02 (4) 10.00				DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.0 PSF TOTAL LOAD = 33.3 PSF SPACING = 24.0 IN. C/C LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12 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 (1.23") CALCULATED VERT. DEFL. (LL) = L/999 (0.17") ALLOWABLE DEFL.(TL)= L/360 (1.23") CALCULATED VERT. DEFL.(TL) = L/999 (0.35") CSI: TC=1.00 (9-10:1), BC=0.66 (16-17:1), WB=0.72 (9-19:1), SSI=0.27 (9-10:1) 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 (23) (INPUT = 0.90) JSI METAL= 0.88 (10) (INPUT = 1.00)			
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READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 9 X 30 = 266 lb
[M][F]

LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
6 - 4	2x3	DRY	No.2	SPF
8 - 2	2x4	DRY	No.2	SPF
8 - 5	2x4	DRY	No.2	SPF

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		
3	TMVW-t	MT20	3.0	4.0		
4	TMV+p	MT20	2.0	4.0		
6	BMVW-t	MT20	3.0	4.0		
7	BMVW-t	MT20	3.0	4.0		
8	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
8	489	0	489	0	0	5-8	5-8	
5	325	0	325	0	0	1-8	1-8	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX./MIN. SNOW		LIVE		PERM. LIVE		WIND		DEAD		SOIL	
	VERT	HORZ	DOWN	HORZ	DOWN	HORZ	DOWN	HORZ	DOWN	HORZ	DOWN	HORZ	DOWN	HORZ
8	341	251 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	90 / 0	0 / 0	0 / 0	0 / 0	0 / 0
5	230	153 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	77 / 0	0 / 0	0 / 0	0 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8, 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. FORCE (LBS)	FACTORED VERT. LOAD (LBS)	LC1 MAX (PLF)	MAX. CSI (LC)	MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (LBS)	LC1 MAX (PLF)	MAX. CSI (LC)
FR-TO		FROM	TO	LENGTH	FR-TO		FROM	TO	LENGTH
1-2	0 / 16	-77.3	-77.3	0.10 (1)	10.00	7-3	0 / 95	0.03 (4)	
2-3	-543 / 0	-77.3	-77.3	0.12 (1)	6.25	3-6	-588 / 0	0.16 (1)	
3-4	-10 / 0	-77.3	-77.3	0.12 (1)	10.00	2-7	0 / 532	0.12 (1)	
6-4	-110 / 0	0.0	0.0	0.03 (1)	7.81				
8-2	-479 / 0	0.0	0.0	0.05 (1)	7.81				
8-7	0 / 0	-17.5	-17.5	0.11 (1)	10.00				
7-6	0 / 525	-17.5	-17.5	0.46 (1)	10.00				
6-5	0 / 0	-17.5	-17.5	0.38 (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 (0.27")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.27")
CALCULATED VERT. DEFL.(TL) = L/ 944 (0.10")

CSI: TC=0.12 (2-3:1) , BC=0.46 (6-7:1) , WB=0.16 (3-6:1) , SSI=0.25 (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
MT20	618	354	1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (7) (INPUT = 0.90)
JSI METAL= 0.20 (7) (INPUT = 1.00)

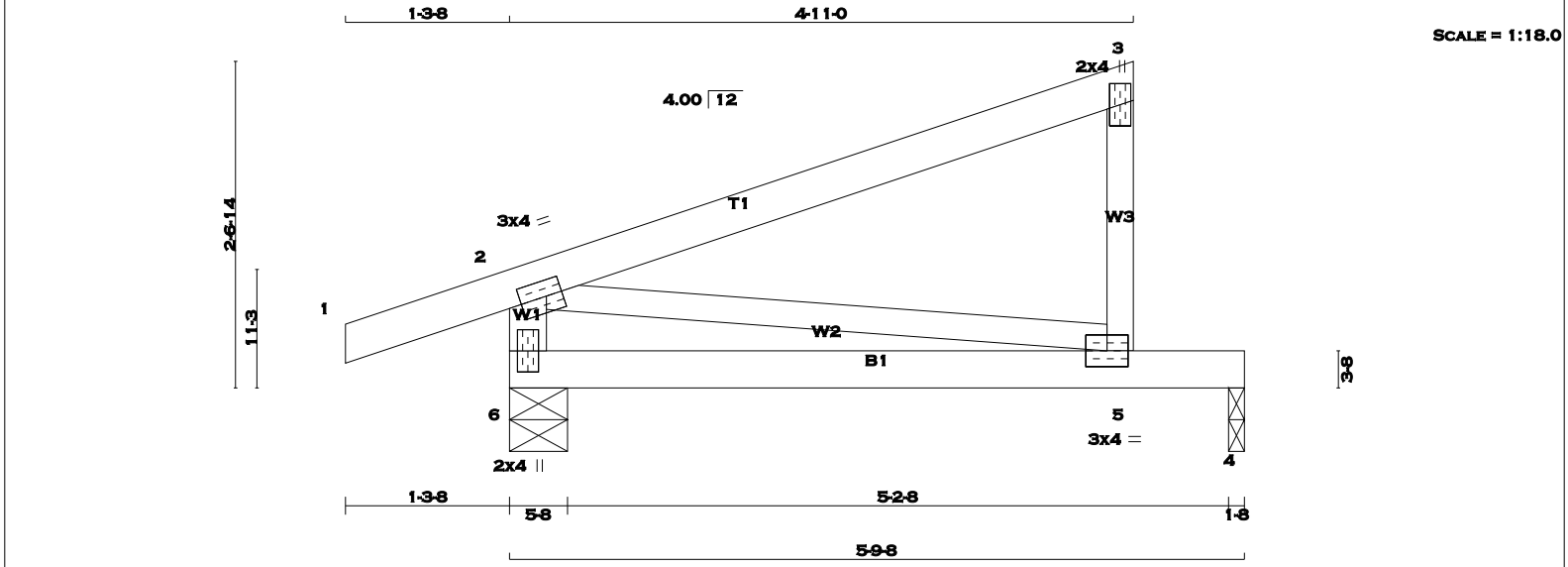


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TOTAL WEIGHT = 13 X 20 = 259 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2
5 - 3	2x3	DRY	No.2
6 - 2	2x4	DRY	No.2
6 - 4	2x4	DRY	No.2
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	1.50
3	TMV+p	MT20	2.0	4.0		
5	BMVW-t	MT20	3.0	4.0		
6	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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		
6	373	0	373	0	5-8	5-8
4	212	0	212	0	1-8	1-8

UNFACTORED REACTIONS

JT	COMBINED	MAX./MIN. COMPONENT REACTIONS				WIND	DEAD	SOIL
		1ST LCASE	SNOW	LIVE	PERM.LIVE			
6	260	194 / 0	0 / 0	0 / 0	0 / 0	66 / 0	0 / 0	0 / 0
4	150	97 / 0	0 / 0	0 / 0	0 / 0	53 / 0	0 / 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. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRAC LENGTH	MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRAC LENGTH
FR-TO		FROM TO			FR-TO		FROM TO		
1-2	0 / 16	-77.3	-77.3	0.10 (1)	10.00	2-5	0 / 0	0.00 (1)	
2-3	0 / 0	-77.3	-77.3	0.32 (1)	10.00				
5-3	-190 / 0	0.0	0.0	0.03 (1)	7.81				
6-2	-294 / 0	0.0	0.0	0.03 (1)	7.81				
6-5	0 / 0	-17.5	-17.5	0.25 (1)	10.00				
5-4	0 / 0	-17.5	-17.5	0.24 (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

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 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 586 (0.12")

CSI: TC=0.32 (2-3:1) , BC=0.25 (5-6:1) , WB=0.00 (2-5:1) , SSI=0.17 (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.

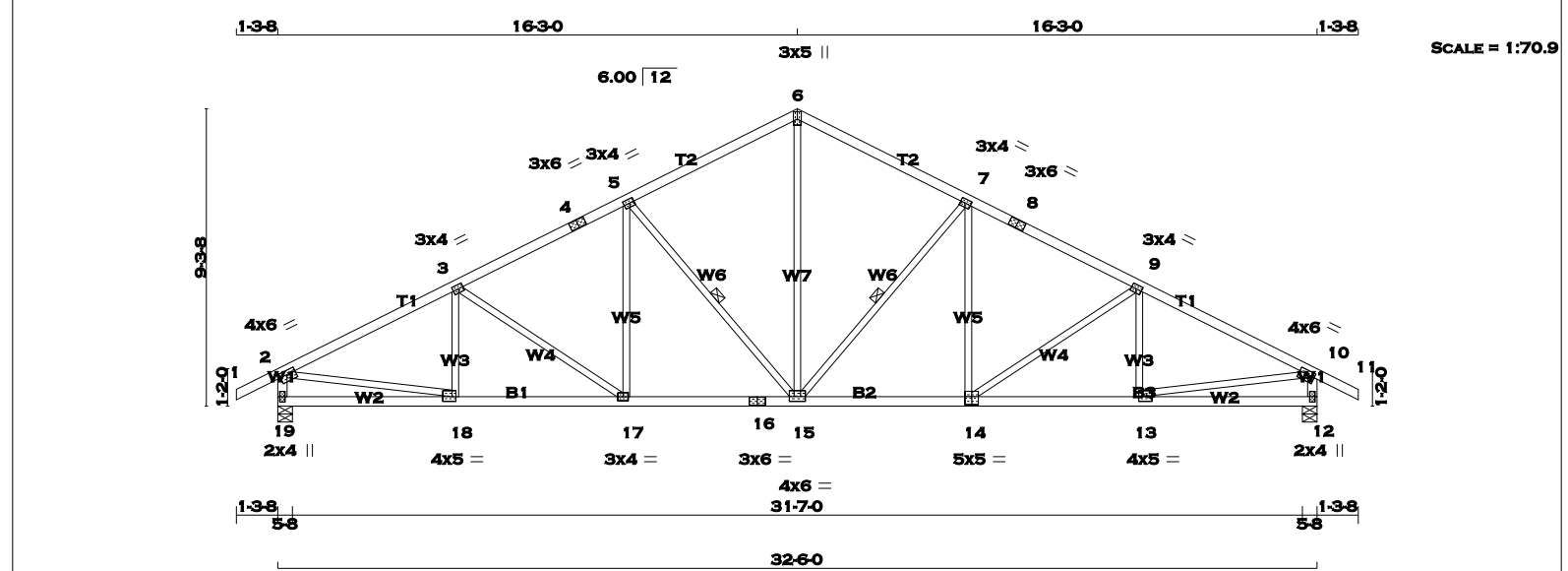
JSI GRIP= 0.27 (2) (INPUT = 0.90)
JSI METAL= 0.05 (6) (INPUT = 1.00)



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 IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 14 X 138 = 1926 lb										[M][F]				
LUMBER N. L. G. A. RULES CHORDS SIZE 1 - 4 2x4 DRY No.2 4 - 6 2x4 DRY No.2 6 - 8 2x4 DRY No.2 8 - 11 2x4 DRY No.2 19- 2 2x4 DRY No.2 12- 10 2x4 DRY No.2 19- 16 2x4 DRY No.2 16- 14 2x4 DRY No.2 14- 12 2x4 DRY No.2 ALL WEBS 2x3 DRY No.2 EXCEPT DRY: SEASONED LUMBER.					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED GROSS REACTION JT VERT HORZ 19 1646 0 12 1646 0 MAXIMUM FACTORED GROSS REACTION DOWN HORZ UPLIFT 19 1646 0 0 12 1646 0 0 INPUT BRG IN-SX 5-8 5-8 5-8 5-8 REQRD BRG IN-SX 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 19 1153 820 / 0 0 / 0 0 / 0 333 / 0 0 / 0 12 1153 820 / 0 0 / 0 0 / 0 333 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 19, 12 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.25 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 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 7-15, 5-15. DBS = 20-0-0 . CBF = 79 LBS. DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. 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) FACTORED VERT. LOAD LC1 MAX (PLF) CSI (LC) UNBRAC LENGTH FR-TO FR-TO 0 / 23 -77.3 -77.3 0.10 (1) 10.00 15- 6 0 / 1064 0.24 (1) 2- 3 -2242 / 0 -77.3 -77.3 0.37 (1) 4.25 15- 7 -633 / 0 0.29 (1) 3- 4 -2022 / 0 -77.3 -77.3 0.30 (1) 4.50 14- 7 0 / 235 0.05 (1) 4- 5 -2022 / 0 -77.3 -77.3 0.30 (1) 4.50 14- 9 -257 / 0 0.19 (1) 5- 6 -1582 / 0 -77.3 -77.3 0.29 (1) 4.96 13- 9 -210 / 28 0.05 (1) 6- 7 -1582 / 0 -77.3 -77.3 0.29 (1) 4.96 5-15 -633 / 0 0.29 (1) 7- 8 -2022 / 0 -77.3 -77.3 0.30 (1) 4.50 17- 5 0 / 235 0.05 (1) 8- 9 -2022 / 0 -77.3 -77.3 0.30 (1) 4.50 3-17 -257 / 0 0.19 (1) 9-10 -2242 / 0 -77.3 -77.3 0.37 (1) 4.25 18- 3 -210 / 28 0.05 (1) 10-11 0 / 23 -77.3 -77.3 0.10 (1) 10.00 2-18 0 / 2044 0.46 (1) 19- 2 -1604 / 0 0.0 0.0 0.16 (1) 6.52 13-10 0 / 2044 0.46 (1) 12-10 -1604 / 0 0.0 0.0 0.16 (1) 6.52 WEBS MEMB. MAX. FACTORED FORCE (LBS) MAX. UNBRAC LENGTH FR-TO FR-TO 0 / 23 -77.3 -77.3 0.10 (1) 10.00 15- 6 0 / 1064 0.24 (1) 2- 3 -2242 / 0 -77.3 -77.3 0.37 (1) 4.25 15- 7 -633 / 0 0.29 (1) 3- 4 -2022 / 0 -77.3 -77.3 0.30 (1) 4.50 14- 7 0 / 235 0.05 (1) 4- 5 -2022 / 0 -77.3 -77.3 0.30 (1) 4.50 14- 9 -257 / 0 0.19 (1) 5- 6 -1582 / 0 -77.3 -77.3 0.29 (1) 4.96 13- 9 -210 / 28 0.05 (1) 6- 7 -1582 / 0 -77.3 -77.3 0.29 (1) 4.96 5-15 -633 / 0 0.29 (1) 7- 8 -2022 / 0 -77.3 -77.3 0.30 (1) 4.50 17- 5 0 / 235 0.05 (1) 8- 9 -2022 / 0 -77.3 -77.3 0.30 (1) 4.50 3-17 -257 / 0 0.19 (1) 9-10 -2242 / 0 -77.3 -77.3 0.37 (1) 4.25 18- 3 -210 / 28 0.05 (1) 10-11 0 / 23 -77.3 -77.3 0.10 (1) 10.00 2-18 0 / 2044 0.46 (1) 19- 2 -1604 / 0 0.0 0.0 0.16 (1) 6.52 13-10 0 / 2044 0.46 (1) 12-10 -1604 / 0 0.0 0.0 0.16 (1) 6.52					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 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (1.08") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.11") ALLOWABLE DEFL.(TL)= L/360 (1.08") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.20") CSI: TC=0.37 (9-10:1) , BC=0.37 (17-18:1) , WB=0.46 (2-18:1) , SSI=0.18 (9-10:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 822 2284 1656 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.88 (13) (INPUT = 0.90) JSI METAL= 0.61 (18) (INPUT = 1.00)				
A SIZE FOR SIZE SUBSTITUTION OF MITEK MI20 WITH TEE-LOK TL20 PLATES IS ALLOWED.														

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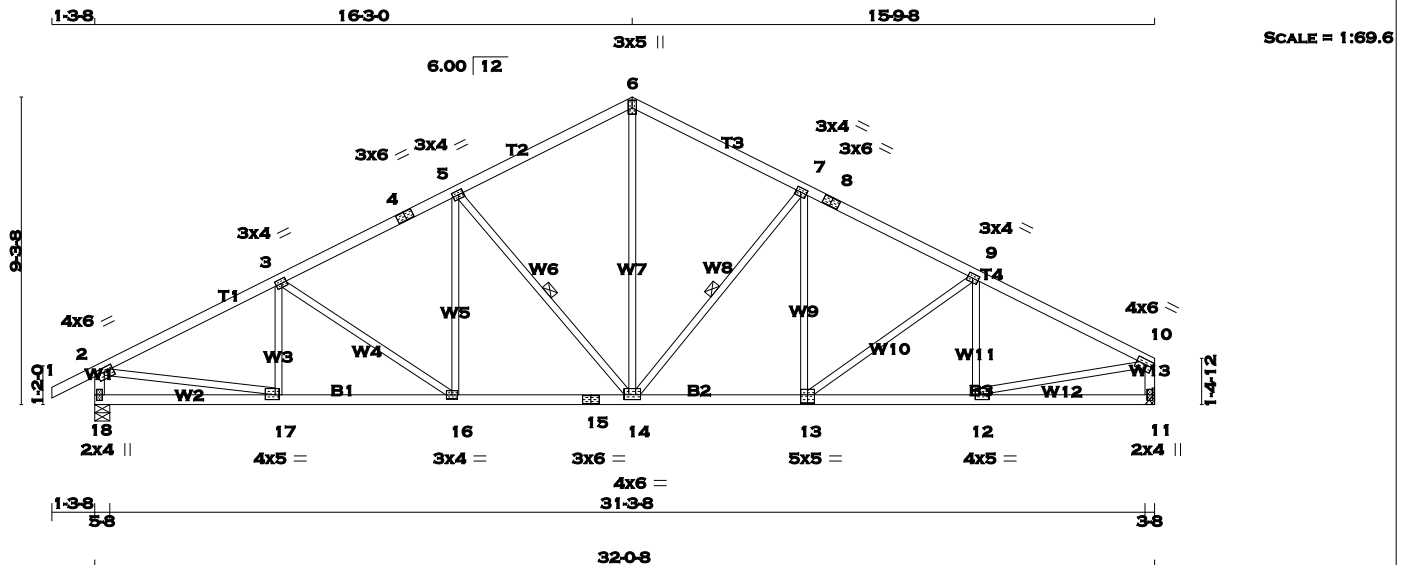
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MAR 29, 2017

17-5187

BUILDING DIVISION

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



TOTAL WEIGHT = 8 X 135 = 1081 lb [M][F]

LUMBER		N. L. G. A. RULES		LUMBER	DESCR.
CHORDS	SIZE				
1 - 4	2x4	DRY	No.2	SPF	SPF
4 - 6	2x4	DRY	No.2	SPF	SPF
6 - 8	2x4	DRY	No.2	SPF	SPF
8 - 10	2x4	DRY	No.2	SPF	SPF
18 - 2	2x4	DRY	No.2	SPF	SPF
11 - 10	2x4	DRY	No.2	SPF	SPF
18 - 15	2x4	DRY	No.2	SPF	SPF
15 - 13	2x4	DRY	No.2	SPF	SPF
13 - 11	2x4	DRY	No.2	SPF	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	
DRY: SEASONED LUMBER.					

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	6.0	1.50	2.75
3, 5, 7, 9						
3	TMVW-t	MT20	3.0	4.0	1.50	1.75
4	TS-t	MT20	3.0	6.0		
6	TTW+p	MT20	3.0	5.0	2.75	1.50
8	TS-t	MT20	3.0	6.0		
10	TMVW-t	MT20	4.0	6.0	1.75	2.75
11	BMV1+p	MT20	2.0	4.0		
12	BMVW-t	MT20	4.0	5.0	1.75	1.50
13	BSVW-t	MT20	5.0	5.0	3.00	2.50
14	BMVW-t	MT20	4.0	6.0	1.75	3.00
15	BS-t	MT20	3.0	6.0		
16	BMVW-t	MT20	3.0	4.0		
17	BMVW-t	MT20	4.0	5.0	1.75	1.50
18	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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
18	1624	0	1624	0	0	5-8	5-8
11	1520	0	1520	0	0	HANGER BY OTHERS	
MIN. SEAT SIZE: 3-8							

UNFACTORED REACTIONS							
		1ST LCASE	MAX./MIN.	COMPONENT REACTIONS			
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
18		1138	809 / 0	0 / 0	0 / 0	0 / 0	329 / 0
11		1066	746 / 0	0 / 0	0 / 0	0 / 0	320 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.28 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 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-14, 7-14. DBS = 20-0-0 . CBF = 79 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. 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)			
C H O R D S				W E B S			
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	-77.3	-77.3 0.10 (1)	10.00	17-3	-205 / 29	0.05 (1)
2-3	-2205 / 0	-77.3	-77.3 0.36 (1)	4.28	3-16	-262 / 0	0.20 (1)
3-4	-1980 / 0	-77.3	-77.3 0.30 (1)	4.55	16-5	0 / 238	0.05 (1)
4-5	-1980 / 0	-77.3	-77.3 0.30 (1)	4.55	5-14	-636 / 0	0.29 (1)
5-6	-1538 / 0	-77.3	-77.3 0.29 (1)	5.02	14-6	0 / 1029	0.23 (1)
6-7	-1537 / 0	-77.3	-77.3 0.27 (1)	5.04	14-7	-576 / 0	0.26 (1)
7-8	-1927 / 0	-77.3	-77.3 0.28 (1)	4.61	13-7	0 / 190	0.04 (4)
8-9	-1927 / 0	-77.3	-77.3 0.28 (1)	4.61	13-9	-175 / 0	0.13 (1)
9-10	-2067 / 0	-77.3	-77.3 0.33 (1)	4.43	12-9	-275 / 6	0.07 (1)
18-2	-1582 / 0	0.0	0.0 0.16 (1)	6.56	2-17	0 / 2011	0.45 (1)
11-10	-1478 / 0	0.0	0.0 0.15 (1)	6.74	12-10	0 / 1902	0.43 (1)
18-17	0 / 0	-17.5	-17.5 0.12 (4)	10.00			
17-16	0 / 1987	-17.5	-17.5 0.36 (1)	10.00			
16-15	0 / 1771	-17.5	-17.5 0.35 (1)	10.00			
15-14	0 / 1771	-17.5	-17.5 0.35 (1)	10.00			
14-13	0 / 1723	-17.5	-17.5 0.34 (1)	10.00			
13-12	0 / 1864	-17.5	-17.5 0.35 (1)	10.00			
12-11	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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.07")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.10")
ALLOWABLE DEFL.(TL)= L/360 (1.07")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.19")

CSI: TC=0.36 (2-3:1) , BC=0.36 (16-17:1) , WB=0.45 (2-17:1) , SSI=0.18 (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.

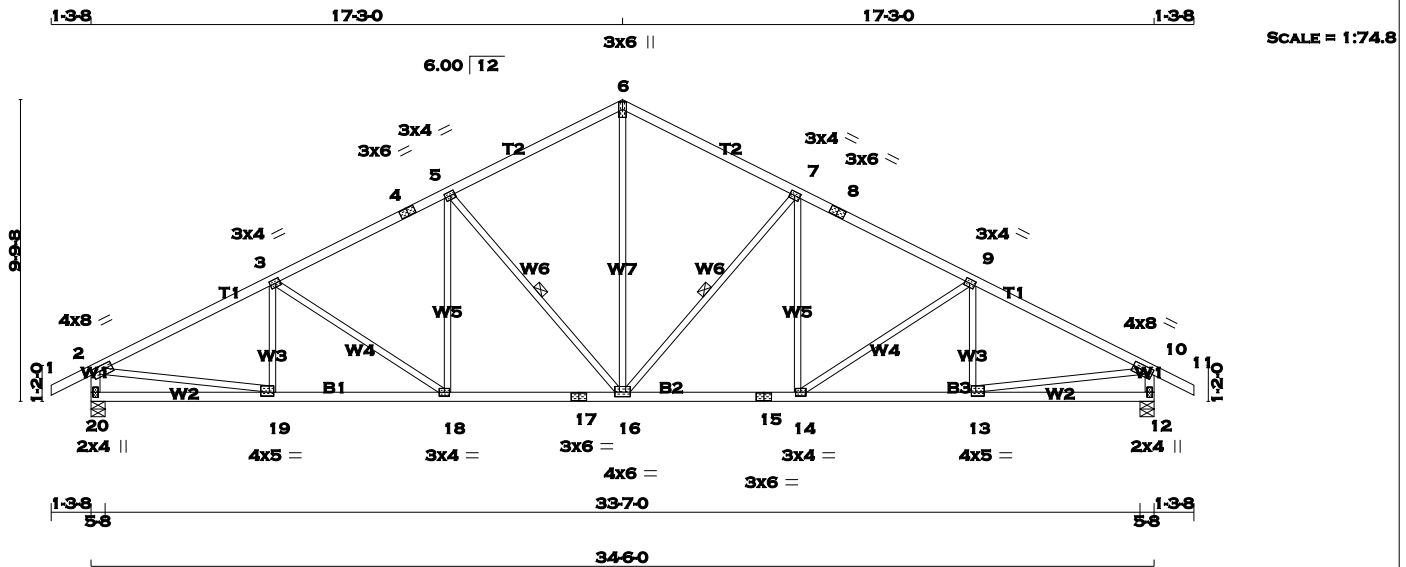
JSI GRIP= 0.88 (12) (INPUT = 0.90)
JSI METAL= 0.60 (17) (INPUT = 1.00)



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TOTAL WEIGHT = 2 X 146 = 291 lb
[M][F]

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2
4 - 6	2x4	DRY	No.2
6 - 8	2x4	DRY	No.2
8 - 11	2x4	DRY	No.2
20 - 2	2x4	DRY	No.2
12 - 10	2x4	DRY	No.2
20 - 17	2x4	DRY	No.2
17 - 15	2x4	DRY	No.2
15 - 12	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMVW-t	MT20	4.0	8.0	1.75 3.00
3, 5, 7, 9					
3	TMVW-t	MT20	3.0	4.0	1.50 1.75
4	TS-t	MT20	3.0	6.0	
6	TTW+p	MT20	3.0	6.0	
8	TS-t	MT20	3.0	6.0	
10	TMVW-t	MT20	4.0	8.0	1.75 3.00
12	BMV1+p	MT20	2.0	4.0	
13	BMVW-t	MT20	4.0	5.0	1.50 1.75
14	BMVW-t	MT20	3.0	4.0	
15	BS-t	MT20	3.0	6.0	
16	BMVW-t	MT20	4.0	6.0	1.75 3.00
17	BS-t	MT20	3.0	6.0	
18	BMVW-t	MT20	3.0	4.0	
19	BMVW-t	MT20	4.0	5.0	1.50 1.75
20	BMV1+p	MT20	2.0	4.0	

A SIZE FOR SIZE SUBSTITUTION OF MIITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

BEARINGS			
FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION	
JT	VERT	DOWN	HORZ
20	1741	0	1741
12	1741	0	1741

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS		INPUT		REQRD	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
20	1220	866 / 0	0 / 0	0 / 0	0 / 0	353 / 0	0 / 0
12	1220	866 / 0	0 / 0	0 / 0	0 / 0	353 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.06 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 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-16, 5-16. DBS = 20-0-0 . CBF = 85 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. 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

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 CSI (LC)
FR-TO		FROM TO			FR-TO		
1-2	0 / 23	-77.3 -77.3	0.10 (1)	10.00	16-6	0 / 1138	0.26 (1)
2-3	-2414 / 0	-77.3 -77.3	0.43 (1)	4.06	16-7	-680 / 0	0.36 (1)
3-4	-2164 / 0	-77.3 -77.3	0.35 (1)	4.33	14-7	0 / 257	0.06 (1)
4-5	-2164 / 0	-77.3 -77.3	0.35 (1)	4.33	14-9	-289 / 0	0.25 (1)
5-6	-1689 / 0	-77.3 -77.3	0.34 (1)	4.79	13-9	-208 / 34	0.05 (1)
6-7	-1689 / 0	-77.3 -77.3	0.34 (1)	4.79	5-16	-680 / 0	0.36 (1)
7-8	-2164 / 0	-77.3 -77.3	0.35 (1)	4.33	18-5	0 / 257	0.06 (1)
8-9	-2164 / 0	-77.3 -77.3	0.35 (1)	4.33	3-18	-289 / 0	0.25 (1)
9-10	-2414 / 0	-77.3 -77.3	0.43 (1)	4.06	19-3	-208 / 34	0.05 (1)
10-11	0 / 23	-77.3 -77.3	0.10 (1)	10.00	2-19	0 / 2199	0.49 (1)
20-2	-1696 / 0	0.0 0.0	0.17 (1)	6.38	13-10	0 / 2199	0.49 (1)
12-10	-1696 / 0	0.0 0.0	0.17 (1)	6.38			
20-19	0 / 0	-17.5 -17.5	0.13 (4)	10.00			
19-18	0 / 2176	-17.5 -17.5	0.40 (1)	10.00			
18-17	0 / 1935	-17.5 -17.5	0.38 (1)	10.00			
17-16	0 / 1935	-17.5 -17.5	0.38 (1)	10.00			
16-15	0 / 1935	-17.5 -17.5	0.38 (1)	10.00			
15-14	0 / 1935	-17.5 -17.5	0.38 (1)	10.00			
14-13	0 / 2176	-17.5 -17.5	0.40 (1)	10.00			
13-12	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

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

ALLOWABLE DEFL.(LL)= L/360 (1.15")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.13")
ALLOWABLE DEFL.(TL)= L/360 (1.15")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.23")

CSI: TC=0.43 (9-10:1) , BC=0.40 (13-14:1) , WB=0.49 (10-13:1) , SSI=0.19 (9-10:1)

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.

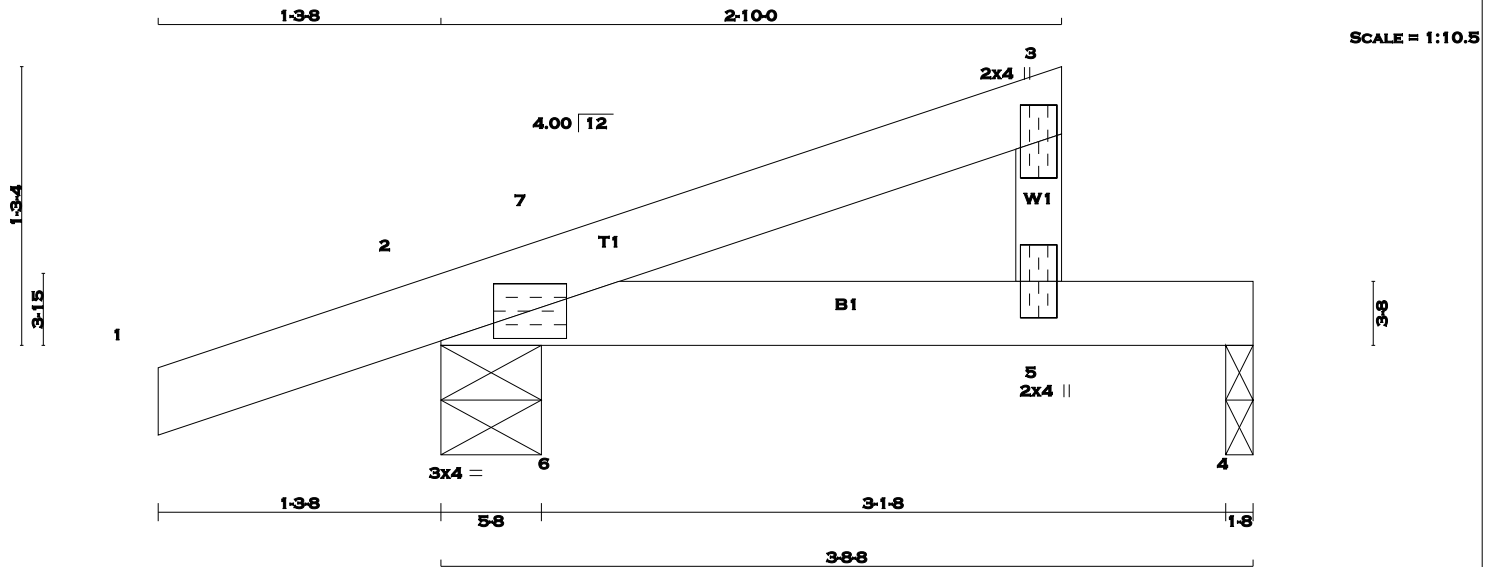
JSI GRIP= 0.89 (12) (INPUT = 0.90)
JSI METAL= 0.65 (19) (INPUT = 1.00)



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LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	No.2	SPF
5 - 3	2x3	No.2	SPF
2 - 4	2x4	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMB1-I	MT20	3.0	4.0		
3	TMV+p	MT20	2.0	4.0		
5	BMV+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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		
2	271	0	271	0	5-8	5-8
4	116	0	116	0	1-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX/MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	SNOW	LIVE	PERM. LIVE	WIND			
2	188	144 / 0	0 / 0	0 / 0	0 / 0	44 / 0	0 / 0
4	83	50 / 0	0 / 0	0 / 0	0 / 0	32 / 0	0 / 0

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

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. FORCE FACTORED (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FORCE FACTORED (LBS)	MAX CSI (LC)	
FR-TO		FROM TO			FR-TO			
1- 2	0 / 15	-77.3	-77.3	0.10 (1)	10.00	6- 7	-18 / 32	
2- 7	-25 / 0	-77.3	-77.3	0.06 (1)	6.25		0.00 (1)	
7- 3	0 / 6	-77.3	-77.3	0.10 (1)	10.00			
5- 3	-106 / 0	0.0	0.0	0.01 (1)	7.81			
2- 6	0 / 0	-17.5	-17.5	0.06 (1)	10.00			
6- 5	0 / 0	-17.5	-17.5	0.13 (1)	10.00			
5- 4	0 / 0	-17.5	-17.5	0.13 (1)	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

(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 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")

CSI: TC=0.10 (3-7:1), BC=0.13 (5-6:1), WB=0.00 (6-7:1), SSI=0.09 (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.

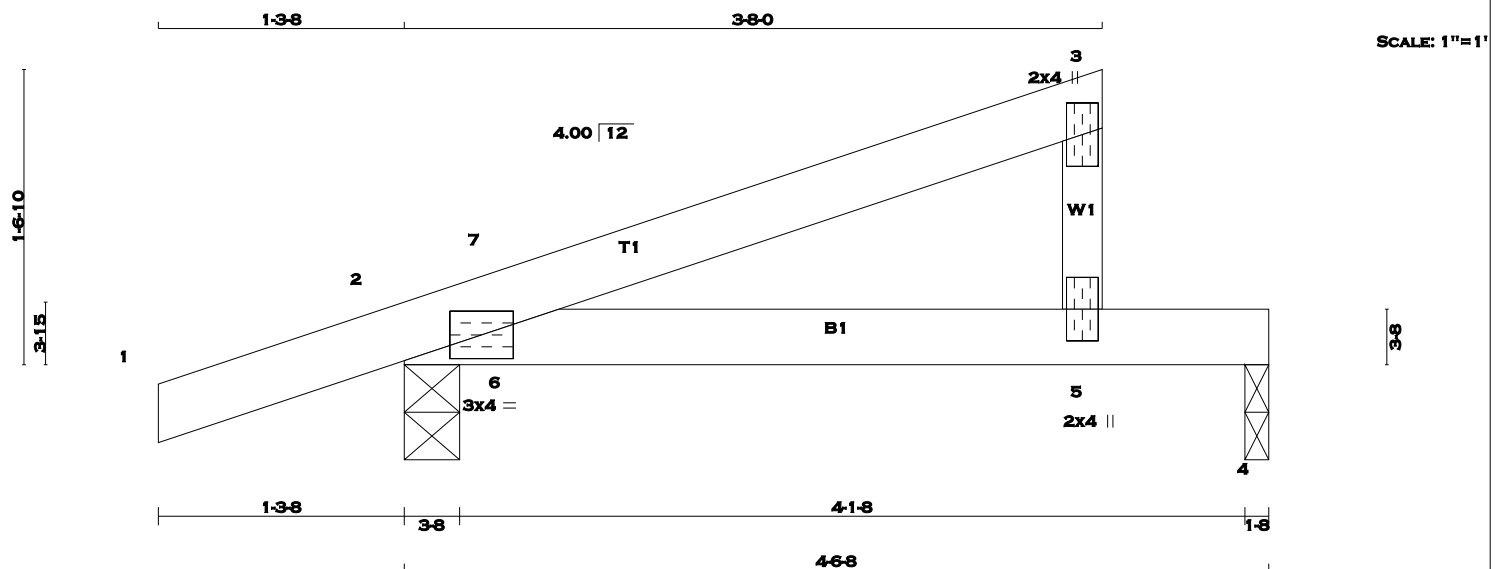
JSI GRIP= 0.12 (2) (INPUT = 0.90)
JSI METAL= 0.04 (2) (INPUT = 1.00)



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TOTAL WEIGHT = $8 \times 12 = 96 \text{ lb}$

<u>LUMBER</u>				
N. L. G. A. RULES				
CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
5 - 3	2x3	DRY	No.2	SPF
2 - 4	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMB1-l	MT20	3.0	4.0		
3	TMV+p	MT20	2.0	4.0		
5	BMV+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQ'D BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
2	312	0	312	0	0	3-8	3-8
4	154	0	154	0	0	1-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
2	217	164/0	0/0	0/0	0/0	53/0	0/0
4	110	69/0	0/0	0/0	0/0	41/0	0/0

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

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. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX FACTORED CSI (LC)
FR-TO		FROM TO			FR-TO		
1-2	0 / 15	-77.3	-77.3	0.10 (1)	10.00	6-7	-46 / 43
2-7	-28 / 0	-77.3	-77.3	0.07 (1)	6.25		
7-3	0 / 5	-77.3	-77.3	0.16 (1)	10.00		
5-3	-134 / 0	0.0	0.0	0.02 (1)	7.81		
2-6	0 / 0	-17.5	-17.5	0.08 (1)	10.00		
6-5	0 / 0	-17.5	-17.5	0.18 (1)	10.00		
5-4	0 / 0	-17.5	-17.5	0.17 (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 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 978 (0.06")

CSI: TC=0.16 (3-7:1), BC=0.18 (5-6:1), WB=0.00 (6-7:1), SSI=0.12 (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.

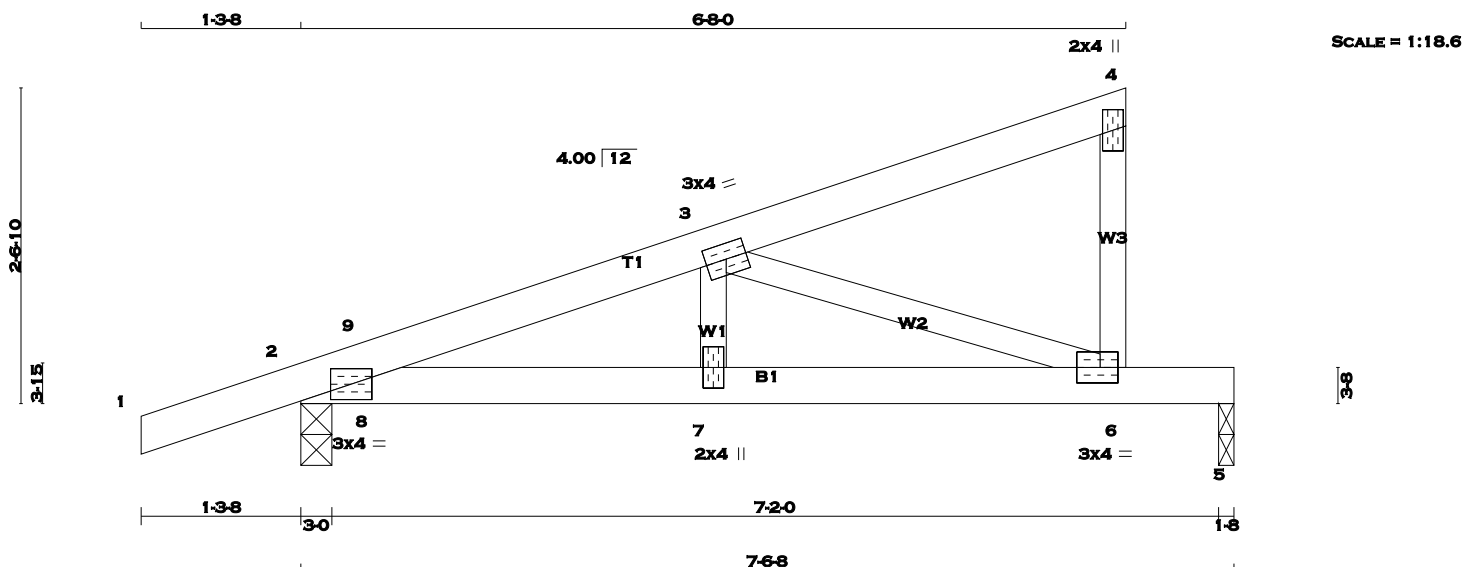
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JSI METAL= 0.05 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 6 X 23 = 139 lb
[M][F]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY No.2	SPF
6 - 4	2x3	DRY No.2	SPF
2 - 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
2	TMB1-I	MT20	3.0	4.0		
3	TMVW-t	MT20	3.0	4.0		
4	TMV+p	MT20	2.0	4.0		
6	BMVW-t	MT20	3.0	4.0	1.50	1.75
7	BMV+w	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG UPLIFT IN-SX	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
2	457	0	457	0	3-0	3-0
5	294	0	294	0	1-8	1-8

UNFACTORED REACTIONS

JT	COMBINED	1ST LCASE		MAX/MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
		SNOW	LIVE	PERM. LIVE	WIND			
2	319	236 / 0	0 / 0	0 / 0	0 / 0	83 / 0	0 / 0	0 / 0
5	208	137 / 0	0 / 0	0 / 0	0 / 0	70 / 0	0 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 2, 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)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)		
FR-TO		FROM TO			FR-TO				
1-2	0 / 15	-77.3	-77.3	0.10 (1)	10.00	7-3	0 / 190		
2-9	-732 / 0	-77.3	-77.3	0.01 (1)	6.25	3-6	-726 / 0		
9-3	-717 / 0	-77.3	-77.3	0.07 (1)	6.25	8-9	-84 / 2		
3-4	-6 / 0	-77.3	-77.3	0.10 (1)	10.00				
6-4	-110 / 0	0.0	0.0	0.02 (1)	7.81				
2-8	0 / 687	-17.5	-17.5	0.17 (1)	10.00				
8-7	0 / 687	-17.5	-17.5	0.20 (1)	10.00				
7-6	0 / 687	-17.5	-17.5	0.45 (1)	10.00				
6-5	0 / 0	-17.5	-17.5	0.34 (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 (0.25")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.25")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.09")

CSI: TC=0.10 (3-4:1), BC=0.45 (6-7:1), WB=0.16 (3-6:1), SSI=0.23 (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
MT20	618	354	1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

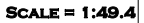
JSI GRIP= 0.86 (6) (INPUT = 0.90)
JSI METAL= 0.26 (6) (INPUT = 1.00)



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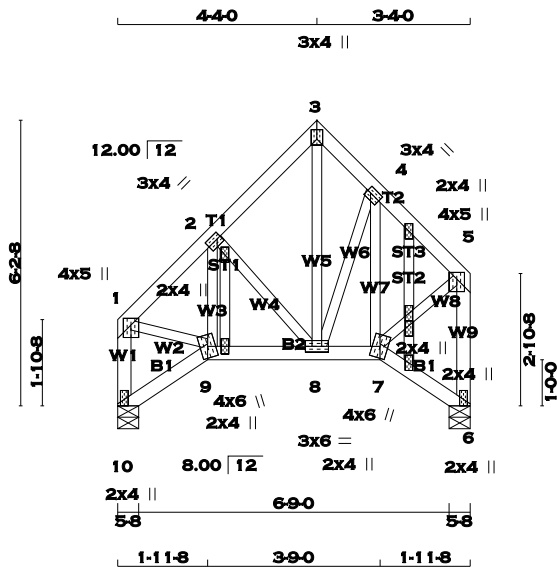


TOTAL WEIGHT = 10 X 45 = 450 lb

[M][F]

COSMETAL-0.05 (0) (INT ST = 1.00)





SCALE = 1:50.1

TOTAL WEIGHT = 2 X 49 = 98 lb [M][F]

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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW+p	MT20	4.0	5.0	1.75	2.00
2	TMWW-t	MT20	3.0	4.0	1.50	1.00
3	TTW+p	MT20	3.0	4.0	Edge	
4	TMWW-t	MT20	3.0	4.0	1.50	1.00
5	TMVW+p	MT20	4.0	5.0	1.75	2.00
6	BMV1+p	MT20	2.0	4.0	Edge	
7	BBWW+m	MT20	4.0	6.0		
8	BMWWW-t	MT20	3.0	6.0		
9	BBWW+m	MT20	4.0	6.0		
10	BMV1+p	MT20	2.0	4.0	Edge	
11, 12, 13, 14, 15						
11	NP+w	MT20	2.0	4.0		
15	NP+w	MT20	2.0	4.0	1.25	1.00

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

BEARINGS							
		FACTORED		MAXIMUM FACTORED		INPUT	
		GROSS REACTION		GROSS REACTION		BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX
10		364	0	364	0	0	5-8
6		364	0	364	0	0	5-8

UNFACTORED REACTIONS							
		1ST LCASE		MAX./MIN. COMPONENT REACTIONS			
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
10		255	178 / 0	0 / 0	0 / 0	0 / 0	77 / 0
6		255	178 / 0	0 / 0	0 / 0	0 / 0	77 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 10, 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					WEBS				
		MAX. FACTORED		FACTORED		MAX. FACTORED		FACTORED	
MEMB.		FORCE	VERT. LOAD	LC1 MAX	MAX.	MEMB.	FORCE	MAX	
		(LBS)	(PLF)	CSI (LC)	UNBRAC			(LBS)	CSI (LC)
FR-TO		FROM TO		LENGTH		FR-TO			
1-2		-307 / 0	-77.3	-77.3	0.04 (1)	6.25	9-2	-21 / 22	0.01 (4)
2-3		-213 / 0	-77.3	-77.3	0.04 (1)	6.25	2-8	-130 / 0	0.03 (1)
3-4		-214 / 0	-77.3	-77.3	0.02 (1)	6.25	8-3	0 / 182	0.04 (1)
4-5		-214 / 0	-77.3	-77.3	0.04 (1)	6.25	8-4	-53 / 0	0.01 (1)
10-1		-346 / 0	0.0	0.0	0.04 (1)	7.81	7-4	-93 / 0	0.02 (1)
6-5		-346 / 0	0.0	0.0	0.06 (1)	7.81	1-9	0 / 234	0.05 (1)
							7-5	0 / 198	0.04 (1)
10-9		0 / 0	-17.5	-17.5	0.02 (4)	10.00			
9-8		0 / 228	-17.5	-17.5	0.05 (1)	10.00			
8-7		0 / 160	-17.5	-17.5	0.03 (1)	10.00			
7-6		0 / 0	-17.5	-17.5	0.02 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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 (0.26")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.26")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.06 (5-6:1) , BC=0.05 (8-9:1) , WB=0.05 (1-9:1) , SSI=0.06 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

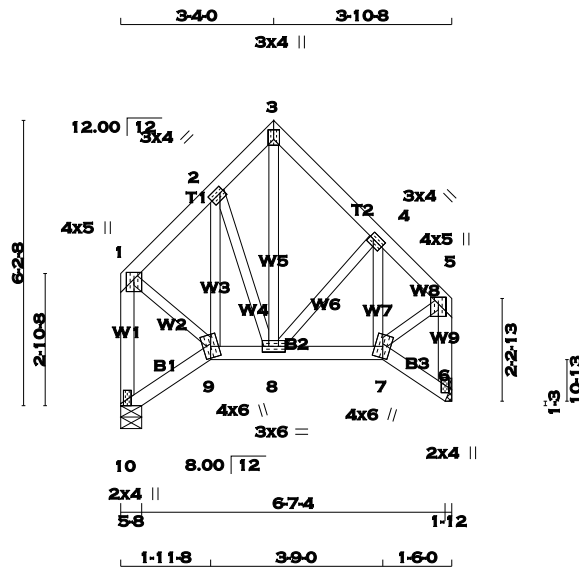
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JSI METAL= 0.08 (6) (INPUT = 1.00)



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TOTAL WEIGHT = 2 X 43 = 87 lb

[M][F]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
10 - 1	2x4	DRY	No.2	SPF
6 - 5	2x4	DRY	No.2	SPF
10 - 9	2x4	DRY	No.2	SPF
9 - 7	2x4	DRY	No.2	SPF
7 - 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+p	MT20	4.0	5.0	1.75	2.00
2	TMVW-t	MT20	3.0	4.0	1.50	1.00
3	TTW+p	MT20	3.0	4.0	Edge	
4	TMVW-t	MT20	3.0	4.0	1.50	1.00
5	TMVW+p	MT20	4.0	5.0	1.75	2.00
6	BMV1+p	MT20	2.0	4.0		
7	BBWW+m	MT20	4.0	6.0		
8	BMVW-t	MT20	3.0	6.0		
9	BBWW+m	MT20	4.0	6.0		
10	BMV1+p	MT20	2.0	4.0	Edge	
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.						
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.						



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
10	342	0	342	0	0	5-8	5-8
6	342	0	342	0	0	HANGER BY OTHERS	
MIN. SEAT SIZE: 1-12							

UNFACTORED REACTIONS

	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
10	240	168 / 0	0 / 0	0 / 0	0 / 0	72 / 0	0 / 0
6	240	168 / 0	0 / 0	0 / 0	0 / 0	72 / 0	0 / 0

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

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 UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED UNBRACED LENGTH (LC)			
FR-TO		FROM	TO	FR-TO					
1-2	-197 / 0	-77.3	-77.3 0.04 (1)	6.25	9-2	-84 / 0 0.02 (1)			
2-3	-193 / 0	-77.3	-77.3 0.03 (1)	6.25	2-8	-61 / 0 0.02 (1)			
3-4	-190 / 0	-77.3	-77.3 0.04 (1)	6.25	7-4	-80 / 3 0.01 (1)			
4-5	-233 / 0	-77.3	-77.3 0.04 (1)	6.25	1-9	0 / 183 0.04 (1)			
10-1	-325 / 0	0.0	0.0 0.06 (1)	7.81	7-5	0 / 208 0.05 (1)			
6-5	-329 / 0	0.0	0.0 0.04 (1)	7.81	8-3	0 / 151 0.03 (1)			
					8-4	-78 / 0 0.02 (1)			
10-9	0 / 0	-17.5	-17.5 0.02 (4)	10.00					
9-8	0 / 147	-17.5	-17.5 0.03 (1)	10.00					
8-7	0 / 178	-17.5	-17.5 0.04 (1)	10.00					
7-6	0 / 0	-17.5	-17.5 0.01 (4)	10.00					

DESIGN CRITERIA									
SPECIFIED LOADS:									
TOP CH.	LL	=	23.3	PSF					
	DL	=	3.0	PSF					
BOT CH.	LL	=	0.0	PSF					
	DL	=	7.0	PSF					
TOTAL LOAD				=	33.3	PSF			
SPACING = 24.0 IN./C/C									
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010									
THIS DESIGN COMPLIES WITH:									
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014									
- CSA 086-09									
- TPIC 2011									
(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 (0.24")									
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")									
ALLOWABLE DEFL.(TL)= L/360 (0.24")									
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")									
CSI: TC=0.06 (1-10:1) , BC=0.04 (7-8:1) , WB=0.05 (5-7:1) , SSI=0.06 (3-4:1)									
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10									
COMP=1.10 SHEAR=1.10 TENS= 1.10									
COMPANION LIVE LOAD FACTOR = 0.50									
AUTOSOLVE HEELS OFF									
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .									
NAIL VALUES									
PLATE GRIP(DRY) SHEAR SECTION									
(PSI)	(PLI)	(PLI)							
MAX MIN	MAX MIN	MAX MIN							
MT20	618	354	1667	822	2284	1656			
PLATE PLACEMENT TOL. = 0.250 inches									
PLATE ROTATION TOL. = 5.0 Deg.									
JSI GRIP= 0.48 (3) (INPUT = 0.90)									
JSI METAL= 0.08 (6) (INPUT = 1.00)									

RECEIVED

TOWN OF MILTON

MAR 29, 2017

17-5187

BUILDING DIVISION

READ ALL NOTES ON THIS PAGE AND ON THE

ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE

IS AN INTEGRAL PART OF THIS DRAWING AS IT

CONTAINS SPECIFICATIONS AND CRITERIA USED

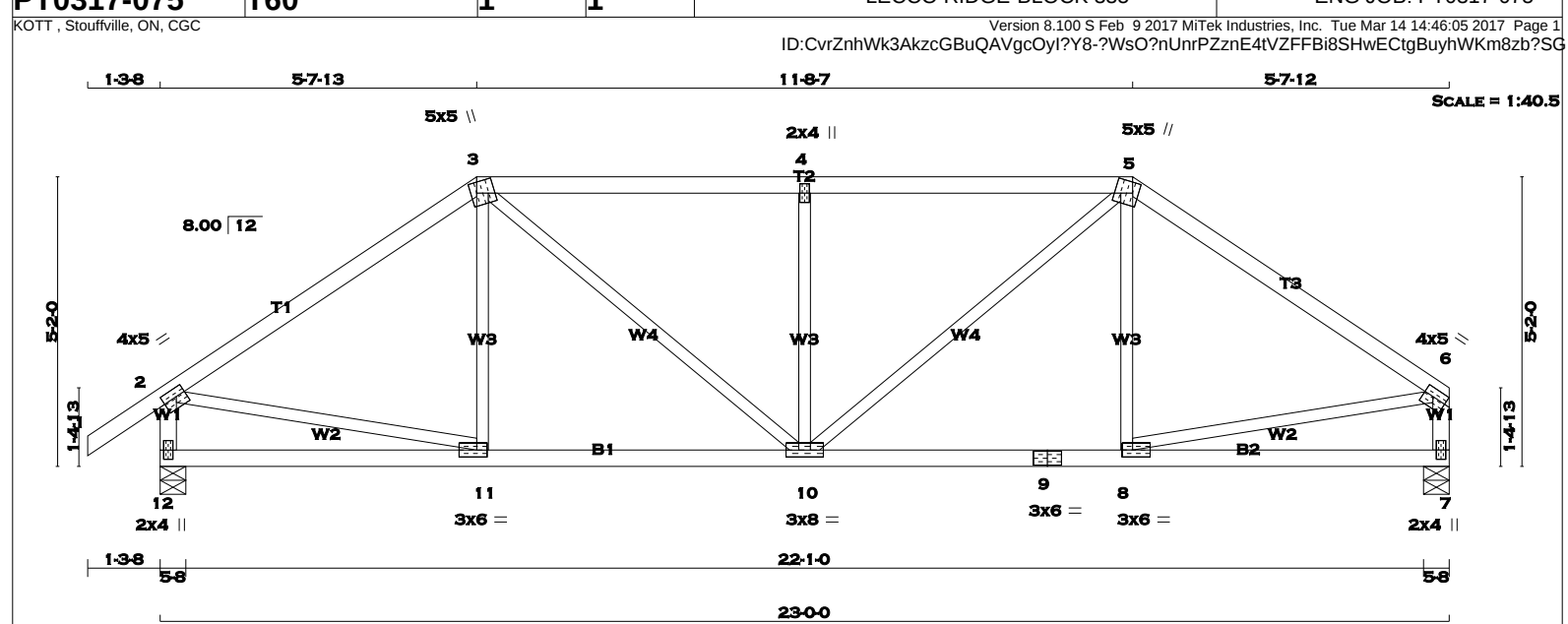
IN THE DESIGN OF THIS COMPONENT.



KOTT , Stouffville, ON, CGC

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Tue Mar 14 14:46:05 2017 Page 1

ENG JOB: PT0317-075



LUMBER

N. L. G. A. RULES

CHORDS

SIZE

LUMBER

DESCR.

1 - 3

2x4

DRY

No.2

SPF

3 - 5

2x4

DRY

No.2

SPF

5 - 6

2x4

DRY

No.2

SPF

12 - 2

2x4

DRY

No.2

SPF

7 - 6

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

DRY: SEASONED LUMBER.

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

VERT

HORZ

DOWN

HORZ

UPLIFT

IN-SX

IN-SX

12

1197

0

1197

0

0

5-8

5-8

7

1091

0

1091

0

0

5-8

5-8

UNFACTORED REACTIONS

1ST LCASE

MAX/MIN. COMPONENT REACTIONS

12

838

599 / 0

0 / 0

0 / 0

0 / 0

238 / 0

0 / 0

7

765

535 / 0

0 / 0

0 / 0

0 / 0

230 / 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 = 4.91 FT.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS

MAX. FACTORED

FACTORED

VERT. LOAD

LC1

MAX

MEMB.

FORCE

(LBS)

(PLF)

CSI (LC)

UNBRAC

LENGTH

FR-TO

1-2

0 / 29

-77.3

-77.3

0.10 (1)

10.00

11-3

-67 / 73

0.03 (1)

2-3

-1168 / 0

-77.3

-77.3

0.50 (1)

5.24

3-10

0 / 505

0.11 (1)

3-4

-1358 / 0

-77.3

-77.3

0.50 (1)

4.91

10-4

-554 / 0

0.22 (1)

4-5

-1358 / 0

-77.3

-77.3

0.50 (1)

4.91

10-5

0 / 505

0.11 (1)

5-6

-1168 / 0

-77.3

-77.3

0.50 (1)

5.24

8-5

-67 / 73

0.03 (1)

12-2

-1157 / 0

0.0

0.0

0.12 (1)

7.40

2-11

0 / 988

0.22 (1)

7-6

-1051 / 0

0.0

0.0

0.11 (1)

7.68

8-6

0 / 988

0.22 (1)

12-11

0 / 0

-17.5

-17.5

0.14 (4)

10.00

11-10

0 / 969

-17.5

-17.5

0.23 (1)

10.00

10-9

0 / 969

-17.5

-17.5

0.24 (1)

10.00

9-8

0 / 969

-17.5

-17.5

0.24 (1)

10.00

8-7

0 / 0

-17.5

-17.5

0.14 (4)

10.00

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.

LL

=

23.3

PSF

DL

=

3.0

PSF

BOT CH.

LL

=

0.0

PSF

DL

=

7.0

PSF

TOTAL LOAD

=

33.3

PSF

SPACING

=

24.0

IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

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 (0.77")

CALCULATED VERT. DEFL.(LL) = L/999 (0.05")

ALLOWABLE DEFL.(TL)= L/360 (0.77")

CALCULATED VERT. DEFL.(TL) = L/999 (0.08")

CSI: TC=0.50 (4-5:1), BC=0.24 (8-10:1), WB=0.22 (6-8:1), SSI=0.22 (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)

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 (8) (INPUT = 0.90)

JSI METAL= 0.40 (2) (INPUT = 1.00)

N. L. G. A. RULES					BUILDING DESIGNER					DESIGN CRITERIA					
CHORDS		SIZE		LUMBER	DESCR.	BEARINGS					SPECIAL LOADS:				
						FACTORED		MAXIMUM FACTORED		INPUT		REQRD			
						GROSS REACTION		GROSS REACTION		BRG		BRG			
						JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
1 - 3	2x4	DRY	No.2	SPF		12	1197	0	1197	0	0	5-8	5-8		
3 - 5	2x4	DRY	No.2	SPF		7	1091	0	1091	0	0	5-8	5-8		
5 - 6	2x4	DRY	No.2	SPF											
12 - 2	2x4	DRY	No.2	SPF											
7 - 6	2x4	DRY	No.2	SPF											
12 - 9	2x4	DRY	No.2	SPF											
9 - 7	2x4	DRY	No.2	SPF											
ALL WEBS EXCEPT					2x3	DRY	No.2	SPF	UNFACTORED REACTIONS						
										SPACING = 24.0 IN. C/C					
										LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12					

DRY: SEASONED LUMBER.

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.91 FT.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS

MAX. FACTORED

FACTORED

VERT. LOAD

LC1

MAX

MEMB.

FORCE

(LBS)

(PLF)

CSI (LC)

UNBRAC

LENGTH

FR-TO

1-2

0 / 29

-77.3

-77.3

0.10 (1)

10.00

11-3

-67 / 73

0.03 (1)

2-3

-1168 / 0

-77.3

-77.3

0.50 (1)

5.24

3-10

0 / 505

0.11 (1)

3-4

-1358 / 0

-77.3

-77.3

0.50 (1)

4.91

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOCK TL20 PLATES IS ALLOWED.

PLATES (table is in inches)

W

LEN

Y

X

2 TMVW-t MT20

4.0

5.0

1.75

2.00

3 TTWW+m MT20

5.0

5.0

2.25

1.25

4 TMW+w MT20

2.0

4.0

5 TTWW+m MT20

5.0

5.0

2.25

1.25

6 TMVW-t MT20

4.0

5.0

1.75

Edge

7 BMV1+p MT20

2.0

4.0

8 BMWW-t MT20

3.0

6.0

1.50

2.25

9 BS-t MT20

3.0

6.0

10 BMWWW-t MT20

3.0

8.0

11 BMWW-t MT20

3.0

6.0

1.50

2.25

12 BMV1+p MT20

2.0

4.0

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOCK TL20 PLATES IS ALLOWED.

PLATES (table is in inches)

W

LEN

Y

X

2 TMVW-t MT20

4.0

5.0

1.75

2.00

3 TTWW+m MT20

5.0

5.0

2.25

1.25

4 TMW+w MT20

2.0

4.0

5 TTWW+m MT20

5.0

5.0

2.25

1.25

6 TMVW-t MT20

4.0

5.0

1.75

Edge

7 BMV1+p MT20

2.0

4.0

8 BMWW-t MT20

3.0

6.0

1.50

2.25

9 BS-t MT20

3.0

6.0

10 BMWWW-t MT20

3.0

8.0

11 BMWW-t MT20

3.0

6.0

1.50

2.25

12 BMV1+p MT20

2.0

4.0

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOCK TL20 PLATES IS ALLOWED.

PLATES (table is in inches)

W

LEN

Y

X

2 TMVW-t MT20

4.0

5.0

1.75

2.00

3 TTWW+m MT20

5.0

5.0

2.25

1.25

4 TMW+w MT20

2.0

4.0

5 TTWW+m MT20

5.0

5.0

2.25

1.25

6 TMVW-t MT20

4.0

5.0

1.75

Edge

7 BMV1+p MT20

2.0

4.0

8 BMWW-t MT20

3.0

6.0

1.50

2.25

9 BS-t MT20

3.0

6.0

10 BMWWW-t MT20

3.0

8.0

11 BMWW-t MT20

3.0

6.0

1.50

2.25

12 BMV1+p MT20

2.0

4.0

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOCK TL20 PLATES IS ALLOWED.

PLATES (table is in inches)

W

LEN

Y

X

2 TMVW-t MT20

4.0

5.0

1.75

2.00

3 TTWW+m MT20

5.0

5.0

2.25

1.25

4 TMW+w MT20

2.0

4.0

5 TTWW+m MT20

5.0

5.0

2.25

1.25

6 TMVW-t MT20

4.0

5.0

1.75

Edge

7 BMV1+p MT20

2.0

4.0

8 BMWW-t MT20

3.0

6.0

1.50

2.25

9 BS-t MT20

3.0

6.0

10 BMWWW-t MT20

3.0

8.0

11 BMWW-t MT20

3.0

6.0

1.50

2.25

12 BMV1+p MT20

2.0

4.0

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOCK TL20 PLATES IS ALLOWED.

PLATES (table is in inches)

W

LEN

Y

X

2 TMVW-t MT20

4.0

5.0

1.75

2.00

3 TTWW+m MT20

5.0

5.0

2.25

1.25

4 TMW+w MT20

2.0

4.0

5 TTWW+m MT20

5.0

5.0

2.25

1.25

6 TMVW-t MT20

4.0

5.0

1.75

Edge

7 BMV1+p MT20

2.0

4.0

8 BMWW-t MT20

3.0

6.0

1.50

2.25

9 BS-t MT20

3.0

6.0

10 BMWWW-t MT20

3.0

8.0

11 BMWW-t MT20

3.0

6.0

1.50

2.25

12 BMV1+p MT20

2.0

4.0

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOCK TL20 PLATES IS ALLOWED.

PLATES (table is in inches)

W

LEN

Y

X

2 TMVW-t MT20

4.0

5.0

1.75

2.00

3 TTWW+m MT20

5.0

5.0

2.25

1.25

4 TMW+w MT20

2.0

4.0

5 TTWW+m MT20

5.0

5.0

2.25

1.25

6 TMVW-t MT20

4.0

5.0

1.75

Edge

7 BMV1+p MT20

2.0

4.0

8 BMWW-t MT20

3.0

6.0

1.50

2.25

9 BS-t MT20

3.0

6.0

10 BMWWW-t MT20

3.0

8.0

11 BMWW-t MT20

3.0

6.0

1.50

2.25

12 BMV1+p MT20

2.0

4.0

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOCK TL20 PLATES IS ALLOWED.

PLATES (table is in inches)

W

LEN

Y

X

2 TMVW-t MT20

4.0

5.0

1.75

2.00

3 TTWW+m MT20

5.0

5.0

2.25

1.25

4 TMW+w MT20

2.0

4.0

5 TTWW+m MT20

5.0

5.0

2.25

1.25

6 TMVW-t MT20

4.0

5.0

1.75

Edge

7 BMV1+p MT20

2.0

4.0

8 BMWW-t MT20

3.0

6.0

1.50

2.25

9 BS-t MT20

3.0

6.0

10 BMWWW-t MT20

3.0

8.0

11 BMWW-t MT20

3.0

6.0

1.50

2.25

12 BMV1+p MT20

2.0

4.0

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOCK TL20 PLATES IS ALLOWED.

PLATES (table is in inches)

W

LEN

Y

X

2 TMVW-t MT20

4.0

5.0

1.75

2.00

3 TTWW+m MT20

5.0

5.0

2.25

1.25

4 TMW+w MT20

2.0

4.0

5 TTWW+m MT20

5.0

5.0

2.25

1.25

6 TMVW-t MT20

4.0

5.0

1.75

Edge

7 BMV1+p MT20

2.0

4.0

8 BMWW-t MT20

3.0

6.0

1.50

2.25

9 BS-t MT20

3.0

6.0

10 BMWWW-t MT20

3.0

8.0

11 BMWW-t MT20

3.0

6.0

1.50

2.25

12 BMV1+p MT20

2.0

4.0

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOCK TL20 PLATES IS ALLOWED.

PLATES (table is in inches)

W

LEN

Y

X

2 TMVW-t MT20

4.0

5.0

1.75

2.00

3 TTWW+m MT20

5.0

5.0

2.25

1.25

4 TMW+w MT20

2.0

4.0

5 TTWW+m MT20

5.0

5.0

2.25

1.25

6 TMVW-t MT20

4.0

5.0

1.75

Edge

7 BMV1+p MT20

2.0

4.0

8 BMWW-t MT20

3.0

6.0

1.50

2.25

9 BS-t MT20

3.0

6.0

10 BMWWW-t MT20

3.0

8.0

11 BMWW-t MT20

3.0

6.0

1.50

2.25

12 BMV1+p MT20

2.0

4.0

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOCK TL20 PLATES IS ALLOWED.

PLATES (table is in inches)

W

LEN

Y

X

2 TMVW-t MT20

4.0

5.0

1.75

2.00

3 TTWW+m MT20

5.0

5.0

2.25

1.25

4 TMW+w MT20

2.0

4.0

5 TTWW+m MT20

5.0

5.0

2.25

1.25

6 TMVW-t MT20

4.0

5.0

1.75

Edge

7 BMV1+p MT20

2.0

4.0

8 BMWW-t MT20

3.0

6.0

1.50

2.25

9 BS-t MT20

3.0

6.0

10 BMWWW-t MT20

3.0

8.0

11 BMWW-t MT20

3.0

6.0

1.50

2.25

12 BMV1+p MT20

2.0

4.0

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOCK TL20 PLATES IS ALLOWED.

PLATES (table is in inches)

W

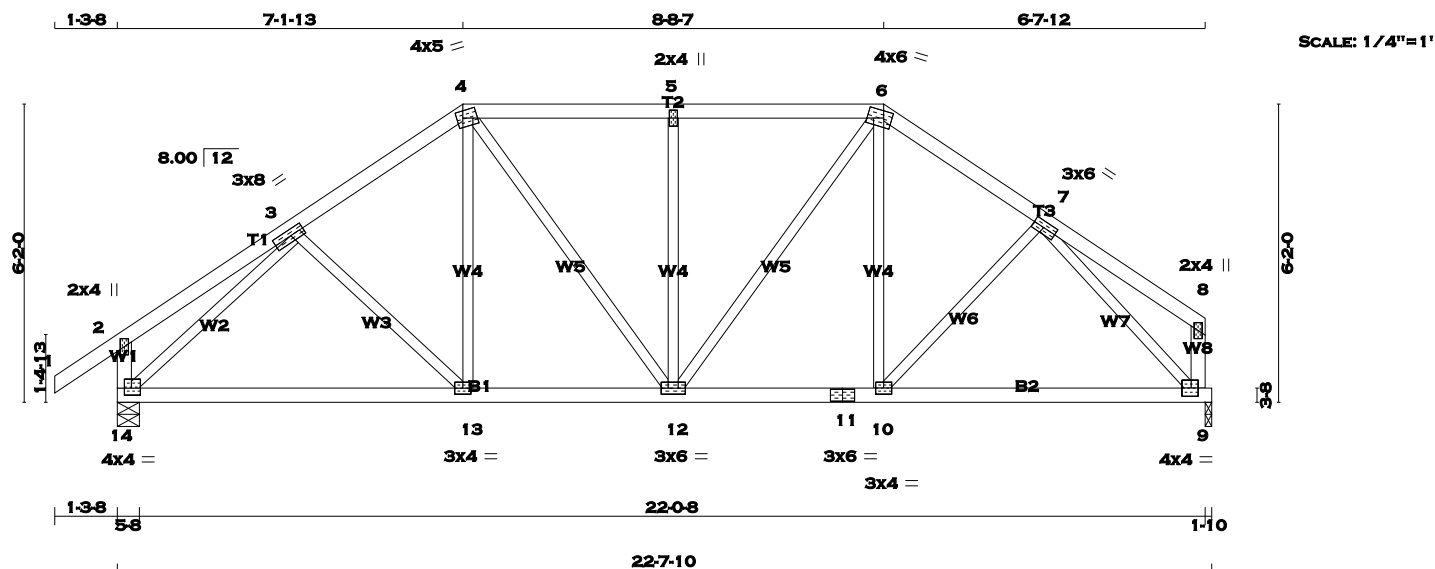
LEN

Y

X

2 TMVW-t MT20

4.0



TOTAL WEIGHT = 99 lb

LUMBER					
N. L. G. A. RULES					
CHORDS		SIZE	LUMBER	DESCR.	
1 -	4	2x4	DRY	No.2	SPF
4 -	6	2x4	DRY	No.2	SPF
6 -	8	2x4	DRY	No.2	SPF
14 -	2	2x4	DRY	No.2	SPF
9 -	8	2x4	DRY	No.2	SPF
14 -	11	2x4	DRY	No.2	SPF
11 -	9	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT		2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.					

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQ'D BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
14	1173	0	1173	0	0	5-8	5-8
9	1067	0	1067	0	0	1-10	1-10

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
14	821	588 / 0	0 / 0	0 / 0	0 / 0	233 / 0	0 / 0
9	749	524 / 0	0 / 0	0 / 0	0 / 0	225 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 14, 9

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.90 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)

C H O R D S				W E B S				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED MAX CSI (LC)	
FR-TO		FROM TO		LENGTH	FR-TO			
1-2	0/29	-77.3	-77.3	0.10 (1)	10.00	3-13	-48 / 34	0.02 (1)
2-3	0/17	-77.3	-77.3	0.15 (1)	10.00	13-4	0/165	0.04 (4)
3-4	-1100/0	-77.3	-77.3	0.13 (1)	5.90	4-12	0/246	0.06 (1)
4-5	-1049/0	-77.3	-77.3	0.19 (1)	5.92	12-6	-408/0	0.25 (1)
5-6	-1049/0	-77.3	-77.3	0.19 (1)	5.92	12-6	0/308	0.07 (1)
6-7	-1056/0	-77.3	-77.3	0.11 (1)	6.01	10-6	0/101	0.03 (4)
7-8	0/15	-77.3	-77.3	0.13 (1)	10.00	10-7	0/54	0.02 (4)
14-2	-214/0	0.0	0.0	0.02 (1)	7.81	14-3	-1303/0	0.51 (1)
9-8	-101/0	0.0	0.0	0.01 (1)	7.81	7-9	-1244/0	0.48 (1)
14-13	0/935	-17.5	-17.5	0.26 (4)	10.00			
13-12	0/903	-17.5	-17.5	0.27 (4)	10.00			
12-11	0/866	-17.5	-17.5	0.24 (4)	10.00			
11-10	0/866	-17.5	-17.5	0.24 (4)	10.00			
10-9	0/840	-17.5	-17.5	0.23 (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 6.00/12

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 (0.75")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.75")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.10")

CSI: TC=0.19 (4-5:1) , BC=0.27 (12-13:4) ,
WB=0.51 (3-14:1) , SSI=0.16 (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.

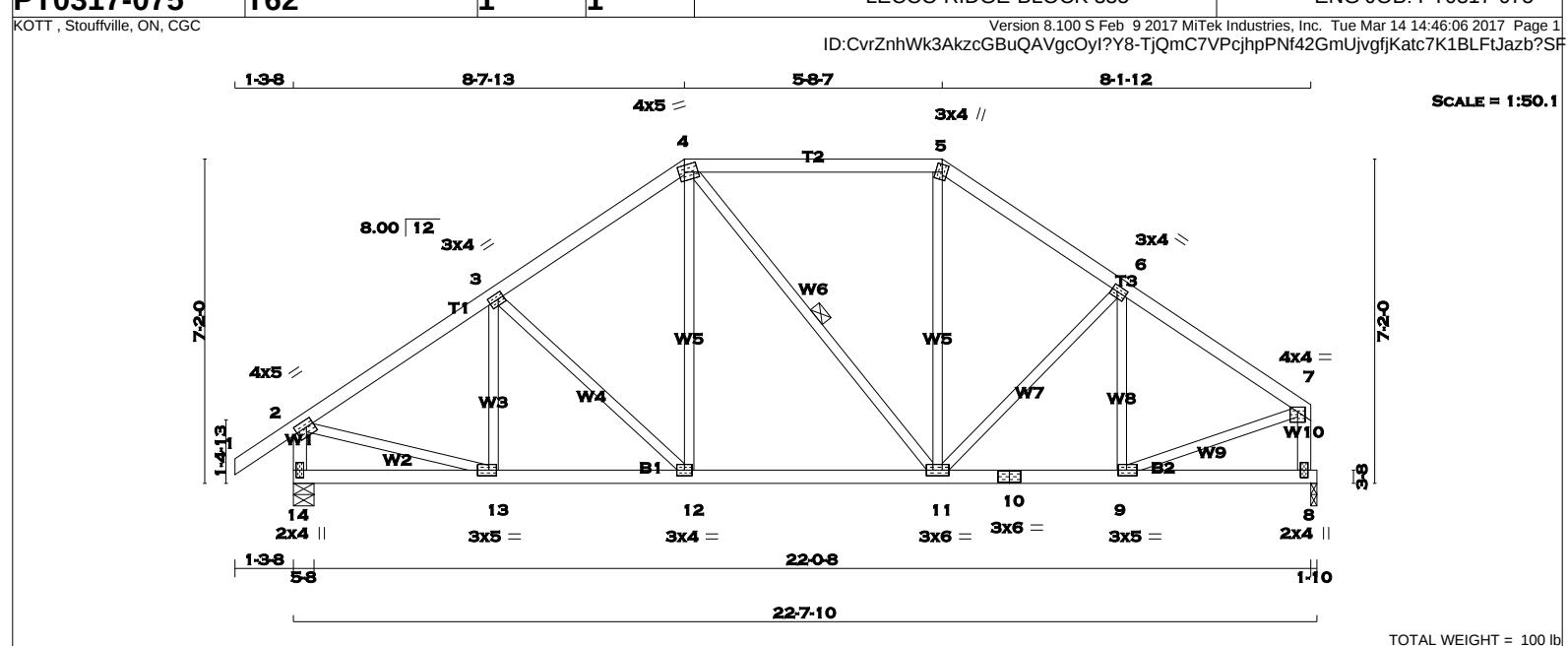
JSI GRIP= 0.90 (4) (INPUT = 0.90)
JSI METAL= 0.35 (14) (INPUT = 1.00)



RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5187
BUILDING DIVISION

**READ ALL NOTES ON THIS PAGE AND ON THE
ENGINEERING NOTE PAGE ENP-1. THE 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 - 5

2x4

DRY

No.2

SPF

5 - 7

2x4

DRY

No.2

SPF

14 - 2

2x4

DRY

No.2

SPF

8 - 7

2x4

DRY

No.2

SPF

14 - 10

2x4

DRY

No.2

SPF

10 - 8

2x4

DRY

No.2

SPF

ALL WEBS

2x3

DRY

No.2

SPF

EXCEPT

DRY: SEASONED LUMBER.

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

BEARINGS

FACTORED

GROSS REACTION

MAXIMUM FACTORED

INPUT

REQRD

JT

VERT

HORZ

DOWN

HORZ

UPLIFT

IN-SX

BRG

BRG

14

1173

0

1173

0

0

5-8

5-8

8

1067

0

1067

0

0

1-10

1-10

UNFACTORED REACTIONS

1ST LCASE

MAX/MIN. COMPONENT REACTIONS

JT

COMBINED

SNOW

LIVE

PERM.LIVE

WIND

DEAD

SOIL

14

821

588 / 0

0 / 0

0 / 0

233 / 0

0 / 0

8

749

524 / 0

0 / 0

0 / 0

225 / 0

0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.69 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 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-11. DBS = 20-0-0 . CBF = 4 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. 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

MAX. FACTORED

FACTORED

WEBS

MAX. FACTORED

MEMB.

FORCE

VERT. LOAD

LC1

MAX

MAX.

MEMB.

FORCE

MAX

FR-TO

(LBS)

(PLF)

CSI (LC)

UNBRAC

LENGTH

FR-TO

(LBS)

CSI (LC)

1-2

0 / 29

-77.3

-77.3

0.10 (1)

10.00

13-3

-163 / 21

0.05 (1)

2-3

-1167 / 0

-77.3

-77.3

0.20 (1)

5.69

3-12

-216 / 0

0.13 (1)

3-4

-1022 / 0

-77.3

-77.3

0.19 (1)

5.98

12-4

0 / 236

0.05 (1)

4-5

-815 / 0

-77.3

-77.3

0.33 (1)

6.25

4-11

-30 / 0

0.02 (1)

5-6

-998 / 0

-77.3

-77.3

0.17 (1)

6.06

11-5

0 / 208

0.05 (1)

6-7

-1067 / 0

-77.3

-77.3

0.17 (1)

5.91

11-6

-134 / 0

0.08 (1)

14-2

-1139 / 0

0.0

0.0

0.12 (1)

7.45

9-6

-234 / 0

0.07 (1)

8-7

-1035 / 0

0.0

0.0

0.11 (1)

7.72

2-13

0 / 1017

0.23 (1)

14-13

0 / 0

-17.5

-17.5

0.07 (4)

10.00

9-7

0 / 955

0.21 (1)

13-12

0 / 988

-17.5

-17.5

0.21 (1)

10.00

12-11

0 / 834

-17.5

-17.5

0.18 (1)

10.00

11-10

0 / 905

-17.5

-17.5

0.20 (1)

10.00

10-9

0 / 905

-17.5

-17.5

0.20 (1)

10.00

9-8

0 / 0

-17.5

-17.5

0.06 (4)

10.00

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 23.3 PSF

DL = 3.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.0 PSF

TOTAL LOAD = 33.3 PSF

SPACING = 24.0 IN./C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

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 (0.75")

CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")

ALLOWABLE DEFL.(TL)= L/360 (0.75")

CALCULATED VERT. DEFL.(TL) = L/ 999 (0.06")

CSI: TC=0.33 (4-5:1) , BC=0.21 (12-13:1) , WB=0.23 (2-13:1) , SSI=0.17 (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= 0.88 (9) (INPUT = 0.90)

JSI METAL= 0.40 (2) (INPUT = 1.00)

PLATES (table is in inches)

JT

TYPE

PLATES

W

LEN

Y

X

2

TMVW-t

MT20

4.0

5.0

1.75

2.00

3

TMVW-t

MT20

3.0

4.0

1.50

1.50

4

TTWW-m

MT20

4.0

5.0

1.75

1.50

5

TTW+m

MT20

3.0

4.0

2.00

1.25

6

TMVW-t

MT20

3.0

4.0

1.50

1.50

7

TMVW-p

MT20

4.0

4.0

1.25

2.00

8

BMV1+p

MT20

2.0

4.0

9

BMVW-t

MT20

3.0

5.0

1.50

2.25

10

BS-t

MT20

3.0

6.0

11

BMVW-t

MT20

3.0

6.0

12

BMVW-t

MT20

3.0

4.0

13

BMVW-t

MT20

3.0

5.0

1.50

2.00

14

BMV1+p

MT20

2.0

4.0

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

CHORDS

MAX. FACTORED

FACTORED

WEBS

MAX. FACTORED

MEMB.

FORCE

VERT. LOAD

LC1

MAX

MAX.

MEMB.

FORCE

MAX

FR-TO

(LBS)

(PLF)

CSI (LC)

UNBRAC

LENGTH

FR-TO

(LBS)

CSI (LC)

1-2

0 / 29

-77.3

-77.3

0.10 (1)

10.00

13-3

-163 / 21

0.05 (1)

2-3

-1167 / 0

-77.3

-77.3

0.20 (1)

5.69

3-12

-216 / 0

0.13 (1)

3-4

-1022 / 0

-77.3

-77.3

0.19 (1)

5.98

12-4

0 / 236

0.05 (1)

4-5

-815 / 0

-77.3

-77.3

0.33 (1)

6.25

4-11

-30 / 0

0.02 (1)

5-6

-998 / 0

-77.3

-77.3

0.17 (1)

6.06

11-5

0 / 208

0.05 (1)

6-7

-1067 / 0

-77.3

-77.3

0.17 (1)

5.91

11-6

-134 / 0

0.08 (1)

14-2

-1139 / 0

0.0

0.0

0.12 (1)

7.45

9-6

-234 / 0

0.07 (1)

8-7

-1035 / 0

0.0

0.0

0.11 (1)

7.72

2-13

0 / 1017

0.23 (1)

14-13

0 / 0

-17.5

-17.5

0.07 (4)

10.00

9-7

0 / 955

0.21 (1)

13-12

0 / 988

-17.5

-17.5

0.21 (1)

10.00

12-11

0 / 834

-17.5

-17.5

0.18 (1)

10.00

11-10

0 / 905

-17.5

-17.5

0.20 (1)

10.00

10-9

0 / 905

-17.5

-17.5

0.20 (1)

10.00

9-8

0 / 0

-17.5

-17.5

0.06 (4)

10.00

LICENSED PROFESSIONAL ENGINEER

P. J. TREVISAN

100136551

March 14th, 2017

PROVINCE OF ONTARIO

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TOWN OF MILTON

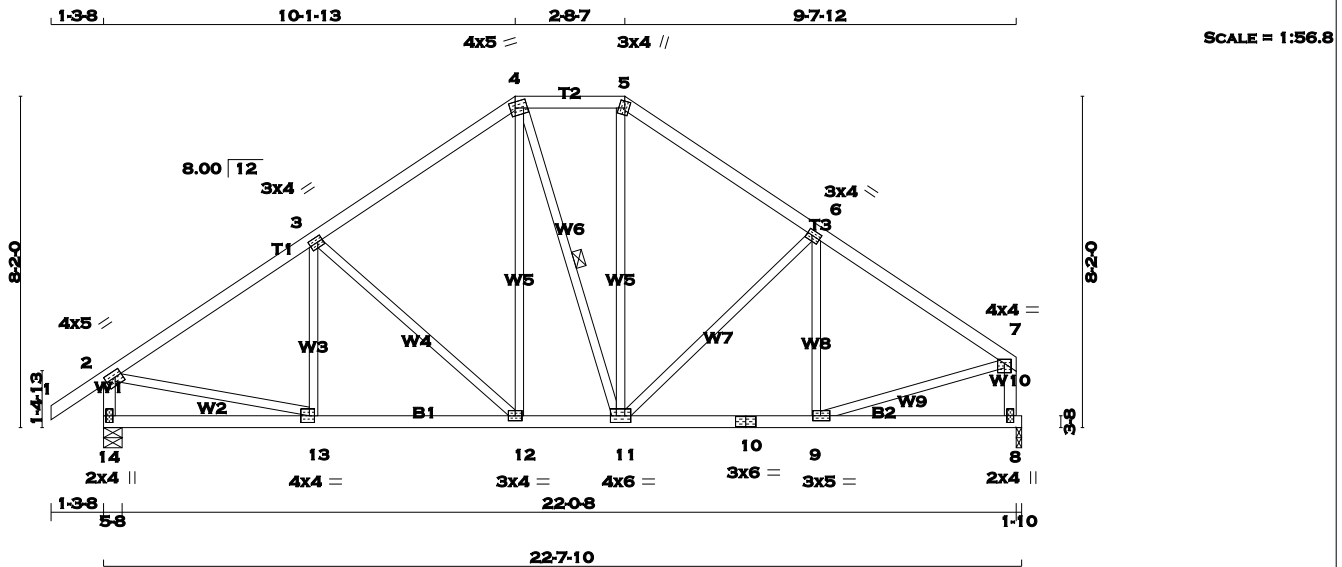
MAR 29, 2017

17-5187

BUILDING DIVISION

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

KOTT



TOTAL WEIGHT = 105 lb
 [M][F]

LUMBER		N. L. G. A. RULES		LUMBER	DESCR.
CHORDS	SIZE	CHORDS	SIZE		
1 - 4	2x4	DRY	No.2	SPF	
4 - 5	2x4	DRY	No.2	SPF	
5 - 7	2x4	DRY	No.2	SPF	
14 - 2	2x4	DRY	No.2	SPF	
8 - 7	2x4	DRY	No.2	SPF	
14 - 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
2	TMVW-t	MT20	4.0	5.0	1.75 2.00
3	TMVW-t	MT20	3.0	4.0	1.50 1.50
4	TTWW-m	MT20	4.0	5.0	1.75 1.50
5	TTWW-m	MT20	3.0	4.0	2.00 1.25
6	TMVW-t	MT20	3.0	4.0	1.50 1.50
7	TMVW-p	MT20	4.0	4.0	1.25 2.00
8	BMV1-p	MT20	2.0	4.0	
9	BMVW-t	MT20	3.0	5.0	1.50 2.25
10	BS-t	MT20	3.0	6.0	
11	BMVW-t	MT20	4.0	6.0	
12	BMVW-t	MT20	3.0	4.0	
13	BMVW-t	MT20	4.0	4.0	2.00 1.50
14	BMV1-p	MT20	2.0	4.0	

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.



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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	GROSS REACTION	GROSS REACTION	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
14	1173	0	1173	0	0	5-8	5-8		
8	1067	0	1067	0	0	1-10	1-10		

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX/MIN.	COMPONENT	REACTIONS			
14	821	588 / 0	LIVE	PERM. LIVE	WIND	DEAD	SOIL
8	749	524 / 0	0 / 0	0 / 0	0 / 0	233 / 0	0 / 0

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

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.57 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 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-11. DBS = 20-0-0, CBF = 3 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. 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. FACTORED LC1 MAX. (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED UNBRAC LENGTH (LC)	MAX. FACTORED LC1 MAX. (LC)
FR-TO		FROM TO		FR-TO			
1-2	0 / 29	-77.3 -77.3	0.10 (1)	10.00	13-3	-106 / 56	0.04 (1)
2-3	-1177 / 0	-77.3 -77.3	0.28 (1)	5.57	3-12	-329 / 0	0.28 (1)
3-4	-936 / 0	-77.3 -77.3	0.26 (1)	6.08	12-4	0 / 278	0.06 (1)
4-5	-752 / 0	-77.3 -77.3	0.08 (1)	6.25	4-11	-22 / 0	0.01 (1)
5-6	-926 / 0	-77.3 -77.3	0.24 (1)	6.14	11-5	0 / 260	0.06 (1)
6-7	-1090 / 0	-77.3 -77.3	0.25 (1)	5.77	11-6	-250 / 0	0.21 (1)
14-2	-1136 / 0	0.0 0.0	0.12 (1)	7.45	9-6	-171 / 32	0.06 (1)
8-7	-1031 / 0	0.0 0.0	0.11 (1)	7.73	2-13	0 / 1022	0.23 (1)
					9-7	0 / 965	0.22 (1)
14-13	0 / 0	-17.5 -17.5	0.12 (4)	10.00			
13-12	0 / 1000	-17.5 -17.5	0.22 (1)	10.00			
12-11	0 / 759	-17.5 -17.5	0.15 (1)	10.00			
11-10	0 / 927	-17.5 -17.5	0.20 (1)	10.00			
10-9	0 / 927	-17.5 -17.5	0.20 (1)	10.00			
9-8	0 / 0	-17.5 -17.5	0.20 (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 6.00/12

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 (0.75")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
 ALLOWABLE DEFL.(TL)= L/360 (0.75")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.06")

CSI: TC=0.28 (2-3:1), BC=0.22 (12-13:1), WB=0.28 (3-12:1), SSI=0.16 (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

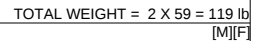
PLATE ROTATION TOL. = 5.0 Deg.

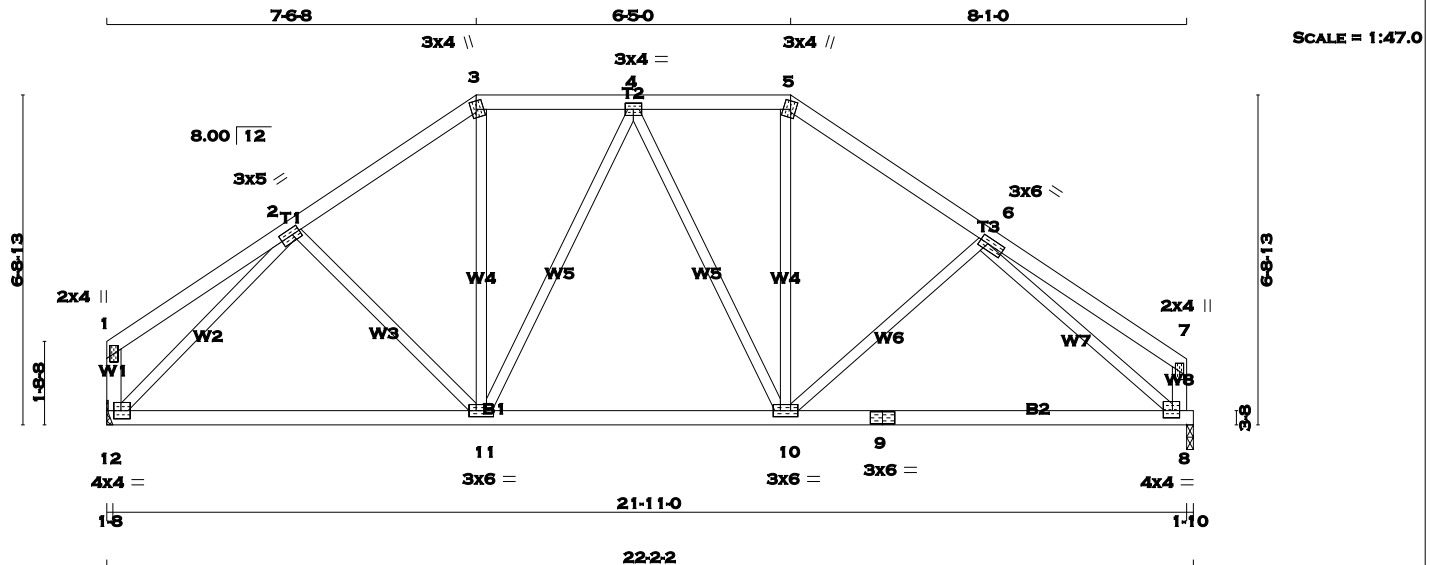
JSI GRIP= 0.90 (7) (INPUT = 0.90)
 JSI METAL= 0.40 (2) (INPUT = 1.00)

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TOTAL WEIGHT = 95 lb
[M][F]

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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
1	TMV+p	MT20	2.0	4.0		
2	TMWW-t	MT20	3.0	5.0	1.50	2.00
3	TTW+m	MT20	3.0	4.0	2.00	1.25
4	TMWW-t	MT20	3.0	4.0		
5	TTW+m	MT20	3.0	4.0	2.00	1.25
6	TMWW-t	MT20	3.0	6.0	1.50	2.00
7	TMV+p	MT20	2.0	4.0		
8	BMVW1-t	MT20	4.0	4.0	1.75	1.75
9	BS-t	MT20	3.0	6.0		
10	BMWWW-t	MT20	3.0	6.0		
11	BMWWW-t	MT20	3.0	6.0		
12	BMVW1-t	MT20	4.0	4.0	2.00	1.75

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT		REQRD	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	BRG	IN-SX	BRG	IN-SX
12	1045	0	1045	0	0		HANGER BY OTHERS		
8	1045	0	1045	0	0	1-10	1-10		

UNFACTORED REACTIONS							
	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
12	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0
8	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 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 = 5.99 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	FACTORED	VERT. LOAD	LC1 MAX	MAX.	MEMB.	MAX. FACTORED	FORCE	MAX
FR-TO	FORCE (LBS)	PLF	CSI (LC)	UNBRAC	FR-TO	FORCE (LBS)	MAX	CSI (LC)	
		FROM	TO	LENGTH					
1-2	0 / 18	-77.3	-77.3	0.17 (1)	10.00	2-11	-41 / 38	0.02 (1)	
2-3	-1002 / 0	-77.3	-77.3	0.14 (1)	6.09	11-3	0 / 334	0.08 (1)	
3-4	-823 / 0	-77.3	-77.3	0.10 (1)	6.25	11-4	-195 / 0	0.19 (1)	
4-5	-850 / 0	-77.3	-77.3	0.10 (1)	6.25	4-10	-132 / 0	0.13 (1)	
5-6	-1036 / 0	-77.3	-77.3	0.16 (1)	5.99	10-5	0 / 343	0.08 (1)	
6-7	0 / 19	-77.3	-77.3	0.20 (1)	10.00	10-6	-127 / 19	0.07 (1)	
12-1	-113 / 0	0.0	0.0	0.01 (1)	7.81	12-2	-1218 / 0	0.58 (1)	
8-7	-121 / 0	0.0	0.0	0.01 (1)	7.81	6-8	-1276 / 0	0.63 (1)	
12-11	0 / 847	-17.5	-17.5	0.26 (4)	10.00				
11-10	0 / 907	-17.5	-17.5	0.30 (4)	10.00				
10-9	0 / 939	-17.5	-17.5	0.30 (4)	10.00				
9-8	0 / 939	-17.5	-17.5	0.30 (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 6.00/12

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 (0.73")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.14")

CSI: TC=0.20 (6-7:1) , BC=0.30 (10-11:4) , WB=0.63 (6-8:1) , SSI=0.12 (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
MT20	618	354	1667
		822	2284
			1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

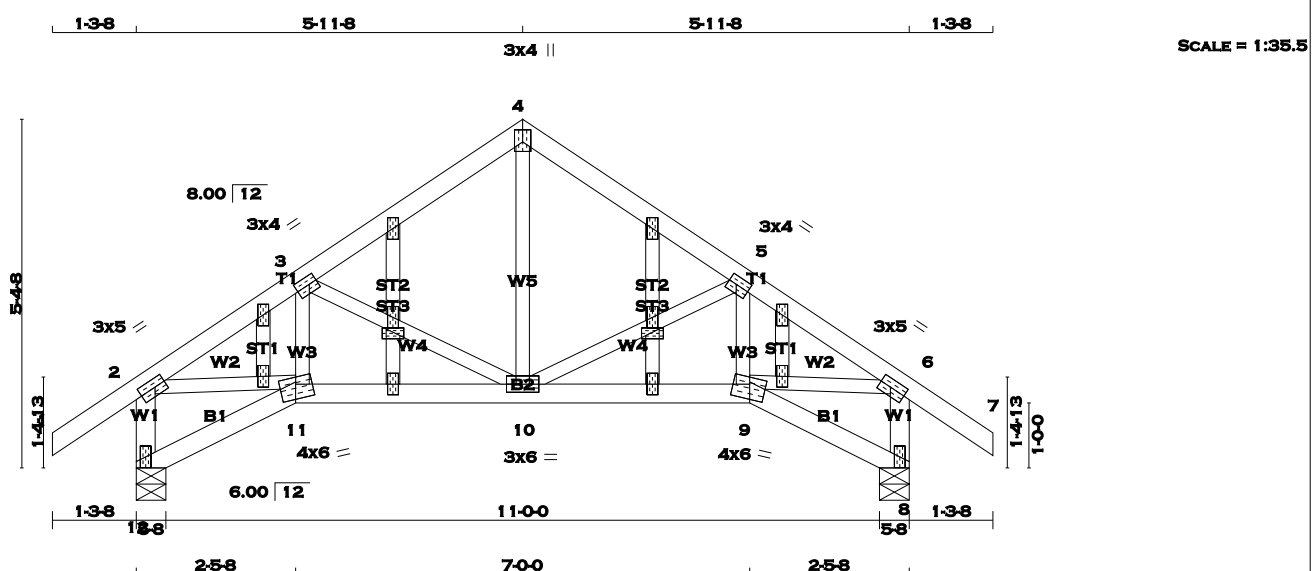
JSI GRIP= 0.90 (2) (INPUT = 0.90)
JSI METAL= 0.35 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 58 lb

LUMBER				N. L. G. A. RULES	
CHORDS	SIZE	LUMBER	DESCR.	SPF	
1 - 4	2x4	DRY	No.2	SPF	
4 - 7	2x4	DRY	No.2	SPF	
12 - 2	2x4	DRY	No.2	SPF	
8 - 6	2x4	DRY	No.2	SPF	
12 - 11	2x4	DRY	No.2	SPF	
11 - 9	2x4	DRY	No.2	SPF	
9 - 8	2x4	DRY	No.2	SPF	
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	
ALL GABLE WEBS	2x3	DRY	No.2	SPF	
DRY: SEASONED LUMBER.					
GABLE STUDS SPACED AT 2-0-0 OC.					

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	TMWW-t	MT20	3.0	4.0	1.50 1.50
4	TTW+p	MT20	3.0	4.0	2.25 1.50
5	TMWW-t	MT20	3.0	4.0	1.50 1.50
6	TMVW-t	MT20	3.0	5.0	1.50 2.00
8	BMV1+p	MT20	2.0	4.0	
9	BBWW-m	MT20	4.0	6.0	2.75 3.00
10	BMWWW-t	MT20	3.0	6.0	
11	BBWW-m	MT20	4.0	6.0	2.75 3.00
12	BMV1+p	MT20	2.0	4.0	
13	NP-p	MT20	2.0	4.0	0.75 2.00
13, 14, 15, 16, 17, 18, 19, 20, 21, 22					
13	NP+hw	MT20	2.0	4.0	
20	NP-p	MT20	2.0	4.0	0.75 2.00

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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
12	671	0	671	0	0
8	671	0	671	0	0

UNFACTORED REACTIONS		1ST LCASE	MAX/MIN. COMPONENT REACTIONS	2ND LCASE	MAX/MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
12	469	341 / 0	0 / 0	0 / 0	0 / 0
8	469	341 / 0	0 / 0	0 / 0	0 / 0

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

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

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

LOADING				TOTAL LOAD CASES: (4)			
CHORDS		WEBS		FACTORED		FACTORED	
MEMB.	FORCE (LBS)	MEMB.	FORCE (LBS)	MEMB.	FORCE (LBS)	MEMB.	FORCE (LBS)
FR-TO		FR-TO		FR-TO		FR-TO	
1-2	0 / 29	10-4	0 / 343	1-2	-77.3	10-4	-77.3
2-3	-802 / 0	10-5	-291 / 0	2-3	-77.3	10-5	-77.3
3-4	-518 / 0	9-5	0 / 45	3-4	-77.3	9-5	-77.3
4-5	-518 / 0	3-10	-291 / 0	4-5	-77.3	3-10	-77.3
5-6	-802 / 0	11-3	0 / 45	5-6	-77.3	11-3	-77.3
6-7	0 / 29	2-11	0 / 681	6-7	-77.3	2-11	-77.3
12-2	-650 / 0	9-6	0 / 681	12-2	0.0	9-6	0.0
8-6	-650 / 0			8-6	0.0		
12-11	0 / 0			12-11	-17.5		-17.5
11-10	0 / 679			11-10	-17.5		-17.5
10-9	0 / 679			10-9	-17.5		-17.5
9-8	0 / 0			9-8	-17.5		-17.5

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 (0.40")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.40")
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.10 (6-7:1), BC=0.14 (9-10:1), WB=0.15 (6-9:1), SSI=0.10 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

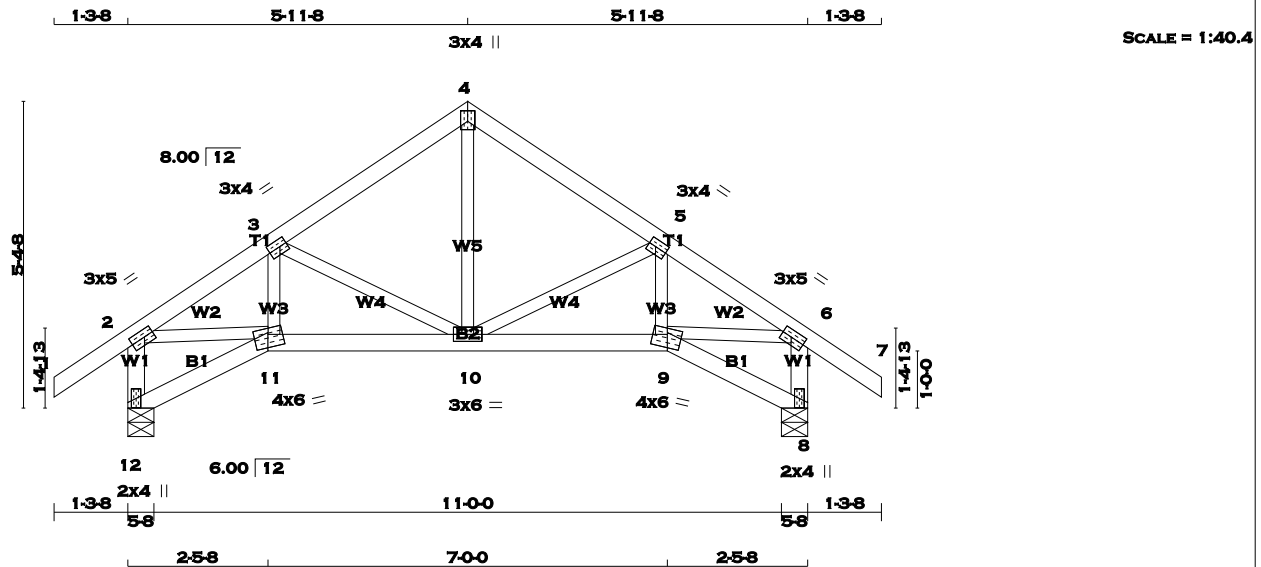
JSI GRIP= 0.82 (6) (INPUT = 0.90)
JSI METAL= 0.27 (6) (INPUT = 1.00)



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TOTAL WEIGHT = 52 lb
[M][F]

LUMBER				N. L. G. A. RULES	
CHORDS	SIZE	LUMBER	DESCR.		
1 - 4	2x4	DRY	No.2		
4 - 7	2x4	DRY	No.2		
12 - 2	2x4	DRY	No.2		
8 - 6	2x4	DRY	No.2		
12 - 11	2x4	DRY	No.2		
11 - 9	2x4	DRY	No.2		
9 - 8	2x4	DRY	No.2		
ALL WEBS EXCEPT	2x3	DRY	No.2		
DRY: SEASONED LUMBER.					

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	5.0	1.50	2.00
3	TMVW-t	MT20	3.0	4.0	1.50	1.50
4	TTW+p	MT20	3.0	4.0	2.25	1.50
5	TMVW-t	MT20	3.0	4.0	1.50	1.50
6	TMVW-t	MT20	3.0	5.0	1.50	2.00
8	BMV1+p	MT20	2.0	4.0		
9	BBWW-m	MT20	4.0	6.0	2.75	3.00
10	BBWWW-t	MT20	3.0	6.0		
11	BBWW-m	MT20	4.0	6.0	2.75	3.00
12	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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
12	671	0	671	0	0
8	671	0	671	0	0

UNFACTORED REACTIONS		1ST LCASE	MAX./MIN. COMPONENT REACTIONS	2ND LCASE	MAX./MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
12	469	341 / 0	0 / 0	0 / 0	127 / 0
8	469	341 / 0	0 / 0	0 / 0	127 / 0

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

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

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

LOADING		TOTAL LOAD CASES: (4)	
CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)
FR-TO	FROM	TO	LENGTH
1-2	0 / 29	-77.3	-77.3 0.10 (1)
2-3	-802 / 0	-77.3	-77.3 0.08 (1)
3-4	-518 / 0	-77.3	-77.3 0.10 (1)
4-5	-518 / 0	-77.3	-77.3 0.10 (1)
5-6	-802 / 0	-77.3	-77.3 0.08 (1)
6-7	0 / 29	-77.3	-77.3 0.10 (1)
12-2	-650 / 0	0.0	0.0 0.07 (1)
8-6	-650 / 0	0.0	0.0 0.07 (1)
12-11	0 / 0	-17.5	-17.5 0.03 (4)
11-10	0 / 679	-17.5	-17.5 0.14 (1)
10-9	0 / 679	-17.5	-17.5 0.14 (1)
9-8	0 / 0	-17.5	-17.5 0.03 (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
- TPC 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 (0.40")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.40")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")

CSI: TC=0.10 (6-7:1) , BC=0.14 (9-10:1) , WB=0.15 (6-9:1) , SSI=0.10 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

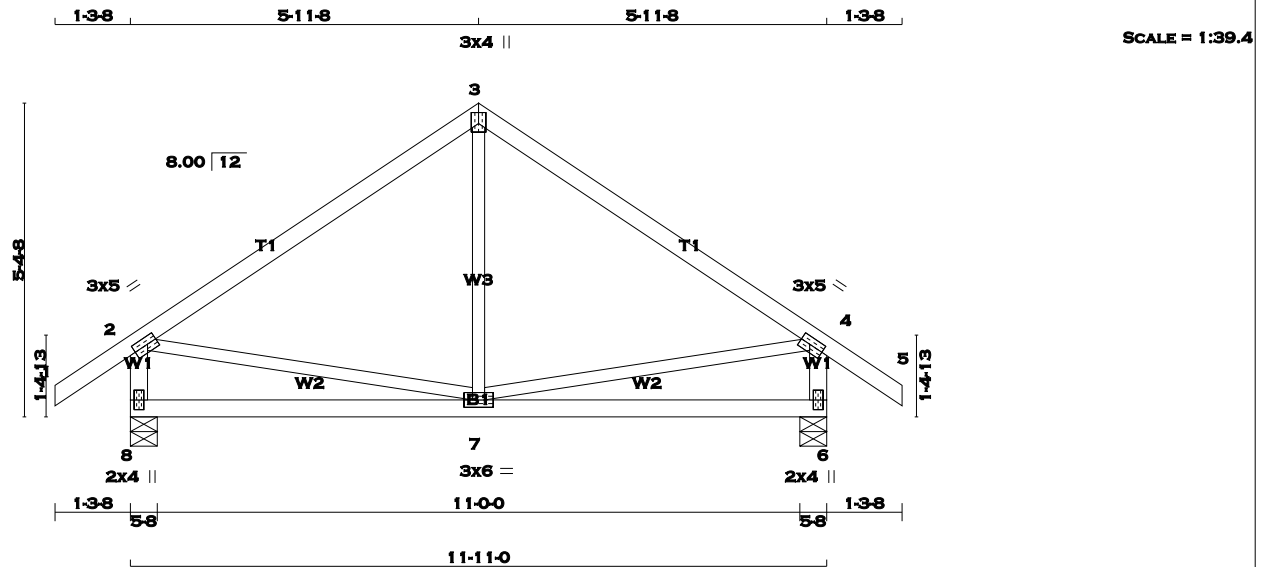
JSI GRIP= 0.82 (6) (INPUT = 0.90)
JSI METAL= 0.27 (6) (INPUT = 1.00)



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TOTAL WEIGHT = 3 X 49 = 147 lb
[M][F]

LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
1 - 3	2x4	DRY	No.2		SPF
3 - 5	2x4	DRY	No.2		SPF
8 - 2	2x4	DRY	No.2		SPF
6 - 4	2x4	DRY	No.2		SPF
8 - 6	2x4	DRY	No.2		SPF
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
6	BMV1+p	MT20	2.0	4.0		
7	BMVWW-t	MT20	3.0	6.0		
8	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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	IN-SX	
8	671	0	671	0	0	5-8	5-8	
6	671	0	671	0	0	5-8	5-8	

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN.	COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
8	469	341 / 0	0 / 0	0 / 0	0 / 0	127 / 0	0 / 0	
6	469	341 / 0	0 / 0	0 / 0	0 / 0	127 / 0	0 / 0	

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8, 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				WEBS			
MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LC)	MEMB.	MAX. FORCE (LBS)	FACTORED MAX (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 29	-77.3 -77.3	0.10 (1)	10.00	7-3	0 / 104	0.04 (4)
2-3	-418 / 0	-77.3 -77.3	0.35 (1)	6.25	2-7	0 / 353	0.08 (1)
3-4	-418 / 0	-77.3 -77.3	0.35 (1)	6.25	7-4	0 / 353	0.08 (1)
4-5	0 / 29	-77.3 -77.3	0.10 (1)	10.00			
8-2	-631 / 0	0.0 0.0	0.07 (1)	7.81			
6-4	-631 / 0	0.0 0.0	0.07 (1)	7.81			
8-7	0 / 0	-17.5 -17.5	0.18 (4)	10.00			
7-6	0 / 0	-17.5 -17.5	0.18 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	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

(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 (0.40")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.40")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")

CSI: TC=0.35 (2-3:1), BC=0.18 (7-8:4), WB=0.08 (2-7:1), SSI=0.15 (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	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

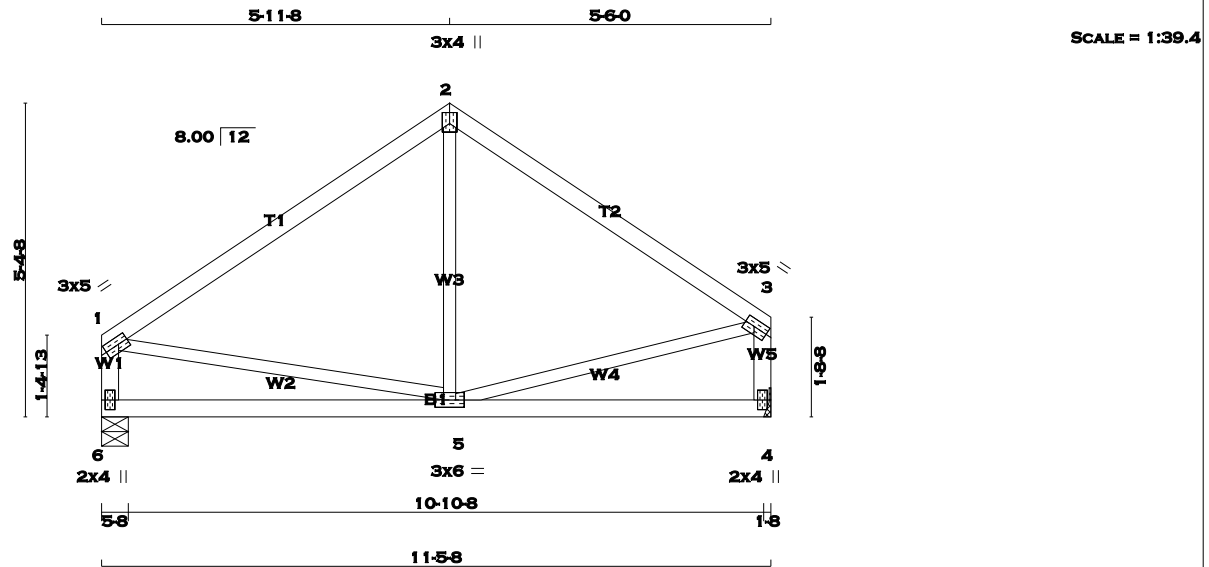
JSI GRIP= 0.76 (7) (INPUT = 0.90)
JSI METAL= 0.18 (4) (INPUT = 1.00)



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TOTAL WEIGHT = 2 X 44 = 89 lb

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
1 - 2	2x4	DRY	No.2
2 - 3	2x4	DRY	No.2
6 - 1	2x4	DRY	No.2
4 - 3	2x4	DRY	No.2
6 - 4	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
1	TMVW-t	MT20	3.0	5.0	1.50	2.00
2	TTW+p	MT20	3.0	4.0	2.25	1.50
3	TMVW-t	MT20	3.0	5.0	1.50	2.00
4	BMV1+p	MT20	2.0	4.0		
5	BMVWW-t	MT20	3.0	6.0		
6	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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		
6	543	0	543	0	5-8	5-8
4	543	0	543	0	5-8	5-8

HANGER BY OTHERS
MIN. SEAT SIZE: 1-8

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
6	381	267 / 0	0 / 0	0 / 0	0 / 0	115 / 0	0 / 0
4	381	267 / 0	0 / 0	0 / 0	0 / 0	115 / 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					WEBS			
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			
1-2	-386 / 0	-77.3	-77.3	0.35 (1)	6.25	5-2	-16 / 94	0.03 (4)
2-3	-385 / 0	-77.3	-77.3	0.30 (1)	6.25	1-5	0 / 326	0.07 (1)
6-1	-500 / 0	0.0	0.0	0.05 (1)	7.81	5-3	0 / 331	0.07 (1)
4-3	-510 / 0	0.0	0.0	0.05 (1)	7.81			
6-5	0 / 0	-17.5	-17.5	0.17 (4)	10.00			
5-4	0 / 0	-17.5	-17.5	0.17 (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, 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 (0.38")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.38")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.35 (1-2:1), BC=0.17 (5-6:4), WB=0.07 (3-5:1), SSI=0.15 (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.

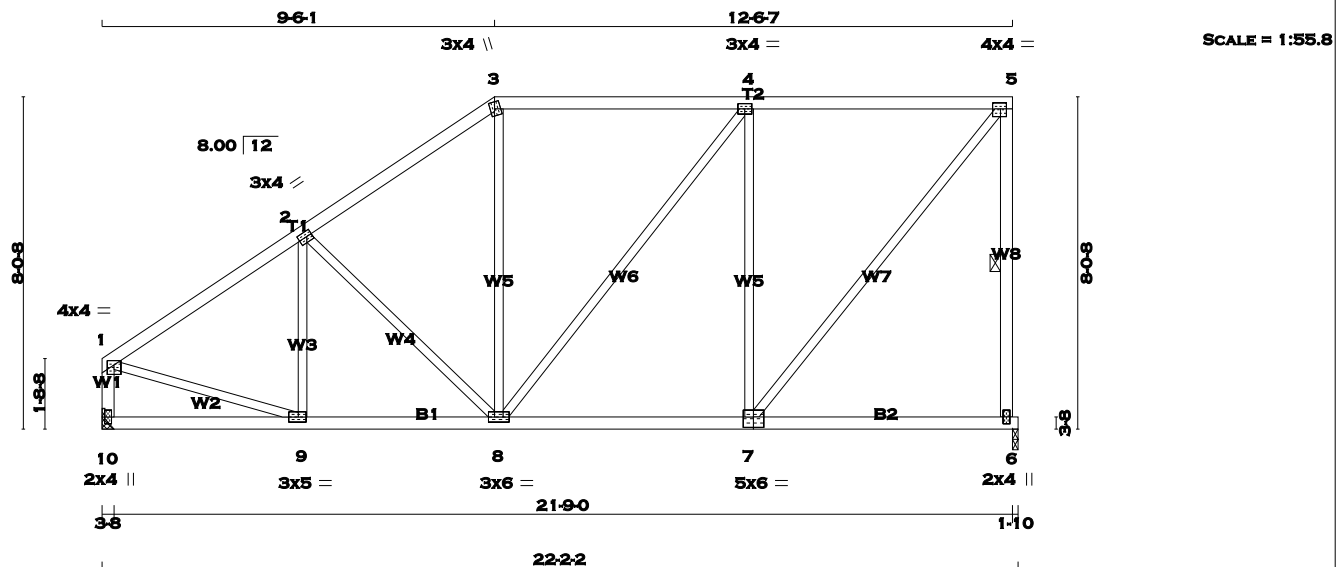
JSI GRIP= 0.70 (5) (INPUT = 0.90)
JSI METAL= 0.15 (1) (INPUT = 1.00)



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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
10 - 1	2x4	DRY	No.2	SPF
10 - 7	2x4	DRY	No.2	SPF
7 - 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-p	MT20	4.0	4.0	1.25	2.00
2	TMVW-t	MT20	3.0	4.0	1.50	1.50
3	TTW+m	MT20	3.0	4.0	2.00	1.25
4	TMVW-t	MT20	3.0	4.0		
5	TMVW-t	MT20	4.0	4.0	1.75	1.75
6	BMV1+p	MT20	2.0	4.0		
7	BSWW-l	MT20	5.0	6.0	3.00	3.00
8	BMVW-t	MT20	3.0	6.0		
9	BMVW-t	MT20	3.0	5.0	1.50	2.25
10	BMV1+p	MT20	2.0	4.0		
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.						

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	
6		1045	0	1045	0	0	1-10	1-10	
10		1045	0	1045	0	0	HANGER BY OTHERS		
MIN. SEAT SIZE: 3-8									

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN.	COMPONENT	REACTIONS			
6	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
6		734	513 / 0	0 / 0	0 / 0	220 / 0	0 / 0
10		734	513 / 0	0 / 0	0 / 0	220 / 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 = 5.68 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 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-6. DBS = 14-0-0 . CBF = 88 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. 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)				
C H O R D S				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO		FR-TO
1-2	-1068 / 0	-77.3 -77.3	0.32 (1)	5.68
2-3	-906 / 0	-77.3 -77.3	0.31 (1)	6.05
3-4	-734 / 0	-77.3 -77.3	0.54 (1)	6.06
4-5	-668 / 0	-77.3 -77.3	0.54 (1)	6.25
6-5	-1000 / 0	0.0 0.0	0.29 (1)	6.25
10-1	-1009 / 0	0.0 0.0	0.11 (1)	7.79
10-9	0 / 0	-17.5 -17.5	0.09 (4)	10.00
9-8	0 / 908	-17.5 -17.5	0.19 (1)	10.00
8-7	0 / 668	-17.5 -17.5	0.22 (4)	10.00
7-6	0 / 0	-17.5 -17.5	0.17 (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 6.00/12

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 (0.73")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.06")

CSI: TC=0.54 (3-4:1) , BC=0.22 (7-8:4) , WB=0.85 (4-7:1) , SSI=0.24 (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.

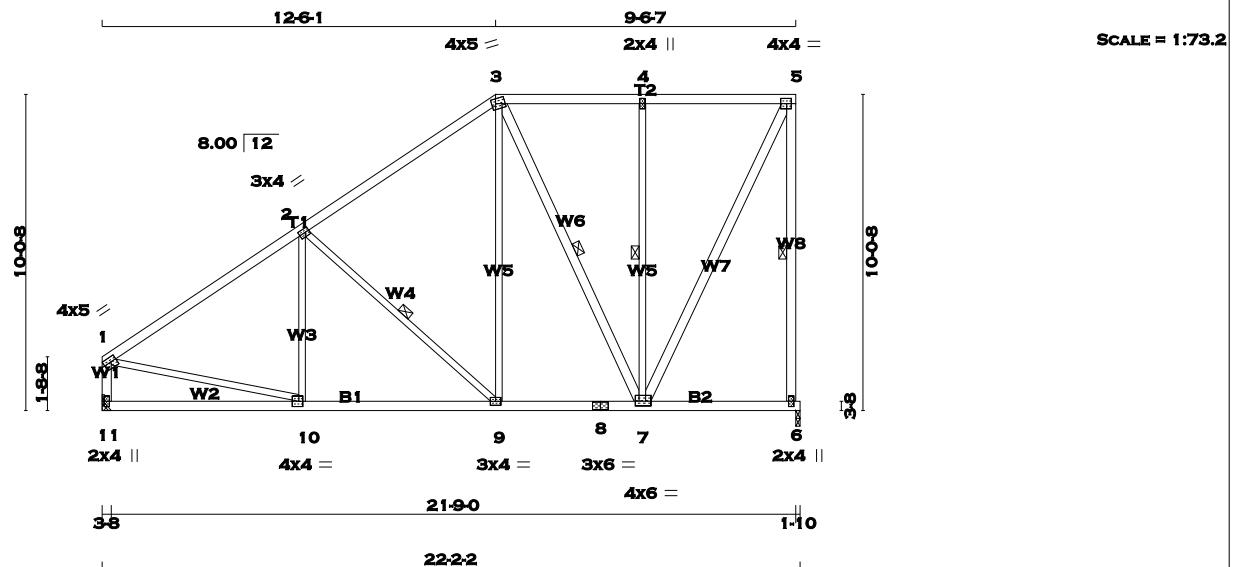
JSI GRIP= 0.88 (1) (INPUT = 0.90)
JSI METAL= 0.31 (1) (INPUT = 1.00)



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TOTAL WEIGHT = 121 lb
[M][F]

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	2x3	DRY	No.2	SPF
EXCEPT				
3 - 7	2x4	DRY	No.2	SPF
7 - 5	2x4	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	TMVW-t	MT20	3.0	4.0	1.50 1.50
3	TTWW-m	MT20	4.0	5.0	1.75 1.50
4	TMW+w	MT20	2.0	4.0	
5	TMVW-t	MT20	4.0	4.0	2.00 1.75
6	BMV1+p	MT20	2.0	4.0	
7	BMVWV-t	MT20	4.0	6.0	1.75 1.50
8	BS-t	MT20	3.0	6.0	
9	BMVW-t	MT20	3.0	4.0	
10	BMVW-t	MT20	4.0	4.0	2.00 1.50
11	BMV1+p	MT20	2.0	4.0	

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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	IN-SX
6	1045	0	1045	0	0	1-10	1-10
11	1045	0	1045	0	0	HANGER BY OTHERS	
MIN. SEAT SIZE: 3-8							

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
6	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0		
11	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 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 = 5.54 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 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-6. DBS = 14-0-0 . CBF = 88 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 2-9, 3-7, 4-7. DBS = 20-0-0 . CBF = 57 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. 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)

C H O R D S				W E B S			
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	-1072 / 0	-77.3 -77.3	0.43 (1)	5.54	10-2	-74 / 85	0.04 (1)
2-3	-732 / 0	-77.3 -77.3	0.40 (1)	6.25	2-9	-454 / 0	0.22 (1)
3-4	-432 / 0	-77.3 -77.3	0.22 (1)	6.25	9-3	0 / 394	0.09 (1)
4-5	-432 / 0	-77.3 -77.3	0.22 (1)	6.25	3-7	-354 / 0	0.22 (1)
6-5	-1010 / 0	0.0 0.0	0.50 (1)	6.23	7-4	-456 / 0	0.31 (1)
11-1	-1000 / 0	0.0 0.0	0.11 (1)	7.81	7-5	0 / 966	0.16 (1)
					1-10	0 / 940	0.21 (1)
11-10	0 / 0	-17.5 -17.5	0.18 (4)	10.00			
10-9	0 / 919	-17.5 -17.5	0.24 (4)	10.00			
9-8	0 / 585	-17.5 -17.5	0.14 (1)	10.00			
8-7	0 / 585	-17.5 -17.5	0.14 (1)	10.00			
7-6	0 / 0	-17.5 -17.5	0.09 (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 6.00/12

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 (0.73")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.07")

CSI: TC=0.50 (5-6:1), BC=0.24 (9-10:4), WB=0.31 (4-7:1), SSI=0.20 (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.

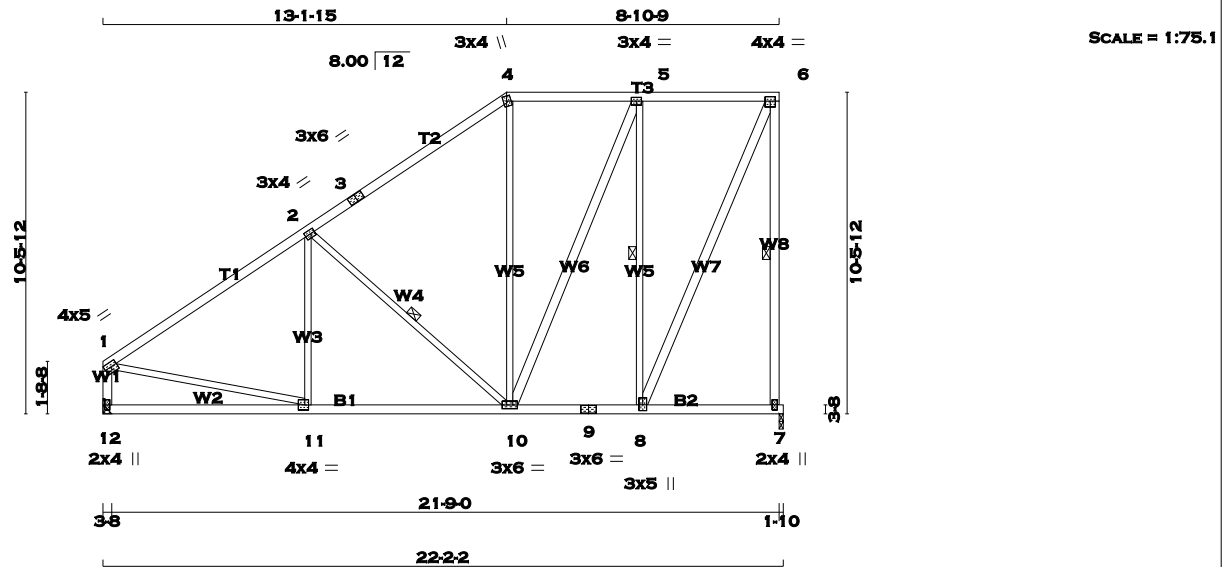
JSI GRIP= 0.90 (5) (INPUT = 0.90)
JSI METAL= 0.36 (1) (INPUT = 1.00)



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TOTAL WEIGHT = 124 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					
10 - 5	2x4	DRY	No.2	SPF	
8 - 6	2x4	DRY	No.2	SPF	
DRY: SEASONED LUMBER.					

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	IN-SX	UPLIFT	IN-SX	
7		1045	0	1045	0	0	0	1-10	1-10
12		1045	0	1045	0	0	0	HANGER BY OTHERS	
MIN. SEAT SIZE: 3-8									
UNFACTORED REACTIONS									
		1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
7		734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0	
12		734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 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 = 5.46 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 6-7. DBS = 14-0-0 . CBF = 89 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 2-10. DBS = 20-0-0 . CBF = 62 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-8. DBS = 18-0-0 . CBF = 89 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. 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

C H O R D S				W E B S			
MEMB.		MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED MAX. CSI (LC)
FR-TO		FROM TO		UNBRACED LENGTH	FR-TO		
1-2		-1068 / 0	-77.3	-77.3 0.48 (1)	11-2	-56 / 96	0.03 (1)
2-3		-690 / 0	-77.3	-77.3 0.45 (1)	2-10	-499 / 0	0.27 (1)
3-4		-690 / 0	-77.3	-77.3 0.45 (1)	10-4	0 / 74	0.03 (4)
4-5		-545 / 0	-77.3	-77.3 0.19 (1)	10-5	0 / 402	0.06 (1)
5-6		-391 / 0	-77.3	-77.3 0.19 (1)	8-5	-794 / 0	0.61 (1)
7-6		-1012 / 0	0.0	0.0 0.55 (1)	8-6	0 / 959	0.15 (1)
12-1		-998 / 0	0.0	0.0 0.11 (1)	1-11	0 / 937	0.21 (1)
12-11		0 / 0	-17.5	-17.5 0.20 (4)			10.00
11-10		0 / 917	-17.5	-17.5 0.26 (4)			10.00
10-9		0 / 391	-17.5	-17.5 0.12 (4)			10.00
9-8		0 / 391	-17.5	-17.5 0.12 (4)			10.00
8-7		0 / 0	-17.5	-17.5 0.07 (4)			10.00

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

SPACING = 24.0 IN./C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

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 (0.73")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.08")

CSI: TC=0.55 (6-7:1) , BC=0.26 (10-11:4) , WB=0.61 (5-8:1) , SSI=0.21 (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
MT20	618	354	1667	822	2284

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

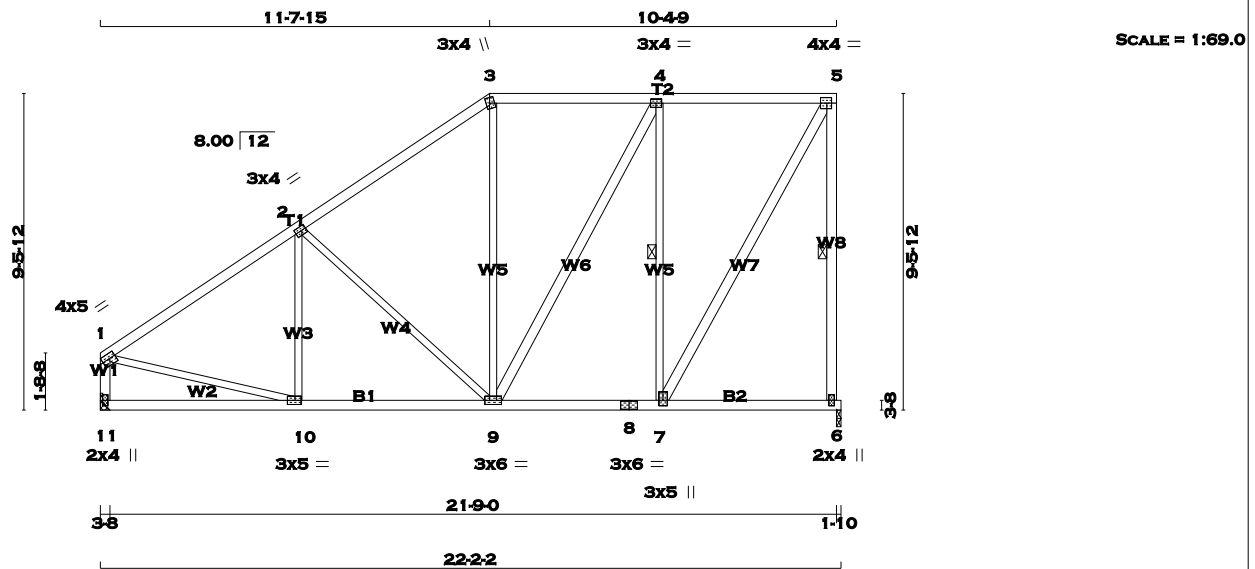
JSI GRIP= 0.89 (8) (INPUT = 0.90)
JSI METAL= 0.36 (1) (INPUT = 1.00)



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TOTAL WEIGHT = 117 lb
[M][F]

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		2x3	DRY	No.2	SPF
EXCEPT					
9 - 4	2x4	DRY	No.2	SPF	
7 - 5	2x4	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	TMVW-t	MT20	3.0	4.0	1.50	1.50
3	TTW+m	MT20	3.0	4.0	2.00	1.25
4	TMVW-t	MT20	3.0	4.0		
5	TMVW-t	MT20	4.0	4.0	2.00	1.75
6	BMV1+p	MT20	2.0	4.0		
7	BMVW+t	MT20	3.0	5.0	2.00	1.50
8	BS-t	MT20	3.0	6.0		
9	BMVW-t	MT20	3.0	6.0		
10	BMVW-t	MT20	3.0	5.0	1.50	2.25
11	BMV1+p	MT20	2.0	4.0		

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

FACTORED			MAXIMUM FACTORED			INPUT	REQRD
GROSS REACTION			GROSS REACTION			BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
6	1045	0	1045	0	0	1-10	1-10
11	1045	0	1045	0	0	HANGER BY OTHERS	
MIN. SEAT SIZE: 3-8							

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
6	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0		
11	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 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 = 5.63 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 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-6. DBS = 14-0-0 . CBF = 88 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-7. DBS = 18-0-0 . CBF = 84 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. 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)

C H O R D S				W E B S			
MEMB.		MAX. FACTORED	FACTORED	MEMB.		MAX. FACTORED	FACTORED
		FORCE (LBS)	VERT. LOAD (PLF)			FORCE (LBS)	MAX
			CSI (LC)				CSI (LC)
FR-TO			FROM TO	LENGTH	FR-TO		
1-2	-1075 / 0	-77.3	-77.3	0.37 (1)	5.63	10-2	-98 / 70
2-3	-784 / 0	-77.3	-77.3	0.35 (1)	6.25	2-9	-398 / 0
3-4	-627 / 0	-77.3	-77.3	0.27 (1)	6.25	9-3	0 / 104
4-5	-490 / 0	-77.3	-77.3	0.27 (1)	6.25	9-4	0 / 287
6-5	-1008 / 0	0.0	0.0	0.43 (1)	6.24	7-4	-749 / 0
11-1	-1003 / 0	0.0	0.0	0.11 (1)	7.80	7-5	0 / 982
						1-10	0 / 944
11-10	0 / 0	-17.5	-17.5	0.15 (4)	10.00		
10-9	0 / 919	-17.5	-17.5	0.23 (1)	10.00		
9-8	0 / 490	-17.5	-17.5	0.15 (4)	10.00		
8-7	0 / 490	-17.5	-17.5	0.15 (4)	10.00		
7-6	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

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

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 (0.73")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.07")

CSI: TC=0.43 (5-6:1) , BC=0.23 (9-10:1) , WB=0.52 (2-9:1) , SSI=0.20 (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
MT20	618	354	1667
		822	2284
			1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

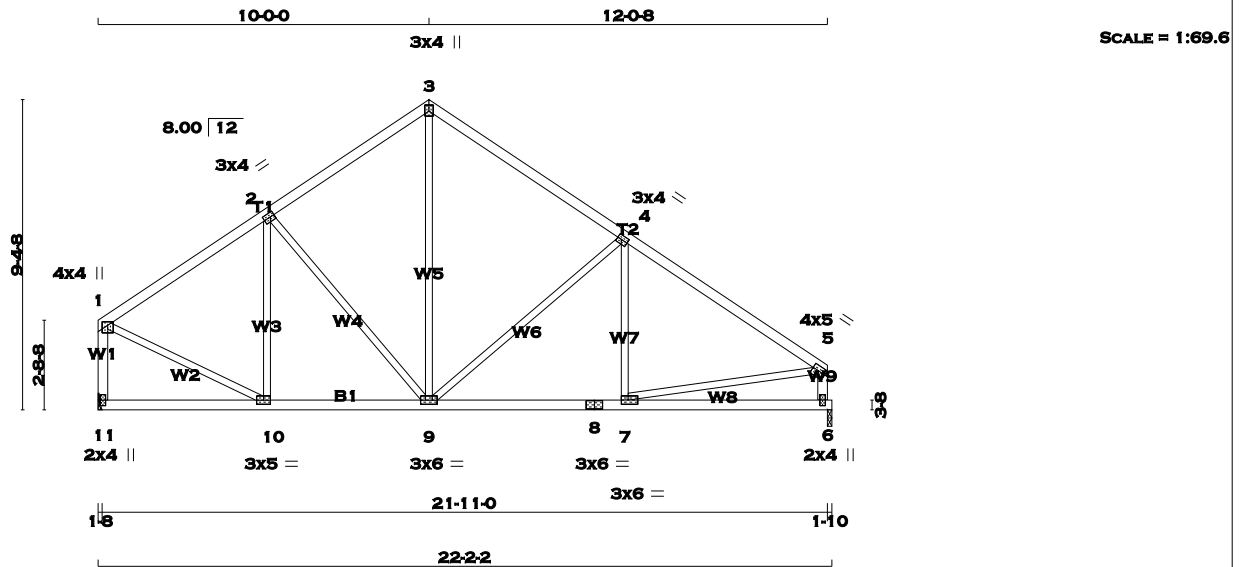
JSI GRIP= 0.89 (5) (INPUT = 0.90)
JSI METAL= 0.36 (1) (INPUT = 1.00)



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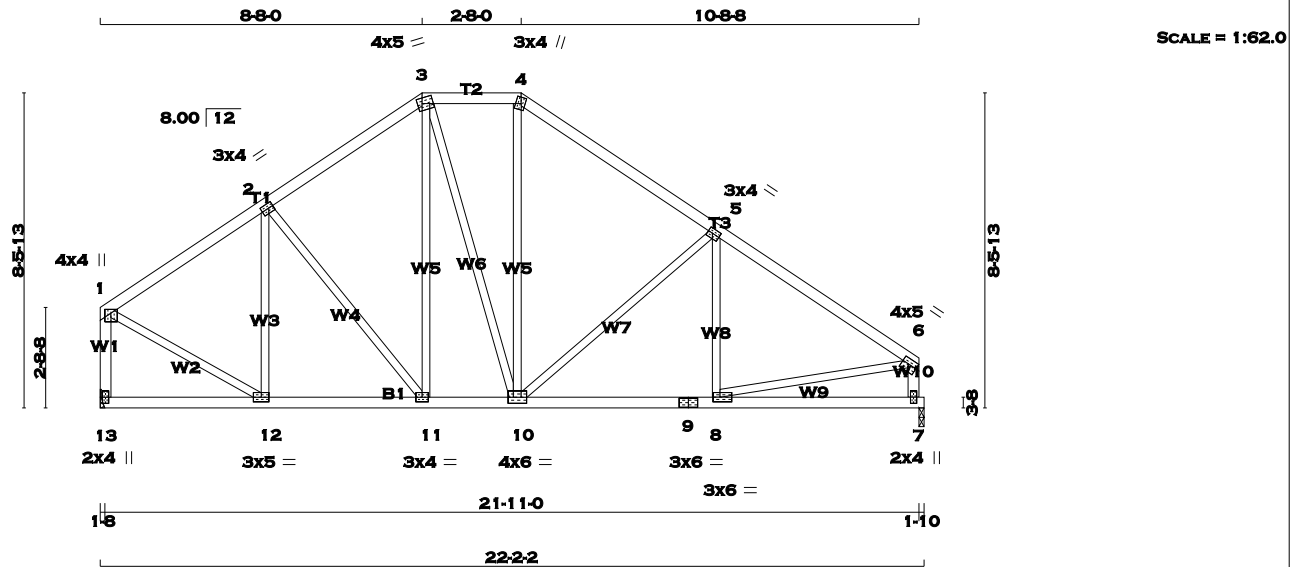
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. 1 - 3 2x4 DRY No.2 SPF 3 - 5 2x4 DRY No.2 SPF 11- 1 2x4 DRY No.2 SPF 6 - 5 2x4 DRY No.2 SPF 11- 8 2x4 DRY No.2 SPF 8 - 6 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT DRY: SEASONED LUMBER.				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED MAXIMUM FACTORED INPUT REQD GROSS REACTION GROSS REACTION BRG BRG JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX 11 1045 0 1045 0 0 HANGER BY OTHERS MIN. SEAT SIZE: 1-8 6 1045 0 1045 0 0 1-10 1-10 UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 11 734 513 / 0 0 / 0 0 / 0 0 / 0 220 / 0 0 / 0 6 734 513 / 0 0 / 0 0 / 0 0 / 0 220 / 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 = 5.44 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. LOADING TOTAL LOAD CASES: (4) CHORDS WEBS MEMB. MAX. FACTORED FORCE VERT. LOAD LC1 MAX. MAX. MEMB. MAX. FACTORED FORCE MAX. (LBS) (PLF) CSI (LC) UNBRAC LENGTH FR-TO (LBS) CSI (LC) FR-TO FROM TO 1-2 -882 / 0 -77.3 -77.3 0.26 (1) 6.22 10-2 -258 / 6 0.15 (1) 2-3 -790 / 0 -77.3 -77.3 0.25 (1) 6.25 2-9 -186 / 0 0.21 (1) 3-4 -795 / 0 -77.3 -77.3 0.37 (1) 6.25 9-3 0 / 534 0.12 (1) 4-5 -1151 / 0 -77.3 -77.3 0.40 (1) 5.44 9-4 -460 / 0 0.58 (1) 11-1 -1008 / 0 0.0 0.0 0.14 (1) 7.80 7-4 -46 / 88 0.03 (4) 6-5 -1001 / 0 0.0 0.0 0.10 (1) 7.81 1-10 0 / 834 0.19 (1) 7-5 0 / 997 0.22 (1) 11-10 0 / 0 -17.5 -17.5 0.10 (4) 10.00 10-9 0 / 755 -17.5 -17.5 0.17 (1) 10.00 9-8 0 / 983 -17.5 -17.5 0.24 (1) 10.00 8-7 0 / 983 -17.5 -17.5 0.24 (1) 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 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 (0.73") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03") ALLOWABLE DEFL.(TL)= L/360 (0.73") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.07") CSI: TC=0.40 (4-5:1) , BC=0.24 (7-9:1) , WB=0.58 (4-9:1) , SSI=0.19 (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 (7) (INPUT = 0.90) JSI METAL= 0.38 (5) (INPUT = 1.00)			
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IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 105 lb
[M][F]

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2
3 - 4	2x4	DRY	No.2
4 - 6	2x4	DRY	No.2
13- 1	2x4	DRY	No.2
7 - 6	2x4	DRY	No.2
13- 9	2x4	DRY	No.2
9 - 7	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
DRY: SEASONED LUMBER.			

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW+p	MT20	4.0	4.0	1.25	2.00
2	TMVW-t	MT20	3.0	4.0	1.50	1.50
3	TTW+m	MT20	4.0	5.0	1.75	1.50
4	TTW+m	MT20	3.0	4.0	2.00	1.25
5	TMVW-t	MT20	3.0	4.0	1.50	1.50
6	TMVW-t	MT20	4.0	5.0	1.75	Edge
7	BMV1+p	MT20	2.0	4.0		
8	BMVW-t	MT20	3.0	6.0	1.50	2.25
9	BS-t	MT20	3.0	6.0		
10	BMVW-t	MT20	4.0	6.0		
11	BMVW-t	MT20	3.0	4.0		
12	BMVW-t	MT20	3.0	5.0		
13	BMV1+p	MT20	2.0	4.0		

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

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

BEARINGS			
FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION	
JT	VERT	DOWN	HORIZ
13	1045	0	1045
7	1045	0	1045

UNFACTORED REACTIONS							
JT	1ST CASE	MAX.	MIN.	COMPONENT	REACT	WIND	SOIL
13	734	513	0	0	0	0	0
7	734	513	0	0	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 = 5.56 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

CHORDS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORIZ. LOAD (PLF)
1-2	-858 / 0	-77.3	-77.3
2-3	-832 / 0	-77.3	-77.3
3-4	-706 / 0	-77.3	-77.3
4-5	-875 / 0	-77.3	-77.3
5-6	-1160 / 0	-77.3	-77.3
13-1	-1014 / 0	0.0	0.0
7-6	-1006 / 0	0.0	0.0

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 6.00/12

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 (0.73")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.06")

CSI: TC=0.31 (5-6:1), BC=0.22 (8-10:1), WB=0.36 (5-10:1), SSI=0.17 (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.

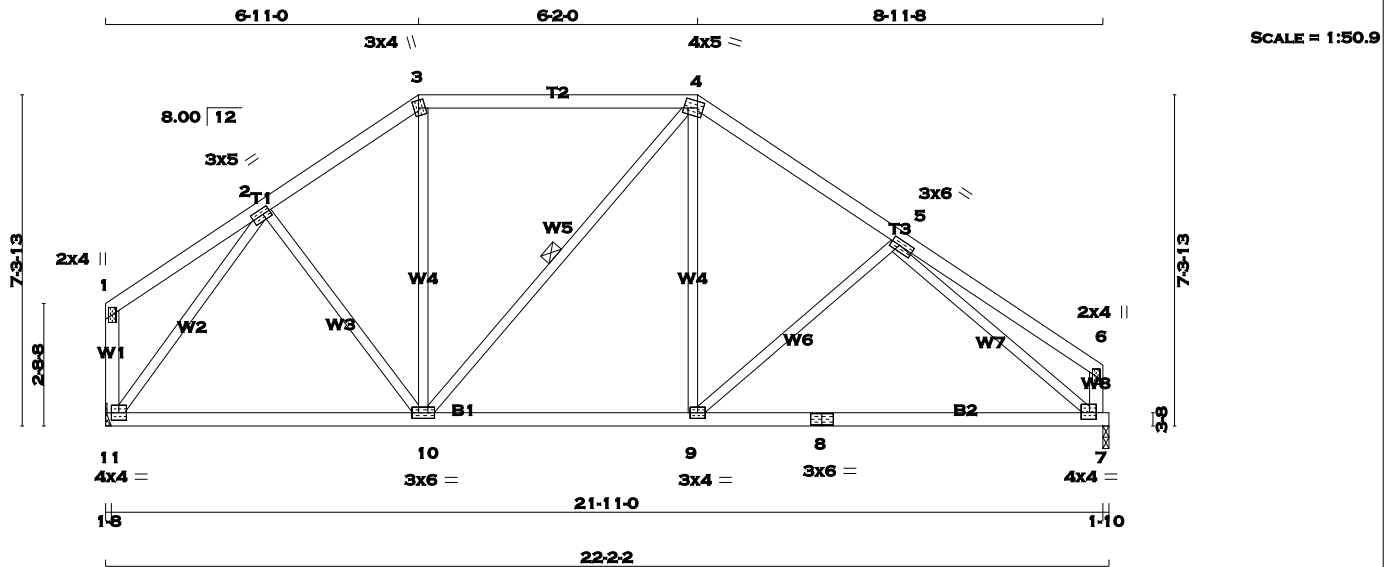
JSI GRIP= 0.90 (8) (INPUT = 0.90)
JSI METAL= 0.38 (6) (INPUT = 1.00)



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TOTAL WEIGHT = 95 lb

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2
3 - 4	2x4	DRY	No.2
4 - 6	2x4	DRY	No.2
11 - 1	2x4	DRY	No.2
7 - 6	2x4	DRY	No.2
11 - 8	2x4	DRY	No.2
8 - 7	2x4	DRY	No.2
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	TMVW-t	MT20	3.0	5.0	1.50 2.00
3	TTW+m	MT20	3.0	4.0	2.00 1.25
4	TTWW-m	MT20	4.0	5.0	1.75 1.50
5	TMVW-t	MT20	3.0	6.0	1.50 2.25
6	TMV+p	MT20	2.0	4.0	
7	BMVW1-t	MT20	4.0	4.0	1.75 1.75
8	BS-t	MT20	3.0	6.0	
9	BMVW-t	MT20	3.0	4.0	
10	BMVW-t	MT20	3.0	6.0	
11	BMVW1-t	MT20	4.0	4.0	

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.



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

BEARINGS			
FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION	
JT	VERT	DOWN	HORZ
11	1045	0	0
7	1045	0	0

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN.	LIVE	PERM.	WIND	DEAD	SOIL
11	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0
7	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.04 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 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-10. DBS = 20-0-0. CBF = 18 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. 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

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	MAX. FACTORED FORCE (LBS)
FR-TO				FR-TO			
1-2	0 / 16	-77.3	-77.3 0.14 (1)	10.00	2-10	0 / 100	0.02 (4)
2-3	-880 / 0	-77.3	-77.3 0.12 (1)	6.25	10-3	0 / 139	0.04 (4)
3-4	-719 / 0	-77.3	-77.3 0.38 (1)	6.25	10-4	-141 / 0	0.08 (1)
4-5	-993 / 0	-77.3	-77.3 0.20 (1)	6.04	9-4	0 / 275	0.06 (1)
5-6	0 / 22	-77.3	-77.3 0.25 (1)	10.00	9-5	-183 / 9	0.12 (1)
11-1	-105 / 0	0.0	0.0 0.01 (1)	7.81	11-2	-1104 / 0	0.62 (1)
7-6	-133 / 0	0.0	0.0 0.01 (1)	7.81	5-7	-1268 / 0	0.78 (1)
11-10	0 / 656	-17.5	-17.5 0.23 (4)	10.00			
10-9	0 / 811	-17.5	-17.5 0.35 (4)	10.00			
9-8	0 / 945	-17.5	-17.5 0.35 (4)	10.00			
8-7	0 / 945	-17.5	-17.5 0.35 (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 6.00/12

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 (0.73")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/999 (0.20")

CSI: TC=0.38 (3-4:1), BC=0.35 (9-10:4), WB=0.78 (5-7:1), SSI=0.19 (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)		
MAX	MIN	MAX	MIN	MAX	MIN
MT20	618	354	1667	822	2284

PLATE PLACEMENT TOL. = 0.250 inches

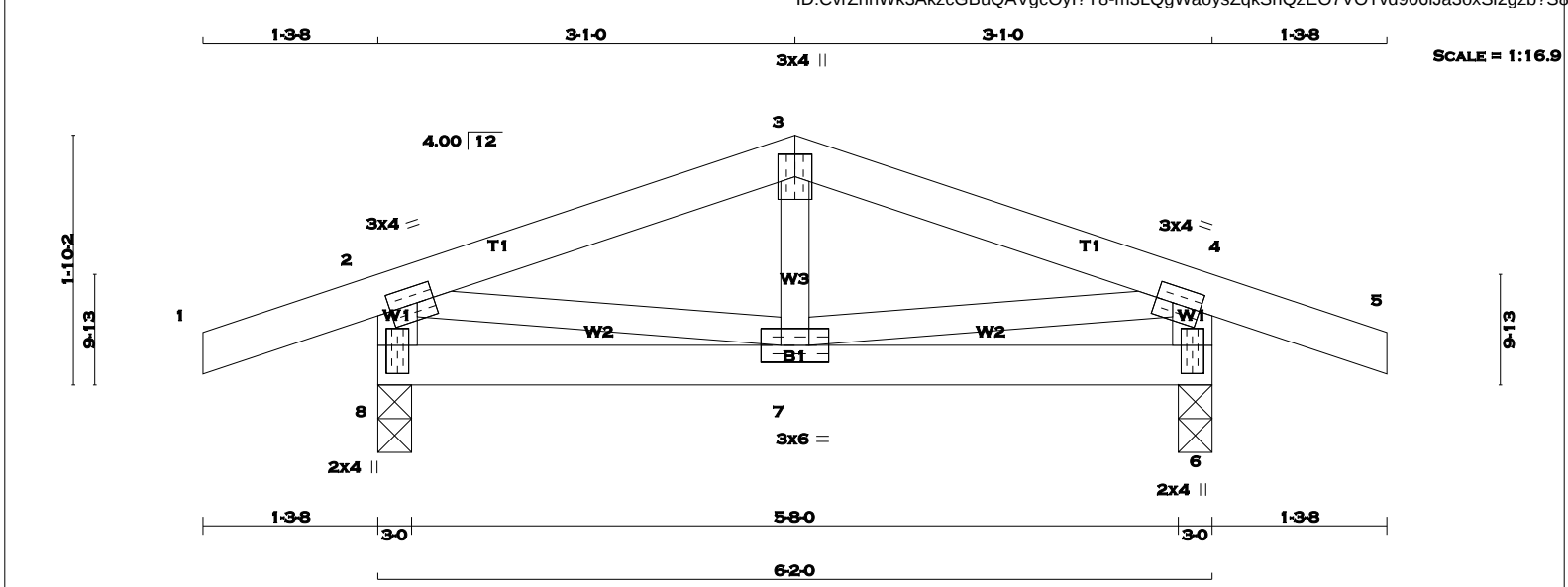
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (3) (INPUT = 0.90)
JSI METAL= 0.40 (8) (INPUT = 1.00)

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TOTAL WEIGHT = 24 lb [M][F]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2
3 - 5	2x4	DRY	No.2
8 - 2	2x4	DRY	No.2
6 - 4	2x4	DRY	No.2
8 - 6	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	4.0	1.50	1.50
3	TTW+p	MT20	3.0	4.0		
4	TMVW-t	MT20	3.0	4.0	1.50	1.50
6	BMV1+p	MT20	2.0	4.0	2.50	1.00
7	BMVWW-t	MT20	3.0	6.0		
8	BMV1+p	MT20	2.0	4.0	2.50	1.00

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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
8	396	0	396	0
6	396	0	396	0

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX/MIN. SNOW	MAX/MIN. LIVE	MAX/MIN. PERM. LIVE	MAX/MIN. WIND	MAX/MIN. DEAD	MAX/MIN. SOIL
8	276	206 / 0	0 / 0	0 / 0	0 / 0	70 / 0	0 / 0
6	276	206 / 0	0 / 0	0 / 0	0 / 0	70 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8, 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				WEBS			
MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FORCE (LBS)	MAX. UNBRACED LENGTH	FACTORED MAX. CSI (LC)
FR-TO		FROM TO		FR-TO			
1-2	0 / 16	-77.3	-77.3 0.10 (1)	7-3	-40 / 40	10.00	0.01 (4)
2-3	-314 / 0	-77.3	-77.3 0.09 (1)	2-7	0 / 302	6.25	0.07 (1)
3-4	-314 / 0	-77.3	-77.3 0.09 (1)	7-4	0 / 302	6.25	0.07 (1)
4-5	0 / 16	-77.3	-77.3 0.10 (1)			10.00	
8-2	-372 / 0	0.0	0.0 0.04 (1)			7.81	
6-4	-372 / 0	0.0	0.0 0.04 (1)			7.81	
8-7	0 / 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

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 (0.21")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.21")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.10 (1-2:1) , BC=0.04 (6-7:4) , WB=0.07 (2-7:1) , SSI=0.09 (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)
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.

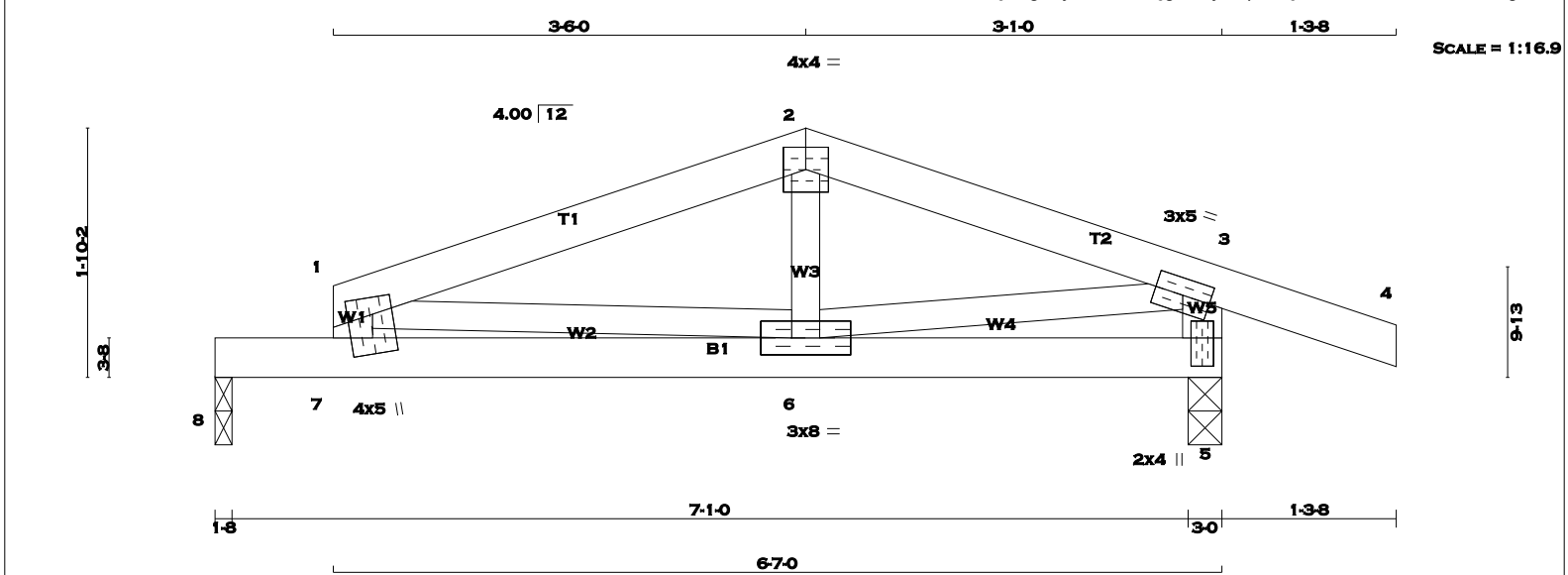
JSI GRIP= 0.60 (4) (INPUT = 0.90)
JSI METAL= 0.14 (4) (INPUT = 1.00)



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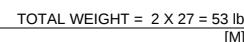
TOTAL WEIGHT = 24 lb										[M]																																																																																																																																																																				
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. 1 - 2 2x4 No.2 SPF 2 - 4 2x4 No.2 SPF 7 - 1 2x4 No.2 SPF 5 - 3 2x4 No.2 SPF 8 - 5 2x4 No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT DRY: SEASONED LUMBER.					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS <table><tr><td></td><td colspan="2">FACTORED</td><td colspan="2">MAXIMUM FACTORED</td><td>INPUT</td><td colspan="2">REQRD</td></tr><tr><td></td><td colspan="2">GROSS REACTION</td><td colspan="2">GROSS REACTION</td><td>BRG</td><td colspan="2">BRG</td></tr><tr><td>JT</td><td>VERT</td><td>HORZ</td><td>DOWN</td><td>HORZ</td><td>UPLIFT</td><td>IN-SX</td><td>IN-SX</td></tr><tr><td>8</td><td>354</td><td>0</td><td>354</td><td>0</td><td>0</td><td>1-8</td><td>1-8</td></tr><tr><td>5</td><td>457</td><td>0</td><td>457</td><td>0</td><td>0</td><td>3-0</td><td>3-0</td></tr></table> UNFACTORED REACTIONS <table><tr><td></td><td>1ST LCASE</td><td colspan="6">MAX./MIN. COMPONENT REACTIONS</td></tr><tr><td>JT</td><td>COMBINED</td><td>SNOW</td><td>LIVE</td><td>PERM.LIVE</td><td>WIND</td><td>DEAD</td><td>SOIL</td></tr><tr><td>8</td><td>248</td><td>174 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>75 / 0</td><td>0 / 0</td></tr><tr><td>5</td><td>319</td><td>236 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>83 / 0</td><td>0 / 0</td></tr></table> BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8, 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) <table><tr><td colspan="4">C H O R D S</td><td colspan="4">W E B S</td></tr><tr><td>MEMB.</td><td>MAX. FACTORED FORCE (LBS)</td><td>FACTORED VERT. LOAD (PLF)</td><td>LC1 MAX CSI (LC)</td><td>MAX. UNBRAC LENGTH</td><td>MEMB.</td><td>MAX. FACTORED FORCE (LBS)</td><td>MAX CSI (LC)</td></tr><tr><td>FR-TO</td><td></td><td>FROM TO</td><td></td><td></td><td>FR-TO</td><td></td><td></td></tr><tr><td>1- 2</td><td>-491 / 0</td><td>-77.3 -77.3</td><td>0.17 (1)</td><td>6.25</td><td>6- 2</td><td>0 / 72</td><td>0.03 (4)</td></tr><tr><td>2- 3</td><td>-491 / 0</td><td>-77.3 -77.3</td><td>0.13 (1)</td><td>6.25</td><td>1- 6</td><td>0 / 468</td><td>0.11 (1)</td></tr><tr><td>3- 4</td><td>0 / 16</td><td>-77.3 -77.3</td><td>0.10 (1)</td><td>10.00</td><td>6- 3</td><td>0 / 472</td><td>0.11 (1)</td></tr><tr><td>7- 1</td><td>-341 / 0</td><td>0.0 0.0</td><td>0.03 (1)</td><td>7.81</td><td></td><td></td><td></td></tr><tr><td>5- 3</td><td>-456 / 0</td><td>0.0 0.0</td><td>0.05 (1)</td><td>7.81</td><td></td><td></td><td></td></tr><tr><td>8- 7</td><td>0 / 0</td><td>-94.8 -94.8</td><td>0.37 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>7- 6</td><td>0 / 0</td><td>-17.5 -17.5</td><td>0.37 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>6- 5</td><td>0 / 0</td><td>-17.5 -17.5</td><td>0.11 (1)</td><td>10.00</td><td></td><td></td><td></td></tr></table>						FACTORED		MAXIMUM FACTORED		INPUT	REQRD			GROSS REACTION		GROSS REACTION		BRG	BRG		JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	8	354	0	354	0	0	1-8	1-8	5	457	0	457	0	0	3-0	3-0		1ST LCASE	MAX./MIN. COMPONENT REACTIONS						JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	8	248	174 / 0	0 / 0	0 / 0	0 / 0	75 / 0	0 / 0	5	319	236 / 0	0 / 0	0 / 0	0 / 0	83 / 0	0 / 0	C H O R D S				W E B S				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			1- 2	-491 / 0	-77.3 -77.3	0.17 (1)	6.25	6- 2	0 / 72	0.03 (4)	2- 3	-491 / 0	-77.3 -77.3	0.13 (1)	6.25	1- 6	0 / 468	0.11 (1)	3- 4	0 / 16	-77.3 -77.3	0.10 (1)	10.00	6- 3	0 / 472	0.11 (1)	7- 1	-341 / 0	0.0 0.0	0.03 (1)	7.81				5- 3	-456 / 0	0.0 0.0	0.05 (1)	7.81				8- 7	0 / 0	-94.8 -94.8	0.37 (1)	10.00				7- 6	0 / 0	-17.5 -17.5	0.37 (1)	10.00				6- 5	0 / 0	-17.5 -17.5	0.11 (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 (0.25") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05") ALLOWABLE DEFL.(TL)= L/360 (0.25") CALCULATED VERT. DEFL.(TL) = L/ 953 (0.09") CSI: TC=0.17 (1-2:1) , BC=0.37 (7-8:1) , WB=0.11 (3-6:1) , SSI=0.28 (7-8:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 822 2284 1656 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.85 (7) (INPUT = 0.90) JSI METAL= 0.19 (7) (INPUT = 1.00)				
	FACTORED		MAXIMUM FACTORED		INPUT	REQRD																																																																																																																																																																								
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A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

C H O R D S					W E B S				
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			
7-1	-100 / 0	0.0	0.0	0.02 (1)	7.81	7-2	-547 / 0	0.13 (1)	
1-2	-9 / 0	-77.3	-77.3	0.12 (1)	10.00	6-2	0 / 96	0.03 (4)	
2-3	-509 / 0	-77.3	-77.3	0.12 (1)	6.25	6-3	0 / 497	0.11 (1)	
3-4	0 / 16	-77.3	-77.3	0.10 (1)	10.00				
5-3	-445 / 0	0.0	0.0	0.04 (1)	7.81				
8-7	0 / 0	-17.5	-17.5	0.34 (1)	10.00				
7-6	0 / 491	-17.5	-17.5	0.42 (1)	10.00				
6-5	0 / 0	-17.5	-17.5	0.09 (1)	10.00				

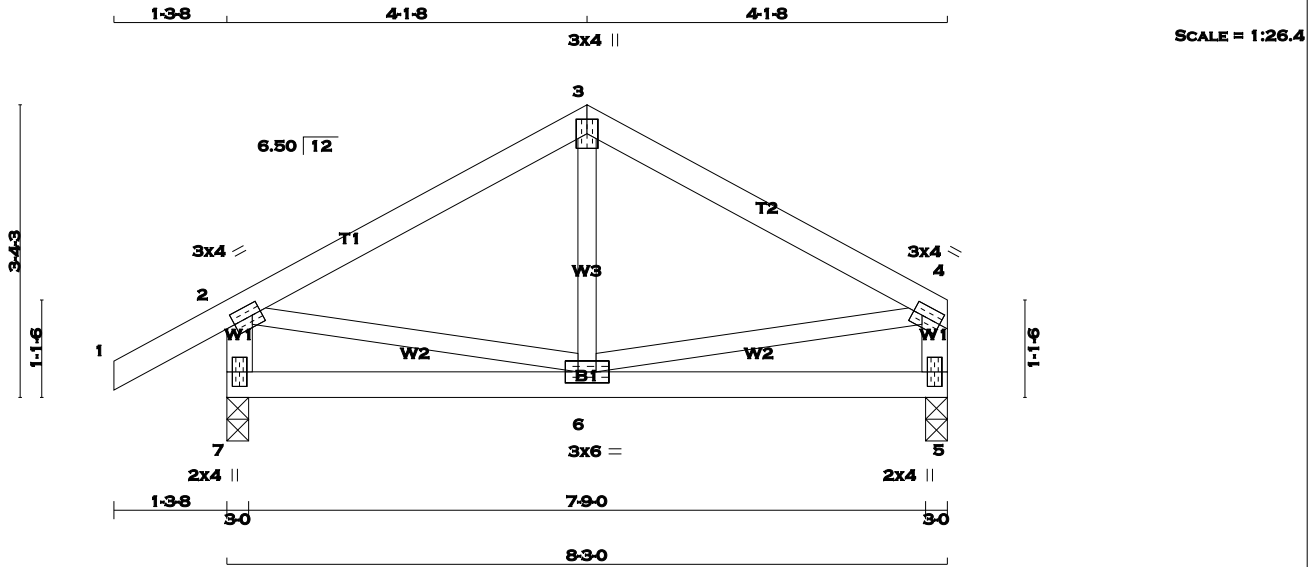
JSI GRIP= 0.79 (6) (INPUT = 0.90)
JSI METAL= 0.18 (7) (INPUT = 1.00)



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



ID:CvrZnhWk3AkzcGBuQAVgcOyl?Y8-EFvoubQjAhhMcGcWyyM2b?3DZLhUnuD1bBib7zb?S7



TOTAL WEIGHT = 3 X 32 = 96 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	
7 - 2	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
EXCEPT

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	TTW+p	MT20	3.0	4.0		
4	TMVW-t	MT20	3.0	4.0	1.50	1.25
5	BMV1+p	MT20	2.0	4.0		
6	BMVWW-t	MT20	3.0	6.0		
7	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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
7	497	0	497	0
5	391	0	391	0

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX/MIN. SNOW	MAX/MIN. LIVE	MAX/MIN. PERM. LIVE	WIND	DEAD	SOIL
7	346	255 / 0	0 / 0	0 / 0	0 / 0	91 / 0	0 / 0
5	275	192 / 0	0 / 0	0 / 0	0 / 0	83 / 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. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX (LC)	MEMB.	MAX. FORCE (LBS)	FACTORED MAX (LC)	
FR-TO		FROM	TO	FR-TO			
1-2	0 / 25	-77.3	-77.3 0.10 (1)	10.00	6-3	-20 / 64	0.02 (4)
2-3	-314 / 0	-77.3	-77.3 0.17 (1)	6.25	2-6	0 / 281	0.06 (1)
3-4	-314 / 0	-77.3	-77.3 0.17 (1)	6.25	6-4	0 / 281	0.06 (1)
7-2	-468 / 0	0.0	0.0 0.05 (1)	7.81			
5-4	-363 / 0	0.0	0.0 0.04 (1)	7.81			
7-6	0 / 0	-17.5	-17.5 0.08 (4)	10.00			
6-5	0 / 0	-17.5	-17.5 0.08 (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
- TPC 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 (0.28")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.28")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.17 (2-3:1), BC=0.08 (5-6:4), WB=0.06 (2-6:1), SSI=0.11 (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
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.68 (4) (INPUT = 0.90)
JSI METAL= 0.16 (2) (INPUT = 1.00)



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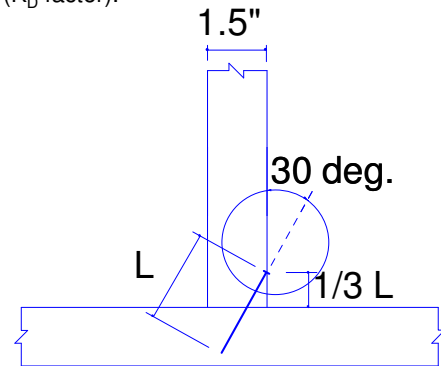
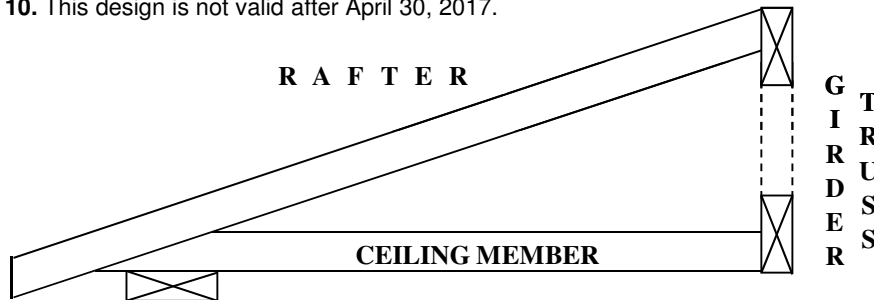
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

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
COMMON SPIRAL	3.00	0.122	97	108
	3.25	0.122	97	108
	3.50	0.152	145	162

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, 2017.



TOE-NAIL INSTALLATION

Nail type	Common wire	Common spiral	Common wire	Common spiral
Nail dia. (in)	0.160	0.152	0.144	0.122
	(3.5" nail)		(3" and 3.25" nail)	
LUMBER SIZE	MAXIMUM NUMBER OF TOE-NAILS			
2X4 SPF	2	2	3	3
2X4 D. Fir	2	2	2	2
2X6 SPF	4	4	4	5
2X6 D. Fir	3	3	3	4



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BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

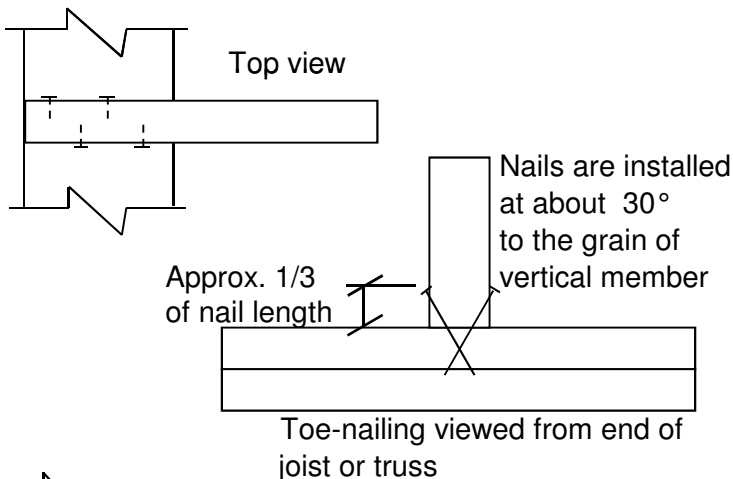
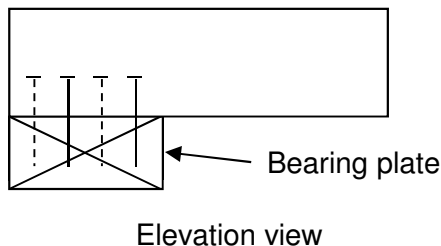
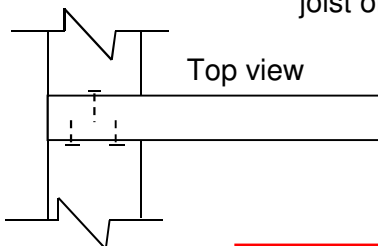
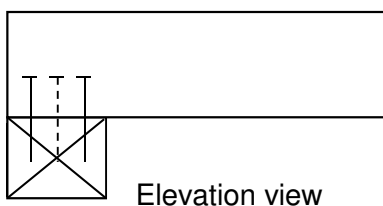
B37579H2

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
COMMON SPIRAL	3.00	0.122	26	36
	3.25	0.122	28	40
	3.50	0.152	36	50

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, 2017

Toe-nailing on 2x6 Bearing Plate**Toe-nailing on 2x4 Bearing Plate**

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JOB NAME DETAILS

JOB DESC.

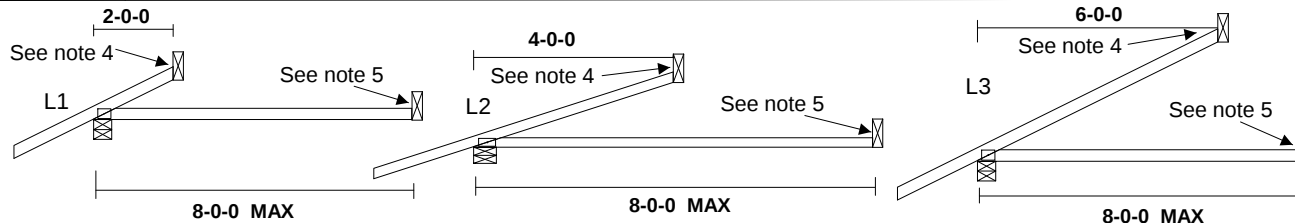
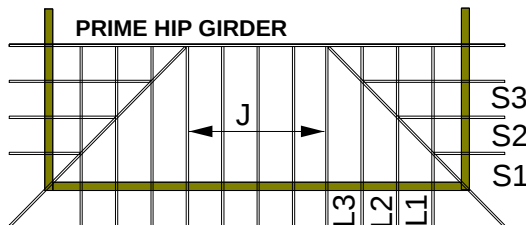
HIP END FRAMING

TOO BRIDGE-BLOCK 335

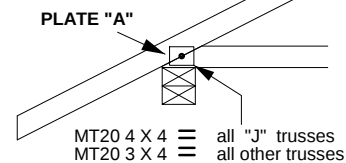
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B37579J

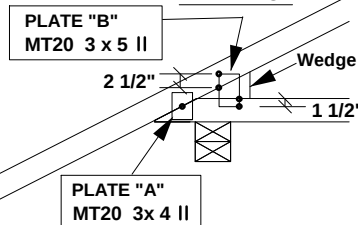
EMC JOB # P10317-075



DETAIL "A"



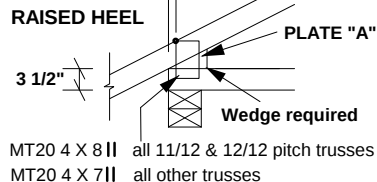
DETAIL "C"



CANTILEVER DETAIL "C"

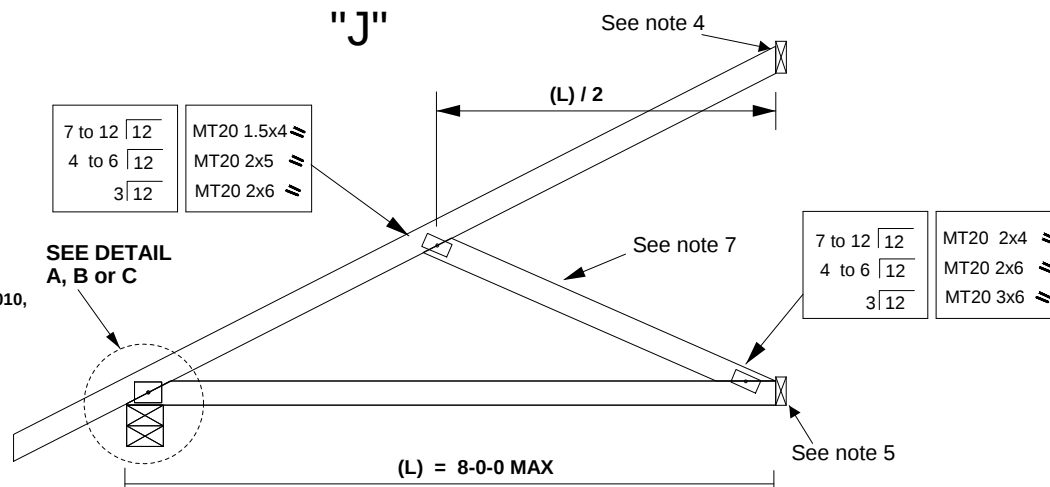
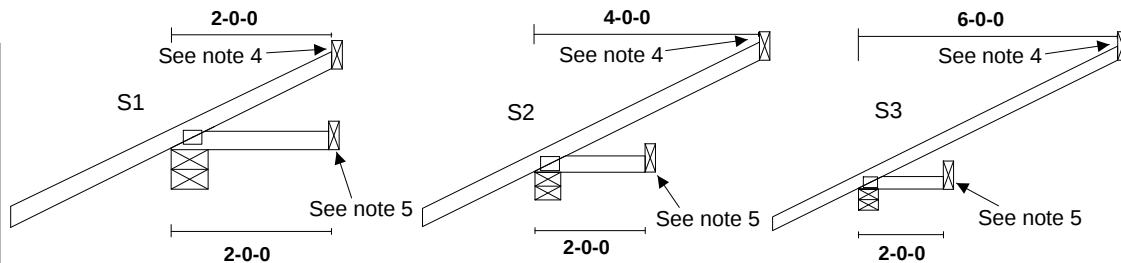
SLOPE	MAX CANTILEVER	PLATE "B"	WEDGE SIZE
3/12	17"	3 X 5	2 X 3
4/12	14"	3 X 5	2 X 3
5/12	12"	3 X 5	2 X 4
6/12	10"	3 X 5	2 X 4
7/12	9"	3 X 5	2 X 6
8/12	8.5"	3 X 5	2 X 6
9/12	8"	3 X 5	2 X 6
10/12	7.5"	3 X 5	2 X 6

DETAIL "B"



NOTES:

- ALL LUMBER SHALL BE 2x4 SPF OR D. Fir No. 2 DRY OR BETTER.
- THIS TRUSS IS DESIGNED FOR HOUSING AND SMALL BUILDING REQUIREMENTS OF PART 9 NBC 2010, WHERE GROUND SNOW LOAD IS 60.0 PSF OR LESS AND RAIN LOAD DOES NOT EXCEED 12.53 PSF; TOP CHORD DEAD LOAD IS 6 PSF OR LESS; BC LIVE LOAD IS 0 PSF AND BC DEAD LOAD IS 7 PSF.
- HIP RAFTER DESIGN SHALL CONFORM TO SECTION 9.23.14.6 OF NBC 2010.
- FASTEN HIGH END OF RAFTERS USING MITEK CANADA INC. "BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY" STANDARD DETAIL B37579H1.
- FASTEN RIGHT END OF CEILING USING MITEK CANADA INC. "BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY" STANDARD DETAIL B37579H1.
- OVERHANG LENGTH SHALL NOT EXCEED 2 FT.
- WHEN SETBACK IS 6 FT OR LESS, DIAGONAL WEB MAY BE OMITTED AND HIGH END OF TOP CHORD SHALL BE CONNECTED AS PER NOTE 4.
- ALL PLATES SPECIFIED ARE PRESSED INTO BOTH FACES OF THE TRUSS.
- MITEK REFERENCE PAGE MII-7473C FORMS AN INTEGRAL PART OF THIS DETAIL.
- THIS DETAIL IS NOT VALID AFTER APRIL 30, 2017



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Bradford, Ontario, L3Z 3G7

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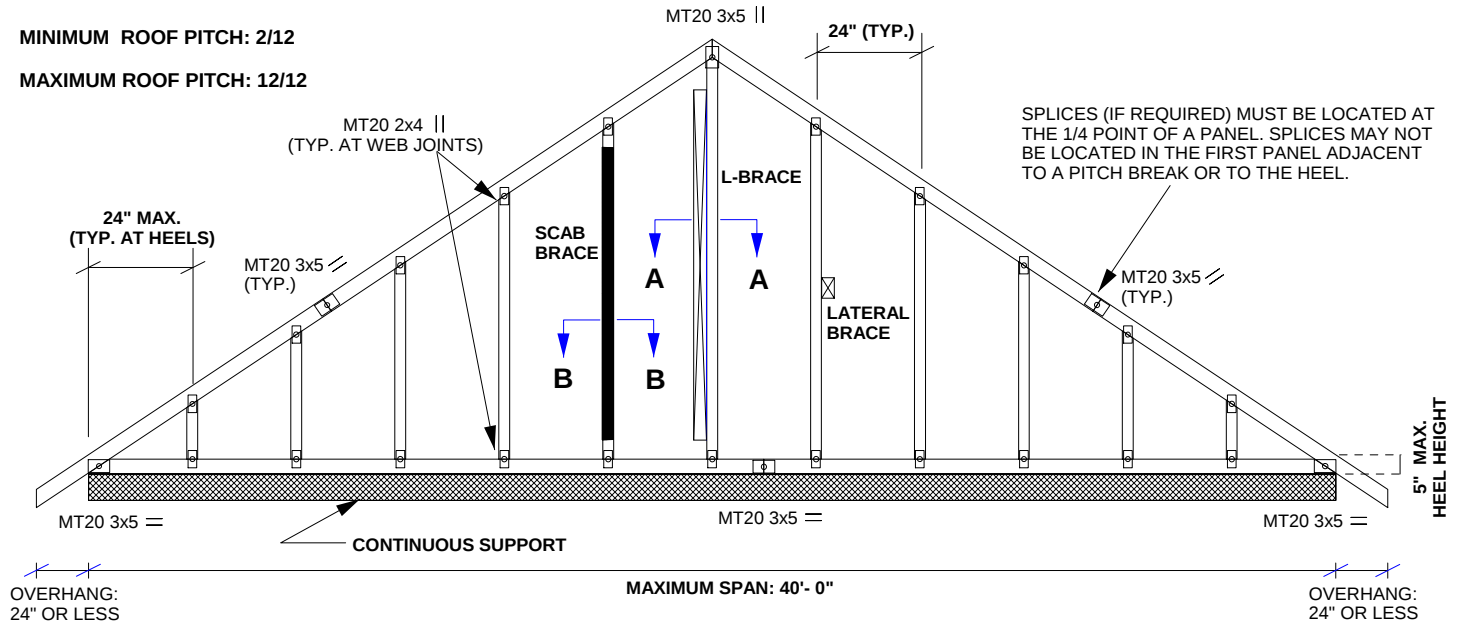


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MINIMUM ROOF PITCH: 2/12

MAXIMUM ROOF PITCH: 12/12



LUMBER

TOP CHORD: 2 X 4 No. 2 DRY SPF or D- Fir
 BOTTOM CHORD: 2 X 3 or 2 X 4 No. 2 DRY SPF or D- Fir
 GABLE WEB: 2 X 3 or 2 X 4 No. 2 DRY SPF or D- Fir

PLATES

JOINT PLATES
 HEELS MT20 3 X 5
 PEAK MT20 3 X 5
 TC SPLICES MT20 3 X 5
 BC SPLICES MT20 3 X 5
 WEB JOINTS MT20 2 X 4

DESIGN CRITERIA

TOP CHORD LL = 60.0 PSF OR LESS
 TOP CHORD DL = 6.0 PSF OR LESS
 BOTTOM CHORD LL = 0 PSF
 BOTTOM CHORD DL = 7.0 PSF

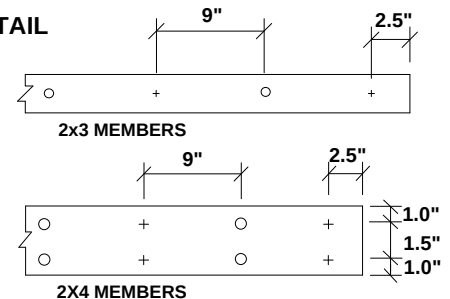
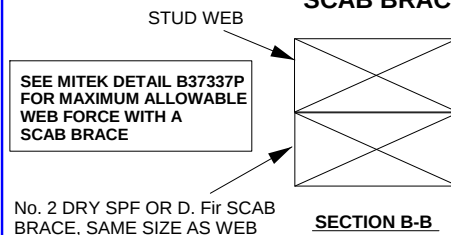
TOTAL LOAD = 73.0 PSF OR LESS

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10 FT. OR RIGID CEILING DIRECTLY APPLIED.
 WEBS MUST BE Laterally Braced, SCAB BRACED OR L-BRACED AS INDICATED IN TABLE BELOW:

WEB LENGTH (L)	SCAB BRACE	L-BRACE	LATERAL BRACE
L < 6 FT.	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED
6 FT. < L < 12 FT.	REQUIRED	2x4 L-BRACE	1 LATERAL AT 1/2 LENGTH OF WEB

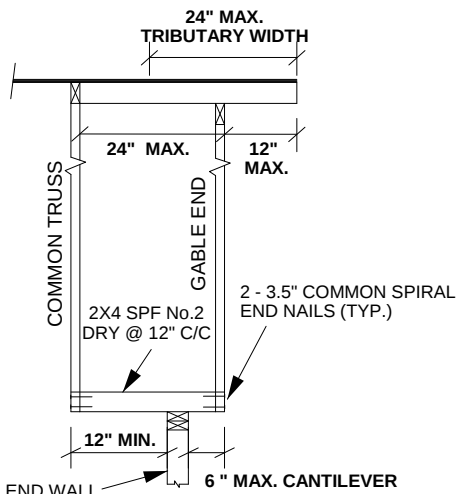
SCAB BRACE DETAIL



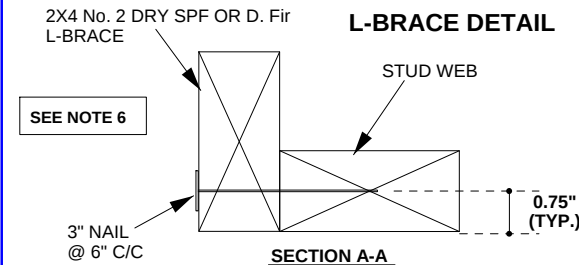
FASTEN SCAB BRACE TO ONE FACE OF WEB WITH 9-3/4 GAUGE 0.122" X 3" COMMON SPIRAL NAILS SPACED @ 9" C/C (MAX) WITH 2.5" MINIMUM END DISTANCE. SCAB BRACE MUST COVER 90% OF WEB LENGTH. DRIVE NAILS ALTERNATELY FROM FRONT AND BACK FACES.

CANTILEVER DETAIL

Note: Gable end may be cantilevered up to 6 inches past end wall as shown. Gable end to be continuously supported by 2x4 SPF No.2 (DRY) members at 12" o.c. along the bottom chord. Roof design loads shall not exceed the loading shown above.



L-BRACE DETAIL



FASTEN L-BRACE TO NARROW EDGE OF WEB WITH ONE ROW OF 9-3/4 GAUGE 0.122" X 3" COMMON SPIRAL NAILS SPACED AT 6" C/C WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.

NOTES:

- Gable studs are spaced at 24" C/C (max.) with a max. length of 12 ft.
- All plates specified are MiTek MT20, centered at each joint, and pressed into both faces of truss.
- Truss spacing is 24" C/C, maximum.
- Gable truss is designed for continuous support. Bearing material must be of the same species as chord member and of grade No. 2 or better.
- This truss requires rigid sheathing attached to exposed face.
- 2x3 or 2x4 T-braces shown for gable webs in the MiTek engineering drawings may be replaced by a 2x4 L-brace as shown above.
- This truss is designed for residential or small building requirements, conforming to Part 9, NBCC 2010.
- This detail is not valid after April 30, 2017.

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