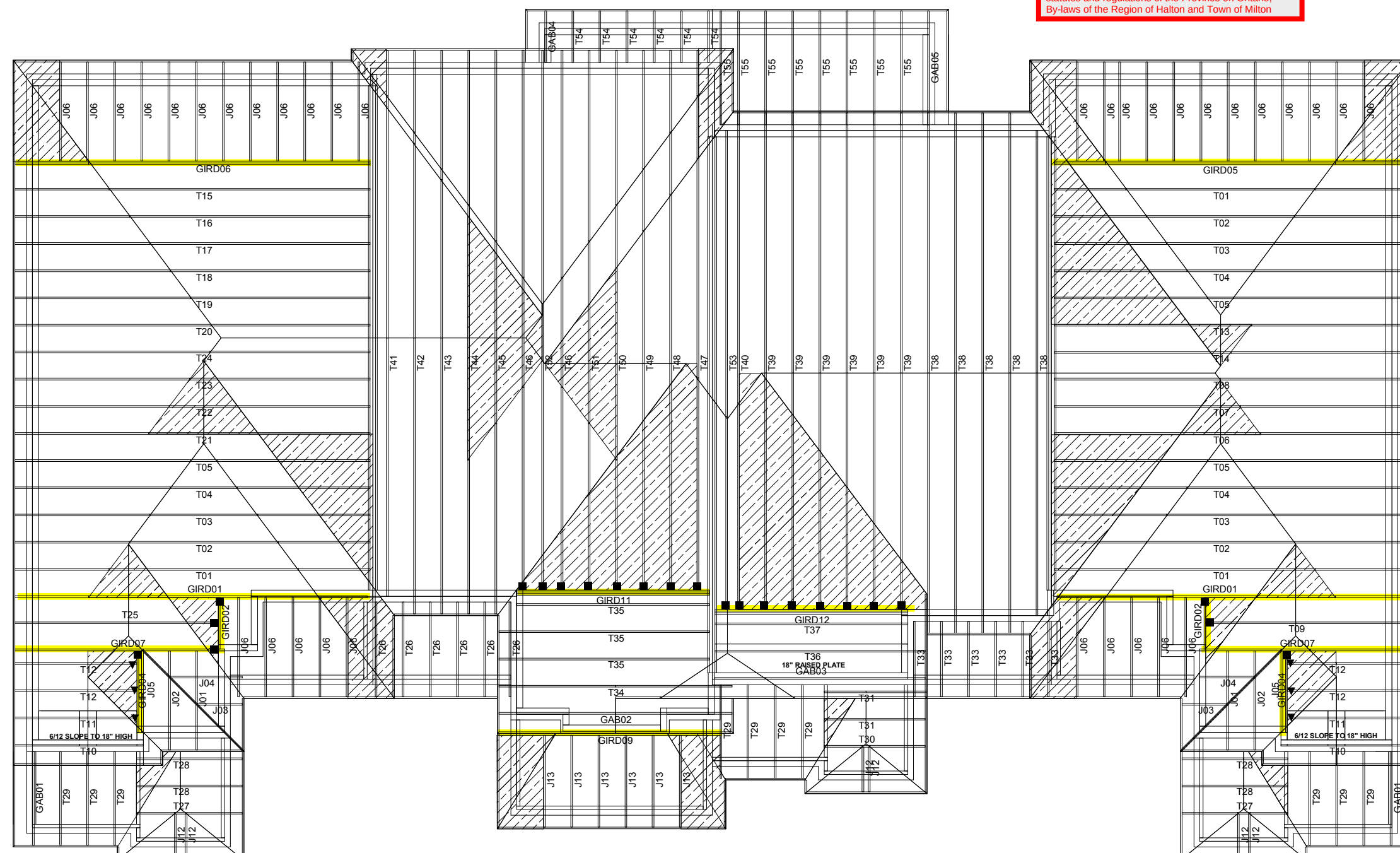


 **TOWN OF MILTON**
PLANNING AND DEVELOPMENT
BUILDING PERMIT: 17-5058
BUILDING: REVIEWED
SCOTT SHERRIFFS **APR 20, 2017**
PLANS EXAMINER **DATE**
Neither the issuance of a permit nor carrying out of inspections by the Town of Milton relieves the owner from full responsibility for compliance with the provisions 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

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TOWN OF MILTON
MAR 29, 2017
17-5058
BUILDING DIVISION



IVY-6E
EL 1
333-1

IVY-5
EL 1
333-2

IVY-4
EL 1
333-3

IVY-6E
EL 1
333-4

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

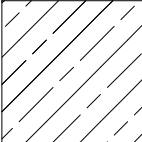
UNDERSIDE OF SOFFIT
FOR PORCHES AT
8' 6" A.F.F.

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 333**
Customer: **GREENPARK**
Project: **LECCO RIDGE**
Location: **MILTON**
Date: **3/13/2017** Drawn by: **BB**

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.



01/29/2013

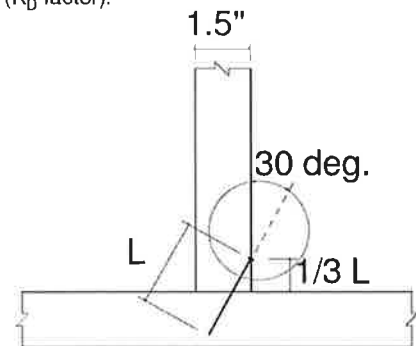
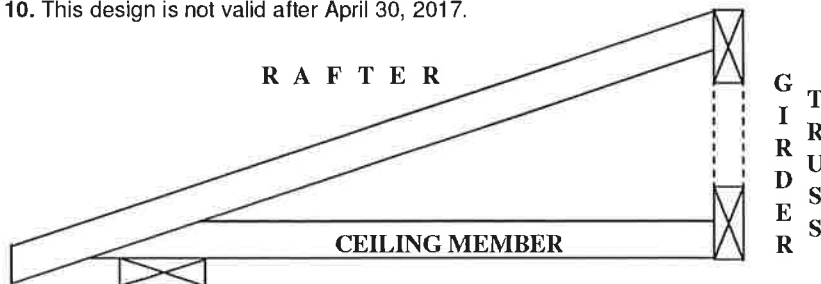
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

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



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

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April 24, 2015

BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

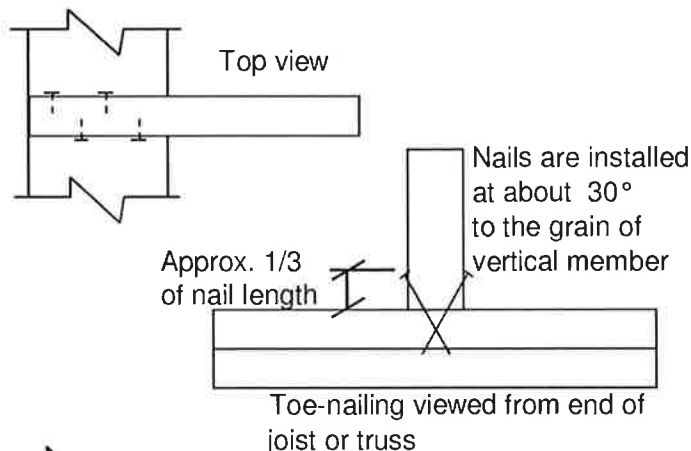
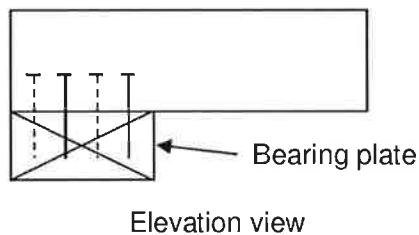
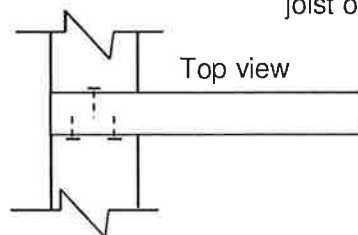
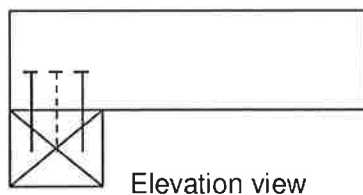
B37579H2

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**

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

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PEO
Certificate No. 10889485



April 24, 2015

JOB NAME

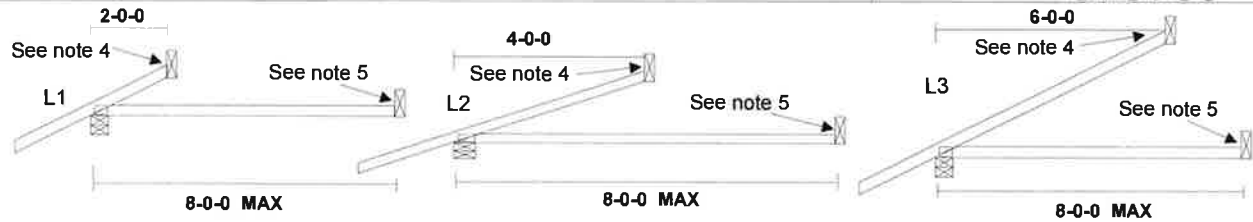
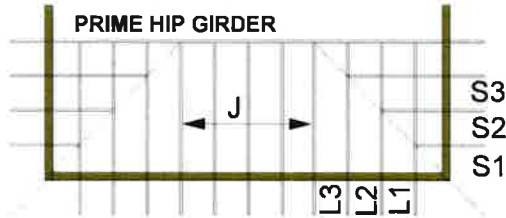
DETAILS

JOB DESC.

HIP END FRAMING

DRAWING NO.

B37579J



DETAIL "A"

PLATE "A"

MT20 4 X 4 = all "J" trusses
MT20 3 X 4 = all other trusses

DETAIL "B"

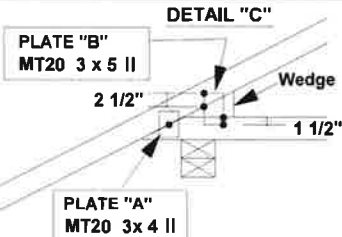
RAISED HEEL

PLATE "A"

3 1/2"

Wedge required

MT20 4 X 8 II all 11/12 & 12/12 pitch trusses
MT20 4 X 7 II all other trusses

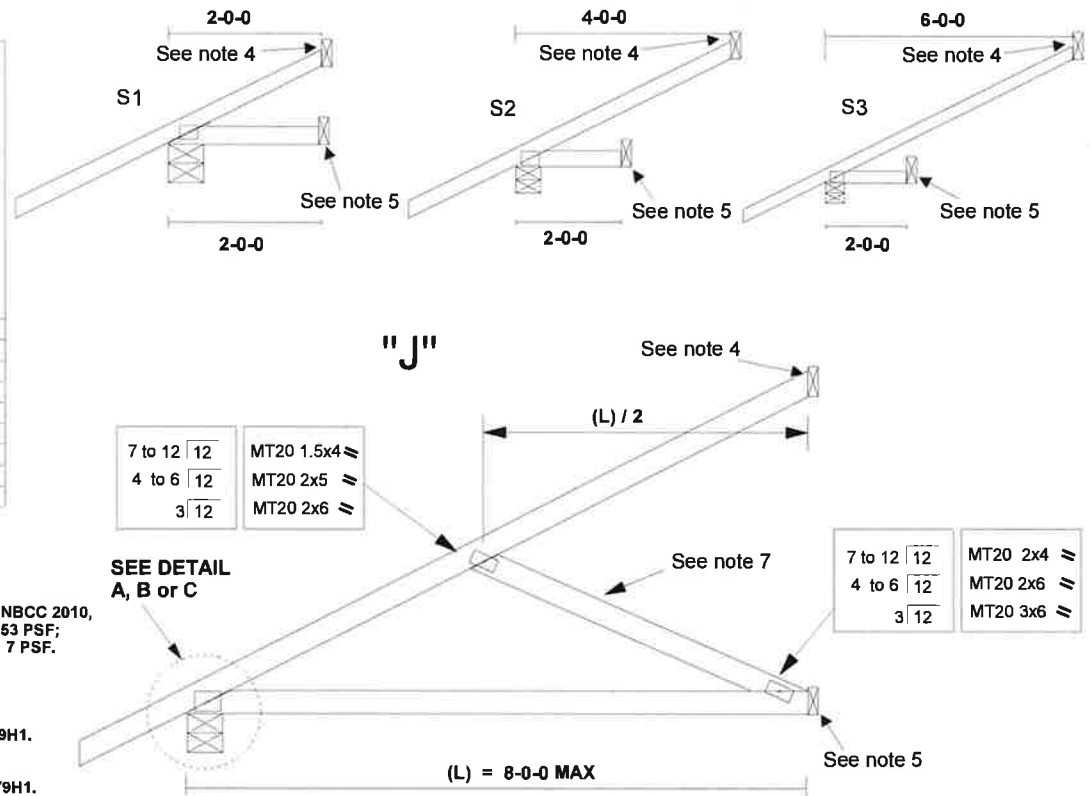


CANTILEVER DETAIL "C"

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

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 NBCC 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 NBCC 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

SEE DETAIL
A, B or C

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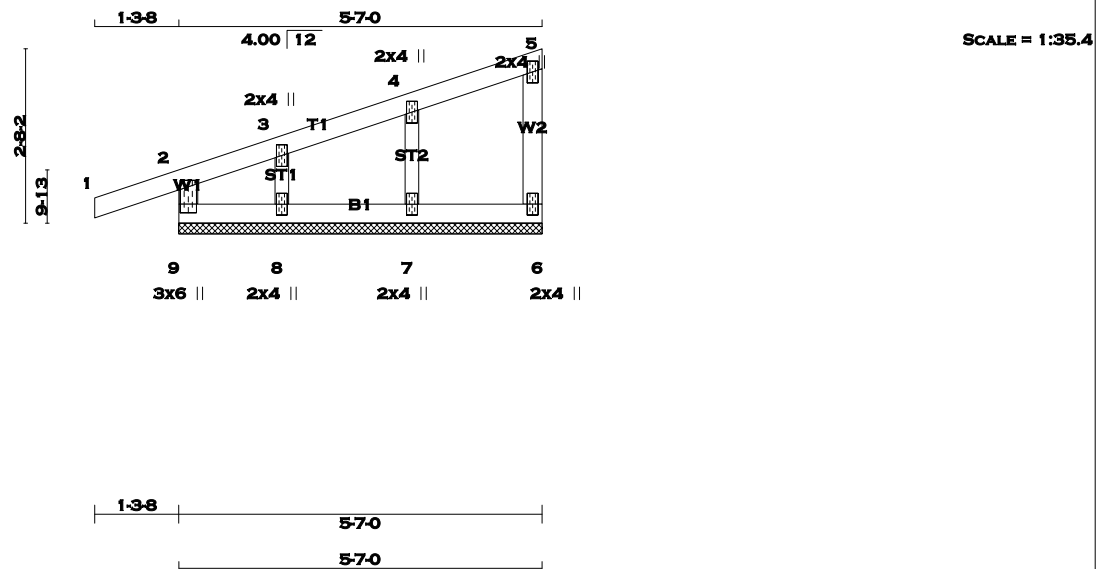
PEO
Certificate No. 10889485



MiTek Canada, Inc.

100 Industrial Rd.
Bradford, Ontario, L3Z 3G7

April 24, 2015



TOTAL WEIGHT = 2 X 19 = 39 lb [M]

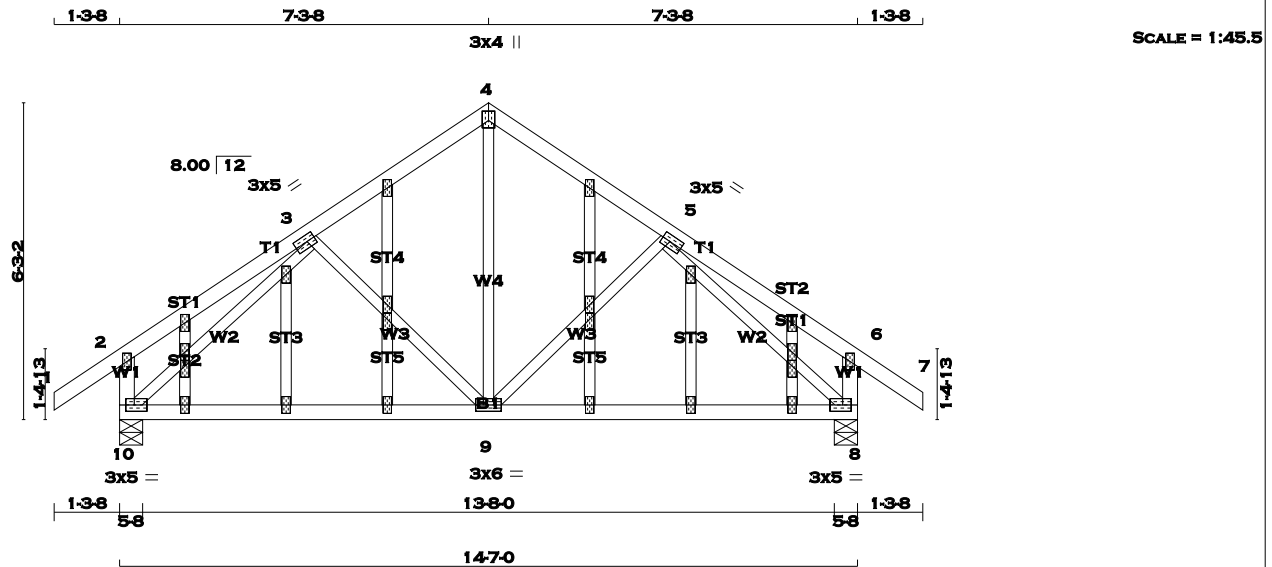
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. 9 - 2 2x4 DRY No.2 SPF 1 - 5 2x4 DRY No.2 SPF 6 - 5 2x4 DRY No.2 SPF 9 - 6 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF ALL GABLE WEBS 2x3 DRY No.2 SPF DRY: SEASONED LUMBER. GABLE STUDS SPACED AT 2-0-0 OC.						DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED 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 (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)																																																																																															
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.						<table><tr><th colspan="4">CHORDS</th><th colspan="4">WEBS</th></tr><tr><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>FACTORED VERT. LOAD (PLF)</th><th>MAX LC1 (LC)</th><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>FACTORED UNBRAC LENGTH (LC)</th><th>MAX LC1 (LC)</th></tr><tr><td>FR-TO</td><td></td><td>FROM TO</td><td></td><td>FR-TO</td><td></td><td></td><td></td></tr><tr><td>9-2</td><td>-195 / 0</td><td>0.0</td><td>0.0 0.03 (1)</td><td>7-8</td><td>-177 / 0</td><td>0.03 (1)</td><td></td></tr><tr><td>1-2</td><td>0 / 16</td><td>-77.3</td><td>-77.3 0.10 (1)</td><td>8-3</td><td>-97 / 0</td><td>0.01 (1)</td><td></td></tr><tr><td>2-3</td><td>-24 / 0</td><td>-77.3</td><td>-77.3 0.07 (1)</td><td></td><td></td><td></td><td></td></tr><tr><td>3-4</td><td>-7 / 0</td><td>-77.3</td><td>-77.3 0.04 (1)</td><td></td><td></td><td></td><td></td></tr><tr><td>4-5</td><td>-9 / 0</td><td>-77.3</td><td>-77.3 0.04 (1)</td><td></td><td></td><td></td><td></td></tr><tr><td>6-5</td><td>-66 / 0</td><td>0.0</td><td>0.0 0.01 (1)</td><td></td><td></td><td></td><td></td></tr><tr><td>9-8</td><td>0 / 15</td><td>-17.5</td><td>-17.5 0.03 (1)</td><td></td><td></td><td></td><td></td></tr><tr><td>8-7</td><td>0 / 10</td><td>-17.5</td><td>-17.5 0.02 (4)</td><td></td><td></td><td></td><td></td></tr><tr><td>7-6</td><td>0 / 5</td><td>-17.5</td><td>-17.5 0.02 (4)</td><td></td><td></td><td></td><td></td></tr></table>						CHORDS				WEBS				MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED UNBRAC LENGTH (LC)	MAX LC1 (LC)	FR-TO		FROM TO		FR-TO				9-2	-195 / 0	0.0	0.0 0.03 (1)	7-8	-177 / 0	0.03 (1)		1-2	0 / 16	-77.3	-77.3 0.10 (1)	8-3	-97 / 0	0.01 (1)		2-3	-24 / 0	-77.3	-77.3 0.07 (1)					3-4	-7 / 0	-77.3	-77.3 0.04 (1)					4-5	-9 / 0	-77.3	-77.3 0.04 (1)					6-5	-66 / 0	0.0	0.0 0.01 (1)					9-8	0 / 15	-17.5	-17.5 0.03 (1)					8-7	0 / 10	-17.5	-17.5 0.02 (4)					7-6	0 / 5	-17.5	-17.5 0.02 (4)				
CHORDS				WEBS																																																																																																							
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7-6	0 / 5	-17.5	-17.5 0.02 (4)																																																																																																								

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.



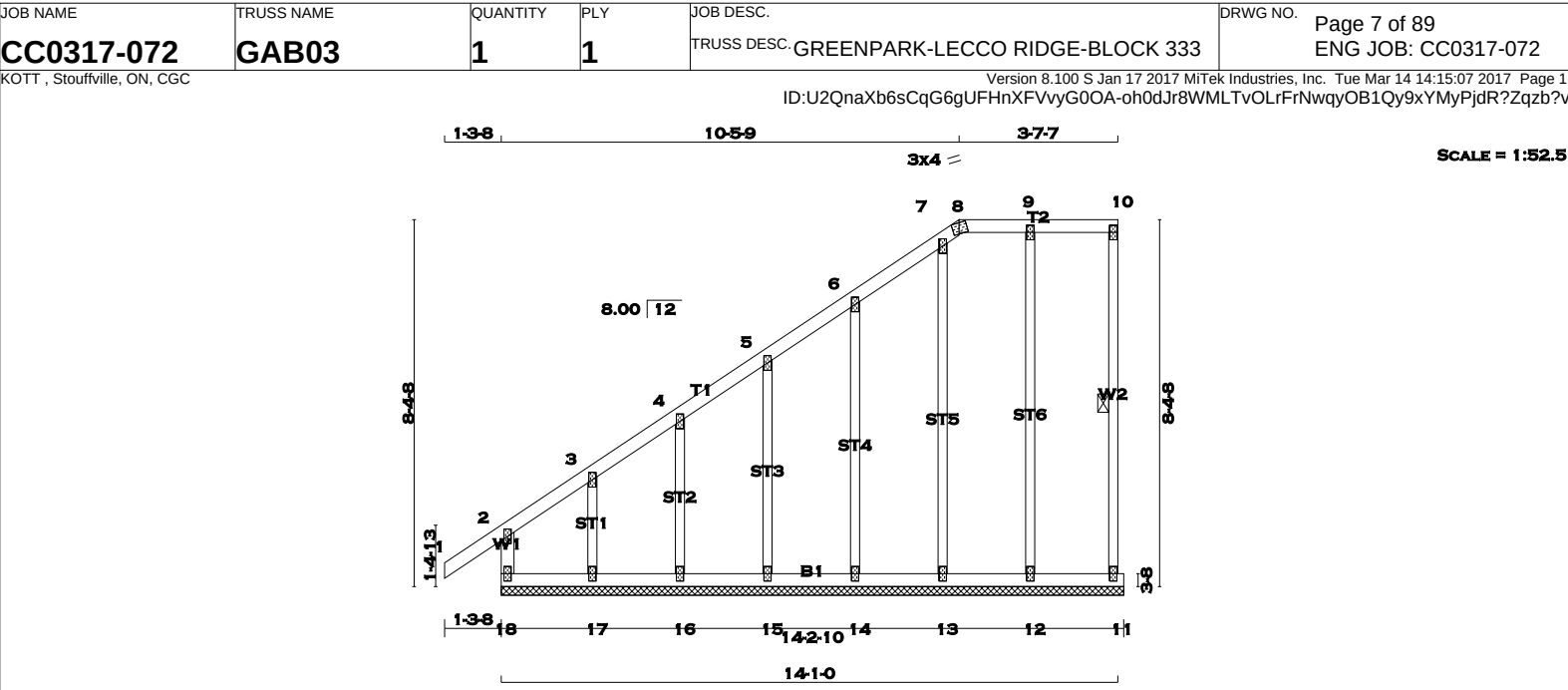
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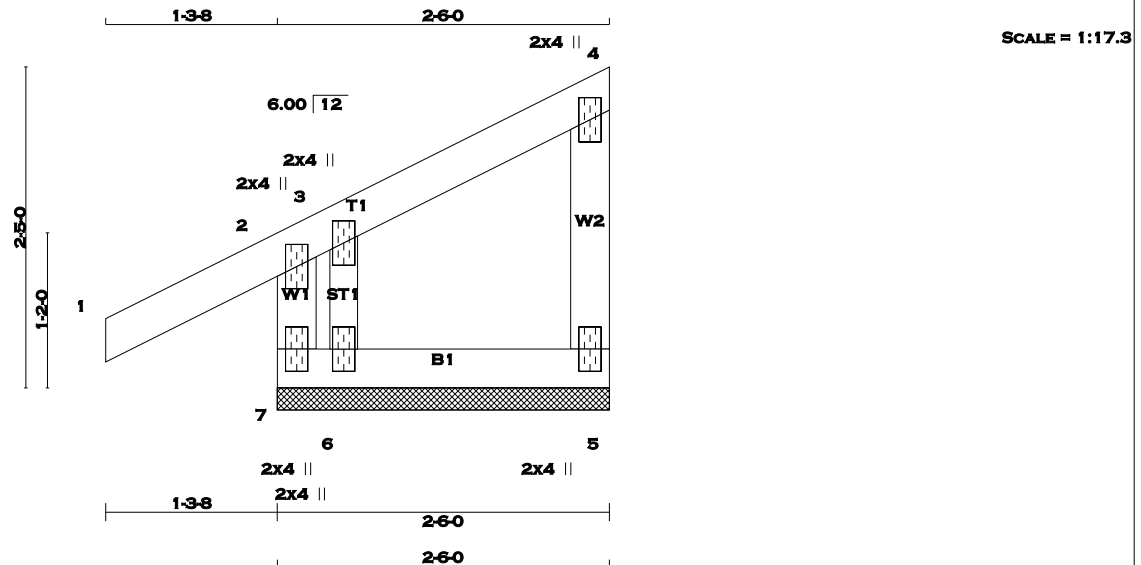


TOTAL WEIGHT = 77 lb
[M][F]

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 GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG		TOP CH. LL = 23.3 PSF							
1 - 4	2x4	DRY	No.2	SPF	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX					DL = 3.0 PSF				
4 - 7	2x4	DRY	No.2	SPF	10	798	0	798	0	0	5-8	5-8				BOT CH. LL = 0.0 PSF				
10 - 2	2x4	DRY	No.2	SPF	8	798	0	798	0	0	5-8	5-8				DL = 7.0 PSF				
8 - 6	2x4	DRY	No.2	SPF											TOTAL LOAD = 33.3 PSF					
10 - 8	2x4	DRY	No.2	SPF																
ALL WEBS 2x3 DRY No.2 SPF EXCEPT					UNFACTORED REACTIONS										SPACING = 24.0 IN./C					
ALL GABLE WEBS 2x3 DRY No.2 SPF DRY: SEASONED LUMBER.					1ST LCASE		MAX./MIN. COMPONENT REACTIONS								THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010					
					COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL									
					10	558	403 / 0	0 / 0	0 / 0	0 / 0	0 / 0	154 / 0	0 / 0							
					8	558	403 / 0	0 / 0	0 / 0	0 / 0	0 / 0	154 / 0	0 / 0							
GABLE STUDS SPACED AT 2-0-0 OC.					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.															
PLATES (table is in inches)					LOADING															
JT	TYPE	PLATES	W	LEN	Y	X	TOTAL LOAD CASES: (4)													
2	TMV+p	MT20	2.0	4.0			CHORDS		WEBS											
3	TMWW-t	MT20	3.0	5.0	1.50	2.00	MAX. FACTORED		MAX. FACTORED		MAX. FACTORED		MAX. FACTORED							
4	TTW+p	MT20	3.0	4.0	2.25	1.50	MEMB. FORCE (LBS)		MEMB. FORCE (LBS)		MEMB. FORCE (LBS)		MEMB. FORCE (LBS)							
5	TMWW-t	MT20	3.0	5.0	1.50	2.00	VERT. LOAD		VERT. LOAD		VERT. LOAD		VERT. LOAD							
6	TMV+p	MT20	2.0	4.0			LC1 MAX		LC1 MAX		LC1 MAX		LC1 MAX							
8	BMVW1-t	MT20	3.0	5.0	1.50	2.00	FROM TO		FROM TO		FROM TO		FROM TO							
9	BMVWW-t	MT20	3.0	6.0			UNBRAC		UNBRAC		UNBRAC		UNBRAC							
10	BMVW1-t	MT20	3.0	5.0	1.50	2.00	LENGTH		LENGTH		LENGTH		LENGTH							
11, 16, 21, 26							FR-TO		FR-TO		FR-TO		FR-TO							
11	NP+w	MT20	2.0	4.0	1.50	1.00	1-2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	9-4	0 / 375	0.08 (1)					
11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26							2-3	0 / 18	-77.3	-77.3	0.16 (1)	10.00	9-5	-156 / 5	0.07 (1)					
11	NP+w	MT20	2.0	4.0			3-4	-550 / 0	-77.3	-77.3	0.13 (1)	6.25	3-9	-156 / 5	0.07 (1)					
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.																				



LUMBER N. L. G. A. RULES CHORDS SIZE 18- 2 2x4 DRY No.2 SPF 1 - 8 2x4 DRY No.2 SPF 8 - 10 2x4 DRY No.2 SPF 11- 10 2x3 DRY No.2 SPF 18- 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 = 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 = 20-0-0 . CBF = 8 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) <table><tr><th colspan="2">CHORDS</th><th colspan="2">FACTORED</th><th colspan="2">WEBS</th></tr><tr><th>MEMB.</th><th>MAX. FORCE (LBS)</th><th>VERT. LOAD (PLF)</th><th>LC1 MAX. (LC)</th><th>MEMB.</th><th>MAX. FORCE (LBS)</th></tr><tr><td>FR-TO</td><td></td><td>FROM TO</td><td></td><td>FR-TO</td><td></td></tr><tr><td>18- 2</td><td>-195 / 0</td><td>0.0</td><td>0.0 0.01 (1)</td><td>7.81</td><td>12- 9</td><td>-172 / 0</td></tr><tr><td>1- 2</td><td>0 / 29</td><td>-77.3</td><td>-77.3 0.10 (1)</td><td>10.00</td><td>13- 7</td><td>-155 / 0</td></tr><tr><td>2- 3</td><td>-19 / 0</td><td>-77.3</td><td>-77.3 0.04 (1)</td><td>6.25</td><td>14- 6</td><td>-154 / 0</td></tr><tr><td>3- 4</td><td>-12 / 0</td><td>-77.3</td><td>-77.3 0.04 (1)</td><td>6.25</td><td>15- 5</td><td>-153 / 0</td></tr><tr><td>4- 5</td><td>-8 / 0</td><td>-77.3</td><td>-77.3 0.04 (1)</td><td>10.00</td><td>16- 4</td><td>-153 / 0</td></tr><tr><td>5- 6</td><td>-5 / 0</td><td>-77.3</td><td>-77.3 0.04 (1)</td><td>10.00</td><td>17- 3</td><td>-150 / 0</td></tr><tr><td>6- 7</td><td>-3 / 0</td><td>-77.3</td><td>-77.3 0.04 (1)</td><td>10.00</td><td></td><td></td></tr><tr><td>7- 8</td><td>-36 / 0</td><td>-77.3</td><td>-77.3 0.03 (1)</td><td>6.25</td><td></td><td></td></tr><tr><td>8- 9</td><td>0 / 0</td><td>-77.3</td><td>-77.3 0.04 (1)</td><td>10.00</td><td></td><td></td></tr><tr><td>9-10</td><td>0 / 0</td><td>-77.3</td><td>-77.3 0.04 (1)</td><td>10.00</td><td></td><td></td></tr><tr><td>11-10</td><td>-65 / 0</td><td>0.0</td><td>0.0 0.01 (1)</td><td>6.25</td><td></td><td></td></tr><tr><td>18-17</td><td>0 / 15</td><td>-17.5</td><td>-17.5 0.02 (4)</td><td>10.00</td><td></td><td></td></tr><tr><td>17-16</td><td>0 / 10</td><td>-17.5</td><td>-17.5 0.02 (4)</td><td>10.00</td><td></td><td></td></tr><tr><td>16-15</td><td>0 / 7</td><td>-17.5</td><td>-17.5 0.01 (4)</td><td>10.00</td><td></td><td></td></tr><tr><td>15-14</td><td>0 / 4</td><td>-17.5</td><td>-17.5 0.01 (4)</td><td>10.00</td><td></td><td></td></tr><tr><td>14-13</td><td>0 / 2</td><td>-17.5</td><td>-17.5 0.01 (4)</td><td>10.00</td><td></td><td></td></tr><tr><td>13-12</td><td>0 / 0</td><td>-17.5</td><td>-17.5 0.02 (4)</td><td>10.00</td><td></td><td></td></tr><tr><td>12-11</td><td>0 / 0</td><td>-17.5</td><td>-17.5 0.02 (4)</td><td>10.00</td><td></td><td></td></tr></table>		CHORDS		FACTORED		WEBS		MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX. (LC)	MEMB.	MAX. FORCE (LBS)	FR-TO		FROM TO		FR-TO		18- 2	-195 / 0	0.0	0.0 0.01 (1)	7.81	12- 9	-172 / 0	1- 2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	13- 7	-155 / 0	2- 3	-19 / 0	-77.3	-77.3 0.04 (1)	6.25	14- 6	-154 / 0	3- 4	-12 / 0	-77.3	-77.3 0.04 (1)	6.25	15- 5	-153 / 0	4- 5	-8 / 0	-77.3	-77.3 0.04 (1)	10.00	16- 4	-153 / 0	5- 6	-5 / 0	-77.3	-77.3 0.04 (1)	10.00	17- 3	-150 / 0	6- 7	-3 / 0	-77.3	-77.3 0.04 (1)	10.00			7- 8	-36 / 0	-77.3	-77.3 0.03 (1)	6.25			8- 9	0 / 0	-77.3	-77.3 0.04 (1)	10.00			9-10	0 / 0	-77.3	-77.3 0.04 (1)	10.00			11-10	-65 / 0	0.0	0.0 0.01 (1)	6.25			18-17	0 / 15	-17.5	-17.5 0.02 (4)	10.00			17-16	0 / 10	-17.5	-17.5 0.02 (4)	10.00			16-15	0 / 7	-17.5	-17.5 0.01 (4)	10.00			15-14	0 / 4	-17.5	-17.5 0.01 (4)	10.00			14-13	0 / 2	-17.5	-17.5 0.01 (4)	10.00			13-12	0 / 0	-17.5	-17.5 0.02 (4)	10.00			12-11	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 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 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 (17-18:4) , WB=0.24 (9-12:1) , SSI=0.07 (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= 0.14 (2) (INPUT = 0.90) JSI METAL= 0.05 (2) (INPUT = 1.00)	
CHORDS		FACTORED		WEBS																																																																																																																																																	
MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX. (LC)	MEMB.	MAX. FORCE (LBS)																																																																																																																																																
FR-TO		FROM TO		FR-TO																																																																																																																																																	
18- 2	-195 / 0	0.0	0.0 0.01 (1)	7.81	12- 9	-172 / 0																																																																																																																																															
1- 2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	13- 7	-155 / 0																																																																																																																																															
2- 3	-19 / 0	-77.3	-77.3 0.04 (1)	6.25	14- 6	-154 / 0																																																																																																																																															
3- 4	-12 / 0	-77.3	-77.3 0.04 (1)	6.25	15- 5	-153 / 0																																																																																																																																															
4- 5	-8 / 0	-77.3	-77.3 0.04 (1)	10.00	16- 4	-153 / 0																																																																																																																																															
5- 6	-5 / 0	-77.3	-77.3 0.04 (1)	10.00	17- 3	-150 / 0																																																																																																																																															
6- 7	-3 / 0	-77.3	-77.3 0.04 (1)	10.00																																																																																																																																																	
7- 8	-36 / 0	-77.3	-77.3 0.03 (1)	6.25																																																																																																																																																	
8- 9	0 / 0	-77.3	-77.3 0.04 (1)	10.00																																																																																																																																																	
9-10	0 / 0	-77.3	-77.3 0.04 (1)	10.00																																																																																																																																																	
11-10	-65 / 0	0.0	0.0 0.01 (1)	6.25																																																																																																																																																	
18-17	0 / 15	-17.5	-17.5 0.02 (4)	10.00																																																																																																																																																	
17-16	0 / 10	-17.5	-17.5 0.02 (4)	10.00																																																																																																																																																	
16-15	0 / 7	-17.5	-17.5 0.01 (4)	10.00																																																																																																																																																	
15-14	0 / 4	-17.5	-17.5 0.01 (4)	10.00																																																																																																																																																	
14-13	0 / 2	-17.5	-17.5 0.01 (4)	10.00																																																																																																																																																	
13-12	0 / 0	-17.5	-17.5 0.02 (4)	10.00																																																																																																																																																	
12-11	0 / 0	-17.5	-17.5 0.02 (4)	10.00																																																																																																																																																	
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.		RECEIVED TOWN OF MILTON MAR 29, 2017 17-5058 BUILDING DIVISION		LICENSED PROFESSIONAL ENGINEER C.G. CARSON 100076892 PROVINCE OF ONTARIO 14 MAR 2017 KOTT																																																																																																																																																	



TOTAL WEIGHT = 11 lb [M]

LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
7 - 2	2x4	DRY	No.2		SPF
1 - 4	2x4	DRY	No.2		SPF
5 - 4	2x4	DRY	No.2		SPF
7 - 5	2x4	DRY	No.2		SPF
ALL WEBS 2x3 DRY No.2					SPF
ALL GABLE WEBS 2x3 DRY No.2					SPF
DRY: SEASONED LUMBER.					
GABLE STUDS SPACED AT 2'-0" OC.					

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

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

PROVIDE ANCHORAGE AT BEARING JOINT 6 FOR 150 LBS. FACTORED UPLIFT 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: (5)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO		FROM TO			FR-TO		
7-2	-218 / 0	0.0	0.0 0.02 (5)	7.81	6-3	-16 / 103	0.02 (5)
1-2	0 / 23	-77.3	-77.3 0.10 (1)	10.00			
2-3	-48 / 0	-77.3	-77.3 0.09 (1)	6.25			
3-4	-12 / 0	-77.3	-77.3 0.03 (1)	6.25			
5-4	-70 / 0	0.0	0.0 0.02 (1)	7.81			
7-6	-7 / 9	-17.5	-17.5 0.02 (1)	10.00			
6-5	-1 / 8	-17.5	-17.5 0.01 (4)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

DESIGN ASSUMPTIONS
- 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 (6-7:1), WB=0.02 (3-6:5), SSI=0.08 (2-3:5)

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

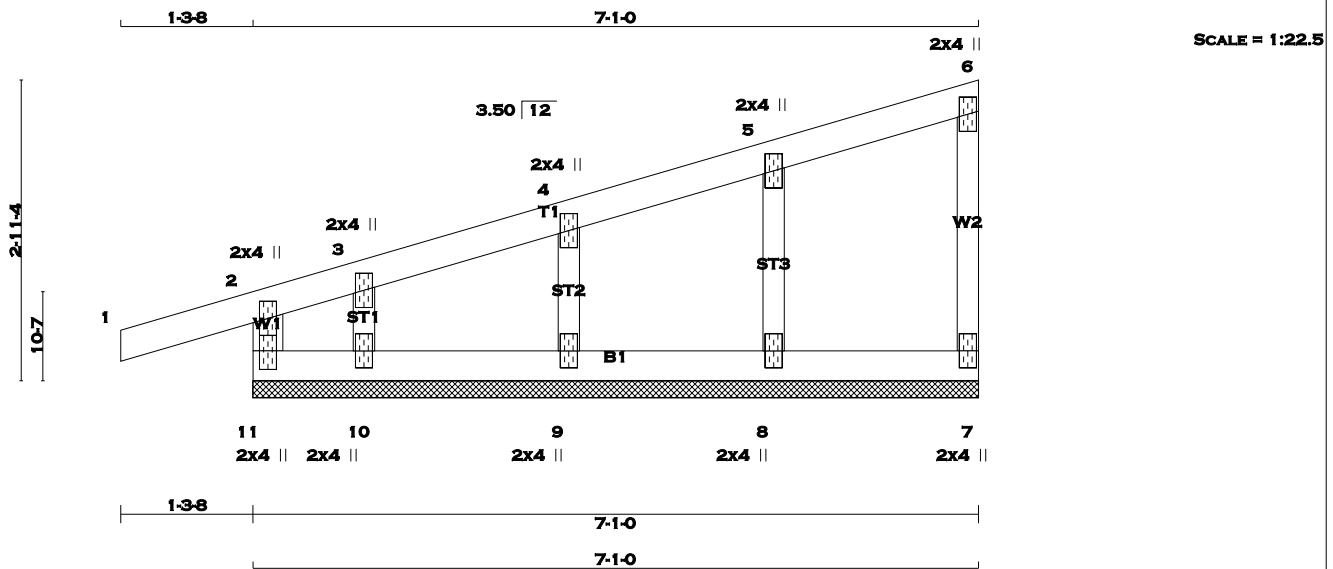
READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



RECEIVED
TOWN OF MILTON

MAR 29, 2017
17-5058
BUILDING DIVISION





TOTAL WEIGHT = 23 lb [M]

LUMBER					N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.		CHORDS	SIZE	LUMBER	DESCR.	
11 - 2	2x4	DRY	No.2	SPF	11 - 2	2x4	DRY	No.2	SPF
1 - 6	2x4	DRY	No.2	SPF	1 - 6	2x4	DRY	No.2	SPF
7 - 6	2x3	DRY	No.2	SPF	7 - 6	2x3	DRY	No.2	SPF
11 - 7	2x4	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" 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	2.25	1.00	
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.							

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.



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)	FACTORED UNBRAC LENGTH (LC)	MAX (LC)
FR-TO		FROM TO		FR-TO			
11-2	-189 / 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	-161 / 0	0.02 (1)
2-3	-26 / 0	-77.3	-77.3 0.07 (1)	6.25	10-3	-67 / 0	0.01 (1)
3-4	-9 / 0	-77.3	-77.3 0.04 (1)	10.00			
4-5	-7 / 0	-77.3	-77.3 0.04 (1)	10.00			
5-6	-7 / 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 / 11	-17.5	-17.5 0.01 (4)	10.00			
9-8	0 / 7	-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
MT20	618	354	1667 822 2284 1656

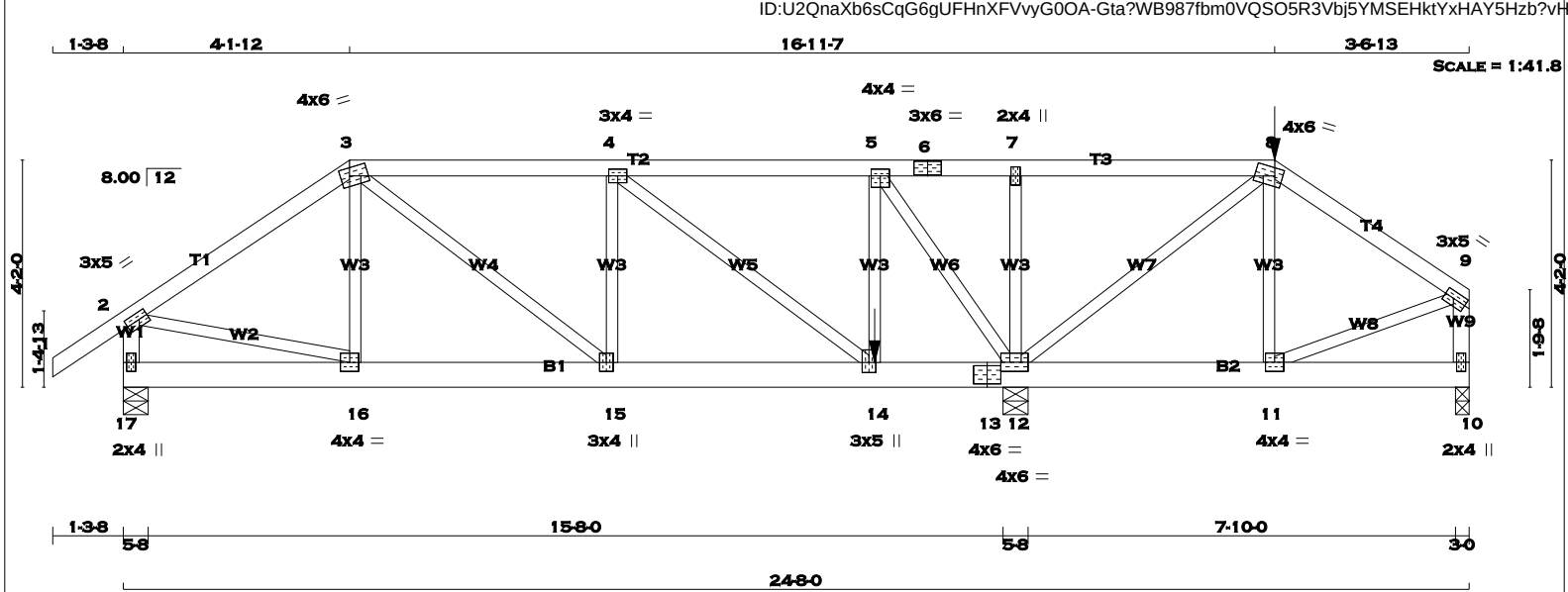
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.10 (2) (INPUT = 0.90)
JSI METAL= 0.04 (2) (INPUT = 1.00)

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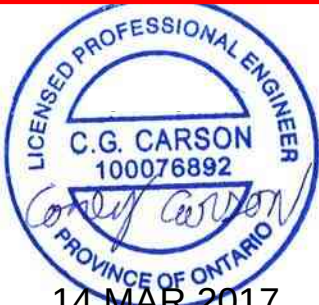




LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. 1 - 3 2x4 DRY No.2 SPF 3 - 6 2x4 DRY No.2 SPF 6 - 8 2x4 DRY No.2 SPF 8 - 9 2x4 DRY No.2 SPF 17- 2 2x4 DRY No.2 SPF 10- 9 2x4 DRY No.2 SPF 17- 13 2x6 DRY No.2 SPF 13- 10 2x6 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT DRY: SEASONED LUMBER.					DIMENSIONS, 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 17 897 0 897 0 0 5-8 5-8 12 2660 0 2660 0 0 5-8 5-8 10 452 0 452 0 0 3-0 3-0 UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 17 627 450 / 0 0 / 0 0 / 0 0 / 0 178 / 0 0 / 0 12 1865 1316 / 0 0 / 0 0 / 0 0 / 0 548 / 0 0 / 0 10 320 210 / 0 0 / 0 0 / 0 0 / 0 110 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 17, 12, 10 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.98 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="3">CHORDS</th><th colspan="3">WEBS</th></tr><tr><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>FACTORED VERT. LOAD (PLF)</th><th>MAX. FACTORED VERT. LOAD (PLF)</th><th>MAX. FACTORED UNBRACED LENGTH</th><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>MAX. FACTORED UNBRACED LENGTH</th></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>0 / 29</td><td>-77.3 -77.3 0.11 (1)</td><td>10.00</td><td>16- 3</td><td>-72 / 47</td><td>0.02 (1)</td><td></td></tr><tr><td>2- 3</td><td>-795 / 0</td><td>-77.3 -77.3 0.27 (1)</td><td>6.25</td><td>3-15</td><td>0 / 334</td><td>0.08 (1)</td><td></td></tr><tr><td>3- 4</td><td>-921 / 0</td><td>-77.3 -77.3 0.32 (1)</td><td>5.98</td><td>15- 4</td><td>-104 / 46</td><td>0.03 (1)</td><td></td></tr><tr><td>4- 5</td><td>-500 / 0</td><td>-77.3 -77.3 0.30 (1)</td><td>6.25</td><td>4-14</td><td>-537 / 0</td><td>0.35 (1)</td><td></td></tr><tr><td>5- 6</td><td>0 / 344</td><td>-145.8 -145.8 0.53 (1)</td><td>10.00</td><td>14- 5</td><td>0 / 986</td><td>0.24 (1)</td><td></td></tr><tr><td>6- 7</td><td>0 / 344</td><td>-145.8 -145.8 0.53 (1)</td><td>10.00</td><td>5-12</td><td>-1499 / 0</td><td>0.52 (1)</td><td></td></tr><tr><td>7- 8</td><td>0 / 344</td><td>-145.8 -145.8 0.53 (1)</td><td>10.00</td><td>12- 7</td><td>-696 / 0</td><td>0.18 (1)</td><td></td></tr><tr><td>8- 9</td><td>-288 / 0</td><td>-77.3 -77.3 0.19 (1)</td><td>6.25</td><td>12- 8</td><td>-745 / 0</td><td>0.46 (1)</td><td></td></tr><tr><td>17- 2</td><td>-864 / 0</td><td>0.0 0.0 0.10 (1)</td><td>7.81</td><td>11- 8</td><td>0 / 124</td><td>0.05 (4)</td><td></td></tr><tr><td>10- 9</td><td>-389 / 0</td><td>0.0 0.0 0.05 (1)</td><td>7.81</td><td>2-16</td><td>0 / 679</td><td>0.17 (1)</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td>11- 9</td><td>0 / 256</td><td>0.06 (1)</td><td></td></tr><tr><td>17-16</td><td>0 / 0</td><td>-17.5 -17.5 0.04 (4)</td><td>10.00</td><td></td><td></td><td></td><td></td></tr><tr><td>16-15</td><td>0 / 659</td><td>-17.5 -17.5 0.11 (1)</td><td>10.00</td><td></td><td></td><td></td><td></td></tr><tr><td>15-14</td><td>0 / 921</td><td>-17.5 -17.5 0.18 (1)</td><td>10.00</td><td></td><td></td><td></td><td></td></tr><tr><td>14-13</td><td>0 / 500</td><td>-33.0 -33.0 0.20 (1)</td><td>10.00</td><td></td><td></td><td></td><td></td></tr><tr><td>13-12</td><td>0 / 500</td><td>-33.0 -33.0 0.20 (1)</td><td>10.00</td><td></td><td></td><td></td><td></td></tr><tr><td>12-11</td><td>0 / 239</td><td>-33.0 -33.0 0.17 (1)</td><td>10.00</td><td></td><td></td><td></td><td></td></tr><tr><td>11-10</td><td>0 / 0</td><td>-33.0 -33.0 0.05 (4)</td><td>10.00</td><td></td><td></td><td></td><td></td></tr></table> FACTORED CONCENTRATED LOADS (LBS) JT LOC. LC1 MAX- MAX+ FACE DIR. TYPE 8 21-1-3 -207 -207 --- FRONT VERT TOTAL 14 13-9-4 -685 -685 --- FRONT VERT TOTAL					CHORDS			WEBS			MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED UNBRACED LENGTH	FR-TO		FROM TO			FR-TO			1- 2	0 / 29	-77.3 -77.3 0.11 (1)	10.00	16- 3	-72 / 47	0.02 (1)		2- 3	-795 / 0	-77.3 -77.3 0.27 (1)	6.25	3-15	0 / 334	0.08 (1)		3- 4	-921 / 0	-77.3 -77.3 0.32 (1)	5.98	15- 4	-104 / 46	0.03 (1)		4- 5	-500 / 0	-77.3 -77.3 0.30 (1)	6.25	4-14	-537 / 0	0.35 (1)		5- 6	0 / 344	-145.8 -145.8 0.53 (1)	10.00	14- 5	0 / 986	0.24 (1)		6- 7	0 / 344	-145.8 -145.8 0.53 (1)	10.00	5-12	-1499 / 0	0.52 (1)		7- 8	0 / 344	-145.8 -145.8 0.53 (1)	10.00	12- 7	-696 / 0	0.18 (1)		8- 9	-288 / 0	-77.3 -77.3 0.19 (1)	6.25	12- 8	-745 / 0	0.46 (1)		17- 2	-864 / 0	0.0 0.0 0.10 (1)	7.81	11- 8	0 / 124	0.05 (4)		10- 9	-389 / 0	0.0 0.0 0.05 (1)	7.81	2-16	0 / 679	0.17 (1)						11- 9	0 / 256	0.06 (1)		17-16	0 / 0	-17.5 -17.5 0.04 (4)	10.00					16-15	0 / 659	-17.5 -17.5 0.11 (1)	10.00					15-14	0 / 921	-17.5 -17.5 0.18 (1)	10.00					14-13	0 / 500	-33.0 -33.0 0.20 (1)	10.00					13-12	0 / 500	-33.0 -33.0 0.20 (1)	10.00					12-11	0 / 239	-33.0 -33.0 0.17 (1)	10.00					11-10	0 / 0	-33.0 -33.0 0.05 (4)	10.00					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 = 4-1-12 RIGHT SETBACK = 3-6-13 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 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 (0.02") ALLOWABLE DEFL.(TL)= L/360 (0.55") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.05") CSI: TC=0.53 (7-8:1) , BC=0.20 (12-14:1) , WB=0.52 (5-12:1) , SSI=0.35 (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. = 5.0 Deg.				
CHORDS			WEBS																																																																																																																																																																																	
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FR-TO		FROM TO			FR-TO																																																																																																																																																																															
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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. RECEIVED TOWN OF MILTON MAR 29, 2017 17-5058 BUILDING DIVISION					TOTAL WEIGHT = 2 X 116 = 231 lb [M]																																																																																																																																																																															
CONTINUED ON PAGE 2																																																																																																																																																																																				

JSI GRIP= 0.89 (14) (INPUT = 0.90)
JSI METAL= 0.32 (5) (INPUT = 1.00)

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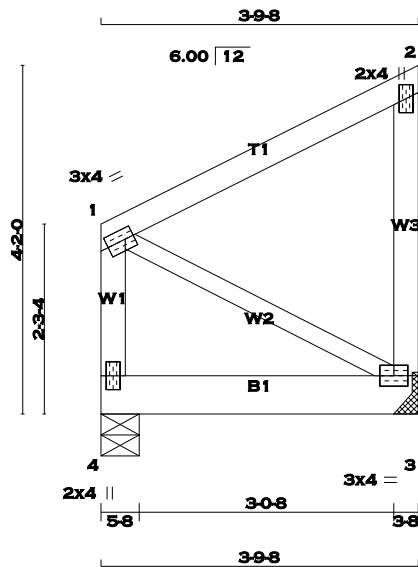


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SCALE = 1:27.5

TOTAL WEIGHT = 2 X 20 = 41 lb [M]

LUMBER					
N. L. G. A. RULES					
CHORDS		SIZE	LUMBER	DESCR.	
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	No.2	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		

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	0 / 0	145 / 0	0 / 0	
4	481	337 / 0	0 / 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		MEMB.		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX. (LC)	MAX. UNBRACED LENGTH	MEMB.	FORCE (LBS)	MAX. (LC)	MEMB.	FORCE (LBS)
FR-TO		FROM	TO		FR-TO			FR-TO	
1-2	0 / 0	-77.3	-77.3	0.21 (1)	10.00	1-3	0 / 0	0.00 (1)	
3-2	-147 / 0	0.0	0.0	0.04 (1)	7.81				
4-1	-147 / 0	0.0	0.0	0.02 (1)	7.81				
4-3	0 / 0	-284.3	-284.3	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

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 .

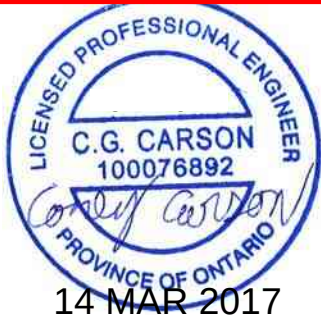
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

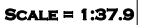
JSI GRIP= 0.15 (3) (INPUT = 0.90)
JSI METAL= 0.03 (2) (INPUT = 1.00)

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.

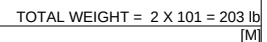


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[M]



ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
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DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

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.

PLATES (table is in inches)

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IN THE DESIGN OF THIS COMPONENT.**



JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
18	1606	1131/0	0/0	0/0	0/0	475/0	0/0
10	1529	1063/0	0/0	0/0	0/0	466/0	0/0

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.63 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY
APPLIED.

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 / 29	-77.3	-77.3 0.06 (1)	10.00	17-3	-381 / 20	0.05 (1)
2-3	-2562 / 0	-77.3	-77.3 0.16 (1)	5.51	3-16	0 / 1707	0.21 (1)
3-4	-3386 / 0	-145.8	-145.8 0.25 (1)	4.82	16-4	-1012 / 0	0.14 (1)
4-5	-3733 / 0	-145.8	-145.8 0.26 (1)	4.63	4-15	0 / 472	0.06 (1)
5-6	-3733 / 0	-145.8	-145.8 0.26 (1)	4.63	15-5	-561 / 0	0.08 (1)
6-7	-3733 / 0	-145.8	-145.8 0.26 (1)	4.63	15-7	0 / 570	0.07 (1)
7-8	-3315 / 0	-145.8	-145.8 0.25 (1)	4.86	13-7	-1079 / 0	0.15 (1)
8-9	-2435 / 0	-77.3	-77.3 0.12 (1)	5.66	13-8	0 / 1756	0.22 (1)
18-2	-2233 / 0	0.0	0.0 0.13 (1)	7.47	12-8	-446 / 0	0.06 (1)
11-9	-2259 / 0	0.0	0.0 0.13 (1)	7.44	2-17	0 / 2195	0.27 (1)
					12-9	0 / 2161	0.27 (1)
18-17	0 / 0	-33.0	-33.0 0.08 (4)	10.00			
17-16	0 / 2118	-33.0	-33.0 0.23 (1)	10.00			
16-15	0 / 3387	-33.0	-33.0 0.33 (1)	10.00			
15-14	0 / 3315	-33.0	-33.0 0.34 (1)	10.00			
14-13	0 / 3315	-33.0	-33.0 0.34 (1)	10.00			
13-12	0 / 2010	-33.0	-33.0 0.29 (1)	10.00			
12-11	0 / 0	-33.0	-33.0 0.31 (1)	10.00			
11-10	0 / 0	-33.0	-33.0 0.31 (1)	10.00			

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
3	4-1-13	-241	-241	---	FRONT	VERT	TOTAL
8	21-1-3	-223	-223	---	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

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

ORDER TYPE: CHIMNEY
LEFT SETBACK = 4-1-13
RIGHT SETBACK = 3-10-1
END SETBACK = 6-0-0
END WALL WIDTH = 5-8
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADD'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 (0.83")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.08")
ALLOWABLE DEFL.(TL)= L/360 (0.83")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.14")

CSI: TC=0.26 (5-7:1) , BC=0.34 (13-15:1) ,
WB=0.27 (2-17:1) , SSI=0.93 (10-11:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (17) (INPUT = 0.90)
JSI METAL= 0.46 (14) (INPUT = 1.00)

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
3	TTWW+m	MT20	5.0	6.0	Edge	3.75
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	3.0	4.0		
8	TTWW+m	MT20	5.0	6.0	Edge	3.75
9	TMVW-t	MT20	4.0	5.0	1.75	Edge
11	BMV+p	MT20	2.0	4.0		
12	BMWW-t	MT20	3.0	5.0	1.50	2.00
13	BMWW-t	MT20	4.0	4.0		
14	BS-t	MT20	3.0	6.0		
15	BMWWW-t	MT20	3.0	6.0		
16	BMWW-t	MT20	4.0	4.0		
17	BMWW-t	MT20	3.0	5.0	1.50	1.75
18	BMV1+p	MT20	2.0	4.0		

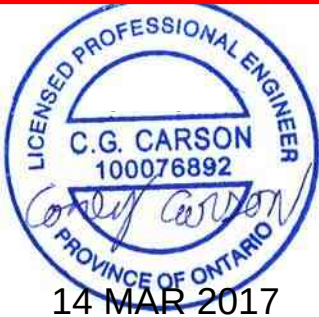
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

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

HANGERS NOTES

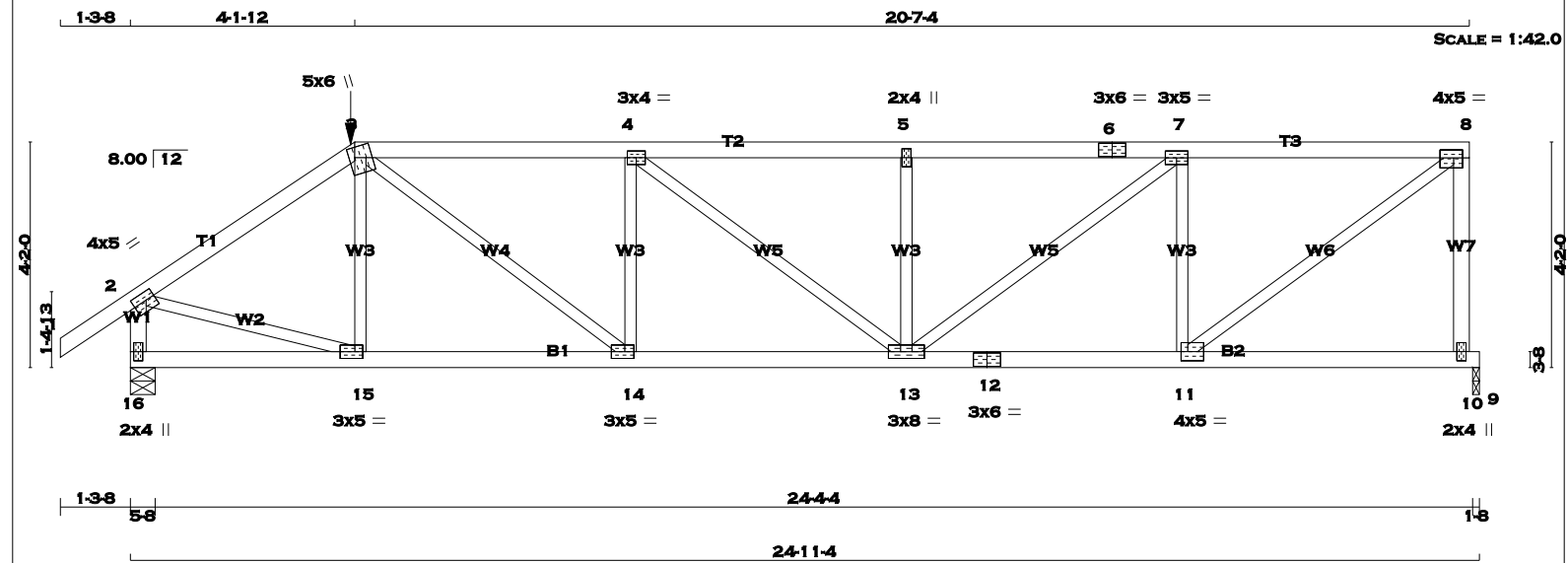
- 1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 222.7 lbs FACTORED DOWN AT 21-1-3, AND 240.8 lbs FACTORED DOWN AT 4-1-13 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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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LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2
3 - 6	2x4	DRY	No.2
6 - 8	2x4	DRY	No.2
10 - 8	2x4	DRY	No.2
16 - 2	2x4	DRY	No.2
16 - 12	2x4	DRY	No.2
12 - 9	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2

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	SIDE(0.0)
3-6	12	SIDE(34.2)
6-8	12	SIDE(34.2)
8-10	12	TOP
16-2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
16-12	12	SIDE(8.7)
12-9	12	SIDE(8.7)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	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.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMW-t	MT20	4.0	5.0	1.75 2.00
3	TTWW+m	MT20	5.0	6.0	2.25 1.25
4	TMWW-t	MT20	3.0	4.0	

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.



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
16	2276	0	2276	0	0
9	2219	0	2219	0	0

UNFACTORED REACTIONS						
JT	1ST LCASE	MAX/MIN.	COMPONENT	REACTIONS		
16	1596	1122 / 0	LIVE	PERM.LIVE	WIND	DEAD
9	1557	1088 / 0	0 / 0	0 / 0	0 / 0	474 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 16, 9

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.52 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. FACTORED HORZ. LOAD (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORZ. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)
FR-TO		FROM	TO	FR-TO		FROM	TO
1-2	0 / 29	-77.3	-77.3	10.00	15-3	-368 / 31	0.05 (1)
2-3	-2545 / 0	-77.3	-77.3	5.52	3-14	0 / 1785	0.22 (1)
3-4	-3527 / 0	-145.8	-145.8	4.60	14-4	-903 / 0	0.12 (1)
4-5	-3617 / 0	-145.8	-145.8	4.55	4-13	0 / 113	0.01 (1)
5-6	-3617 / 0	-145.8	-145.8	4.52	13-5	-686 / 0	0.09 (1)
6-7	-3617 / 0	-145.8	-145.8	4.52	13-7	0 / 1227	0.15 (1)
7-8	-2641 / 0	-145.8	-145.8	5.17	11-7	-1608 / 0	0.22 (1)
10-8	-2239 / 0	0.0	0.0	7.46	11-8	0 / 3270	0.40 (1)
16-2	-2221 / 0	0.0	0.0	7.48	2-15	0 / 2181	0.27 (1)
16-15	0 / 0	-33.0	-33.0	10.00			
15-14	0 / 2104	-33.0	-33.0	10.00			
14-13	0 / 3527	-33.0	-33.0	10.00			
13-12	0 / 2641	-33.0	-33.0	10.00			
12-11	0 / 2641	-33.0	-33.0	10.00			
11-10	0 / 0	-33.0	-33.0	10.00			
10-9	0 / 0	-33.0	-33.0	10.00			

FACTORED CONCENTRATED LOADS (LBS)					
JT	LOC.	LC1	MAX-	MAX+	FACE DIR.
3	4-1-12	-241	-241	---	FRONT VERT

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 = 4-1-12
RIGHT SETBACK = 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.

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 (0.83")
CALCULATED VERT. DEFL.(LL) = L/999 (0.09")
ALLOWABLE DEFL.(TL)= L/360 (0.83")
CALCULATED VERT. DEFL.(TL) = L/999 (0.16")

CSI: TC=0.39 (5-7:1) , BC=0.37 (11-13:1) , WB=0.40 (8-11:1) , SSI=0.95 (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)	(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= 0.40 (2) (INPUT = 1.00)



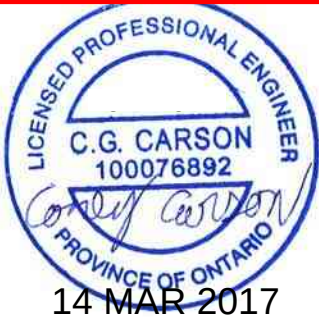
PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
5	TMW+w	MT20	2.0	4.0		
6	TS-t	MT20	3.0	6.0		
7	TMWW-t	MT20	3.0	5.0		
8	TMVW-t	MT20	4.0	5.0	1.75	2.00
10	BMV+p	MT20	2.0	4.0		
11	BMWW-t	MT20	4.0	5.0	2.00	1.50
12	BS-t	MT20	3.0	6.0		
13	BMWWW-t	MT20	3.0	8.0		
14	BMWW-t	MT20	3.0	5.0	1.50	2.00
15	BMWW-t	MT20	3.0	5.0	1.50	1.75
16	BMV1+p	MT20	2.0	4.0		

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

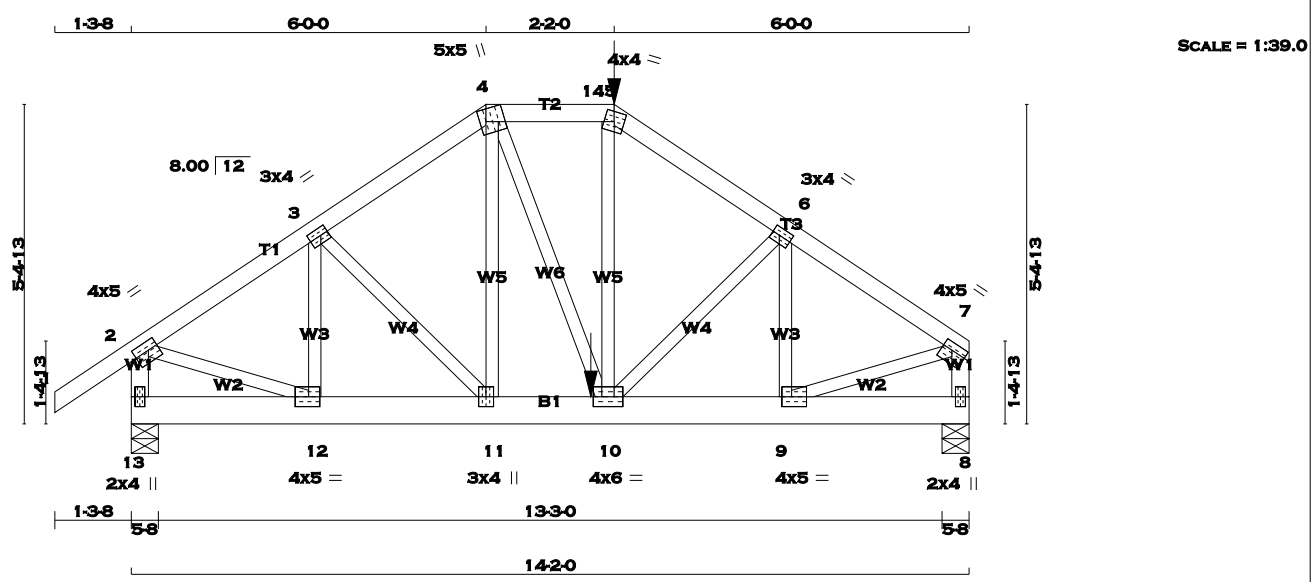
HANGERS NOTES
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 240.5 lbs FACTORED DOWN AT 4-1-12 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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 75 = 151 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	2x3	DRY	No.2	SPF
EXCEPT				
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	IN-SX	IN-SX	
13		1241	0	1241	0	0	5-8	5-8	
8		1337	0	1337	0	0	5-8	5-8	

UNFACTORED REACTIONS							
		1ST LCASE	MAX./MIN. COMPONENT REACTIONS				
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
13		867	629 / 0	0 / 0	0 / 0	0 / 0	238 / 0
8		941	644 / 0	0 / 0	0 / 0	0 / 0	297 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLINE 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				
		MAX. FACTORED	FACTORED				MAX. FACTORED		
MEMB.		FORCE (LBS)	VERT. LOAD	LC1 MAX	MEMB.		FORCE (LBS)	MAX	LC1 (LC)
FR-TO			FROM	TO	LENGTH FR-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 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)						
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.
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. = 5.0 Deg.

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.

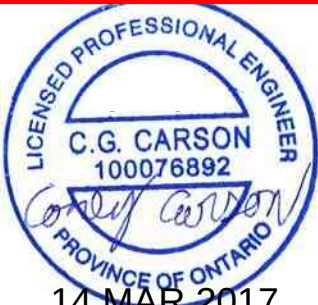


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JSI GRIP= 0.84 (4) (INPUT = 0.90)
JSI METAL= 0.45 (7) (INPUT = 1.00)

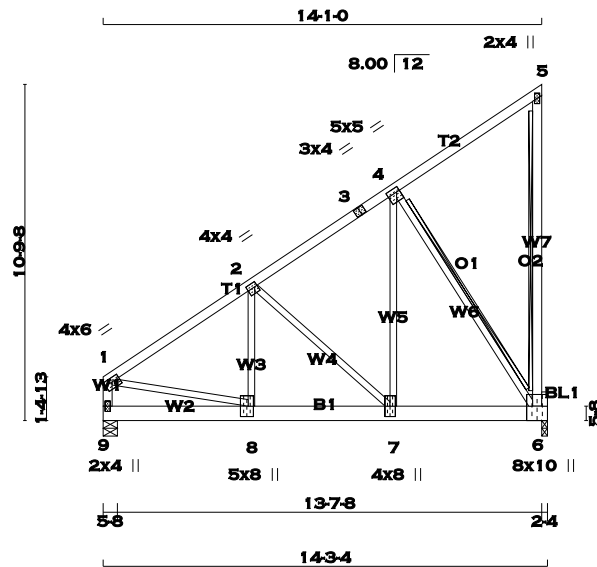
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LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
6 - 5	2x4	DRY	No.2	SPF
9 - 1	2x4	DRY	No.2	SPF
9 - 6	2x6	DRY	2100F 1.8E	SPF

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(567.8)
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	1.50	3.00
2	TMVW-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	1.75	1.25
5	TMV+p	MT20	2.0	4.0		
6	BMVWK1+p	MT20	8.0	10.0	Edge	4.00

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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	UP/LIFT
6		6607	0	6607	0
9		6596	0	6596	0

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
6	4637	3245 / 0	0 / 0	0 / 0	0 / 0	1392 / 0	0 / 0
9	4629	3238 / 0	0 / 0	0 / 0	0 / 0	1391 / 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 = 4.55 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.

2x6 SPF No.2 T-BRACE AT 5-6, 4-6

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1	MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM	TO			FR-TO			
1- 2	-6414 / 0	-77.3	-77.3	0.17 (1)	4.55	8- 2	0 / 3256	0.24 (1)	
2- 3	-3668 / 0	-77.3	-77.3	0.11 (1)	5.69	2- 7	-3097 / 0	0.68 (1)	
3- 4	-3668 / 0	-77.3	-77.3	0.11 (1)	5.69	7- 4	0 / 6406	0.48 (1)	
4- 5	-18 / 0	-77.3	-77.3	0.08 (1)	6.25	4- 6	-5679 / 0	0.85 (1)	
6- 5	-148 / 0	0.0	0.0	0.02 (1)	7.81	1- 8	0 / 5461	0.41 (1)	
9- 1	-4848 / 0	0.0	0.0	0.16 (1)	6.51				
9- 8	0 / 0	-869.2	-869.2	0.21 (1)	10.00				
8- 7	0 / 5345	-869.2	-869.2	0.27 (1)	10.00				
7- 6	0 / 3061	-869.2	-869.2	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

GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 38-4-8
END DISTANCE = 14-3-4
END SPAN CARRIED = 38-4-8
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 (0.46")
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=0.17 (1-2:1) , BC=0.27 (7-8:1) , WB=0.85 (4-6:1) , SSI=0.48 (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= 0.87 (8) (INPUT = 0.90)
JSI METAL= 0.54 (1) (INPUT = 1.00)

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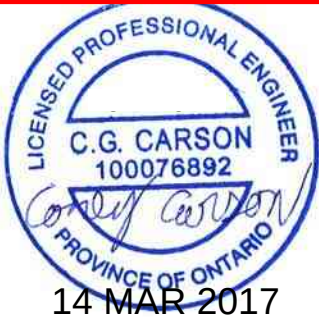
PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
7	BMWV+t	MT20	4.0	8.0		
8	BMWV+t	MT20	5.0	8.0	4.00	2.00
9	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.

READ ALL NOTES ON THIS PAGE AND ON THE
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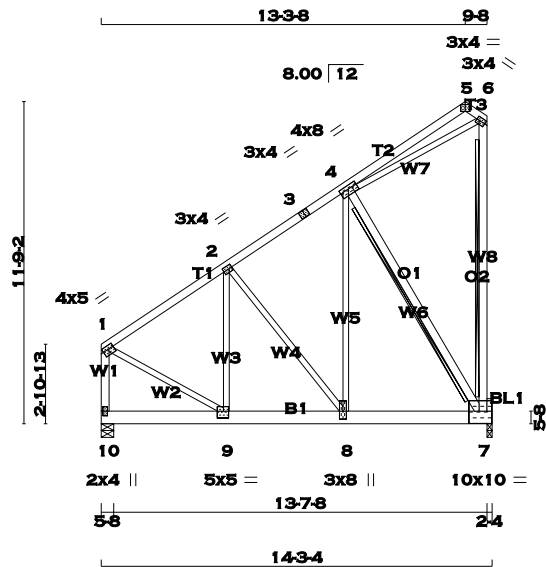
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KOTT , Stouffville, ON, CGC

Version 8.100 S Jan 17 2017 MiTek Industries, Inc. Tue Mar 14 14:15:12 2017 Page 1

ID:U2QnaXb6sCqG6gUFHnXFVvyG00A-9epVMYCFaU6BU7kDdwW?fRurNzpQDWi8sv8mE2zb?vD



TOTAL WEIGHT = 3 X 96 = 287 lb [M]

LUMBER				
CHORDS	SIZE	LUMBER	DESCR.	
1 - 3	2x4	No.2	SPF	
3 - 5	2x4	No.2	SPF	
5 - 6	2x4	No.2	SPF	
10 - 1	2x4	No.2	SPF	
7 - 6	2x4	No.2	SPF	
10 - 7	2x6	2100F 1.8E	SPF	

BEARING BLOCKS				
BL1	2x6	DRY	No.2	SPF
ALL WEBS EXCEPT				
4 - 7	2x4	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
10-1	12	TOP
7-6	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
10-7	5	SIDE(517.7)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	
2x4	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	TMWW-t	MT20	4.0	5.0 1.50 2.00
2	TMWW-t	MT20	3.0	4.0 1.50 1.25

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	IN-SX	IN-SX
10	6073	0	6073	0	0	5-8	5-8
7	6084	0	6084	0	0	2-4	2-4

UNFACTORED REACTIONS							
JT	1ST LCASE COMBINED	MAX SNOW	MIN LIVE	PERM. LIVE	WIND	DEAD	SOIL
10	4262	2981 / 0	0 / 0	0 / 0	0 / 0	1281 / 0	0 / 0
7	4270	2988 / 0	0 / 0	0 / 0	0 / 0	1281 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 10, 7
BEARING SIZE FACTOR = 1.08 AT JNT(S) 7 (BASED ON SUPPORT DEPTH = 1-8)

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.35 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.

2x6 SPF No.2 T-BRACE AT 6-7, 4-7

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

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

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO			FR-TO		
1-2	-4332 / 0	-77.3 -77.3	0.11 (1)	5.35	9-2	0 / 1778	0.13 (1)
2-3	-3015 / 0	-77.3 -77.3	0.09 (1)	6.14	2-8	-1774 / 0	0.55 (1)
3-4	-3015 / 0	-77.3 -77.3	0.09 (1)	6.14	8-4	0 / 5511	0.41 (1)
4-5	-167 / 0	-77.3 -77.3	0.08 (1)	6.25	1-9	0 / 4117	0.31 (1)
5-6	-146 / 0	-77.3 -77.3	0.00 (1)	6.25	4-7	-4945 / 0	0.59 (1)
10-1	-4540 / 0	0.0 0.0	0.22 (1)	6.68	4-6	0 / 137	0.01 (1)
7-6	-169 / 0	0.0 0.0	0.03 (1)	7.81			
10-9	0 / 0	-794.1 -794.1	0.18 (1)	10.00			
9-8	0 / 3613	-794.1 -794.1	0.25 (1)	10.00			
8-7	0 / 2528	-794.1 -794.1	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

GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 35-2-8
END DISTANCE = 14-3-4
END SPAN CARRIED = 35-2-8
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 (0.08")

CSI: TC=0.22 (1-10:1) , BC=0.25 (8-9:1) , WB=0.59 (4-7:1) , SSI=0.46 (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

AUTOSOLVE LEFT 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= 0.89 (9) (INPUT = 0.90)
JSI METAL= 0.44 (1) (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.



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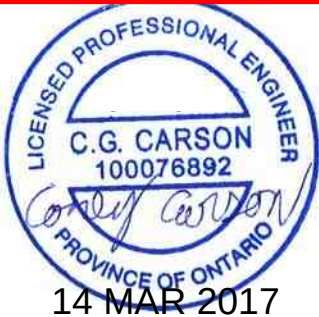
PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
3	TS-t	MT20	3.0	4.0		
4	TMWWW-t	MT20	4.0	8.0	1.50	4.00
5	TT-p	MT20	3.0	4.0	Edge	2.00
6	TMVW-t	MT20	3.0	4.0	1.50	1.00
7	BMVWK1-t	MT20	10.0	10.0	5.50	4.50
8	BMWW+t	MT20	3.0	8.0	3.50	1.50
9	BMWW-t	MT20	5.0	5.0	3.00	2.25
10	BMV1+p	MT20	2.0	4.0		

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

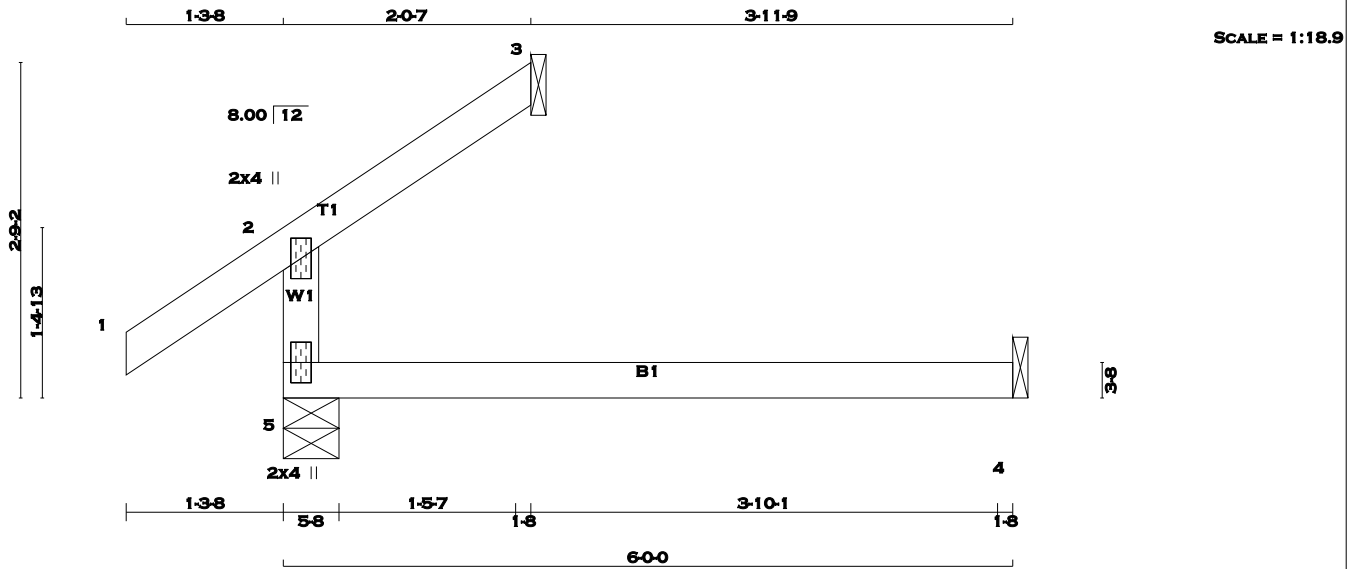
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH
TEE-LOK TL20 PLATES IS ALLOWED.

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TOTAL WEIGHT = 2 X 13 = 25 lb [M]

LUMBER
N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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	265	0	265	0	5-8	5-8
3	60	0	60	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	188	123 / 0	0 / 0	0 / 0	0 / 0	65 / 0	0 / 0
3	40	36 / 0	0 / 0	0 / 0	0 / 0	5 / 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)

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

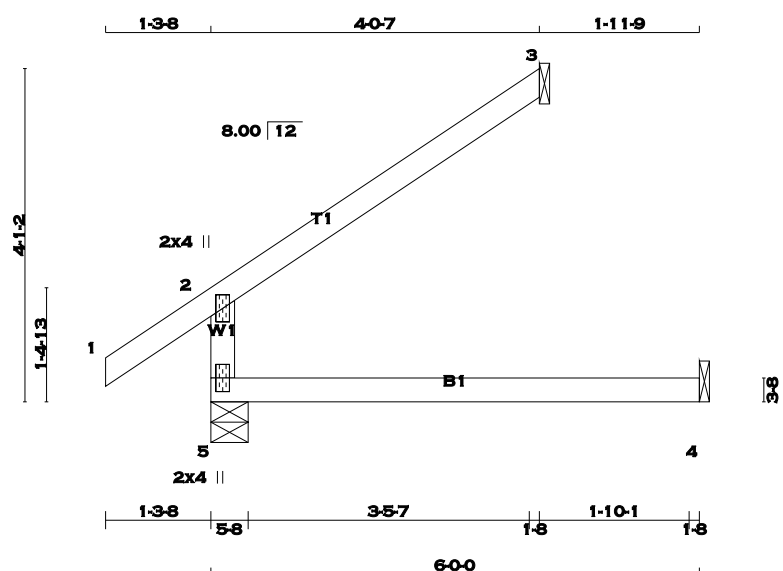
JSI GRIP= 0.13 (2) (INPUT = 0.90)
JSI METAL= 0.05 (2) (INPUT = 1.00)

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 15 = 31 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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
5	362	0	362	0	5-8	5-8
3	117	0	117	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	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)

MEMB.	CHORDS		FACTORED		MAX. UNBRAC	WEBS	
	MAX. FACTORED	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX		MEMB. FORCE (LBS)	FACTORED MAX (LC)
FR-TO							
5-2	-301 / 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	-22 / 0		-77.3	-77.3	0.21 (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=0.21 (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 (PLI)	SECTION (PLI)	
	(PSI)	(PLI)		MAX	MIN
MT20	618	354	1667	822	2284

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

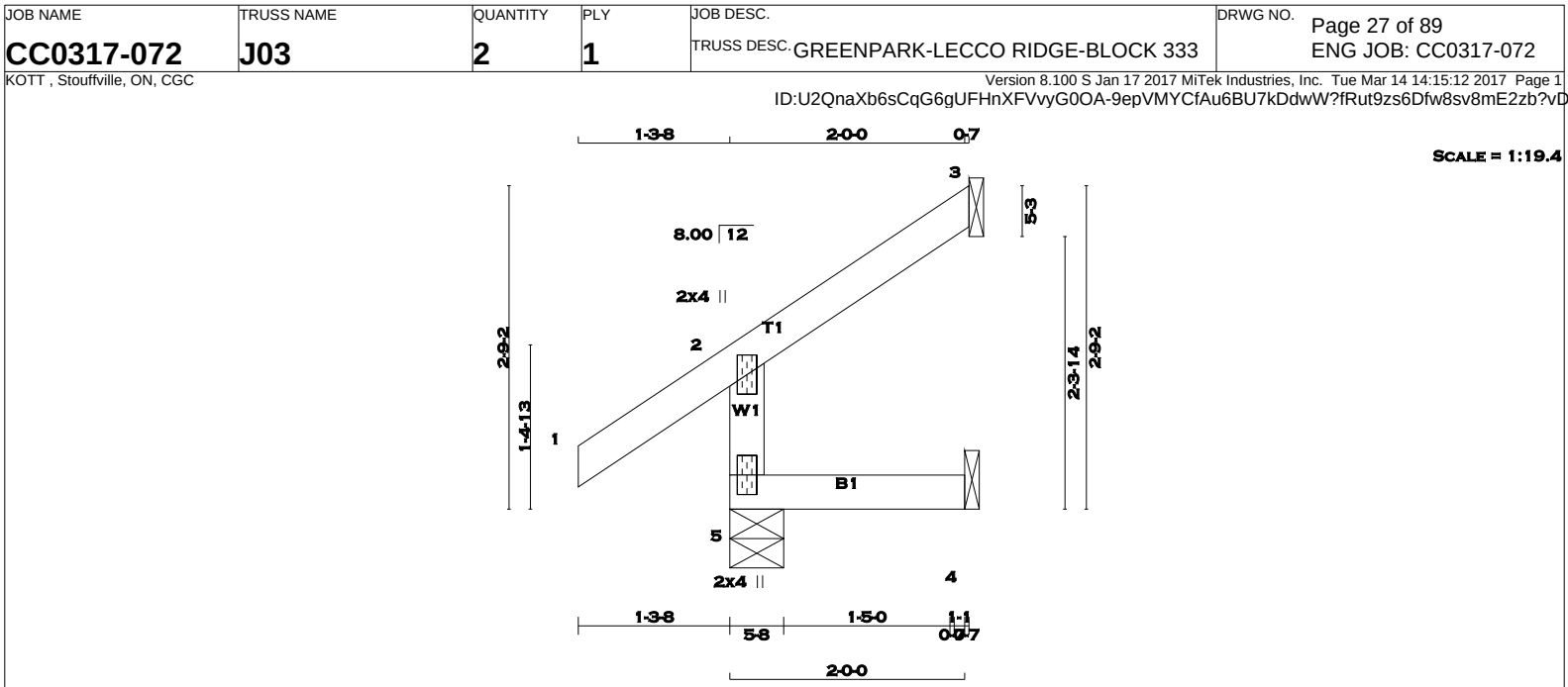
JSI GRIP= 0.19 (2) (INPUT = 0.90)
JSI METAL= 0.07 (2) (INPUT = 1.00)

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.



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

LUMBER
N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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	5-8	5-8
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		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.			
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		MAX. FACTORED	FORCE (LBS)
FR-TO			FROM	TO	LENGTH	FR-TO	
5-2	-204 / 0		0.0	0.0	0.01 (4)	7.81	
1-2	0 / 29		-77.3	-77.3	0.05 (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)	(PLI)
	MAX	MIN	MAX
MT20	618	354	1667
			822
			2284
			1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

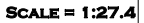
JSI GRIP= 0.13 (2) (INPUT = 0.90)
JSI METAL= 0.05 (2) (INPUT = 1.00)

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.



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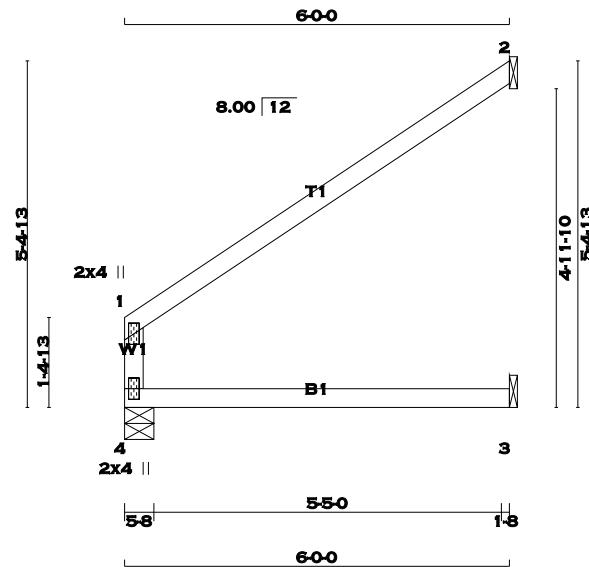


TOTAL WEIGHT = 2 X 9 = 18 lb

KOTT, Stouffville, ON, CGC

Version 8.100 S Jan 17 2017 MiTek Industries, Inc. Tue Mar 14 14:15:13 2017 Page 1

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SCALE = 1:35.9

TOTAL WEIGHT = 2 X 16 = 33 lb

LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	SPF	
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	285	0	285	0	0	5-8	5-8	
2	211	0	211	0	0	1-8	1-8	
3	73	0	73	0	0	1-8	1-8	

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

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
4	200	140 / 0	0 / 0	0 / 0	0 / 0	60 / 0	0 / 0
2	144	124 / 0	0 / 0	0 / 0	0 / 0	20 / 0	0 / 0
3	55	15 / 0	0 / 0	0 / 0	0 / 0	40 / 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		WEBS		FACTORED	
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX	MEMB. FORCE (LBS)	MAX	LC1	MAX
FR-TO								
4-1	-253 / 0	0.0	0.0	0.15 (1)	7.81			
1-2	-11 / 1	-77.3	-77.3	0.40 (1)	6.25			
4-3	0 / 0	-17.5	-17.5	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/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 (0.20")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 628 (0.11")

CSI: TC=0.40 (1-2:1), BC=0.21 (3-4:1), WB=0.00 (n/a:0), SSI=0.16 (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= 0.16 (1) (INPUT = 0.90)
JSI METAL= 0.06 (1) (INPUT = 1.00)

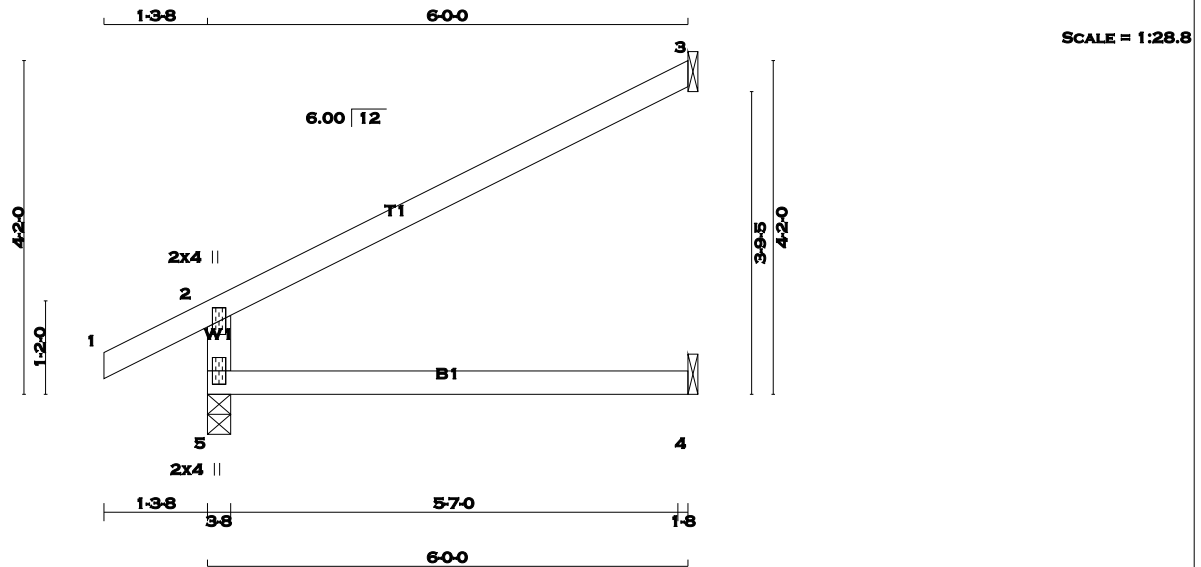
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TOTAL WEIGHT = 34 X 17 = 581 lb
[M][F]

LUMBER
N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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	3-8	3-8
3	174	0	174	0	1-8	1-8
4	43	0	49	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	318	238 / 0	0 / 0	0 / 0	0 / 0	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. UNBRAC
	MAX. FACTORED	FORCE (LBS)	VERT. LOAD	LC1 MAX		MEMB.	MAX. FACTORED	
FR-TO								
5-2	-395 / 0		0.0	0.0	0.11 (4)	7.81		
1-2	0 / 23		-77.3	-77.3	0.10 (1)	10.00		
2-3	-26 / 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.(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=0.20 (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.

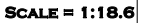
JSI GRIP= 0.23 (2) (INPUT = 0.90)
JSI METAL= 0.09 (2) (INPUT = 1.00)

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.



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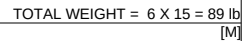


M]

DRY: SEASONED LUMBER.

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





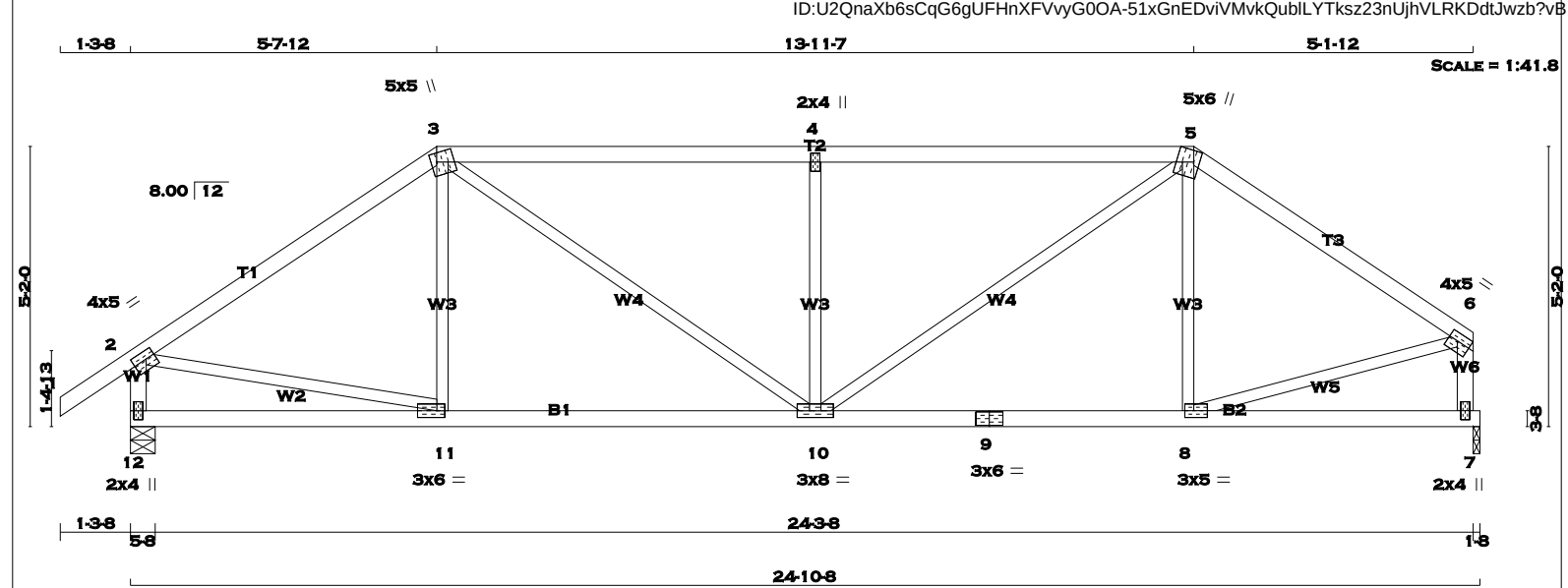
DRY: SEASONED LUMBER.

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 CSI (LC)
FR-TO		FROM	TO		FR-TO		
5-2	-367 / 0	0.0	0.0	0.12 (4)	7.81		
1-2	0 / 16	-77.3	-77.3	0.10 (1)	10.00		
2-3	-17 / 0	-77.3	-77.3	0.39 (1)	6.25		
5-4	0 / 0	-17.5	-17.5	0.12 (4)	10.00		

JSI GRIP= 0.32 (5) (INPUT = 0.90)
JSI METAL= 0.05 (5) (INPUT = 1.00)





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 - 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.

TOTAL WEIGHT = 3 X 97 = 290 lb

[M]

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	
12		1280	0	1280	0	0	5-8	5-8	
7		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	
12		896	640 / 0	0 / 0	0 / 0	0 / 0	256 / 0	0 / 0	
7		824	576 / 0	0 / 0	0 / 0	0 / 0	247 / 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					WEBS				
		MAX. FACTORED	FACTORED				MAX. 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	-77 / 76	0.03 (1)	
2-3		-1287 / 0	-77.3	-77.3	0.51 (1)	5.04	0 / 641	0.14 (1)	
3-4		-1594 / 0	-77.3	-77.3	0.78 (1)	4.14	-663 / 0	0.26 (1)	
4-5		-1594 / 0	-77.3	-77.3	0.78 (1)	4.14	0 / 725	0.16 (1)	
5-6		-1206 / 0	-77.3	-77.3	0.41 (1)	5.31	-150 / 50	0.06 (1)	
12-2		-1241 / 0	0.0	0.0	0.13 (1)	7.20	0 / 1088	0.24 (1)	
7-6		-1140 / 0	0.0	0.0	0.12 (1)	7.45	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			

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 (4-5:1), BC=0.26 (10-11:1), WB=0.26 (4-10:1), SSI=0.26 (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

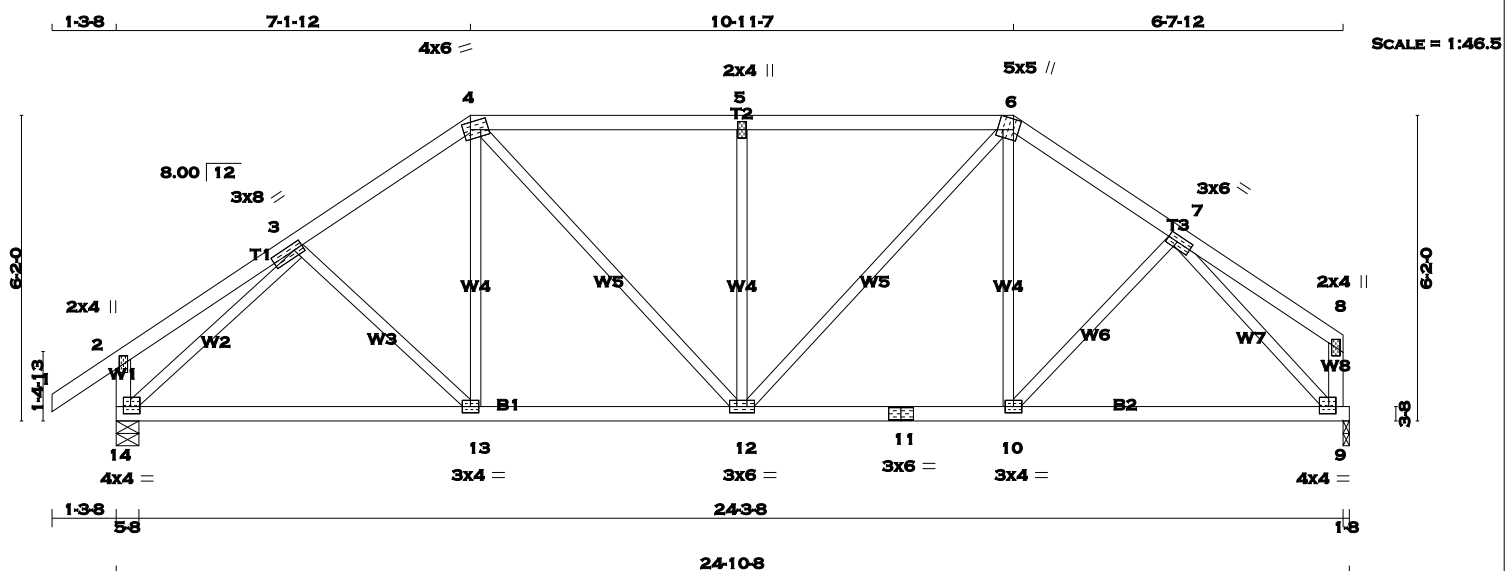
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL= 0.44 (2) (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.



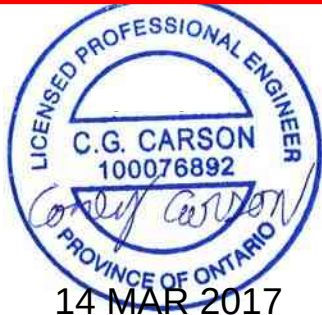
LUMBER					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER								DESIGN CRITERIA				[M][F]
N. L. G. A. RULES					BEARINGS								SPECIFIED LOADS:				
CHORDS SIZE													TOP CH. LL = 23.3 PSF				
1 - 4 2x4 DRY No.2 SPF													DL = 3.0 PSF				
4 - 6 2x4 DRY No.2 SPF													BOT CH. LL = 0.0 PSF				
6 - 8 2x4 DRY No.2 SPF													DL = 7.0 PSF				
14 - 2 2x4 DRY No.2 SPF													TOTAL LOAD = 33.3 PSF				
9 - 8 2x4 DRY No.2 SPF																	
14 - 11 2x4 DRY No.2 SPF																	
11 - 9 2x4 DRY No.2 SPF																	
ALL WEBS 2x3 DRY No.2 SPF													SPACING = 24.0 IN. C/C				
EXCEPT													LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12				
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	8.0	1.50	2.25
4	TTWW-m	MT20	4.0	6.0	1.75	1.75
5	TMW+w	MT20	2.0	4.0		
6	TTWW+m	MT20	5.0	5.0	Edge	3.75
7	TMWW-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	BMWW-t	MT20	3.0	4.0		
11	BS-t	MT20	3.0	6.0		
12	BMWW-t	MT20	3.0	6.0		
13	BMWW-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.

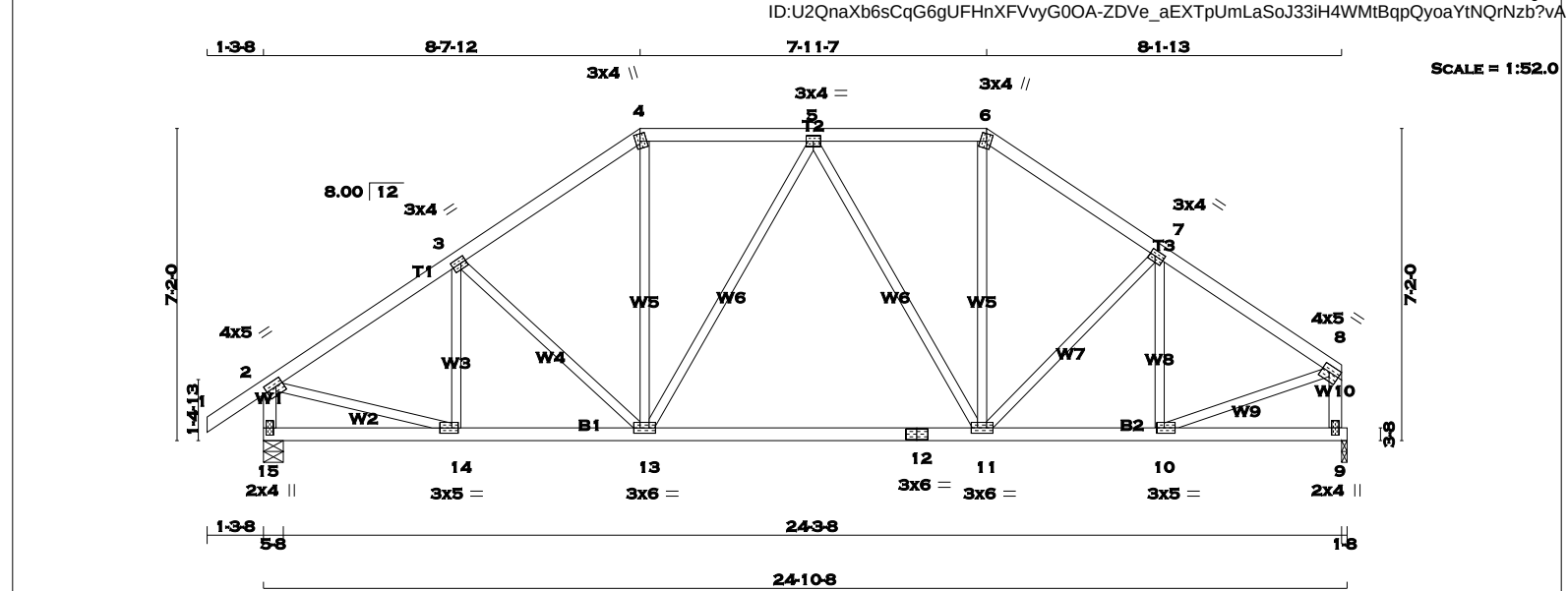
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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 = 3 X 110 = 331 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		
6 - 8	2x4	DRY	No.2		
15- 2	2x4	DRY	No.2		
9 - 8	2x4	DRY	No.2		
15- 12	2x4	DRY	No.2		
12- 9	2x4	DRY	No.2		
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	SPF
DRY: SEASONED LUMBER.					

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMVW-t	MT20	4.0	5.0	1.75 2.00
3	TMVW-t	MT20	3.0	4.0	1.50 1.50
4	TTW+m	MT20	3.0	4.0	2.00 1.25
5	TMVW-t	MT20	3.0	4.0	
6	TTW+m	MT20	3.0	4.0	2.00 1.25
7	TMVW-t	MT20	3.0	4.0	1.50 1.50
8	TMVW-t	MT20	4.0	5.0	1.75 Edge
9	BMV1+p	MT20	2.0	4.0	
10	BMVW-t	MT20	3.0	5.0	1.50 2.00
11	BMVW-t	MT20	3.0	6.0	
12	BS-t	MT20	3.0	6.0	
13	BMVW-t	MT20	3.0	6.0	
14	BMVW-t	MT20	3.0	5.0	1.50 1.75
15	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	UPLIFT	IN-SX	IN-SX	
15		1280	0	1280	0	0	5-8	5-8	
9		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	
15		896	640 / 0	0 / 0	0 / 0	0 / 0	256 / 0	0 / 0	
9		824	576 / 0	0 / 0	0 / 0	0 / 0	247 / 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 = 5.45 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.									
LOADING									
TOTAL LOAD CASES: (4)									
		CHORDS			WEBS				
		MAX. FACTORED	FACTORED		MAX. FACTORED	FACTORED			
MEMB.		FORCE (LBS)	VERT. LOAD (LBS)	LC1 MAX (PLF)	MEMB.	FORCE (LBS)	MAX (PLF)		
FR-TO			FROM	TO	LENGTH	FR-TO			
1-2		0 / 29	-77.3	-77.3	0.10 (1)	10.00	14-3	-203 / 0	0.06 (1)
2-3		-1304 / 0	-77.3	-77.3	0.20 (1)	5.45	3-13	-181 / 0	0.11 (1)
3-4		-1190 / 0	-77.3	-77.3	0.20 (1)	5.65	13-4	0 / 405	0.09 (1)
4-5		-976 / 0	-77.3	-77.3	0.16 (1)	6.13	13-5	-186 / 0	0.24 (1)
5-6		-949 / 0	-77.3	-77.3	0.16 (1)	6.19	5-11	-240 / 0	0.31 (1)
6-7		-1157 / 0	-77.3	-77.3	0.17 (1)	5.74	11-6	0 / 395	0.09 (1)
7-8		-1192 / 0	-77.3	-77.3	0.18 (1)	5.67	11-7	-93 / 0	0.05 (1)
15-2		-1244 / 0	0.0	0.0	0.13 (1)	7.20	10-7	-281 / 0	0.09 (1)
9-8		-1139 / 0	0.0	0.0	0.12 (1)	7.45	2-14	0 / 1135	0.26 (1)
							10-8	0 / 1064	0.24 (1)
15-14		0 / 0	-17.5	-17.5	0.08 (4)	10.00			
14-13		0 / 1103	-17.5	-17.5	0.27 (1)	10.00			
13-12		0 / 1067	-17.5	-17.5	0.27 (1)	10.00			
12-11		0 / 1067	-17.5	-17.5	0.27 (1)	10.00			
11-10		0 / 1008	-17.5	-17.5	0.26 (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 = 7.3 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 (0.82")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.82")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.12")

CSI: TC=0.20 (2-3:1), BC=0.27 (13-14:1), WB=0.31 (5-11:1), SSI=0.15 (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.

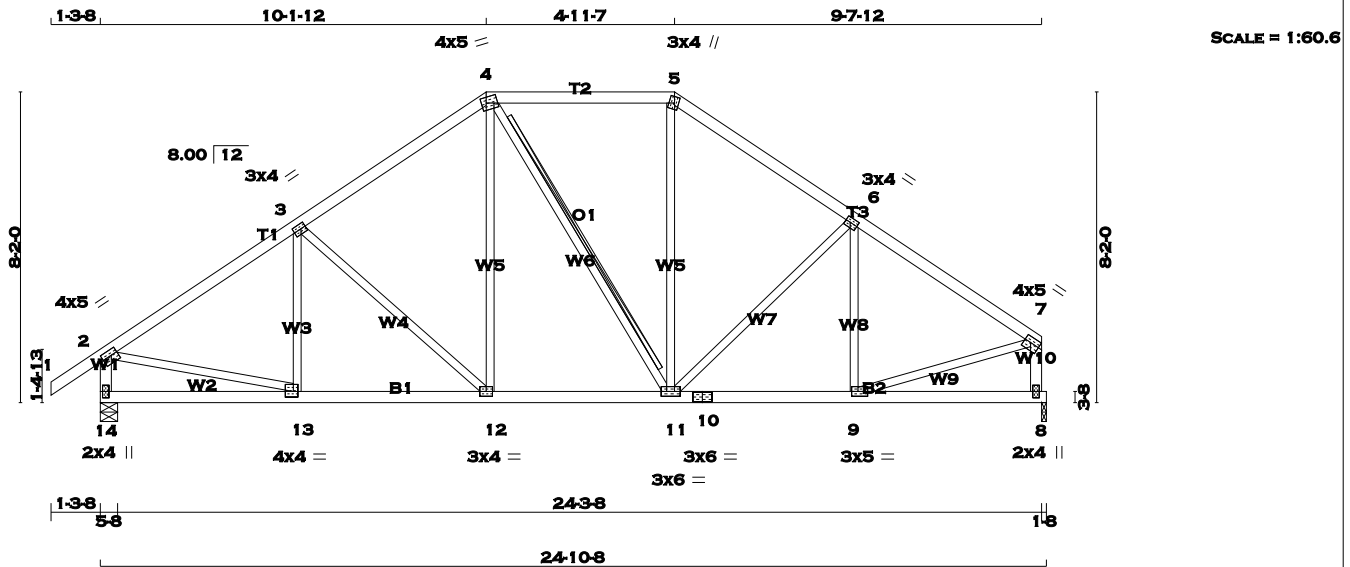
JSI GRIP= 0.90 (14) (INPUT = 0.90)
JSI METAL= 0.44 (2) (INPUT = 1.00)

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.



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TOTAL WEIGHT = 3 X 111 = 333 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	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-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	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 GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
14		1280	0	1280	0	5-8		5-8	
8		1174	0	1174	0	1-8		1-8	
UNFACTORED REACTIONS									
		1ST LCASE COMBINED		MAX/MIN. SNOW		LIVE		PERM. LIVE	
JT									
14		896	640 / 0	0 / 0		0 / 0		256 / 0	0 / 0
8		824	576 / 0	0 / 0		0 / 0		247 / 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 = 5.33 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.

2x4 SPF No.2 T-BRACE AT 4-11

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

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

LOADING				
TOTAL LOAD CASES: (4)				
C H O R D S				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORIZ. LOAD (PLF)	MAX. FACTORED UNBRACED LENGTH (FT)
FR-TO		FROM TO		
1-2	0 / 29	-77.3	-77.3	0.10 (1)
2-3	-1322 / 0	-77.3	-77.3	0.28 (1)
3-4	-1103 / 0	-77.3	-77.3	0.27 (1)
4-5	-884 / 0	-77.3	-77.3	0.25 (1)
5-6	-1085 / 0	-77.3	-77.3	0.24 (1)
6-7	-1224 / 0	-77.3	-77.3	0.25 (1)
14-2	-1242 / 0	0.0	0.0	0.13 (1)
8-7	-1137 / 0	0.0	0.0	0.12 (1)
14-13	0 / 0	-17.5	-17.5	0.11 (4)
13-12	0 / 1121	-17.5	-17.5	0.23 (1)
12-11	0 / 898	-17.5	-17.5	0.19 (1)
11-10	0 / 1039	-17.5	-17.5	0.21 (1)
10-9	0 / 1039	-17.5	-17.5	0.21 (1)
9-8	0 / 0	-17.5	-17.5	0.10 (4)

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON 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.

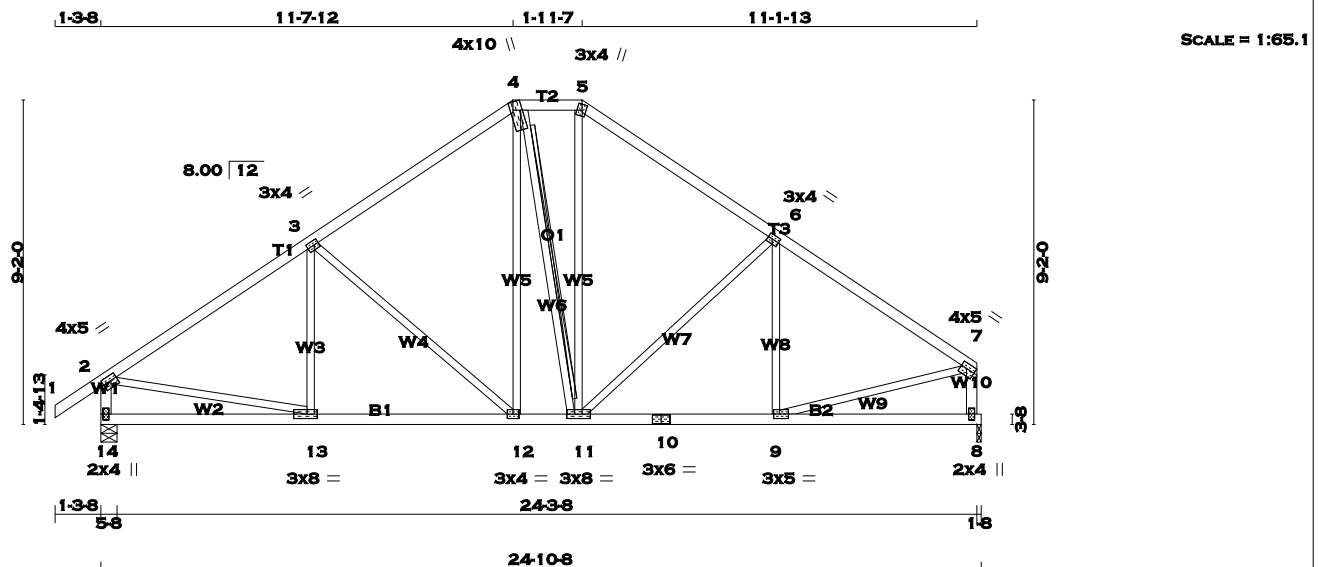
JSI GRIP= 0.89 (9) (INPUT = 0.90)
JSI METAL= 0.45 (2) (INPUT = 1.00)

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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BUILDING DIVISION





TOTAL WEIGHT = 3 X 117 = 350 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 GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
14		1280	0	1280	0	0	5-8	5-8	
8		1174	0	1174	0	0	1-8	1-8	

UNFACTORED REACTIONS							
JT	1ST LCASE COMBINED	MAX. SNOW	MIN. LIVE	MAX. 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	247 / 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.

2x4 SPF No.2 T-BRACE AT 4-11

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

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

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	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
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 (0.82")
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) (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.

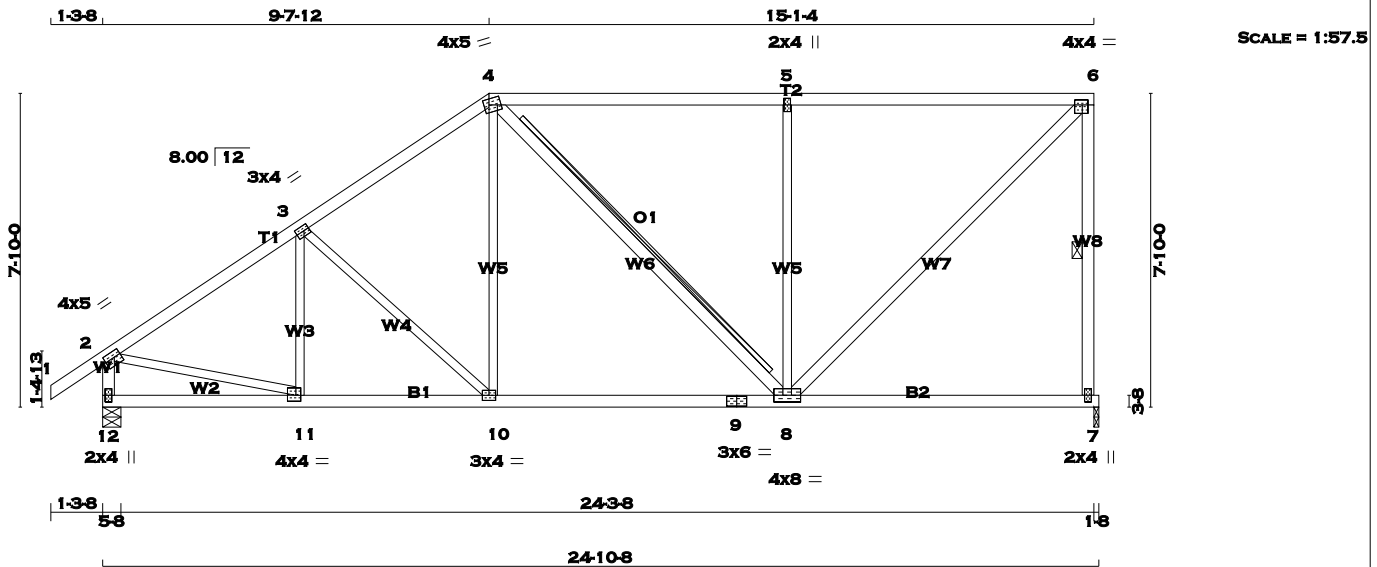
JSI GRIP= 0.90 (9) (INPUT = 0.90)
JSI METAL= 0.45 (2) (INPUT = 1.00)

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 = 117 lb [M]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
12 - 2	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
4 - 8	2x4	DRY	No.2	SPF
8 - 6	2x4	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
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	TMW+w	MT20	2.0	4.0	
6	TMVW-t	MT20	4.0	4.0	1.50 1.75
7	BMV1+p	MT20	2.0	4.0	
8	BMVW-t	MT20	4.0	8.0	
9	BS-t	MT20	3.0	6.0	
10	BMVW-t	MT20	3.0	4.0	
11	BMVW-t	MT20	4.0	4.0	1.75 1.50
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	IN-SX	IN-SX	
7		1174	0	1174	0	0	1-8	1-8	
12		1280	0	1280	0	0	5-8	5-8	

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
7	824	576 / 0	0 / 0	0 / 0	0 / 0	247 / 0	0 / 0
12	896	640 / 0	0 / 0	0 / 0	0 / 0	256 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.83 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.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 6-7. DBS = 12-0-0 . CBF = 84 LBS.
2x4 SPF No.2 T-BRACE AT 4-8

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.

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO		FR-TO			
1-2	0 / 29	-77.3 -77.3	0.10 (1)	11-3	-159 / 29	0.05 (1)	
2-3	-1317 / 0	-77.3 -77.3	0.35 (1)	5-22	-262 / 0	0.20 (1)	
3-4	-1134 / 0	-77.3 -77.3	0.33 (1)	5-54	0 / 280	0.06 (1)	
4-5	-908 / 0	-77.3 -77.3	0.84 (1)	4-83	-24 / 0	0.02 (1)	
5-6	-909 / 0	-77.3 -77.3	0.84 (1)	8-5	-726 / 0	0.83 (1)	
7-6	-1120 / 0	0.0 0.0	0.31 (1)	5-99	0 / 1275	0.21 (1)	
12-2	-1242 / 0	0.0 0.0	0.13 (1)	7-20	0 / 1143	0.26 (1)	
12-11	0 / 0	-17.5 -17.5	0.09 (4)	10-00			
11-10	0 / 1116	-17.5 -17.5	0.25 (1)	10-00			
10-9	0 / 926	-17.5 -17.5	0.33 (4)	10-00			
9-8	0 / 926	-17.5 -17.5	0.33 (4)	10-00			
8-7	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

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 (0.11")

CSI: TC=0.84 (5-6:1), BC=0.33 (8-10:4), WB=0.83 (5-8:1), SSI=0.29 (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.

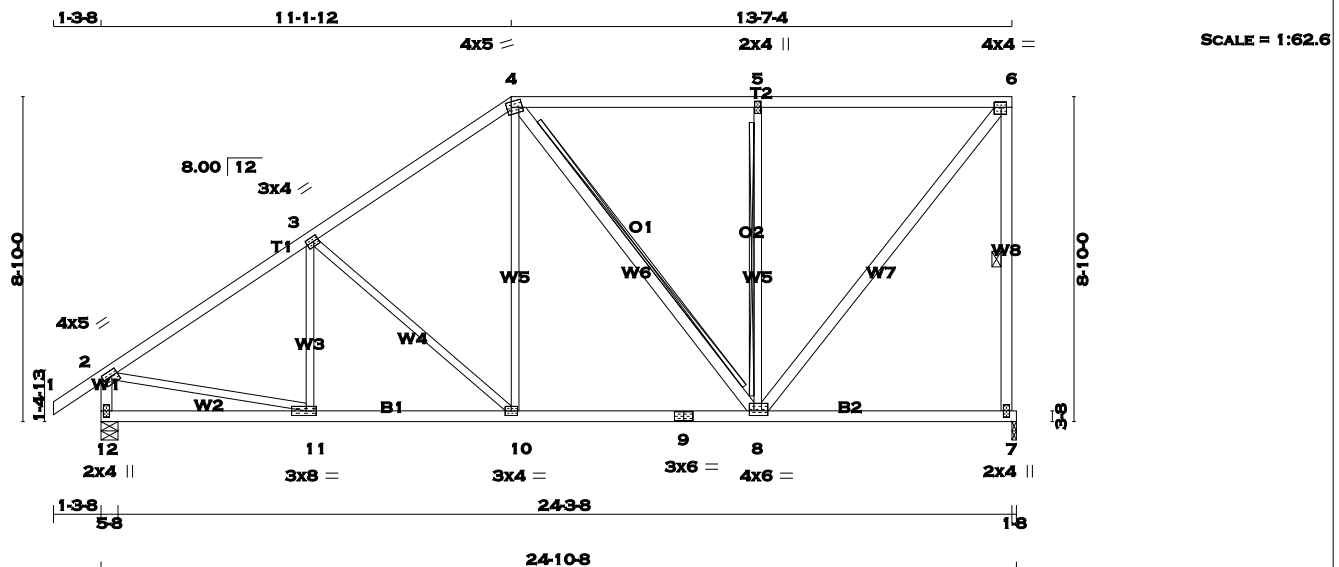
JSI GRIP= 0.86 (8) (INPUT = 0.90)
JSI METAL= 0.44 (2) (INPUT = 1.00)

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.



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TOTAL WEIGHT = 123 lb [M]

LUMBER

N. L. G. A. RULES

CHORDS

SIZE

LUMBER

DESCR.

1 - 4

2x4

DRY

No.2

SPF

4 - 6

2x4

DRY

No.2

SPF

7 - 6

2x4

DRY

No.2

SPF

12 - 2

2x4

DRY

No.2

SPF

12 - 9

2x4

DRY

No.2

SPF

9 - 7

2x4

DRY

No.2

SPF

ALL WEBS

2x3

DRY

No.2

SPF

EXCEPT

4 - 8

2x4

DRY

No.2

SPF

8 - 6

2x4

DRY

No.2

SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT

TYPE

PLATES

W

LEN

Y

X

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

TMW+w

MT20

2.0

4.0

6

TMVW-t

MT20

4.0

4.0

1.75

1.75

7

BMV1+p

MT20

2.0

4.0

8

BMWWW-t

MT20

4.0

6.0

1.50

1.50

9

BS-t

MT20

3.0

6.0

10

BMWW-t

MT20

3.0

4.0

11

BMWW-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

BEARINGS

JT

VERT

HORZ

7

1174

0

12

1280

0

MAXIMUM FACTORED

GROSS REACTION

DOWN

HORZ

UPLIFT

1174

0

0

1280

0

0

INPUT

BRG

IN-SX

1-8

1-8

5-8

1-8

1-8

5-8

REQRD

BRG

IN-SX

1-8

1-8

5-8

UNFACTORED REACTIONS

1ST LCASE

MAX./MIN.

COMPONENT REACTIONS

JT

COMBINED

SNOW

LIVE

PERM.LIVE

WIND

DEAD

SOIL

7

824

576 / 0

0 / 0

0 / 0

0 / 0

247 / 0

0 / 0

12

896

640 / 0

0 / 0

0 / 0

0 / 0

256 / 0

0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.04 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 6-7. DBS = 12-0-0 . CBF = 84 LBS.

2x4 SPF No.2 T-BRACE AT 4-8

2x3 SPF No.2 T-BRACE AT 5-8

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.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS

MEMB.

MAX. FACTORED FORCE (LBS)

FACTORED VERT. LOAD (PLF)

LC1

MAX

CSI (LC)

UNBRAC LENGTH

WEBS

MEMB.

MAX. FACTORED FORCE (LBS)

MAX

CSI (LC)

FR-TO

FROM

TO

FR-TO

1-2

0 / 29

-77.3

-77.3

0.10

(1)

10.00

11-3

-107 / 60

0.04

(1)

2-3

-1323 / 0

-77.3

-77.3

0.48

(1)

5.04

3-10

-371 / 0

0.40

(1)

3-4

-1046 / 0

-77.3

-77.3

0.45

(1)

5.53

10-4

0 / 345

0.08

(1)

4-5

-745 / 0

-77.3

-77.3

0.65

(1)

5.77

4-8

-169 / 0

0.14

(1)

5-6

-745 / 0

-77.3

-77.3

0.65

(1)

5.77

8-5

-653 / 0

0.82

(1)

7-6

-1125 / 0

0.0

0.0

0.40

(1)

5.98

8-6

0 / 1185

0.19

(1)

12-2

-1238 / 0

0.0

0.0

0.13

(1)

7.22

2-11

0 / 1145

0.26

(1)

12-11

0 / 0

-17.5

-17.5

0.13

(4)

10.00

11-10

0 / 1124

-17.5

-17.5

0.24

(1)

10.00

10-9

0 / 849

-17.5

-17.5

0.27

(4)

10.00

9-8

0 / 849

-17.5

-17.5

0.27

(4)

10.00

8-7

0 / 0

-17.5

-17.5

0.20

(4)

10.00

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.

LICENSED PROFESSIONAL ENGINEER

C.G. CARSON

100076892

PROVINCE OF ONTARIO

14 MAR 2017

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TOWN OF MILTON

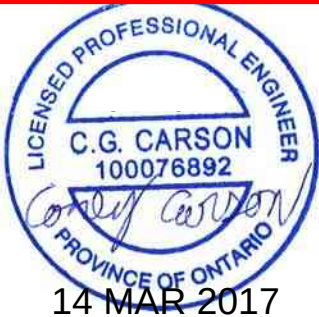
MAR 29, 2017

17-5058

BUILDING DIVISION

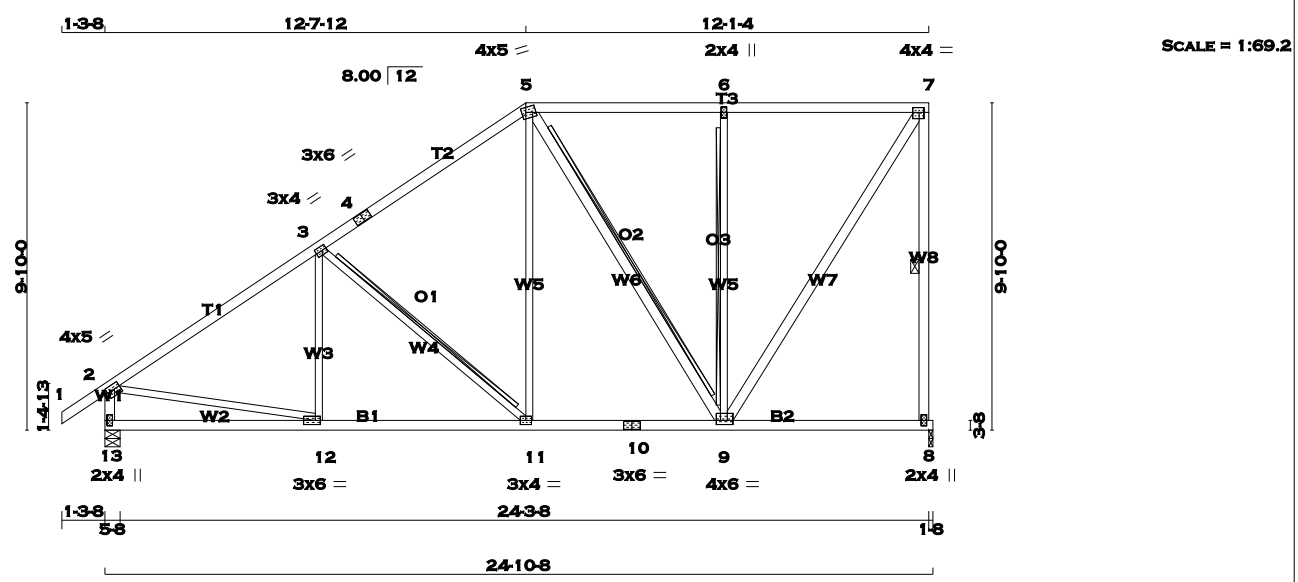
KOTT

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 = 129 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	
5 - 9	2x4	DRY	No.2	SPF	
9 - 7	2x4	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMVW-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	TTWW-m	MT20	4.0	5.0	1.75 1.50
6	TMVW-w	MT20	2.0	4.0	
7	TMVW-t	MT20	4.0	4.0	1.75 1.75
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	BMVWW-t	MT20	3.0	4.0	
12	BMVWW-t	MT20	3.0	6.0	1.50 1.75
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	UPLIFT	IN-SX	IN-SX	
8		1174	0	1174	0	0	1-8	1-8	
13		1280	0	1280	0	0	5-8	5-8	

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX/MIN.	SNOW	LIVE	PERM.LIVE	WIND	DEAD
8	824	576 / 0	0 / 0	0 / 0	0 / 0	0 / 0	247 / 0
13	896	640 / 0	0 / 0	0 / 0	0 / 0	0 / 0	256 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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 7-8. DBS = 12-0-0 . CBF = 85 LBS.
2x3 SPF No.2 T-BRACE AT 3-11
2x4 SPF No.2 T-BRACE AT 5-9, 6-9

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.

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

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

LOADING									
TOTAL LOAD CASES: (4)									
CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED HORIZ. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED HORIZ. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)
FR-TO		FROM	TO		FR-TO		FROM	TO	
1-2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	12-3	-63 / 88	0.03 (1)	
2-3	-1318 / 0	-77.3	-77.3	0.46 (1)	5.10	3-11	-473 / 0	0.54 (1)	
3-4	-951 / 0	-77.3	-77.3	0.42 (1)	5.80	11-5	0 / 406	0.09 (1)	
4-5	-951 / 0	-77.3	-77.3	0.42 (1)	5.80	5-9	-294 / 0	0.27 (1)	
5-6	-611 / 0	-77.3	-77.3	0.37 (1)	6.25	9-6	-581 / 0	0.43 (1)	
6-7	-612 / 0	-77.3	-77.3	0.37 (1)	6.25	9-7	0 / 1128	0.18 (1)	
8-7	-1130 / 0	0.0	0.0	0.53 (1)	5.98	2-12	0 / 1139	0.26 (1)	
13-2	-1234 / 0	0.0	0.0	0.13 (1)	7.23				
13-12	0 / 0	-17.5	-17.5	0.17 (4)	10.00				
12-11	0 / 1124	-17.5	-17.5	0.27 (1)	10.00				
11-10	0 / 767	-17.5	-17.5	0.21 (4)	10.00				
10-9	0 / 767	-17.5	-17.5	0.21 (4)	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

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=0.53 (7-8:1), BC=0.27 (11-12:1), WB=0.54 (3-11:1), SSI=0.23 (6-7:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR 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 (12) (INPUT = 0.90)
JSI METAL= 0.45 (2) (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.



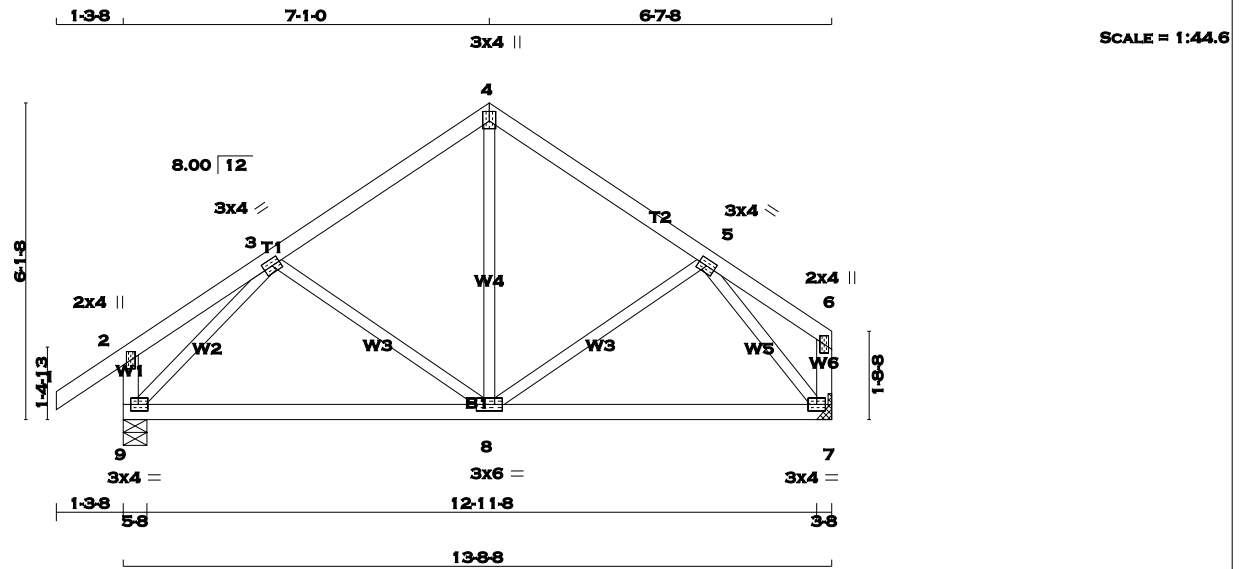
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KOTT , Stouffville, ON, CGC

Version 8.100 S Jan 17 2017 MiTek Industries, Inc. Tue Mar 14 14:15:18 2017 Page 1

ID:U2QnaXb6sCqG6gUFHnXFVvyG0OA-zoBndcGQmksLC2BN_BdPvi8uZOrZdKB1Frb4Sizb7v7



TOTAL WEIGHT = 57 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
3	TMWW-t	MT20	3.0	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	BMVWW-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		DOWN		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
9	756	0	756	0	0	5-8	5-8		
7	650	0	650	0	0			HANGER BY OTHERS	
MIN. SEAT SIZE: 3-8									

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN.	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
9	528	383 / 0	0 / 0	0 / 0	0 / 0	0 / 0	145 / 0	0 / 0
7	456	319 / 0	0 / 0	0 / 0	0 / 0	0 / 0	137 / 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 = 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 / 29	-77.3	-77.3 0.10 (1)	3-8	-136 / 10	0.06 (1)	
2-3	0 / 24	-77.3	-77.3 0.17 (1)	8-4	0 / 263	0.06 (1)	
3-4	-497 / 0	-77.3	-77.3 0.16 (1)	8-5	-64 / 26	0.03 (1)	
4-5	-497 / 0	-77.3	-77.3 0.16 (1)	9-3	-741 / 0	0.21 (1)	
5-6	0 / 28	-77.3	-77.3 0.17 (1)	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

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)

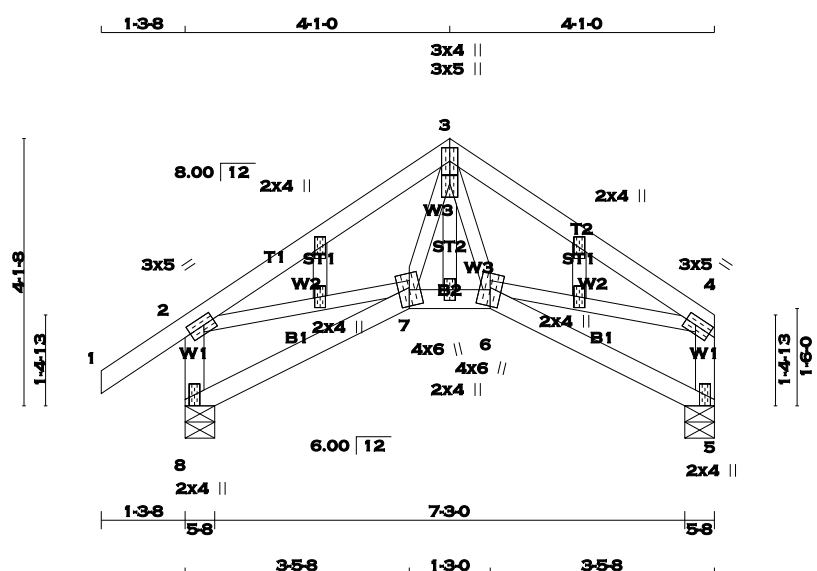
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TOTAL WEIGHT = 2 X 38 = 76 lb
[M][F]

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 2x3 DRY No.2 SPF				
EXCEPT				
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	TTWW+p	MT20	3.0	5.0	
3	NP+p	MT20	3.0	4.0	1.50 1.50
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	
9, 10, 11, 12, 13					
9	NP+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		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		
8	344	254 / 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	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. FACTORED FORCE (LBS)		FACTORED VERT. LOAD (PLF)		MEMB.	MAX. FACTORED FORCE (LBS)		FACTORED VERT. LOAD (PLF)	
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

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 (3-4:1), BC=0.06 (5-6:4), WB=0.08 (4-6:1), SSI=0.10 (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.

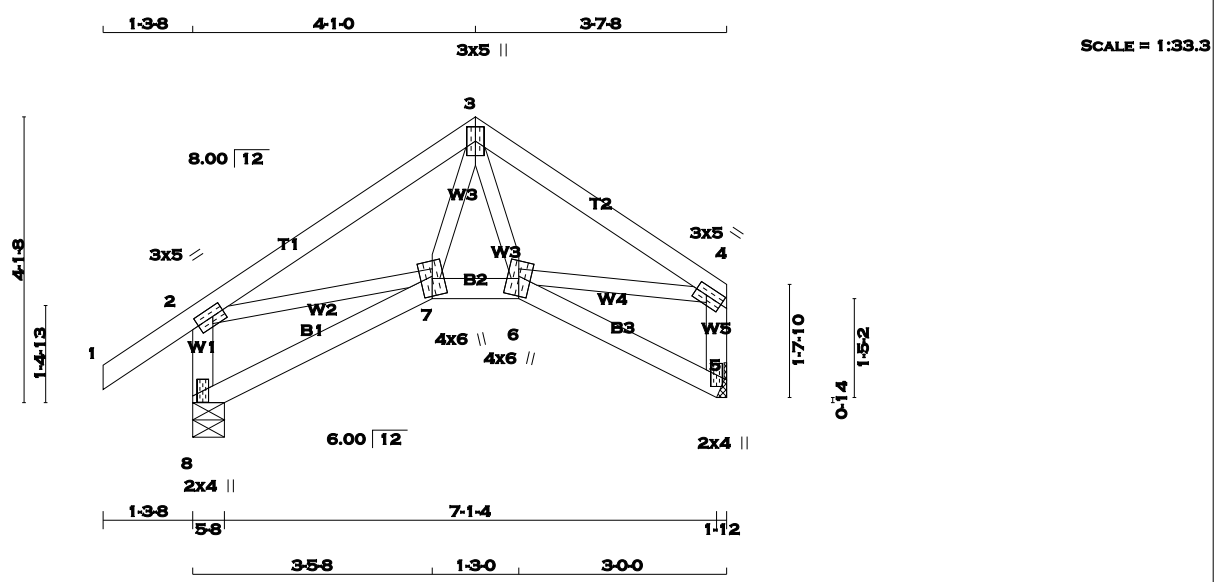
JSI GRIP= 0.52 (6) (INPUT = 0.90)
JSI METAL= 0.18 (2) (INPUT = 1.00)

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.



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TOTAL WEIGHT = 2 X 34 = 67 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

DESIGNER									
BEARINGS									
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		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX. (LC)	MEMB.	FORCE (LBS)	LC1 MAX. (LC)	MEMB.
FR-TO		FROM	TO	FR-TO		FROM	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
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)

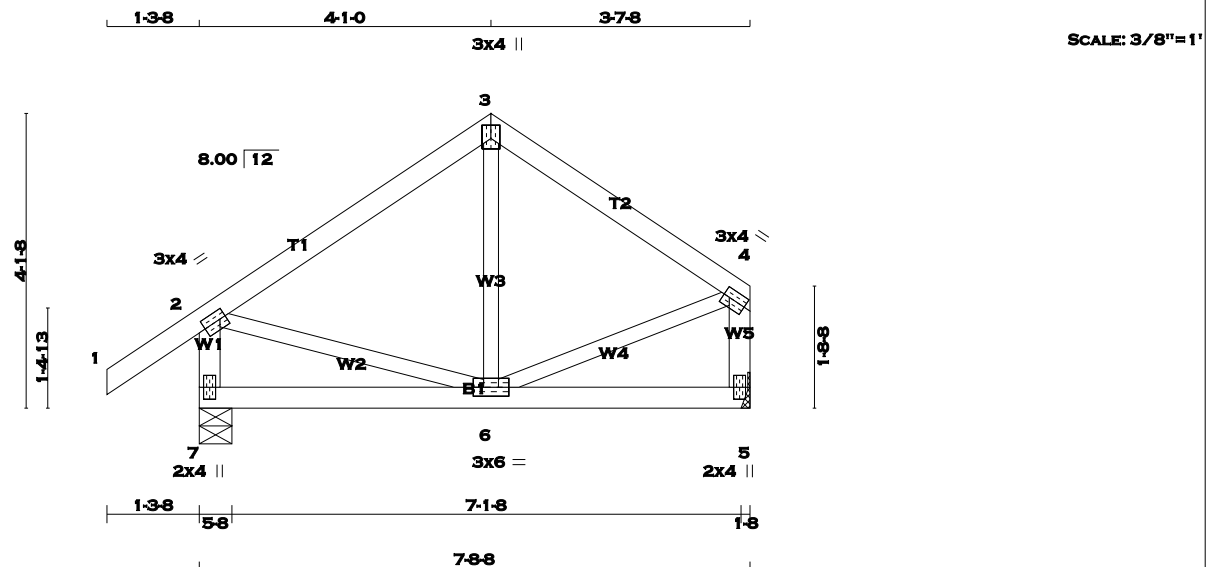
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TOTAL WEIGHT = 4 X 33 = 131 lb
[M][F]

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 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	1.00
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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX
7	472	0	472	0	5-8	5-8
5	366	0	366	0	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			
7	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) 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 MAX. CSI (LC)	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	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/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 (PSI)	SECTION (PLI)
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

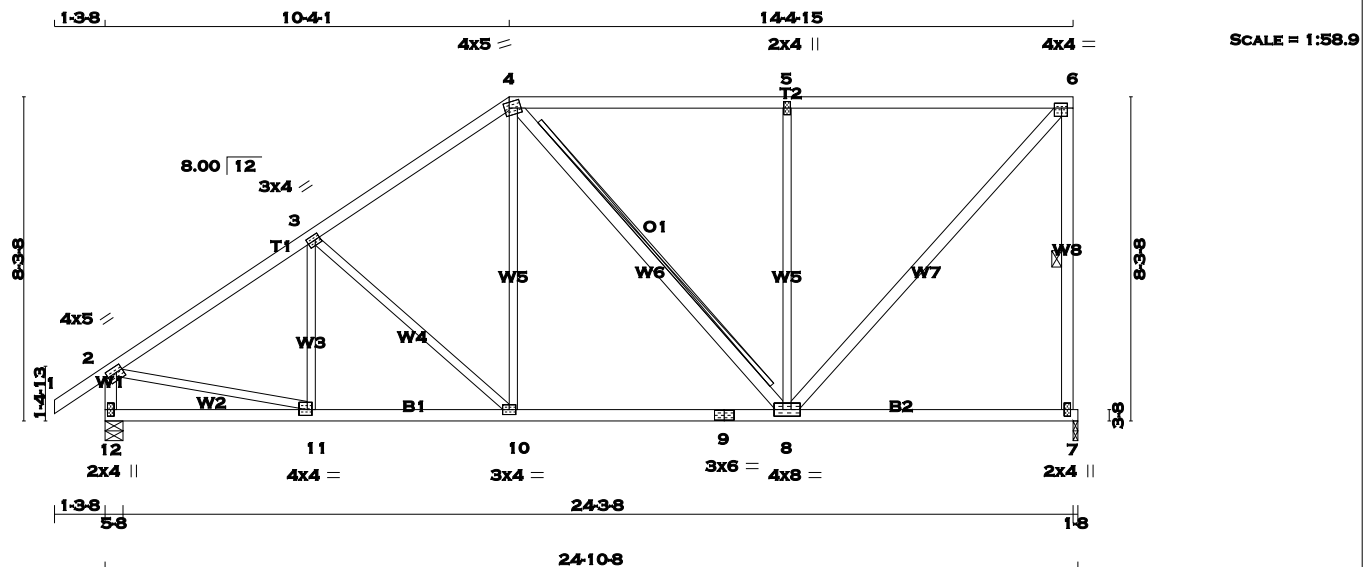
JSI GRIP= 0.67 (4) (INPUT = 0.90)
JSI METAL= 0.14 (2) (INPUT = 1.00)

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.



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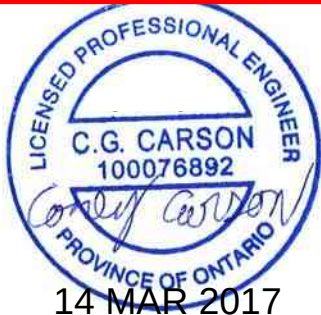




LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. SPF					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER					DESIGN CRITERIA				
1 - 4 2x4 DRY No.2 SPF					BEARINGS					SPECIFIED LOADS:				
4 - 6 2x4 DRY No.2 SPF					FACTORED MAXIMUM FACTORED INPUT REQ'D					TOP CH. LL = 23.3 PSF				
7 - 6 2x4 DRY No.2 SPF					GROSS REACTION GROSS REACTION BRG					DL = 3.0 PSF				
12 - 2 2x4 DRY No.2 SPF					DOWN HORZ UPLIFT IN-SX IN-SX					BOT CH. LL = 0.0 PSF				
12 - 9 2x4 DRY No.2 SPF					7 1174 0 1174 0 0 1-8 1-8					DL = 7.0 PSF				
9 - 7 2x4 DRY No.2 SPF					12 1280 0 1280 0 0 5-8 5-8					TOTAL LOAD = 33.3 PSF				
ALL WEBS 2x3 DRY No.2 SPF					UNFACTORED REACTIONS					SPACING = 24.0 IN. C/C				
EXCEPT					1ST LCASE MAX/MIN. COMPONENT REACTIONS					LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12				
4 - 8 2x4 DRY No.2 SPF					JT COMBINED SNOW LIVE PERM. LIVE WIND DEAD SOIL					THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010				
8 - 6 2x4 DRY No.2 SPF					7 824 576 / 0 0 / 0 0 / 0 247 / 0 0 / 0					THIS DESIGN COMPLIES WITH:				
DRY: SEASONED LUMBER.					12 896 640 / 0 0 / 0 0 / 0 256 / 0 0 / 0					- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014				
					BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 7, 12					- CSA 086-09				
					BRACING					- TPIC 2011				
					TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.14 FT.					(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				
					MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.					ALLOWABLE DEFL.(LL)= L/360 (0.82")				
					ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.					CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")				
					1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 6-7. DBS = 12-0-0 . CBF = 84 LBS. 2x4 SPF No.2 T-BRACE AT 4-8					ALLOWABLE DEFL.(TL)= L/360 (0.82")				
					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.					CALCULATED VERT. DEFL.(TL) = L/ 999 (0.09")				
					FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.					CSI: TC=0.75 (5-6:1) , BC=0.30 (8-10:4) , WB=0.94 (5-8:1) , SSI=0.27 (5-6:1)				
					END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW					DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10				
					LOADING					COMPANION LIVE LOAD FACTOR = 0.50				
					TOTAL LOAD CASES: (4)					TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .				
					CHORDS					NAIL VALUES				
					MEMB. MAX. FACTORED FORCE (LBS)					PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)				
					FACTORED VERT. LOAD LC1 MAX					MAX MIN MAX MIN MAX MIN				
					FROM TO					MT20 618 354 1667 822 2284 1656				
					LENGTH FR-TO					PLATE PLACEMENT TOL. = 0.250 inches				
					FR-TO					PLATE ROTATION TOL. = 5.0 Deg.				
					1- 2 0 / 29					JSI GRIP= 0.86 (2) (INPUT = 0.90)				
					2- 3 -1322 / 0					JSI METAL= 0.45 (2) (INPUT = 1.00)				
					3- 4 -1095 / 0									
					4- 5 -829 / 0									
					5- 6 -829 / 0									
					7- 6 -1123 / 0									
					12- 2 -1240 / 0									
					12-11 0 / 0									
					11-10 0 / 1121									
					10- 9 0 / 891									
					9- 8 0 / 891									
					8- 7 0 / 0									

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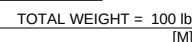
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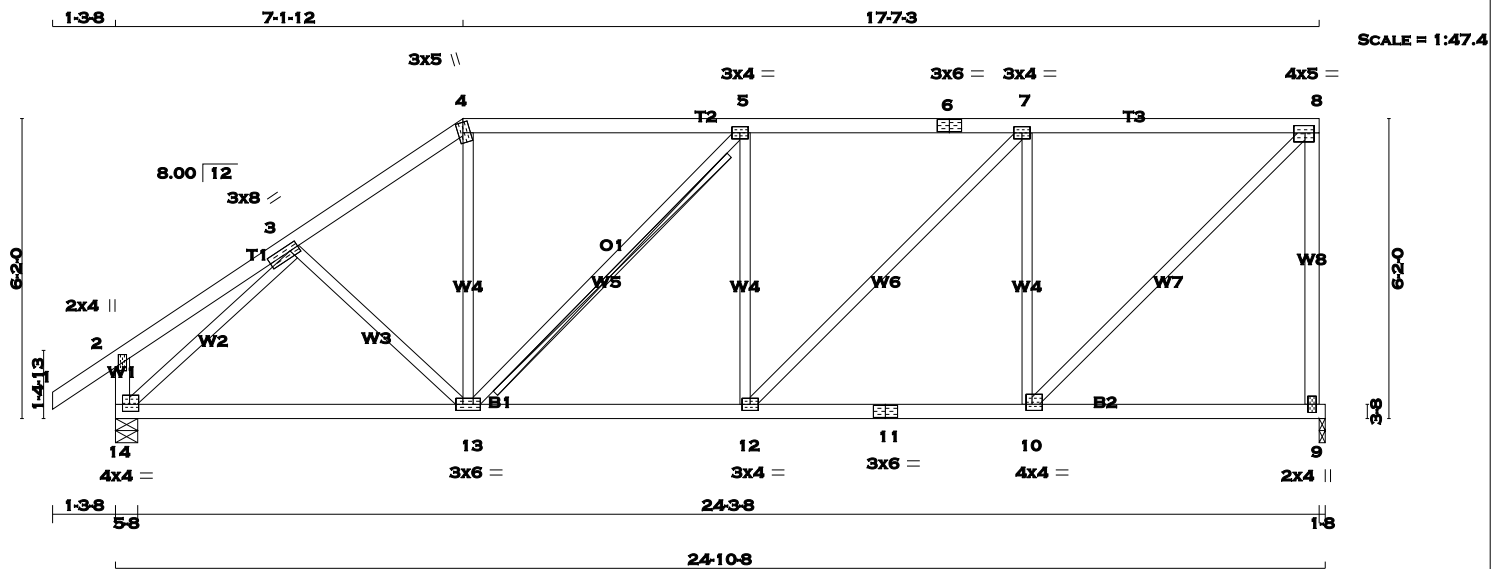




JSI GRIP= 0.88 (9) (INPUT = 0.90)
JSI METAL= 0.45 (2) (INPUT = 1.00)







TOTAL WEIGHT = 108 lb
[M]

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
11 - 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	TMV+p	MT20	2.0	4.0	
3	TMWW-t	MT20	3.0	8.0	1.50 2.25
4	TTW+m	MT20	3.0	5.0	2.50 1.25
5	TMWW-t	MT20	3.0	4.0	
6	TS-t	MT20	3.0	6.0	
7	TMWW-t	MT20	3.0	4.0	
8	TMVW-t	MT20	4.0	5.0	1.75 2.25
9	BMV1+p	MT20	2.0	4.0	
10	BMWW-t	MT20	4.0	4.0	1.50 1.50
11	BS-t	MT20	3.0	6.0	
12	BMWW-t	MT20	3.0	4.0	
13	BMWWW-t	MT20	3.0	6.0	
14	BMVW1-t	MT20	4.0	4.0	1.75 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 BRG		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
9	1174	0	1174	0	0	1-8	1-8		
14	1280	0	1280	0	0	5-8	5-8		

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX/MIN.	SNOW	LIVE	PERM.LIVE	WIND	DEAD
9	824	576 / 0	0 / 0	0 / 0	0 / 0	247 / 0	0 / 0
14	896	640 / 0	0 / 0	0 / 0	0 / 0	256 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.16 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.

2x3 SPF No.2 T-BRACE AT 5-13

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 29	-77.3 -77.3	0.10 (1)	10.00	3-13	-19 / 43	0.01 (4)
2-3	0 / 16	-77.3 -77.3	0.14 (1)	10.00	13-4	0 / 398	0.09 (1)
3-4	-1257 / 0	-77.3 -77.3	0.17 (1)	5.55	13-5	-348 / 0	0.38 (1)
4-5	-1038 / 0	-77.3 -77.3	0.38 (1)	5.65	12-5	-235 / 5	0.14 (1)
5-6	-1280 / 0	-77.3 -77.3	0.42 (1)	5.16	12-7	0 / 449	0.10 (1)
6-7	-1280 / 0	-77.3 -77.3	0.42 (1)	5.16	10-7	-824 / 0	0.49 (1)
7-8	-965 / 0	-77.3 -77.3	0.40 (1)	5.76	10-8	0 / 1349	0.30 (1)
9-8	-1131 / 0	0.0 0.0	0.84 (1)	7.46	14-3	-1455 / 0	0.57 (1)
14-2	-215 / 0	0.0 0.0	0.02 (1)	7.81			
14-13	0 / 1045	-17.5 -17.5	0.28 (1)	10.00			
13-12	0 / 1280	-17.5 -17.5	0.32 (1)	10.00			
12-11	0 / 965	-17.5 -17.5	0.24 (1)	10.00			
11-10	0 / 965	-17.5 -17.5	0.24 (1)	10.00			
10-9	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

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 (0.11")

CSI: TC=0.84 (8-9:1), BC=0.32 (12-13:1), WB=0.57 (3-14:1), SSI=0.22 (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.

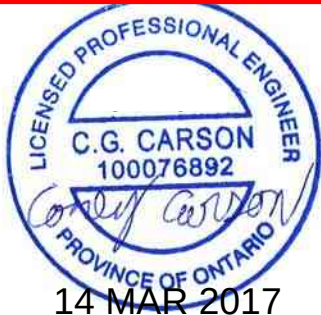
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

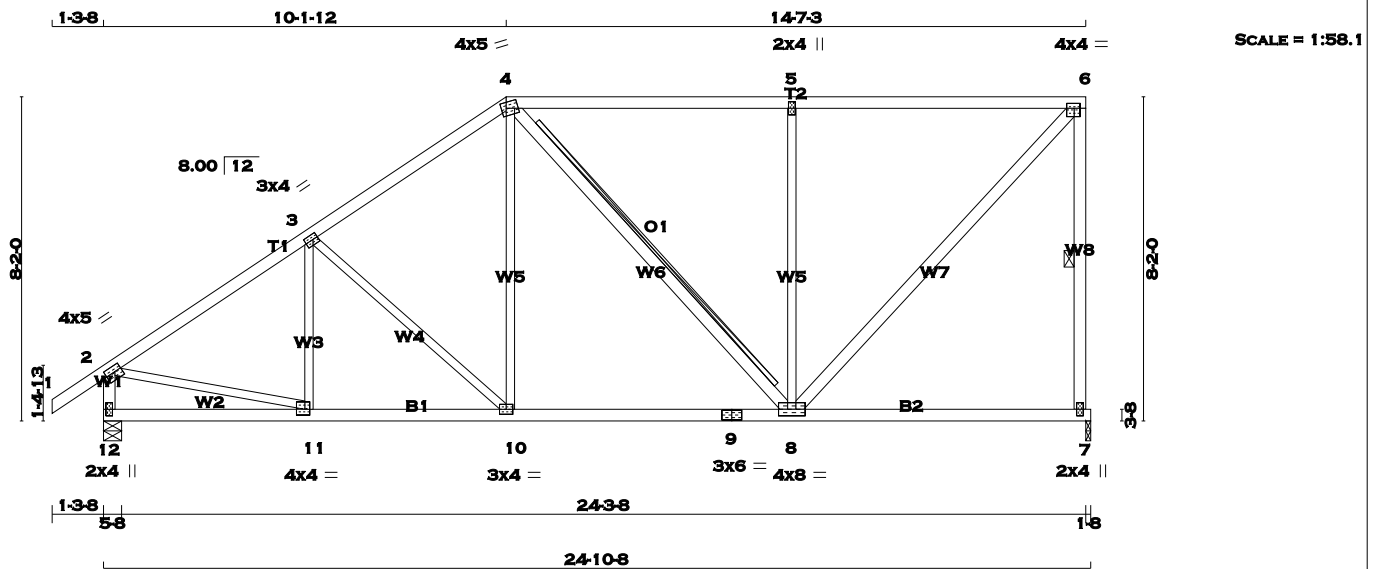
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TOTAL WEIGHT = 119 lb
[M]

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
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	TMW+w	MT20	2.0	4.0	
6	TMVW-t	MT20	4.0	4.0	1.50 1.75
7	BMV1+p	MT20	2.0	4.0	
8	BMVWV-t	MT20	4.0	8.0	
9	BS-t	MT20	3.0	6.0	
10	BMVW-t	MT20	3.0	4.0	
11	BMVW-t	MT20	4.0	4.0	1.75 1.50
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	
JT	GROSS REACTION	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	BRG	IN-SX
7	1174	0	1174	0	0	1-8	1-8	1-8	1-8
12	1280	0	1280	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX/MIN.	COMPONENT	REACTIONS			
7	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
12	824	576 / 0	0 / 0	0 / 0	0 / 0	247 / 0	0 / 0
12	896	640 / 0	0 / 0	0 / 0	0 / 0	256 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.16 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 = 12-0-0 . CBF = 84 LBS.
2x4 SPF No.2 T-BRACE AT 4-8

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.

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (CSI (LC))	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX (CSI (LC))
FR-TO		FROM TO			FR-TO		
1-2	0 / 29	-77.3 -77.3	0.10 (1)	10.00	11-3	-141 / 40	0.05 (1)
2-3	-1321 / 0	-77.3 -77.3	0.39 (1)	5.16	3-10	-299 / 0	0.26 (1)
3-4	-1106 / 0	-77.3 -77.3	0.37 (1)	5.54	10-4	0 / 302	0.07 (1)
4-5	-850 / 0	-77.3 -77.3	0.77 (1)	5.18	4-8	-75 / 0	0.06 (1)
5-6	-850 / 0	-77.3 -77.3	0.77 (1)	5.16	8-5	-702 / 0	0.91 (1)
7-6	-1122 / 0	0.0 0.0	0.34 (1)	5.99	8-6	0 / 1241	0.20 (1)
12-2	-1241 / 0	0.0 0.0	0.13 (1)	7.21	2-11	0 / 1144	0.26 (1)
12-11	0 / 0	-17.5 -17.5	0.10 (4)	10.00			
11-10	0 / 1120	-17.5 -17.5	0.25 (1)	10.00			
10-9	0 / 901	-17.5 -17.5	0.31 (4)	10.00			
9-8	0 / 901	-17.5 -17.5	0.31 (4)	10.00			
8-7	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 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 (0.10")

CSI: TC=0.77 (5-6:1), BC=0.31 (8-10:4), WB=0.91 (5-8:1), SSI=0.28 (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 .

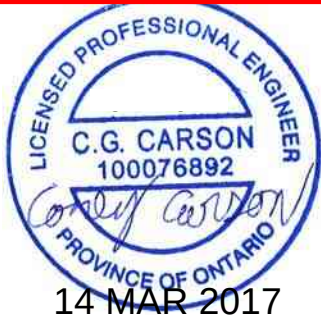
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

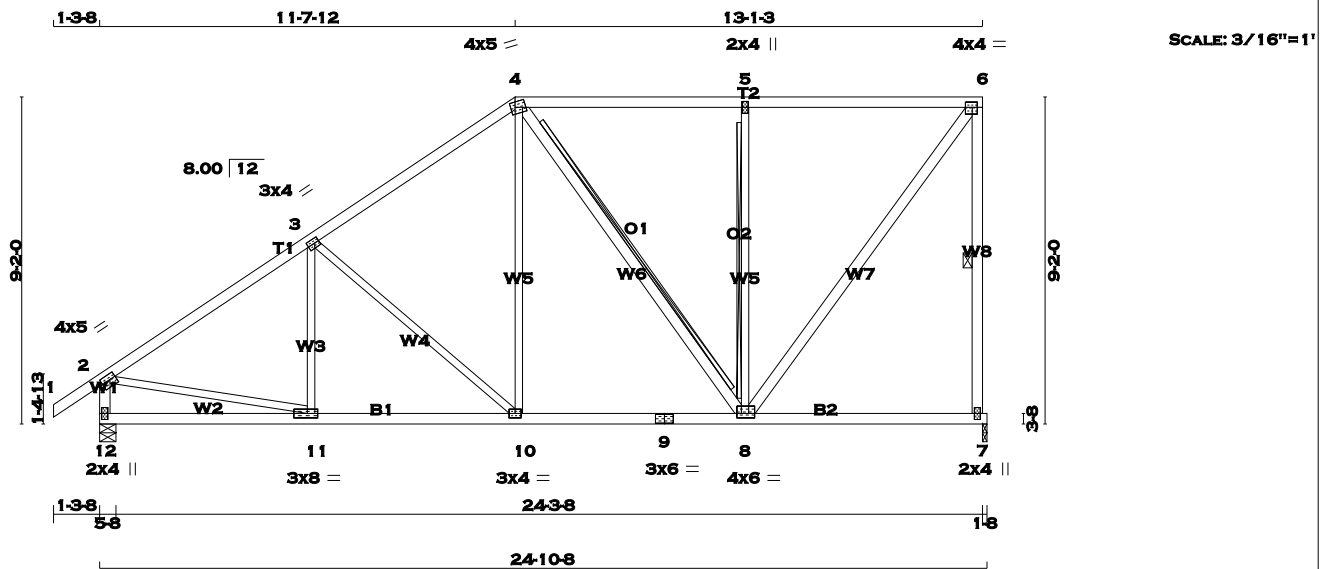
JSI GRIP= 0.86 (2) (INPUT = 0.90)
JSI METAL= 0.45 (2) (INPUT = 1.00)

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.



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

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

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.

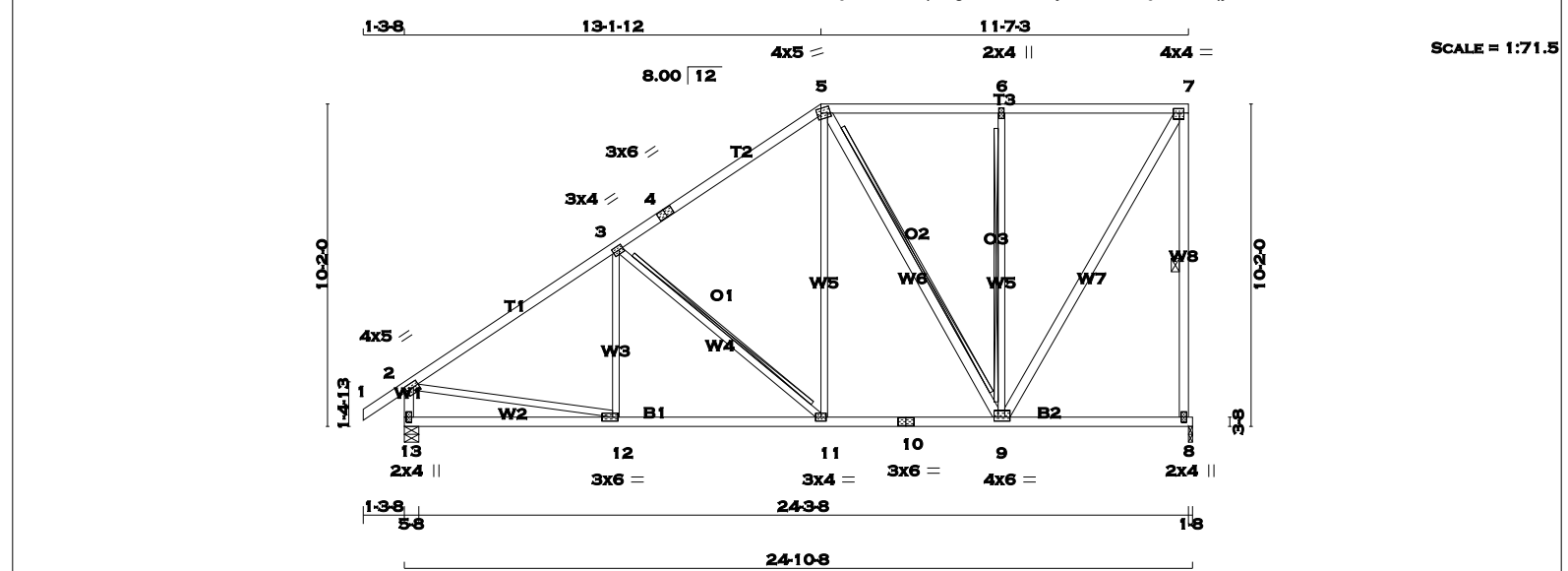


DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG		
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	BRG	IN-SX	
7	1174	0	1174	0	0	1-8	1-8		
12	1280	0	1280	0	0	5-8	5-8		
UNFACTORED REACTIONS									
JT	1ST LCASE COMBINED		MAX/MIN. SNOW		LIVE		PERM.LIVE WIND DEAD SOIL		
	824	576 / 0	0 / 0	0 / 0	0 / 0	0 / 0	247 / 0	0 / 0	0 / 0
12	896	640 / 0	0 / 0	0 / 0	0 / 0	0 / 0	256 / 0	0 / 0	0 / 0
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 7, 12									
BRACING									
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.96 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 6-7. DBS = 12-0-0 . CBF = 85 LBS.									
2x4 SPF No.2 T-BRACE AT 4-8									
2x3 SPF No.2 T-BRACE AT 5-8									
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.									
FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.									
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW									
LOADING									
TOTAL LOAD CASES: (4)									
CHORDS									
MEMB.	MAX. FACTORED FORCE (LBS)		FACTORED VERT. LOAD LC1 MAX (PLF)		MAX. UNBRAC LENGTH FR-TO		WEBS		
							MEMB.	MAX. FACTORED FORCE (LBS)	MAX (LC)
FR-TO			FROM	TO			FR-TO		
1-2	0 / 29		-77.3	-77.3	0.10 (1)	10.00	11-3	-92 / 70	0.04 (1)
2-3	-1322 / 0		-77.3	-77.3	0.53 (1)	4.96	3-10	-405 / 0	0.49 (1)
3-4	-1015 / 0		-77.3	-77.3	0.50 (1)	5.51	10-4	0 / 365	0.08 (1)
4-5	-698 / 0		-77.3	-77.3	0.59 (1)	6.05	4-8	-212 / 0	0.18 (1)
5-6	-698 / 0		-77.3	-77.3	0.60 (1)	6.05	8-5	-629 / 0	0.88 (1)
7-6	-1127 / 0		0.0	0.0	0.44 (1)	5.98	8-6	0 / 1163	0.19 (1)
12-2	-1237 / 0		0.0	0.0	0.13 (1)	7.22	2-11	0 / 1144	0.26 (1)
12-11	0 / 0		-17.5	-17.5	0.14 (4)	10.00			
11-10	0 / 1125		-17.5	-17.5	0.25 (1)	10.00			
10-9	0 / 823		-17.5	-17.5	0.25 (4)	10.00			
9-8	0 / 823		-17.5	-17.5	0.25 (4)	10.00			
8-7	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									
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 (0.08")									
CSI: TC=0.60 (5-6:1) , BC=0.25 (10-11:1) , WB=0.88 (5-8:1) , 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	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= 0.45 (2) (INPUT = 1.00)									

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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

2x3

DRY

No.2

SPF

EXCEPT

5 - 9

2x4

DRY

No.2

SPF

9 - 7

2x4

DRY

No.2

SPF

DRY: SEASONED LUMBER.

TOTAL WEIGHT = 131 lb

[M][F]

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	
8		1174	0	1174	0	0	1-8	1-8	
13		1280	0	1280	0	0	5-8	5-8	
UNFACTORED REACTIONS									
		1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
8		824	576 / 0	0 / 0	0 / 0	0 / 0	247 / 0	0 / 0	
13		896	640 / 0	0 / 0	0 / 0	0 / 0	256 / 0	0 / 0	

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.04 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 7-8. DBS = 12-0-0 . CBF = 85 LBS.

2x3 SPF No.2 T-BRACE AT 3-11

2x4 SPF No.2 T-BRACE AT 5-9, 6-9

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.

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

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

LOADING									
TOTAL LOAD CASES: (4)									
		CHORDS		WEBS					
		MAX. FACTORED		MAX. FACTORED					
		MEMB. FORCE (LBS)		VERT. LOAD LC1 MAX (PLF)		MEMB. FORCE (LBS)		MAX. FACTORED (LC)	
				FROM TO				LENGTH FR-TO	
1-2		0 / 29		-77.3	-77.3	0.10 (1)	10.00	12-3	-50 / 96
2-3		-1314 / 0		-77.3	-77.3	0.50 (1)	5.04	3-11	-507 / 0
3-4		-918 / 0		-77.3	-77.3	0.46 (1)	5.81	11-5	0 / 426
4-5		-918 / 0		-77.3	-77.3	0.46 (1)	5.81	5-9	-333 / 0
5-6		-572 / 0		-77.3	-77.3	0.34 (1)	6.25	9-6	-556 / 0
6-7		-572 / 0		-77.3	-77.3	0.34 (1)	6.25	9-7	0 / 1115
8-7		-1131 / 0		0.0	0.0	0.57 (1)	5.97	2-12	0 / 1136
13-2		-1232 / 0		0.0	0.0	0.13 (1)	7.23		

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

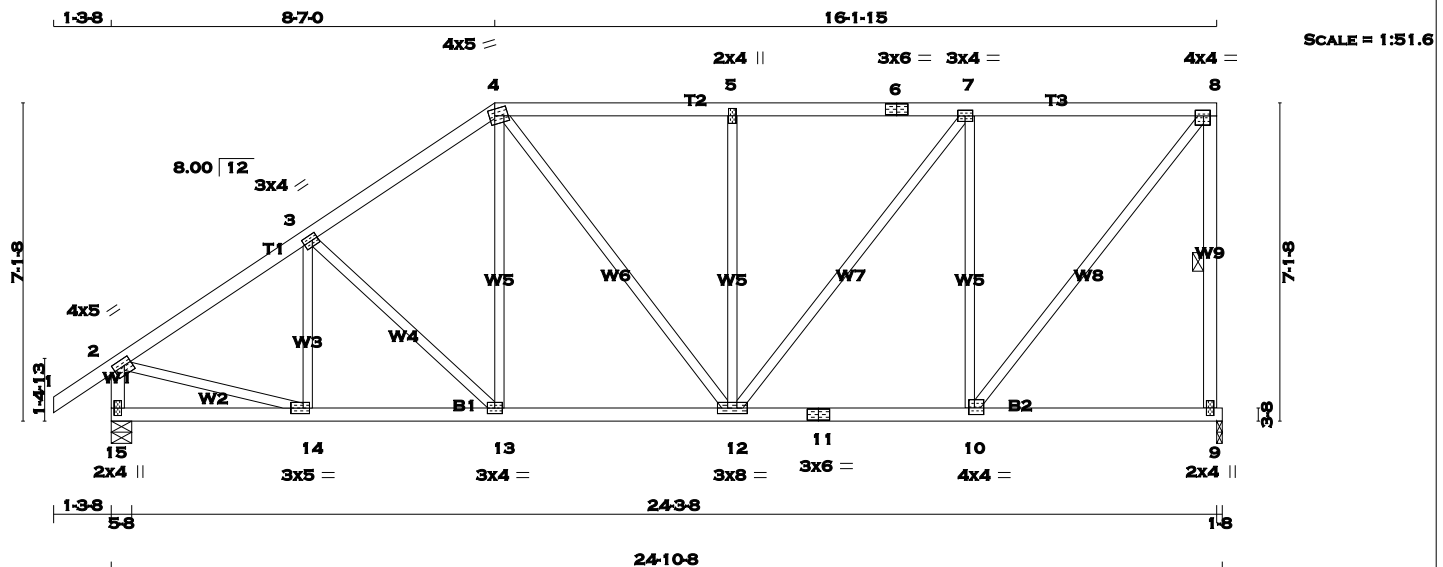
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (12) (INPUT = 0.90)

JSI METAL= 0.45 (2) (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.



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
15 - 2	2x4	DRY	No.2	SPF
15 - 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-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	TMW+w	MT20	2.0	4.0	
6	TS-t	MT20	3.0	6.0	
7	TMVW-t	MT20	3.0	4.0	
8	TMVW-t	MT20	4.0	4.0	1.50 1.75
9	BMV1+p	MT20	2.0	4.0	
10	BMVW-t	MT20	4.0	4.0	1.75 1.50
11	BS-t	MT20	3.0	6.0	
12	BMVW-t	MT20	3.0	8.0	
13	BMVW-t	MT20	3.0	4.0	
14	BMVW-t	MT20	3.0	5.0	1.50 1.75
15	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	
9		1174	0	1174	0	0	1-8	1-8	
15		1280	0	1280	0	0	5-8	5-8	

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX/MIN.	COMPONENT	REACTIONS			
9	824	576 / 0	LIVE	PERM.LIVE	WIND	DEAD	SOIL
15	896	640 / 0	0 / 0	0 / 0	0 / 0	247 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 9, 15

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.35 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 = 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

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	0 / 29	-77.3 -77.3	0.10 (1)	10.00	14-3	-194 / 12	0.05 (1)
2-3	-1306 / 0	-77.3 -77.3	0.27 (1)	5.35	3-13	-187 / 0	0.11 (1)
3-4	-1187 / 0	-77.3 -77.3	0.26 (1)	5.55	13-4	0 / 215	0.05 (1)
4-5	-1081 / 0	-77.3 -77.3	0.32 (1)	5.66	4-12	0 / 179	0.04 (1)
5-6	-1081 / 0	-77.3 -77.3	0.34 (1)	5.62	12-5	-444 / 0	0.39 (1)
6-7	-1081 / 0	-77.3 -77.3	0.34 (1)	5.62	12-7	0 / 494	0.11 (1)
7-8	-778 / 0	-77.3 -77.3	0.33 (1)	6.25	10-7	-854 / 0	0.75 (1)
9-8	-1135 / 0	0.0 0.0	0.26 (1)	5.97	10-8	0 / 1237	0.28 (1)
15-2	-1246 / 0	0.0 0.0	0.13 (1)	7.20	2-14	0 / 1137	0.26 (1)
15-14	0 / 0	-17.5 -17.5	0.07 (4)	10.00			
14-13	0 / 1104	-17.5 -17.5	0.22 (1)	10.00			
13-12	0 / 971	-17.5 -17.5	0.20 (1)	10.00			
12-11	0 / 778	-17.5 -17.5	0.19 (1)	10.00			
11-10	0 / 778	-17.5 -17.5	0.19 (1)	10.00			
10-9	0 / 0	-17.5 -17.5	0.13 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 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 (0.09")

CSI: TC=0.34 (5-7:1), BC=0.22 (13-14:1), WB=0.75 (7-10:1), 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 .

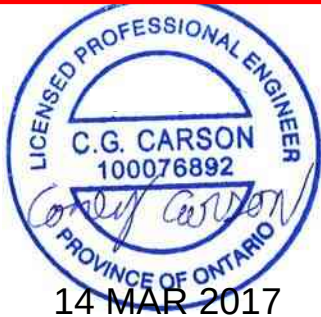
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

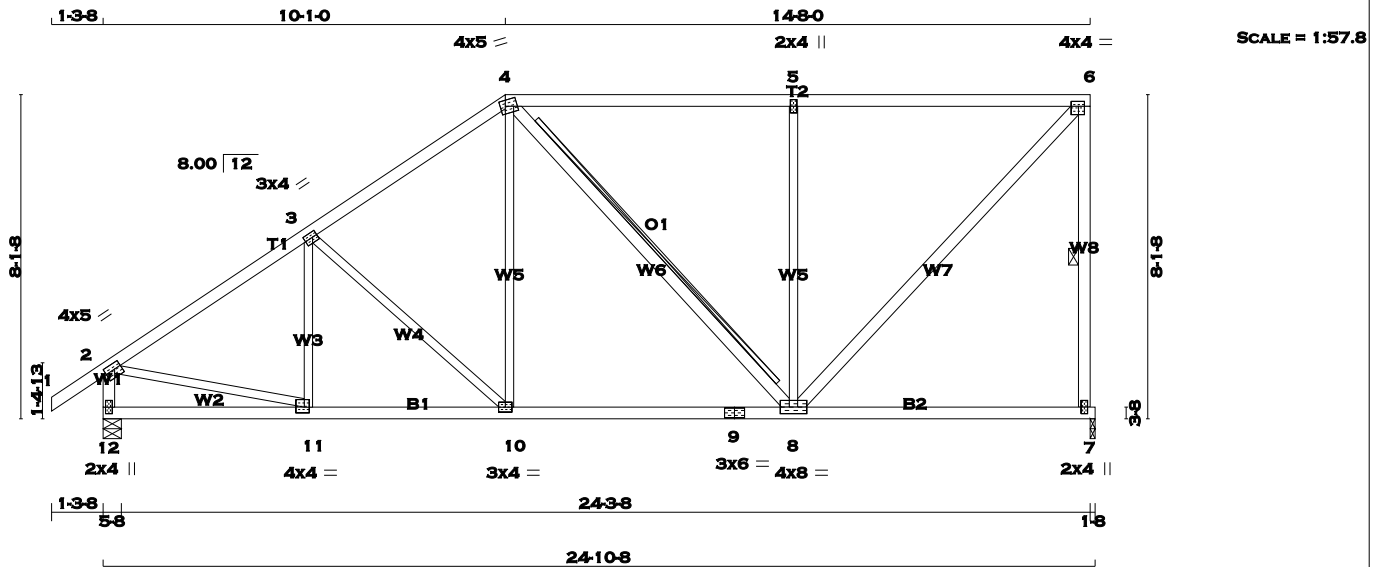
JSI GRIP= 0.90 (14) (INPUT = 0.90)
JSI METAL= 0.44 (2) (INPUT = 1.00)

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.



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BUILDING DIVISION





TOTAL WEIGHT = 119 lb [M]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
12 - 2	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
4 - 8	2x4	DRY	No.2	SPF
8 - 6	2x4	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
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	TMW+w	MT20	2.0	4.0	
6	TMVW-t	MT20	4.0	4.0	1.50 1.75
7	BMV1+p	MT20	2.0	4.0	
8	BMVWV-t	MT20	4.0	8.0	
9	BS-t	MT20	3.0	6.0	
10	BMVW-t	MT20	3.0	4.0	
11	BMVW-t	MT20	4.0	4.0	1.75 1.50
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	IN-SX	IN-SX	
7		1174	0	1174	0	0	1-8	1-8	
12		1280	0	1280	0	0	5-8	5-8	

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX/MIN.	COMPONENT	REACTIONS			
7	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
12	824	576 / 0	0 / 0	0 / 0	0 / 0	247 / 0	0 / 0
12	896	640 / 0	0 / 0	0 / 0	0 / 0	256 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.13 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 = 12-0-0 . CBF = 84 LBS.
2x4 SPF No.2 T-BRACE AT 4-8

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.

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 CSI (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 29	-77.3 -77.3	0.10 (1)	10.00	11-3	-143 / 38	0.05 (1)
2-3	-1320 / 0	-77.3 -77.3	0.38 (1)	5.18	3-10	-295 / 0	0.25 (1)
3-4	-1110 / 0	-77.3 -77.3	0.37 (1)	5.54	10-4	0 / 299	0.07 (1)
4-5	-857 / 0	-77.3 -77.3	0.78 (1)	5.13	4-8	-69 / 0	0.05 (1)
5-6	-857 / 0	-77.3 -77.3	0.78 (1)	5.13	8-5	-705 / 0	0.90 (1)
7-6	-1122 / 0	0.0 0.0	0.33 (1)	5.99	8-6	0 / 1245	0.20 (1)
12-2	-1241 / 0	0.0 0.0	0.13 (1)	7.20	2-11	0 / 1144	0.26 (1)
12-11	0 / 0	-17.5 -17.5	0.10 (4)	10.00			
11-10	0 / 1120	-17.5 -17.5	0.25 (1)	10.00			
10-9	0 / 904	-17.5 -17.5	0.31 (4)	10.00			
9-8	0 / 904	-17.5 -17.5	0.31 (4)	10.00			
8-7	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 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 (0.10")

CSI: TC=0.78 (5-6:1), BC=0.31 (8-10:4), WB=0.90 (5-8:1), SSI=0.28 (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 .

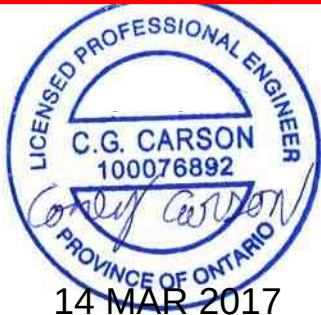
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (2) (INPUT = 0.90)
JSI METAL= 0.45 (2) (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.

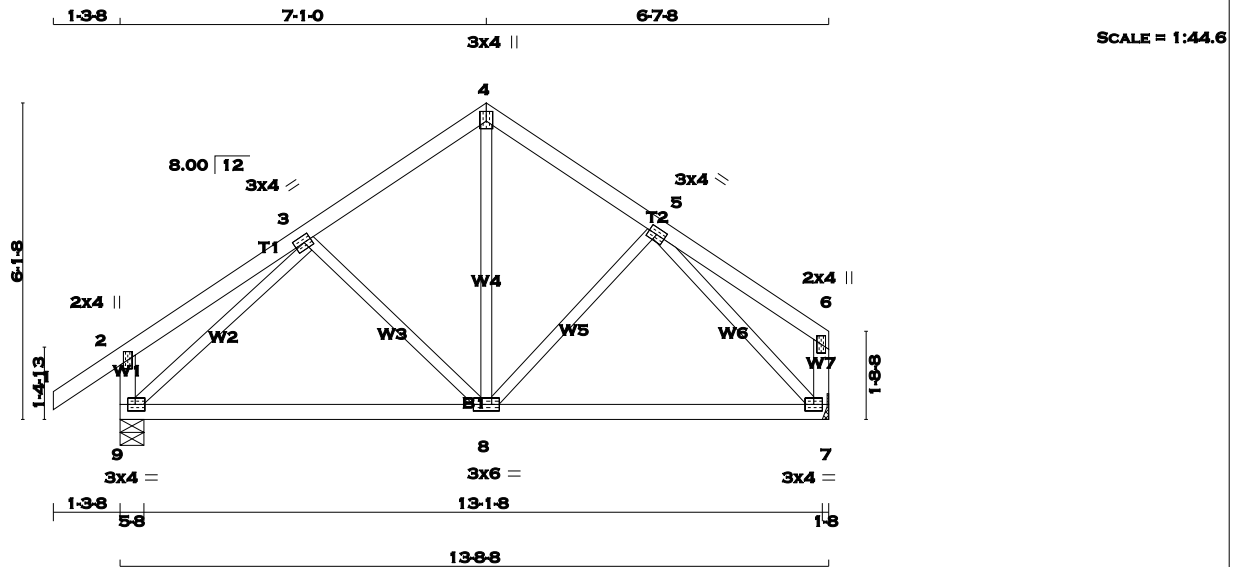


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TOTAL WEIGHT = 58 lb

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 EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
3	TMWW-t	MT20	3.0	4.0	1.50	1.75
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	BMWW-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 GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD 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	HANGER BY OTHERS MIN. SEAT SIZE: 1-8			

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN.	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
9	528	383 / 0	0 / 0	0 / 0	0 / 0	0 / 0	145 / 0	0 / 0
7	456	319 / 0	0 / 0	0 / 0	0 / 0	0 / 0	137 / 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 = 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. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. (LC)
FR-TO		FROM	TO		FR-TO		
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	3-8	-153 / 4	0.06 (1)
2-3	0 / 17	-77.3	-77.3 0.15 (1)	10.00	8-4	0 / 328	0.07 (1)
3-4	-498 / 0	-77.3	-77.3 0.12 (1)	6.25	8-5	-100 / 15	0.04 (1)
4-5	-497 / 0	-77.3	-77.3 0.10 (1)	6.25	9-3	-712 / 0	0.28 (1)
5-6	0 / 16	-77.3	-77.3 0.13 (1)	10.00	5-7	-690 / 0	0.26 (1)
9-2	-212 / 0	0.0	0.0 0.02 (1)	7.81			
7-6	-100 / 0	0.0	0.0 0.01 (1)	7.81			
9-8	0 / 510	-17.5	-17.5 0.27 (4)	10.00			
8-7	0 / 468	-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=0.15 (2-3:1) , BC=0.27 (8-9:4) , WB=0.28 (3-9:1) , 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= 0.88 (5) (INPUT = 0.90)
JSI METAL= 0.25 (3) (INPUT = 1.00)

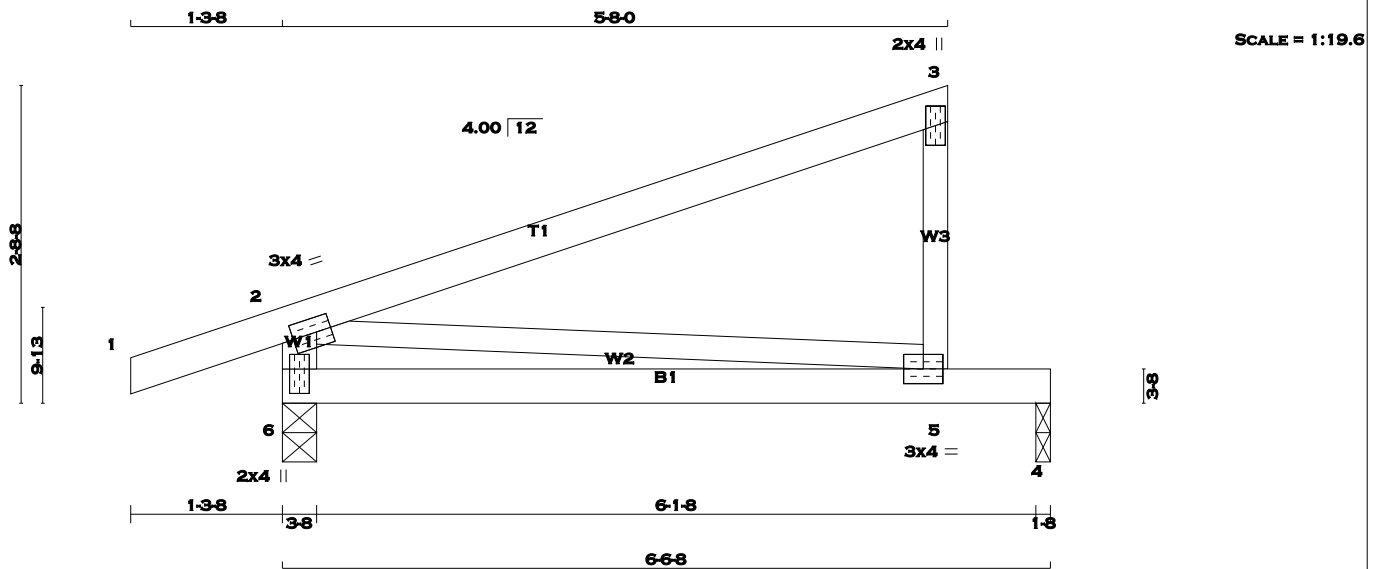
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TOTAL WEIGHT = 6 X 22 = 133 lb	
	[M][F]

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
6	409	0	409	0	0	3-8	3-8
4	247	0	247	0	0	1-8	1-8

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
6	285	212 / 0	0 / 0	0 / 0	0 / 0	73 / 0	0 / 0
4	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) 6, 4

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO			FR-TO		
1-2	0/16	-77.3	-77.3 0.10 (1)	10.00			
2-3	0/0	-77.3	-77.3 0.42 (1)	10.00	2-5	0/0	0.00 (1)
5-3	-219/0	0.0	0.0 0.04 (1)	7.81			
6-2	-323/0	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 0.29 (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 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (0.22")
CALCULATED VERT. DEFL.(TL) = L/ 430 (0.18")

CSI: TC=0.42 (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 .

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.

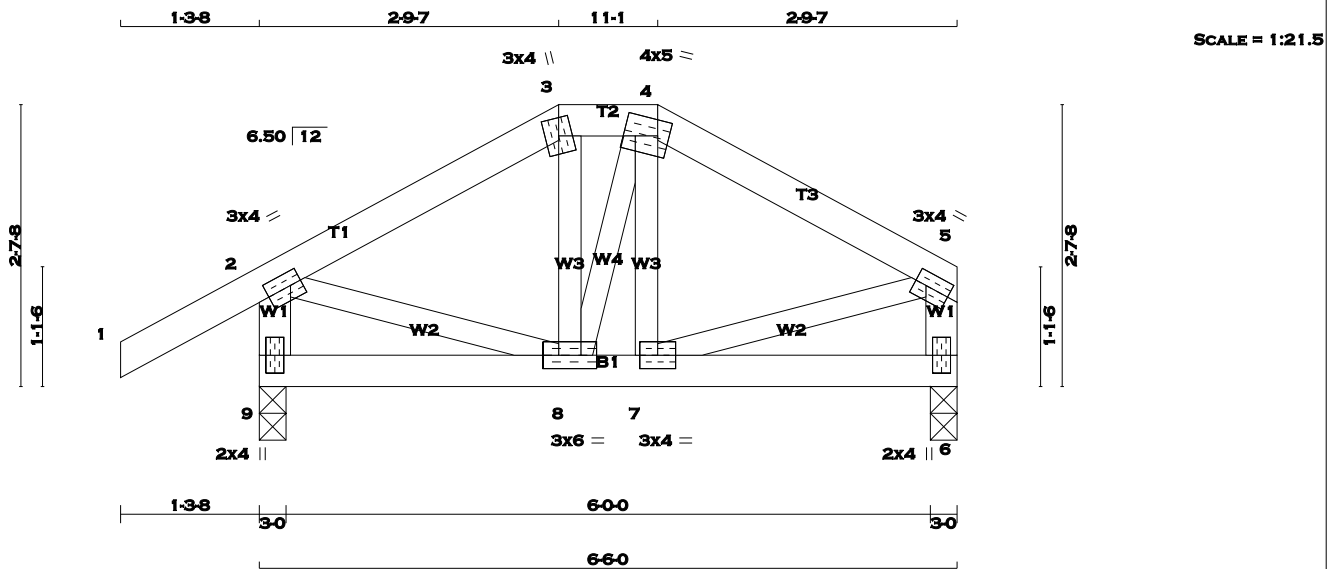
JSI GRIP= 0.29 (2) (INPUT = 0.90)
JSI METAL= 0.06 (6) (INPUT = 1.00)

**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.**



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TOTAL WEIGHT = 2 X 28 = 57 lb
[M][F]

LUMBER				DESCR.			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	SPF	SPF	SPF	SPF
1 - 3	2x4	DRY	No.2	SPF	SPF	SPF	SPF
3 - 4	2x4	DRY	No.2	SPF	SPF	SPF	SPF
4 - 5	2x4	DRY	No.2	SPF	SPF	SPF	SPF
9 - 2	2x4	DRY	No.2	SPF	SPF	SPF	SPF
6 - 5	2x4	DRY	No.2	SPF	SPF	SPF	SPF
9 - 6	2x4	DRY	No.2	SPF	SPF	SPF	SPF
ALL WEBS	2x3	DRY	No.2	SPF	SPF	SPF	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+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	BMVW-t	MT20	3.0	4.0			
8	BMVW-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				MAXIMUM FACTORED				INPUT				REQRD			
				GROSS REACTION				GROSS REACTION				BRG				BRG			
				VERT	HORZ	DOWN	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX				IN-SX			
JT	9	414	0	414	0	0	0	3-0	3-0	3-0	3-0								
JT	6	308	0	308	0	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
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

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			
MAX. FACTORED				MAX. FACTORED			
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	MAX. LC1 (LC)	MEMB.	FORCE (LBS)	MAX. LC1 (LC)	UNBRAC LENGTH FR-TO
FR-TO		FROM TO		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			

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 (0.22")
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 MIN
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

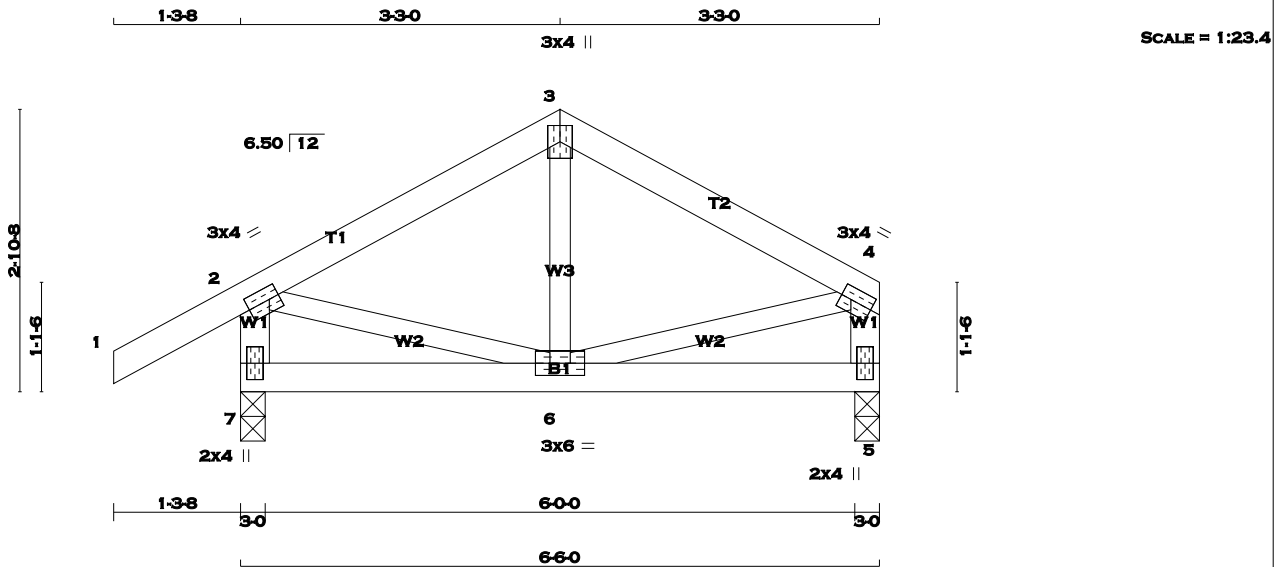
JSI GRIP= 0.56 (5) (INPUT = 0.90)
JSI METAL= 0.13 (2) (INPUT = 1.00)

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TOTAL WEIGHT = 4 X 26 = 104 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	
GROSS REACTION		GROSS REACTION		DOWN		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
7	414	0	414	0	0	3-0	3-0		
5	308	0	308	0	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			WEBS						
MAX. FACTORED			MAX. FACTORED						
MEMB.	FORCE (LBS)	VERT. LOAD LC1	MAX. FORCE (PLF)	MAX. CSI (LC)	UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO				FR-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 (2-3:1) , BC=0.05 (6-7:4) , WB=0.05 (4-6:1) , 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)

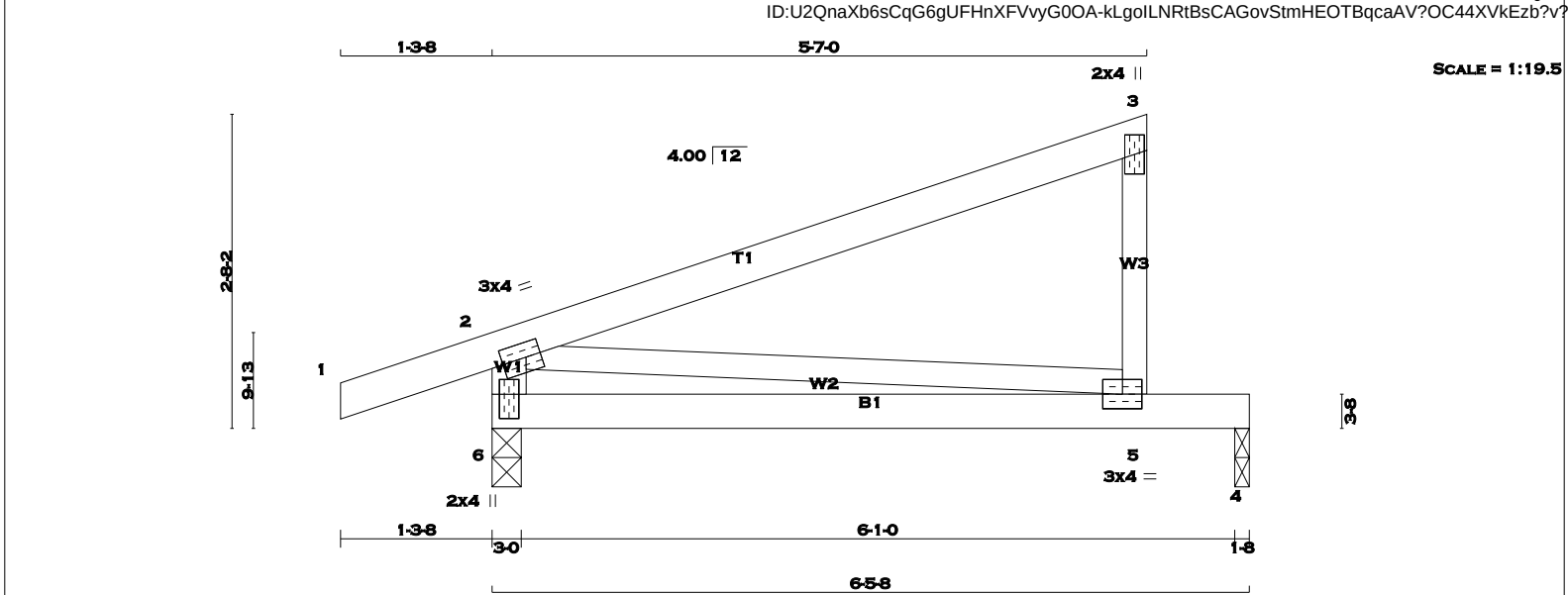
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TOTAL WEIGHT = 10 X 22 = 219 lb										[M][F]	
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR.											
1 - 3	2x4	DRY	No.2	SPF							
5 - 3	2x3	DRY	No.2	SPF							
6 - 2	2x4	DRY	No.2	SPF							
6 - 4	2x4	DRY	No.2	SPF							
ALL WEBS 2x3		DRY	No.2	SPF							
DRY: SEASONED LUMBER.											
PLATES (table is in inches)											
JT	TYPE	PLATES	W	LEN	Y	X					
2	TMVW-t	MT20	3.0	4.0	1.50	1.50					
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											
		FACTORED		MAXIMUM FACTORED		INPUT		REQRD			
		GROSS REACTION		GROSS REACTION		BRG		BRG			
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX			
6		405	0	405	0	0	3-0	3-0			
4		243	0	243	0	0	1-8	1-8			
UNFACTORED REACTIONS											
		1ST LCASE		MAX./MIN. COMPONENT REACTIONS							
JT		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				WEBS							
		MAX. FACTORED		FACTORED				MAX. FACTORED			
MEMB.		FORCE		VERT. LOAD		LC1 MAX		MEMB.		FORCE	
		(LBS)		(PLF)		CSI (LC)				(LBS)	
						UNBRAC				MAX	
FR-TO				FROM TO		LENGTH		FR-TO		CSI (LC)	
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)	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= 0.29 (2) (INPUT = 0.90)											
JSI METAL= 0.06 (6) (INPUT = 1.00)											

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LICENSED PROFESSIONAL ENGINEER
C.G. CARSON
100076892
PROVINCE OF ONTARIO

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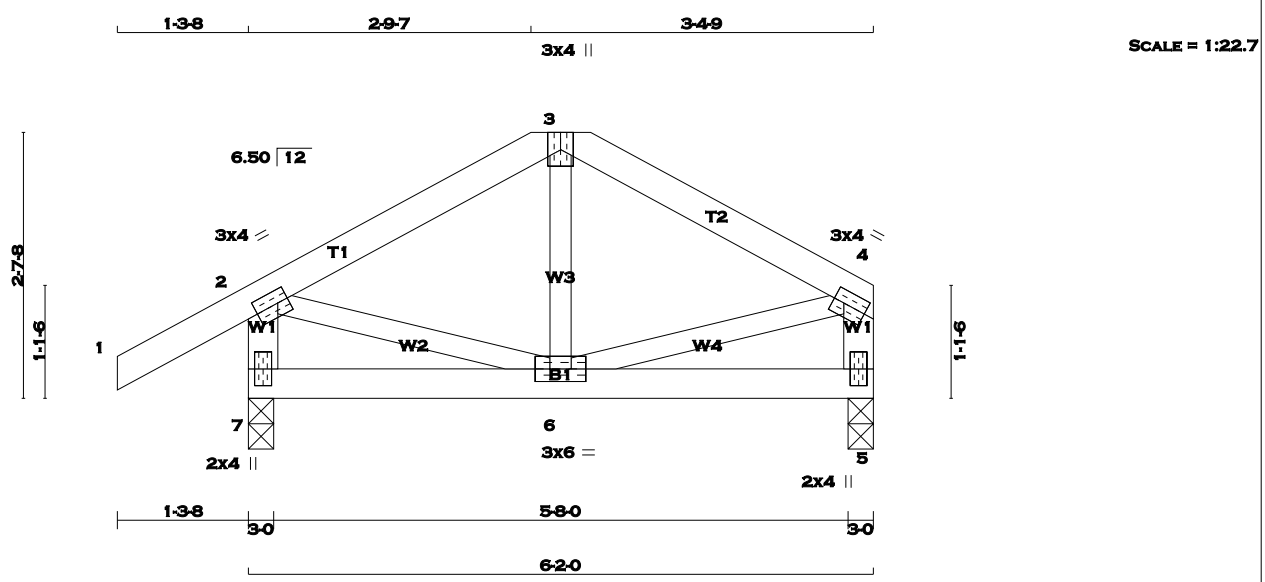
KOTT

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TOTAL WEIGHT = 25 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 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	1.25
3	TTW+p	MT20	3.0	4.0	Edge	1.50
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		
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	
7		398	0	398	0	0	3-0	3-0	
5		292	0	292	0	0	3-0	3-0	

UNFACTORED REACTIONS							
JT	1ST LCASE	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
7		277	207 / 0	0 / 0	0 / 0	0 / 0	70 / 0
5		205	144 / 0	0 / 0	0 / 0	0 / 0	62 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 7, 5

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

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

LOADING							
TOTAL LOAD CASES: (4)							
CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	FACTORED MAX. CSI (LC)
FR-TO		FROM TO		FR-TO			
1-2	0 / 25	-77.3 -77.3	0.10 (1)	10.00	2-6	0 / 195	0.04 (1)
2-3	-215 / 0	-77.3 -77.3	0.09 (1)	6.25	6-4	0 / 195	0.04 (1)
3-4	-214 / 0	-77.3 -77.3	0.09 (1)	6.25	6-3	-34 / 42	0.01 (4)
7-2	-376 / 0	0.0 0.0	0.04 (1)	7.81			
5-4	-270 / 0	0.0 0.0	0.03 (1)	7.81			
7-6	0 / 0	-17.5 -17.5	0.04 (4)	10.00			
6-5	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

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=0.04 (5-6:4) , WB=0.04 (2-6:1) , SSI=0.08 (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
MT20	618	354	1667	822

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

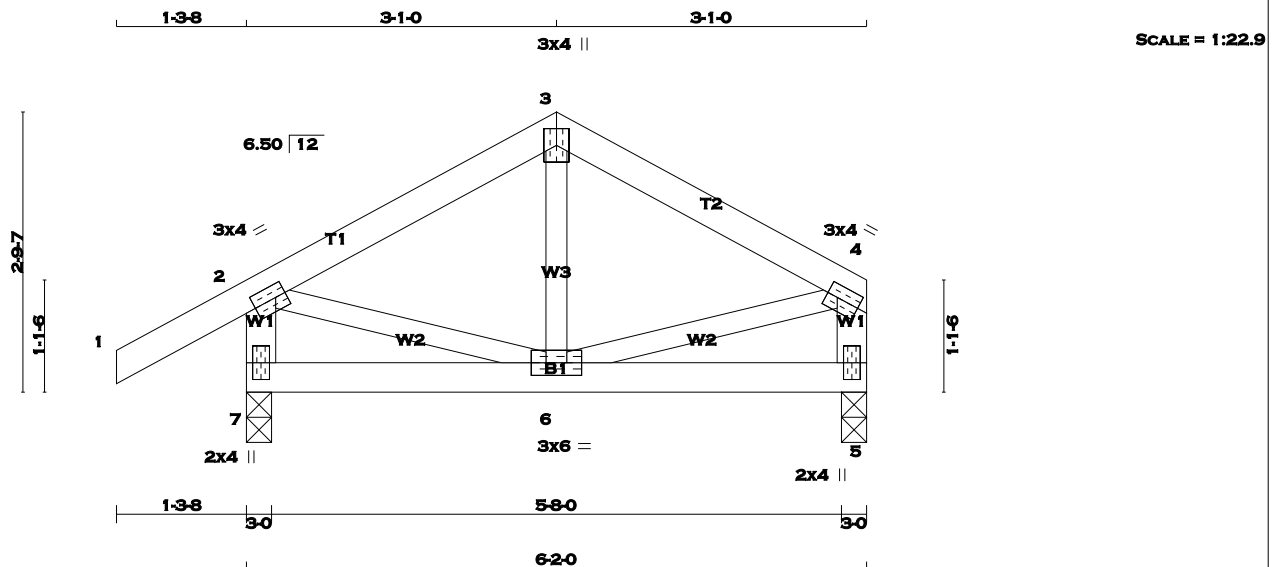
JSI GRIP= 0.48 (2) (INPUT = 0.90)
JSI METAL= 0.12 (2) (INPUT = 1.00)

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TOTAL WEIGHT = 2 X 25 = 50 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					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		GROSS REACTION		GROSS REACTION		BRG		BRG	
7	VERT	398	0	398	0	0	0	3-0	3-0
5	HORZ	292	0	292	0	0	0	3-0	3-0

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
7	277	207 / 0	0 / 0	0 / 0	0 / 0	70 / 0	0 / 0		
5	205	144 / 0	0 / 0	0 / 0	0 / 0	62 / 0	0 / 0		

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 7, 5

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 25	-77.3 -77.3	0.10 (1)	10.00	6-3	-34 / 42	0.01 (4)
2-3	-214 / 0	-77.3 -77.3	0.09 (1)	6.25	2-6	0 / 195	0.04 (1)
3-4	-214 / 0	-77.3 -77.3	0.09 (1)	6.25	6-4	0 / 195	0.04 (1)
7-2	-376 / 0	0.0 0.0	0.04 (1)	7.81			
5-4	-270 / 0	0.0 0.0	0.03 (1)	7.81			
7-6	0 / 0	-17.5 -17.5	0.04 (4)	10.00			
6-5	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

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=0.04 (5-6:4) , 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 MIN
MT20	618 354	1667 822	2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

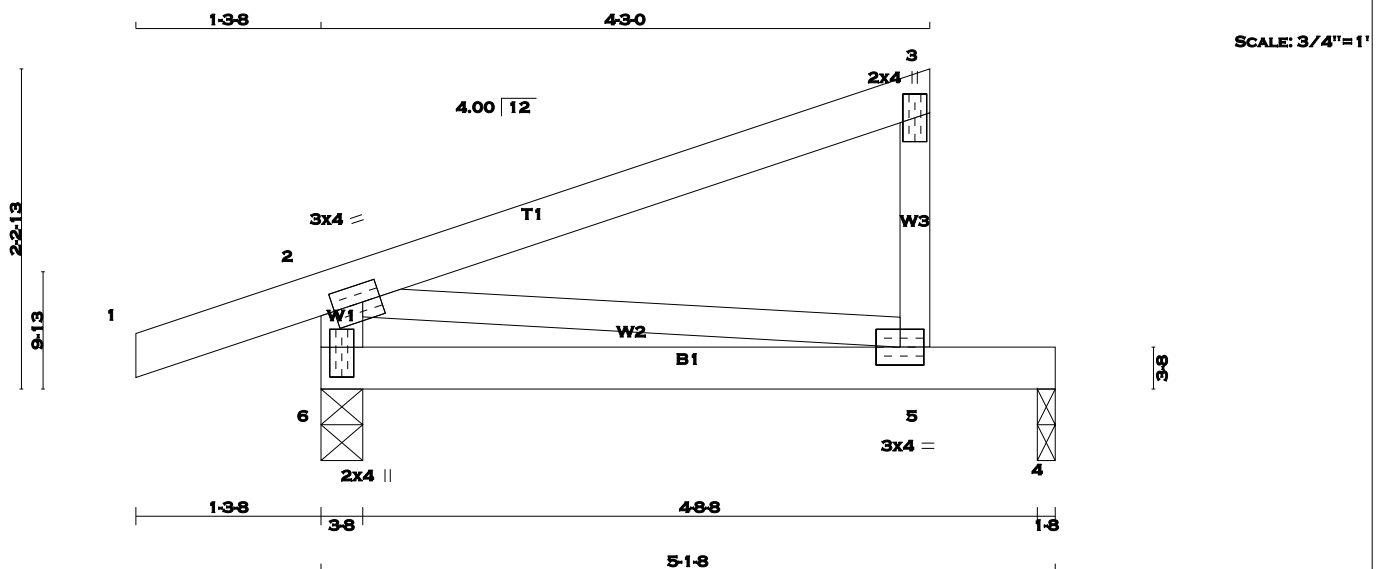
JSI GRIP= 0.48 (2) (INPUT = 0.90)
JSI METAL= 0.12 (4) (INPUT = 1.00)

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TOTAL WEIGHT = 6 X 17 = 104 lb [M]

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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	4.0	1.50	1.50
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		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	GROSS REACTION	DOWN	HORZ	DOWN	HORZ	UPLIFT	IN-SX	BRG	IN-SX
6	341	0	0	341	0	0	3-8	3-8	
4	181	0	0	181	0	0	1-8	1-8	

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX/MIN.	COMPONENT	REACTIONS			
6	237	178 / 0	LIVE	PERM.LIVE	WIND	DEAD	SOIL
4	129	82 / 0	0 / 0	0 / 0	0 / 0	59 / 0	0 / 0

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

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

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

LOADING							
TOTAL LOAD CASES: (4)							
CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 16	-77.3 -77.3	0.10 (1)	2-5	0 / 0	0.00 (1)	
2-3	0 / 0	-77.3 -77.3	0.24 (1)				
5-3	-164 / 0	0.0 0.0	0.03 (1)				
6-2	-268 / 0	0.0 0.0	0.03 (1)				
6-5	0 / 0	-17.5 -17.5	0.21 (1)				
5-4	0 / 0	-17.5 -17.5	0.21 (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

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/ 801 (0.08")

CSI: TC=0.24 (2-3:1) , BC=0.21 (5-6:1) , WB=0.00 (2-5:1) , SSI=0.14 (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.

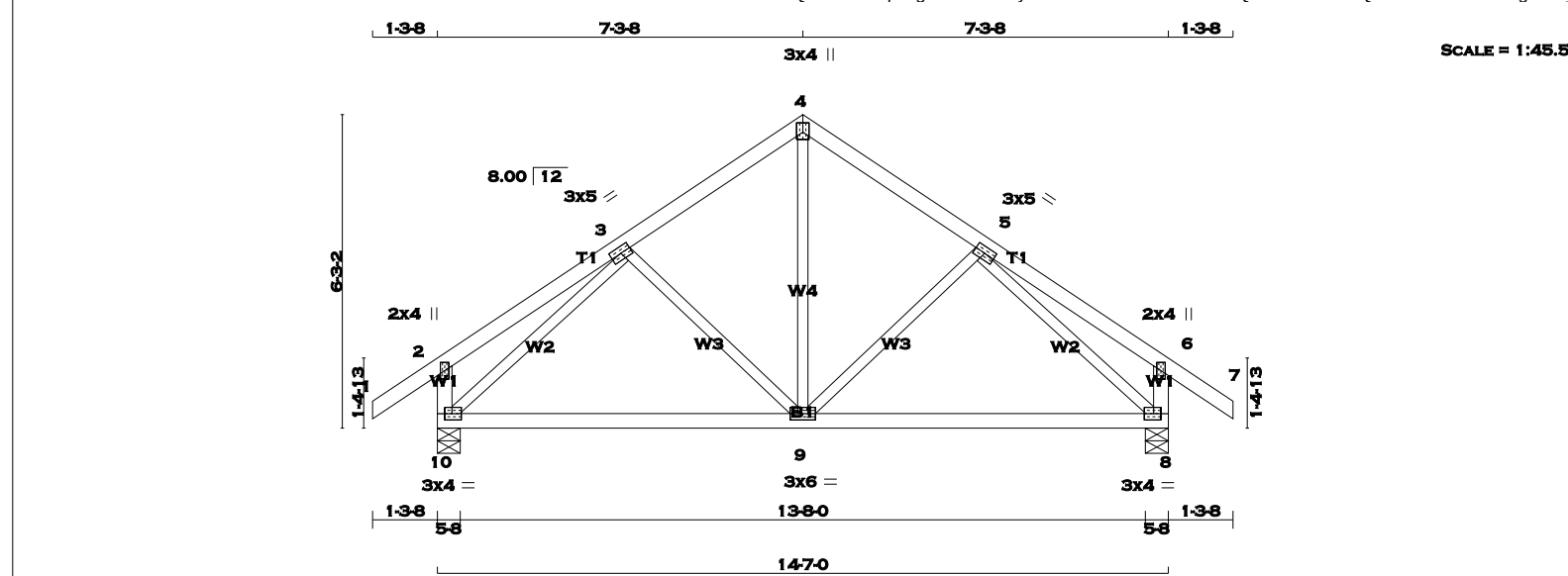
JSI GRIP= 0.24 (2) (INPUT = 0.90)
JSI METAL= 0.05 (6) (INPUT = 1.00)

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.



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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				SPECIFIED LOADS:			
CHORDS	SIZE	LUMBER	DESCR.	FACTORED				TOP CH.			
1 - 4	2x4	DRY	No.2	GROSS REACTION				LL = 23.3 PSF			
4 - 7	2x4	DRY	No.2	DOWN				DL = 3.0 PSF			
10 - 2	2x4	DRY	No.2	UP				LL = 0.0 PSF			
8 - 6	2x4	DRY	No.2	DOWN				DL = 7.0 PSF			
10 - 8	2x4	DRY	No.2	UP				TOTAL LOAD = 33.3 PSF			
ALL WEBS				UNFACTORED REACTIONS				SPACING = 24.0 IN./C			
EXCEPT				1ST LCASE				THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010			
DRY: SEASONED LUMBER.				MAX./MIN. COMPONENT REACTIONS				THIS DESIGN COMPLIES WITH:			
				COMBINED				- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014			
				SNOW				- CSA 086-09			
				LIVE				- TPIC 2011			
				PERM.LIVE				(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			
				WIND				ALLOWABLE DEFL.(LL)= L/360 (0.49")			
				DEAD				CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")			
				SOIL				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 (8-9:4) , WB=0.31 (3-10:1) , 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 PLACEMENT TOL. = 5.0 Deg.			
								JSI GRIP= 0.85 (8) (INPUT = 0.90)			
								JSI METAL= 0.22 (5) (INPUT = 1.00)			

PLATES (table is in inches)				BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 10, 8			
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	BMWW-t	MT20	3.0	6.0			
10	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.							

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)	
FR-TO		FROM TO	CSI (LC)	FR-TO		CSI (LC)	
1-2	0 / 29	-77.3 -77.3	0.10 (1)	10-9	0 / 554	-17.5 -17.5	0.30 (4)
2-3	0 / 18	-77.3 -77.3	0.16 (1)	9-8	0 / 554	-17.5 -17.5	0.30 (4)
3-4	-550 / 0	-77.3 -77.3	0.13 (1)				
4-5	-550 / 0	-77.3 -77.3	0.13 (1)				
5-6	0 / 18	-77.3 -77.3	0.16 (1)				
6-7	0 / 29	-77.3 -77.3	0.10 (1)				
10-2	-215 / 0	0.0 0.0	0.02 (1)				
8-6	-215 / 0	0.0 0.0	0.02 (1)				

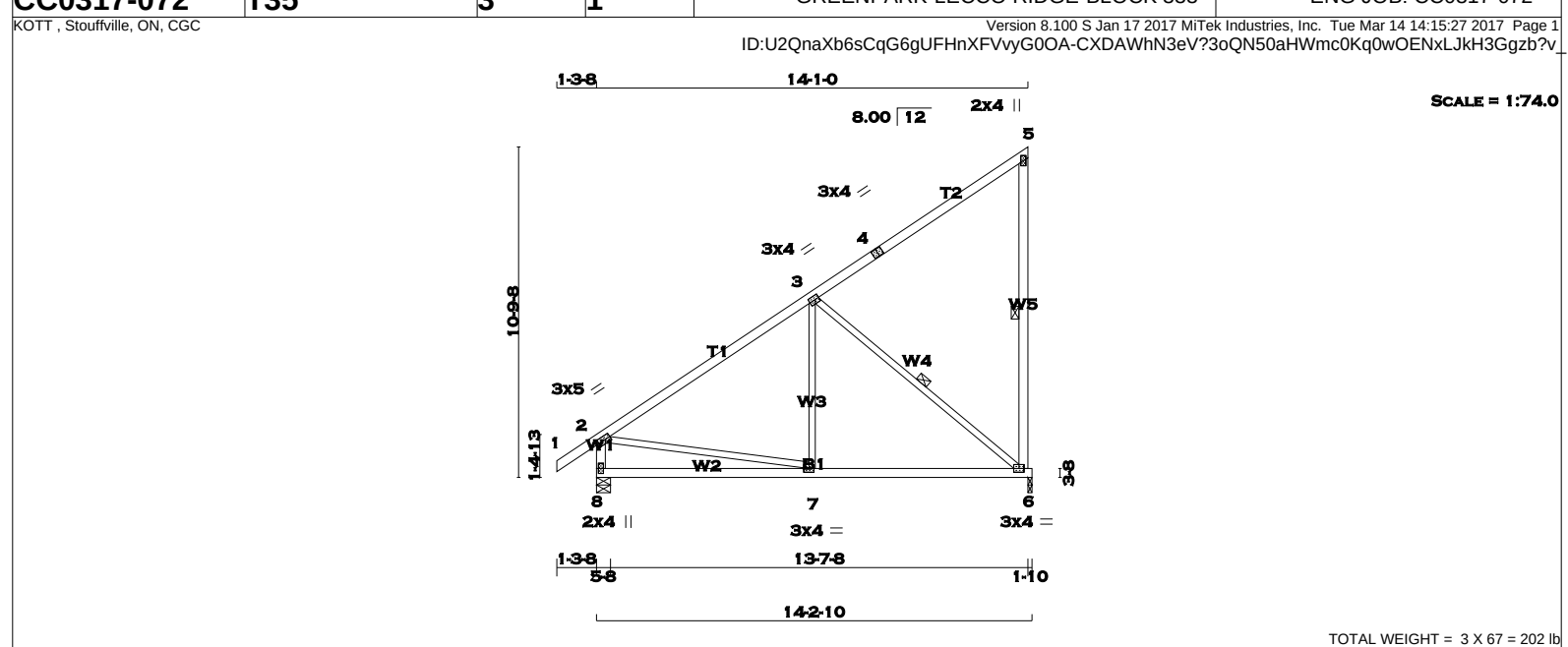
READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

LICENSED PROFESSIONAL ENGINEER
C.G. CARSON
100076892
PROVINCE OF ONTARIO

14 MAR 2017

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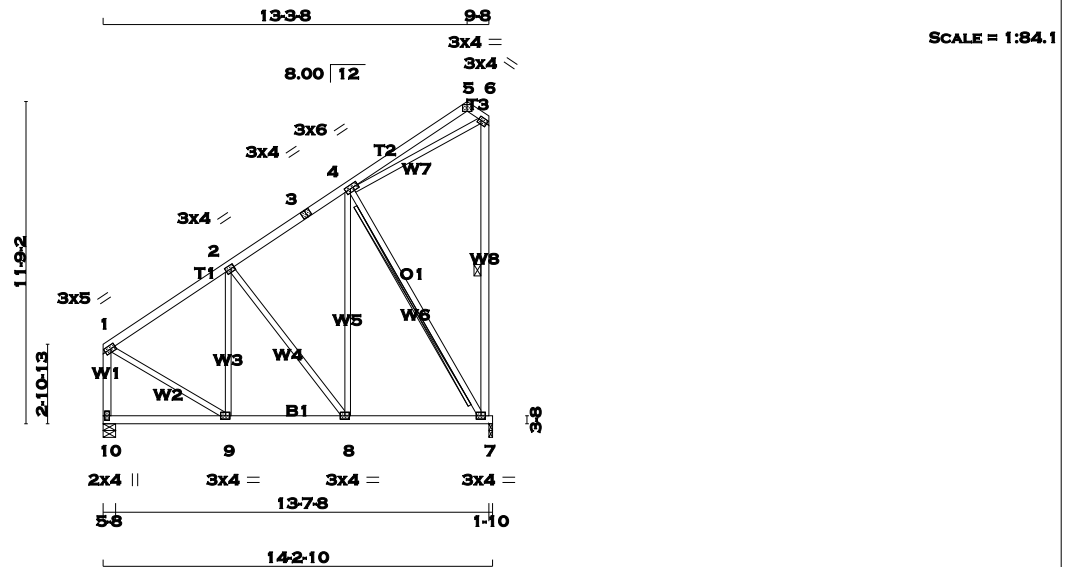


LUMBER					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER					TOTAL WEIGHT = 3 X 67 = 202 lb				
N. L. G. A. RULES					BEARINGS					[M][F]				
CHORDS	SIZE	LUMBER	DESCR.											
1 - 4	2x4	DRY	No.2	SPF										
4 - 5	2x4	DRY	No.2	SPF										
6 - 5	2x4	DRY	No.2	SPF										
8 - 2	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)							BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6, 8	THIS DESIGN COMPLIES WITH:
JT	TYPE	PLATES	W	LEN	Y	X	BRACING	- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
2	TMVW-t	MT20	3.0	5.0	1.50	2.00	TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.	- CSA 086-09
3	TMVW-t	MT20	3.0	4.0	1.50	1.50	MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.	- TPIC 2011
4	TS-t	MT20	3.0	4.0				
5	TMV+p	MT20	2.0	4.0				
6	BMVW1-t	MT20	3.0	4.0			ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.	(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD
7	BMVW-t	MT20	3.0	4.0				
8	BMV1+p	MT20	2.0	4.0			1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 5-6, 3-6. DBS = 20-0-0 . CBF = 82 LBS.	ALLOWABLE DEFL.(LL)= L/360 (0.47")
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.							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,	CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
								ALLOWABLE DEFL.(TL)= L/360 (0.47")
								CALCULATED VERT. DEFL.(TL) = L/ 999 (0.06")

2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.										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)									
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW										DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10									
LOADING										COMPANION LIVE LOAD FACTOR = 0.50									
TOTAL LOAD CASES: (4)																			
C H O R D S										W E B S									
MAX. FACTORED					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 / 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														

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



TOTAL WEIGHT = 84 lb

LUMBER					N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.		CHORDS	SIZE	LUMBER	DESCR.	
1 - 3	2x4	DRY	No.2	SPF	1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF	3 - 5	2x4	DRY	No.2	SPF
5 - 6	2x4	DRY	No.2	SPF	5 - 6	2x4	DRY	No.2	SPF
10 - 1	2x4	DRY	No.2	SPF	10 - 1	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF	7 - 6	2x4	DRY	No.2	SPF
10 - 7	2x4	DRY	No.2	SPF	10 - 7	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF	ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT					EXCEPT				
DRY: SEASONED LUMBER.					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	TS-t	MT20	3.0	4.0					
4	TMVW-t	MT20	3.0	6.0					
5	TT-p	MT20	3.0	4.0	Edge	2.00			
6	TMVW-t	MT20	3.0	4.0	1.50	1.00			
7	BMVW1-t	MT20	3.0	4.0					
8	BMVW-t	MT20	3.0	4.0					
9	BMVW-t	MT20	3.0	4.0					
10	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	UPLIFT	IN-SX	IN-SX	
10		668	0	668	0	0	5-8	5-8	
7		668	0	668	0	0	1-10	1-10	
UNFACTORED REACTIONS									
		1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
10		469	328 / 0	0 / 0	0 / 0	0 / 0	141 / 0	0 / 0	
7		469	328 / 0	0 / 0	0 / 0	0 / 0	141 / 0	0 / 0	
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 10, 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.									
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 6-7. DBS = 20-0-0 . CBF = 21 LBS.									
2x4 SPF No.2 T-BRACE AT 4-7									
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.									
FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.									
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW									
LOADING									
TOTAL LOAD CASES: (4)									
		CHORDS				WEBS			
		MAX. FACTORED	FACTORED	VERT. LOAD	LC1 MAX	MAX. FACTORED	FACTORED	VERT. LOAD	LC1 MAX
		MEMB. FORCE (LBS)	(PLF)	CS1 (LC)	UNBRAC	MEMB. FORCE (LBS)	(PLF)	CS1 (LC)	UNBRAC
FR-TO				FROM TO				FR-TO	
1-2	-461 / 0	-77.3	-77.3	0.18 (1)	6.25	9-2	-142 / 27	0.08 (1)	
2-3	-334 / 0	-77.3	-77.3	0.16 (1)	6.25	2-8	-198 / 0	0.19 (1)	
3-4	-334 / 0	-77.3	-77.3	0.16 (1)	6.25	8-4	0 / 249	0.06 (1)	
4-5	-169 / 0	-77.3	-77.3	0.16 (1)	6.25	1-9	0 / 458	0.10 (1)	
5-6	-150 / 0	-77.3	-77.3	0.01 (1)	6.25	4-7	-536 / 0	0.43 (1)	
10-1	-634 / 0	0.0	0.0	0.10 (1)	7.81	4-6	0 / 138	0.03 (1)	
7-6	-172 / 0	0.0	0.0	0.12 (1)	6.25				
10-9	0 / 0	-17.5	-17.5	0.07 (4)	10.00				
9-8	0 / 399	-17.5	-17.5	0.13 (4)	10.00				
8-7	0 / 278	-17.5	-17.5	0.12 (4)	10.00				

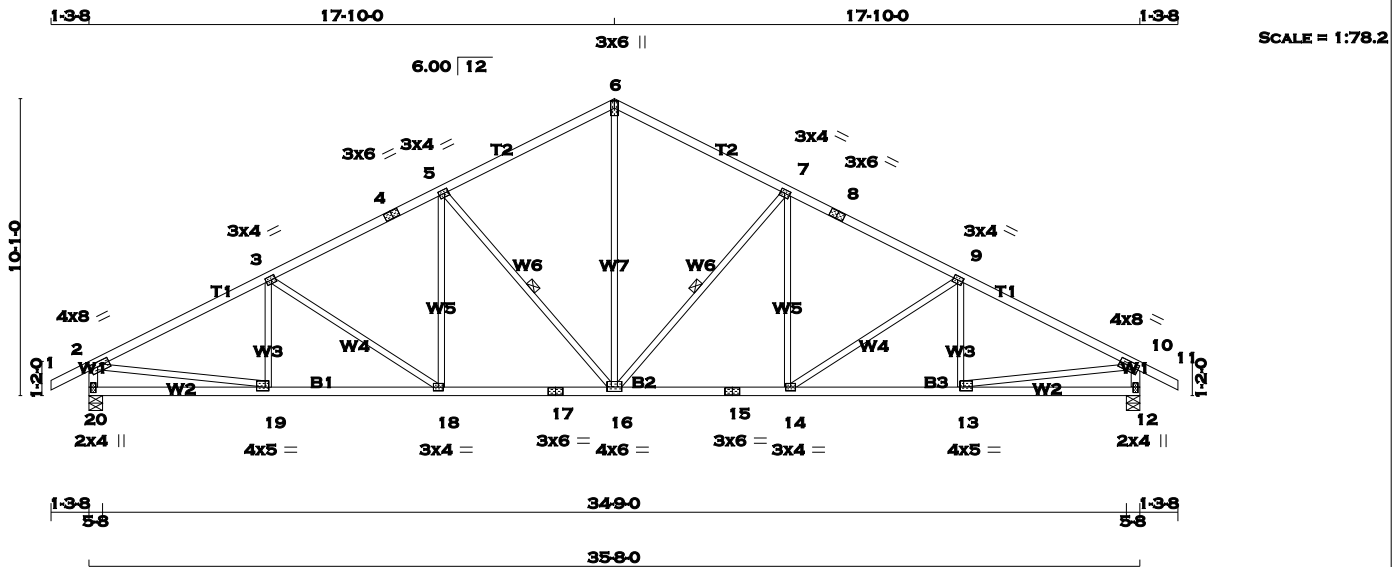
DESIGN CRITERIA									
SPECIFIED LOADS:									
TOP CH.	LL	=	23.3	PSF					
	DL	=	3.0	PSF					
BOT CH.	LL	=	0.0	PSF					
	DL	=	7.0	PSF					
TOTAL LOAD	=	33.3	PSF						
SPACING = 24.0 IN./C									
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010									
THIS 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 (0.03")									
CSI: TC=0.18 (1-2:1) , BC=0.13 (8-9:4) , WB=0.43 (4-7:1) , SSI=0.14 (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									
AUTOSOLVE LEFT 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= 0.76 (1) (INPUT = 0.90) JSI METAL= 0.17 (1) (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.



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BUILDING DIVISION





TOTAL WEIGHT = 5 X 150 = 751 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			
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			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, 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	2.25 1.00
13	BMVW-t	MT20	4.0	5.0	1.50 1.50
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 1.50
20	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.

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	UPLIFT	IN-SX	BRG	IN-SX
20	1796	0	1796	0	0	5-8	5-8	5-8	5-8
12	1796	0	1796	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
20	1258	894 / 0	0 / 0	0 / 0	365 / 0
12	1258	894 / 0	0 / 0	0 / 0	365 / 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 = 3.95 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 = 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)	
CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)
FR-TO		FROM TO	FR-TO
1-2	0 / 23	-77.3 -77.3	10.00 16-6
2-3	-2515 / 0	-77.3 -77.3	3.95 16-7
3-4	-2247 / 0	-77.3 -77.3	4.24 14-7
4-5	-2247 / 0	-77.3 -77.3	4.24 14-9
5-6	-1751 / 0	-77.3 -77.3	4.68 13-9
6-7	-1751 / 0	-77.3 -77.3	4.68 5-16
7-8	-2247 / 0	-77.3 -77.3	4.24 18-5
8-9	-2247 / 0	-77.3 -77.3	4.24 3-18
9-10	-2515 / 0	-77.3 -77.3	3.95 19-3
10-11	0 / 23	-77.3 -77.3	10.00 2-19
20-2	-1750 / 0	0.0 0.0	6.30 13-10
12-10	-1750 / 0	0.0 0.0	6.30
20-19	0 / 0	-17.5 -17.5	10.00
19-18	0 / 2266	-17.5 -17.5	10.00
18-17	0 / 2010	-17.5 -17.5	10.00
17-16	0 / 2010	-17.5 -17.5	10.00
16-15	0 / 2010	-17.5 -17.5	10.00
15-14	0 / 2010	-17.5 -17.5	10.00
14-13	0 / 2266	-17.5 -17.5	10.00
13-12	0 / 0	-17.5 -17.5	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
- 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 (1.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.14")
ALLOWABLE DEFL.(TL)= L/360 (1.19")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.25")

CSI: TC=0.47 (2-3:1), BC=0.42 (18-19:1), WB=0.52 (2-19:1), 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.

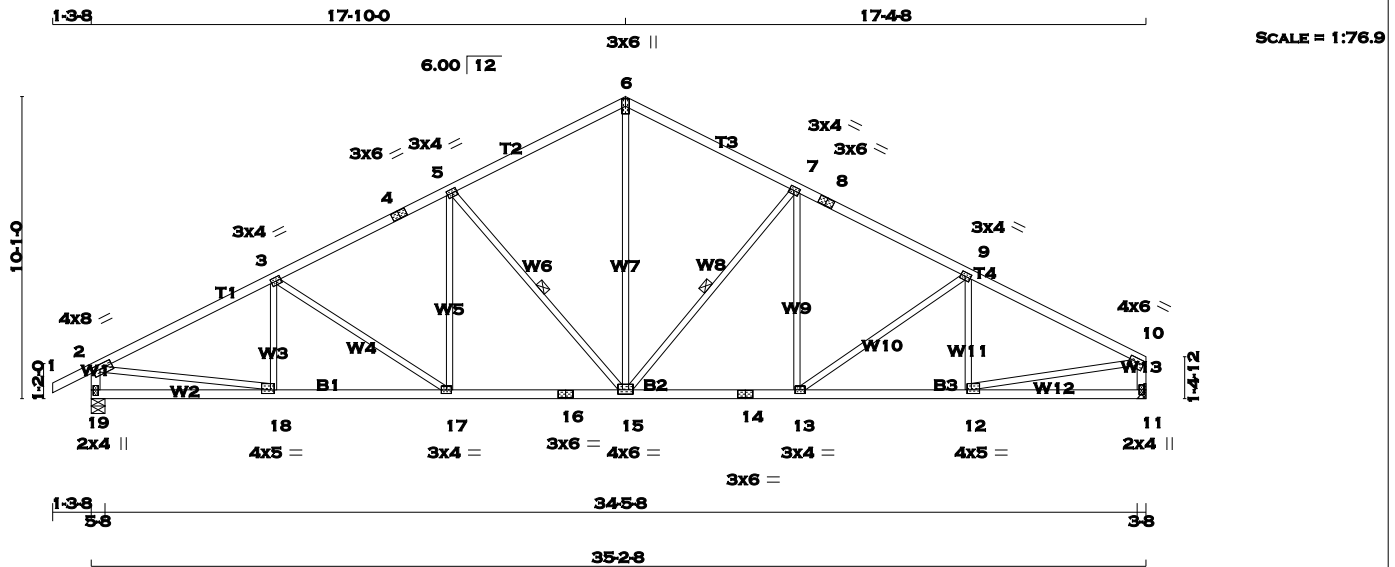
JSI GRIP= 0.88 (16) (INPUT = 0.90)
JSI METAL= 0.68 (13) (INPUT = 1.00)

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.



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TOTAL WEIGHT = 6 X 148 = 886 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
19- 2	2x4	DRY	No.2	SPF	SPF
11- 10	2x4	DRY	No.2	SPF	SPF
19- 16	2x4	DRY	No.2	SPF	SPF
16- 14	2x4	DRY	No.2	SPF	SPF
14- 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	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	6.0	1.50	2.75
11	BMV1+p	MT20	2.0	4.0		
12	BMVW-t	MT20	4.0	5.0	1.50	1.75
13	BMVW-t	MT20	3.0	4.0		
14	BS-t	MT20	3.0	6.0		
15	BMVWV-t	MT20	4.0	6.0	1.75	3.00
16	BS-t	MT20	3.0	6.0		
17	BMVW-t	MT20	3.0	4.0		
18	BMVW-t	MT20	4.0	5.0	1.50	1.50
19	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.

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
19	1775	0	1775	0	0	5-8	5-8
11	1670	0	1670	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
19	1243	883 / 0	0 / 0	0 / 0	0 / 0	360 / 0	0 / 0
11	1172	820 / 0	0 / 0	0 / 0	0 / 0	352 / 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 = 3.98 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, 7-15. DBS = 20-0-0 . 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

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	18-3	-202 / 38	0.05 (1)
2-3	-2477 / 0	-77.3 -77.3	0.47 (1)	3.98	3-17	-313 / 0	0.30 (1)
3-4	-2205 / 0	-77.3 -77.3	0.38 (1)	4.28	17-5	0 / 273	0.06 (1)
4-5	-2205 / 0	-77.3 -77.3	0.38 (1)	4.28	5-15	-710 / 0	0.40 (1)
5-6	-1706 / 0	-77.3 -77.3	0.37 (1)	4.74	15-6	0 / 1146	0.26 (1)
6-7	-1706 / 0	-77.3 -77.3	0.35 (1)	4.76	15-7	-650 / 0	0.36 (1)
7-8	-2151 / 0	-77.3 -77.3	0.35 (1)	4.34	13-7	0 / 224	0.05 (4)
8-9	-2151 / 0	-77.3 -77.3	0.35 (1)	4.34	13-9	-222 / 0	0.21 (1)
9-10	-2334 / 0	-77.3 -77.3	0.43 (1)	4.12	12-9	-275 / 15	0.08 (1)
19-2	-1729 / 0	0.0	0.0	6.33	2-18	0 / 2255	0.51 (1)
11-10	-1625 / 0	0.0	0.0	6.49	12-10	0 / 2139	0.48 (1)
19-18	0 / 0	-17.5	-17.5	0.14 (4)	10.00		
18-17	0 / 2233	-17.5	-17.5	0.42 (1)	10.00		
17-16	0 / 1972	-17.5	-17.5	0.39 (1)	10.00		
16-15	0 / 1972	-17.5	-17.5	0.39 (1)	10.00		
15-14	0 / 1923	-17.5	-17.5	0.38 (1)	10.00		
14-13	0 / 1923	-17.5	-17.5	0.38 (1)	10.00		
13-12	0 / 2104	-17.5	-17.5	0.40 (1)	10.00		
12-11	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 (1.17")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.13")
ALLOWABLE DEFL.(TL)= L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.24")

CSI: TC=0.47 (2-3:1) , BC=0.42 (17-18:1) ,
WB=0.51 (2-18:1) , 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

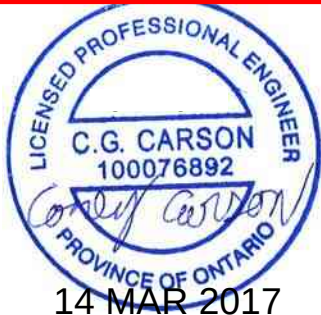
PLATE	GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (12) (INPUT = 0.90)
JSI METAL= 0.67 (18) (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.



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DRY: SEASONED LUMBER.

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) 16

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

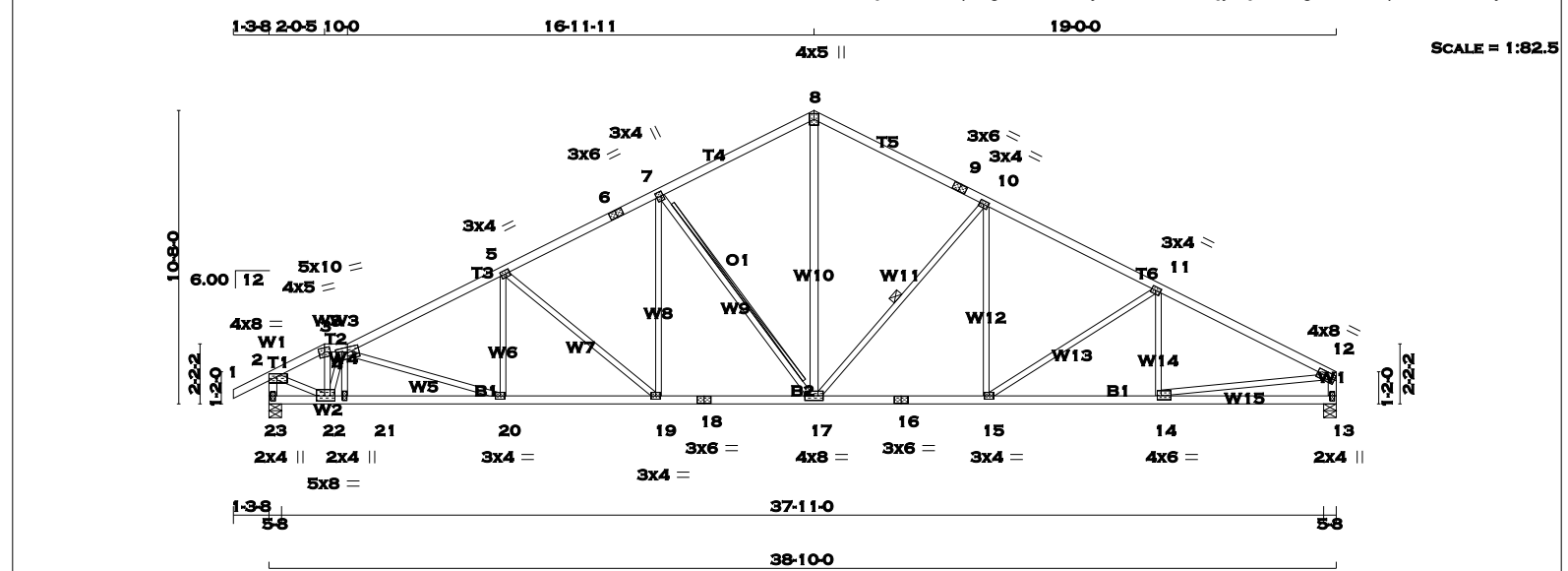
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

TOTAL LOAD CASES: (4)

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JSI GRIP= 0.89 (15) (INPUT = 0.90)
JSI METAL= 0.67 (15) (INPUT = 1.00)





LUMBER N. L. G. A. RULES CHORDS SIZE 1 - 3 2x4 DRY No.2 3 - 4 2x4 DRY No.2 4 - 6 2x4 DRY No.2 6 - 8 2x4 DRY No.2 8 - 9 2x4 DRY No.2 9 - 12 2x4 DRY No.2 23 - 2 2x4 DRY No.2 13 - 12 2x4 DRY No.2 23 - 18 2x4 DRY No.2 18 - 16 2x4 DRY No.2 16 - 13 2x4 DRY No.2 ALL WEBS 2x3 DRY No.2 EXCEPT 17 - 8 2x4 DRY No.2 DRY: SEASONED LUMBER.				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED GROSS REACTION JT VERT HORZ 23 1947 0 13 1842 0 MAXIMUM FACTORED GROSS REACTION DOWN HORZ UPLIFT 23 1947 0 0 13 1842 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 23 1364 967 / 0 0 / 0 0 / 0 396 / 0 0 / 0 13 1292 904 / 0 0 / 0 0 / 0 388 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 23, 13 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.69 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 10-17. DBS = 18-0-0 . CBF = 85 LBS. 2x4 SPF No.2 T-BRACE AT 7-17 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. FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH. END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW LOADING TOTAL LOAD CASES: (4) CHORDS MEMB. MAX. FACTORED FORCE (LBS) FR-TO 1-2 0 / 23 2-3 -2157 / 0 3-4 -1974 / 0 4-5 -2960 / 0 5-6 -2501 / 0 6-7 -2501 / 0 7-8 -1954 / 0 8-9 -1956 / 0 9-10 -1956 / 0 10-11 -2492 / 0 11-12 -2787 / 0 23-2 -1931 / 0 13-12 -1793 / 0 FACTORED VERT. LOAD LC1 MAX (PLF) CSI (LC) FROM TO -77.3 -77.3 0.10 (1) -77.3 -77.3 0.09 (1) -77.3 -77.3 0.05 (1) -77.3 -77.3 0.45 (1) -77.3 -77.3 0.38 (1) -77.3 -77.3 0.38 (1) -77.3 -77.3 0.36 (1) -77.3 -77.3 0.44 (1) -77.3 -77.3 0.44 (1) -77.3 -77.3 0.46 (1) -77.3 -77.3 0.58 (1) 0.0 0.0 0.20 (1) 0.0 0.0 0.18 (1) WEBS MEMB. MAX. FACTORED FORCE (LBS) FR-TO 22-23 0 / 2587 21-20 0 / 2587 20-19 0 / 2666 19-18 0 / 2238 18-17 0 / 2238 17-16 0 / 2228 16-15 0 / 2228 15-14 0 / 2511 14-13 0 / 2511 MAX. FACTORED UNBRACED LENGTH 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 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 (22) (INPUT = 0.90) JSI METAL= 0.73 (4) (INPUT = 1.00)				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 (1.29") CALCULATED VERT. DEFL.(LL) = L/999 (0.17") ALLOWABLE DEFL.(TL)= L/360 (1.29") CALCULATED VERT. DEFL.(TL) = L/999 (0.31") CSI: TC=0.58 (11-12:1) , BC=0.49 (19-20:1) , WB=0.60 (7-17:1) , SSI=0.21 (11-12:1) 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 (22) (INPUT = 0.90) JSI METAL= 0.73 (4) (INPUT = 1.00)
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JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
CC0317-072	T41	1	1	TRUSS DESC. GREENPARK-LECCO RIDGE-BLOCK 333	Page 73 of 89 ENG JOB: CC0317-072

KOTT , Stouffville, ON, CGC

Version 8.100 S Jan 17 2017 MiTek Industries, Inc. Tue Mar 14 14:15:30 2017 Page 2

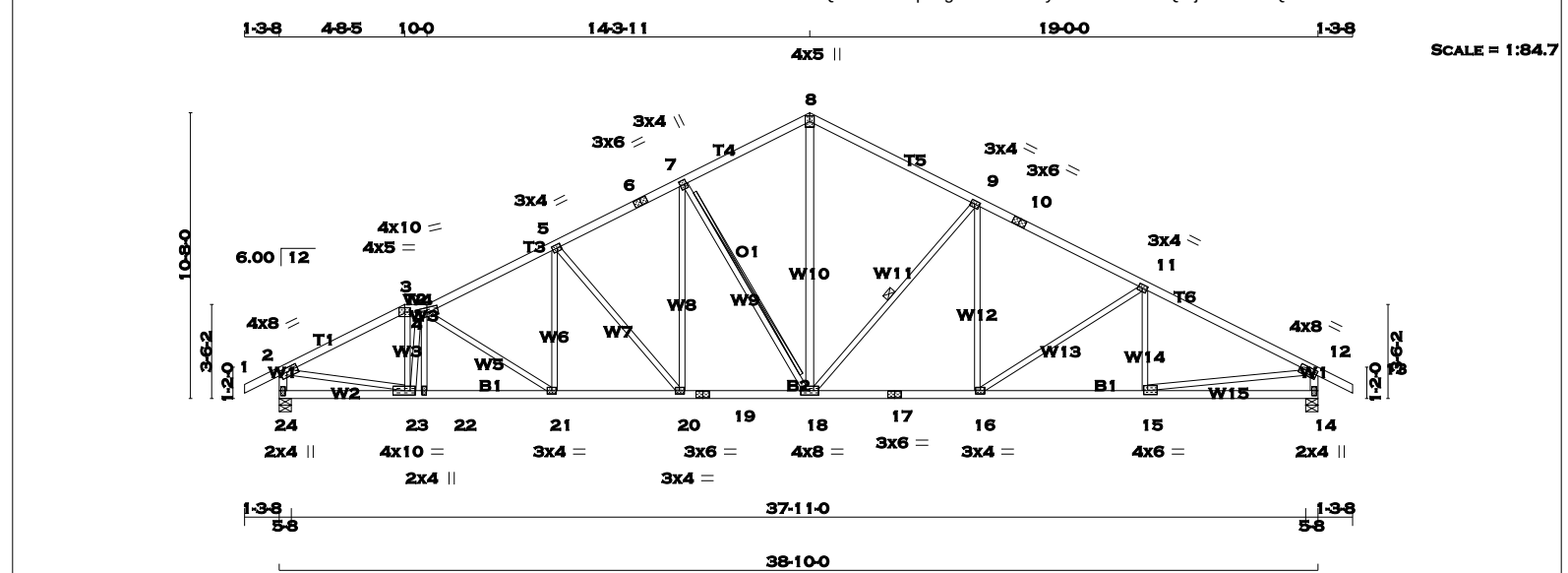
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READ ALL NOTES ON THIS PAGE AND ON THE
ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE
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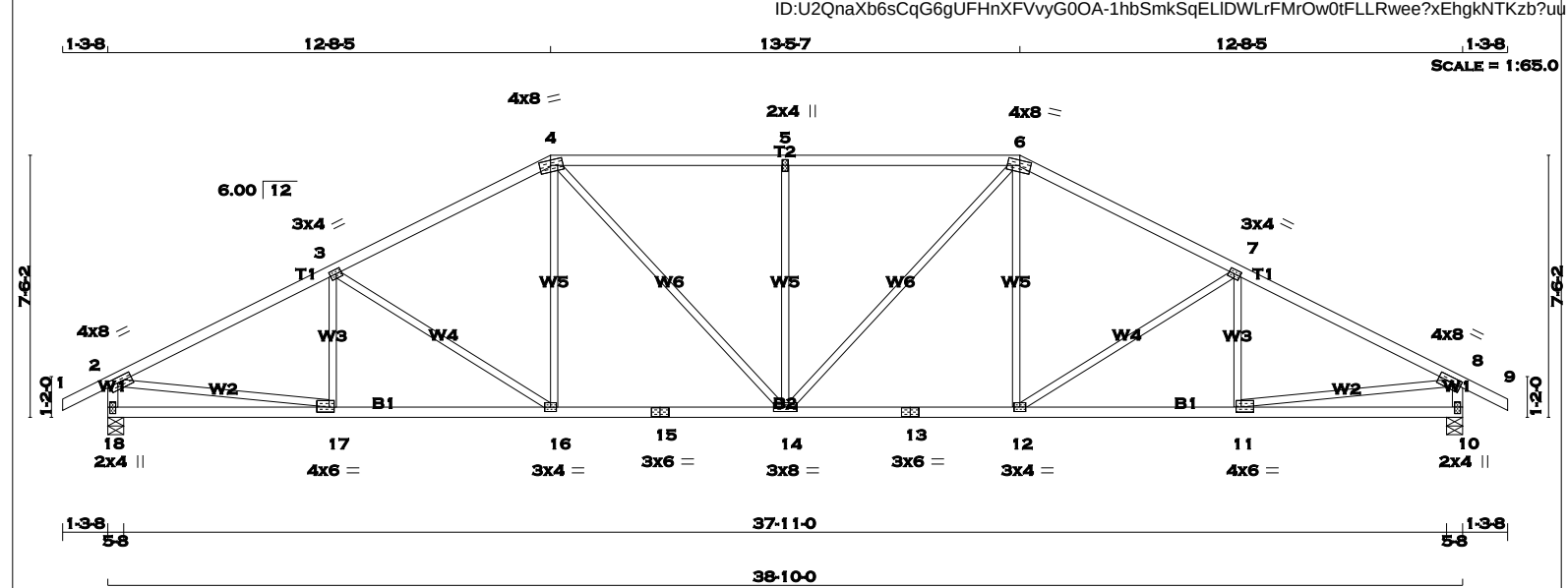
DRY: SEASONED LUMBER.

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

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JSI GRIP= 0.87 (22) (INPUT = 0.90)
JSI METAL= 0.82 (5) (INPUT = 1.00)





TOTAL WEIGHT = 157 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 - 9	2x4	DRY	No.2
18 - 2	2x4	DRY	No.2
10 - 8	2x4	DRY	No.2
18 - 15	2x4	DRY	No.2
15 - 13	2x4	DRY	No.2
13 - 10	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	TMVW-t	MT20	3.0	4.0	1.50	1.75
4	TTWW-m	MT20	4.0	8.0	1.75	3.75
5	TMVW-w	MT20	2.0	4.0		
6	TTWW-m	MT20	4.0	8.0	1.75	3.75
7	TMVW-t	MT20	3.0	4.0	1.50	1.75
8	TMVW-t	MT20	4.0	8.0	1.75	3.00
10	BMV1+p	MT20	2.0	4.0	2.25	1.00
11	BMVW-t	MT20	4.0	6.0	1.75	1.75
12	BMVW-t	MT20	3.0	4.0		
13	BS-t	MT20	3.0	6.0		
14	BMVW-t	MT20	3.0	8.0		
15	BS-t	MT20	3.0	6.0		
16	BMVW-t	MT20	3.0	4.0		
17	BMVW-t	MT20	4.0	6.0	1.75	1.75
18	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.

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.



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
18	1947	0	1947	0
10	1947	0	1947	0

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX/MIN. SNOW	COMPONENT LIVE	PERM. LIVE	WIND	DEAD	SOIL
18	1364	967 / 0	0 / 0	0 / 0	0 / 0	396 / 0	0 / 0
10	1364	967 / 0	0 / 0	0 / 0	0 / 0	396 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 18, 10

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.65 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 23	-77.3 -77.3	0.10 (1)	10.00	17-3	-219 / 40	0.06 (1)
2-3	-2800 / 0	-77.3 -77.3	0.58 (1)	3.65	3-16	-405 / 0	0.46 (1)
3-4	-2472 / 0	-77.3 -77.3	0.52 (1)	3.91	16-4	0 / 336	0.08 (1)
4-5	-2542 / 0	-77.3 -77.3	0.58 (1)	3.76	4-14	0 / 515	0.12 (1)
5-6	-2542 / 0	-77.3 -77.3	0.58 (1)	3.76	14-5	-639 / 0	0.65 (1)
6-7	-2472 / 0	-77.3 -77.3	0.52 (1)	3.91	14-6	0 / 515	0.12 (1)
7-8	-2800 / 0	-77.3 -77.3	0.58 (1)	3.65	12-6	0 / 336	0.08 (1)
8-9	0 / 23	-77.3 -77.3	0.10 (1)	10.00	12-7	-405 / 0	0.46 (1)
18-2	-1897 / 0	0.0 0.0	0.19 (1)	6.10	11-7	-219 / 40	0.06 (1)
10-8	-1897 / 0	0.0 0.0	0.19 (1)	6.10	2-17	0 / 2549	0.57 (1)
					11-8	0 / 2549	0.57 (1)
18-17	0 / 0	-17.5 -17.5	0.16 (4)	10.00			
17-16	0 / 2527	-17.5 -17.5	0.49 (1)	10.00			
16-15	0 / 2191	-17.5 -17.5	0.43 (1)	10.00			
15-14	0 / 2191	-17.5 -17.5	0.43 (1)	10.00			
14-13	0 / 2191	-17.5 -17.5	0.43 (1)	10.00			
13-12	0 / 2191	-17.5 -17.5	0.43 (1)	10.00			
12-11	0 / 2527	-17.5 -17.5	0.49 (1)	10.00			
11-10	0 / 0	-17.5 -17.5	0.16 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 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 (1.29")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.17")
ALLOWABLE DEFL.(TL)= L/360 (1.29")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.32")

CSI: TC=0.58 (7-8:1), BC=0.49 (11-12:1), WB=0.65 (5-14:1), 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 MAX MIN
MT20 618 354 1667 822 2284 1656

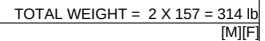
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (6) (INPUT = 0.90)
JSI METAL= 0.63 (17) (INPUT = 1.00)

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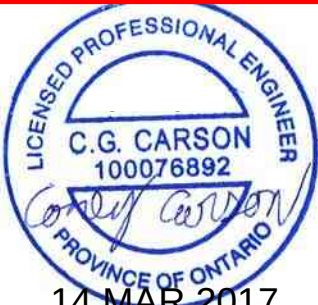
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
CC0317-072	T47	1	1	TRUSS DESC. GREENPARK-LECCO RIDGE-BLOCK 333	Page 80 of 89 ENG JOB: CC0317-072

KOTT , Stouffville, ON, CGC

Version 8.100 S Jan 17 2017 MiTek Industries, Inc. Tue Mar 14 14:15:35 2017 Page 2

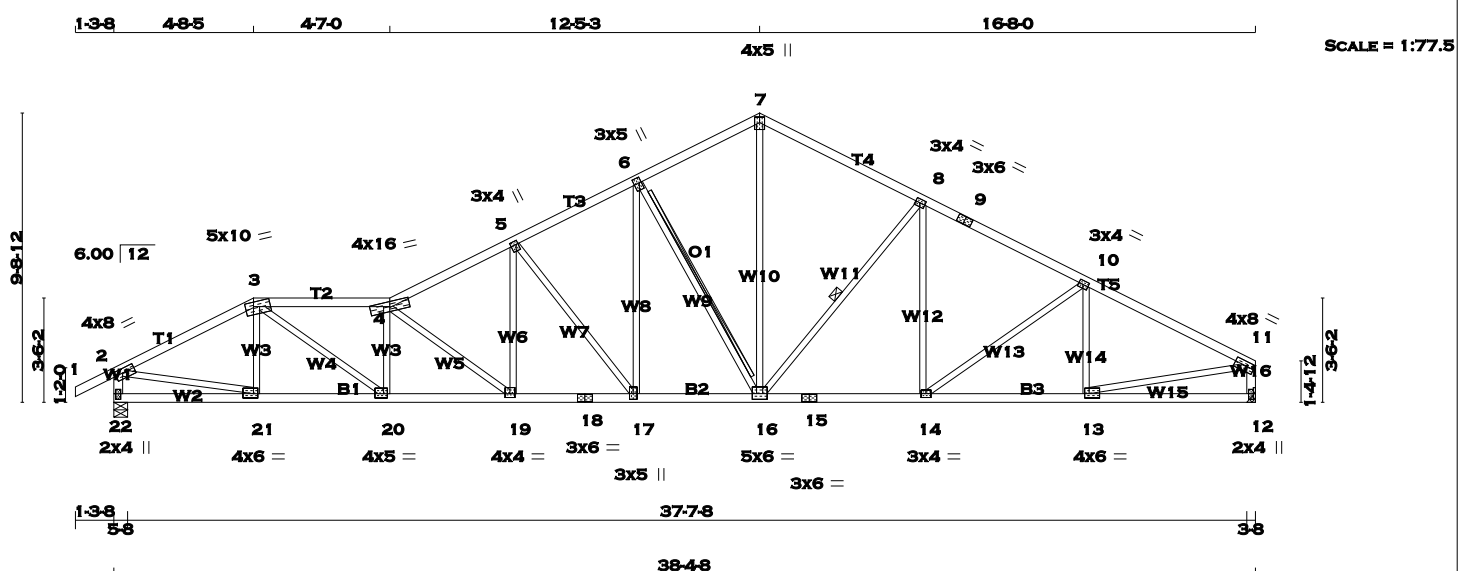
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TOTAL WEIGHT = 166 lb
[M][F]

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 - 7	2x4	DRY	No.2	SPF
7 - 9	2x4	DRY	No.2	SPF
9 - 11	2x4	DRY	No.2	SPF
22 - 2	2x4	DRY	No.2	SPF
12 - 11	2x4	DRY	No.2	SPF
22 - 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	10.0	1.75 3.25
4	TTWW-m	MT20	4.0	16.0	
5	TMWW+t	MT20	3.0	4.0	1.50 0.75
6	TMWW+t	MT20	3.0	5.0	2.25 0.75
7	TTW+p	MT20	4.0	5.0	2.25 2.00
8	TMWW-t	MT20	3.0	4.0	1.50 1.75
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	2.25 1.00
13	BMWW-t	MT20	4.0	6.0	1.75 1.75
14	BMWW-t	MT20	3.0	4.0	
15	BS-t	MT20	3.0	6.0	
16	BMWWW-t	MT20	5.0	6.0	2.25 3.00
17	BMWW+t	MT20	3.0	5.0	2.25 1.50
18	BS-t	MT20	3.0	6.0	
19	BMWW-t	MT20	4.0	4.0	1.50 2.00
20	BMWW-t	MT20	4.0	5.0	1.75 1.50
21	BMWW-t	MT20	4.0	6.0	1.75 1.75
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.					

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.



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	
22		1925	0	1925	0	0	5-8	5-8	
12		1820	0	1820	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
22		1349	957 / 0	0 / 0	0 / 0	0 / 0	392 / 0
12		1277	893 / 0	0 / 0	0 / 0	0 / 0	384 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.25 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 8-16. DBS = 20-0-0. CBF = 73 LBS.
2x4 SPF No.2 T-BRACE AT 6-16

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.

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

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

LOADING				
TOTAL LOAD CASES: (4)				
CHORDS		WEBS		
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)
FR-TO		FROM TO	LENGTH	FR-TO
1-2	0 / 23	-77.3	-77.3 0.10 (1)	10.00
2-3	-2636 / 0	-77.3	-77.3 0.32 (1)	4.00
3-4	-3943 / 0	-77.3	-77.3 0.41 (1)	3.25
4-5	-3379 / 0	-77.3	-77.3 0.29 (1)	3.62
5-6	-2657 / 0	-77.3	-77.3 0.22 (1)	4.10
6-7	-2055 / 0	-77.3	-77.3 0.20 (1)	4.57
7-8	-2060 / 0	-77.3	-77.3 0.34 (1)	4.42
8-9	-2457 / 0	-77.3	-77.3 0.35 (1)	4.11
9-10	-2457 / 0	-77.3	-77.3 0.35 (1)	4.11
10-11	-2565 / 0	-77.3	-77.3 0.42 (1)	3.97
22-2	-1890 / 0	0.0	0.0 0.19 (1)	6.10
12-11	-1776 / 0	0.0	0.0 0.18 (1)	6.26
22-21	0 / 0	-17.5	-17.5 0.09 (4)	10.00
21-20	0 / 2346	-17.5	-17.5 0.43 (1)	10.00
20-19	0 / 3978	-17.5	-17.5 0.70 (1)	10.00
19-18	0 / 3036	-17.5	-17.5 0.52 (1)	10.00
18-17	0 / 3036	-17.5	-17.5 0.52 (1)	10.00
17-16	0 / 2376	-17.5	-17.5 0.45 (1)	10.00
16-15	0 / 2197	-17.5	-17.5 0.42 (1)	10.00
15-14	0 / 2197	-17.5	-17.5 0.42 (1)	10.00
14-13	0 / 2310	-17.5	-17.5 0.42 (1)	10.00
13-12	0 / 0	-17.5	-17.5 0.12 (4)	10.00
2-21	0 / 2393	17.5	17.5 0.43 (1)	10.00
13-11	0 / 2351	17.5	17.5 0.43 (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

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 (1.28")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.25")
ALLOWABLE DEFL.(TL)= L/360 (1.28")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.44")

CSI: TC=0.42 (10-11:1), BC=0.70 (19-20:1), WB=0.88 (5-17:1), SSI=0.18 (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
MT20	618	354	1667	822	2284

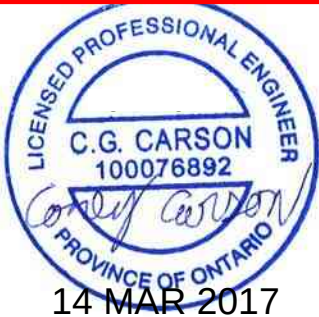
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (20) (INPUT = 0.90)
JSI METAL= 0.81 (18) (INPUT = 1.00)

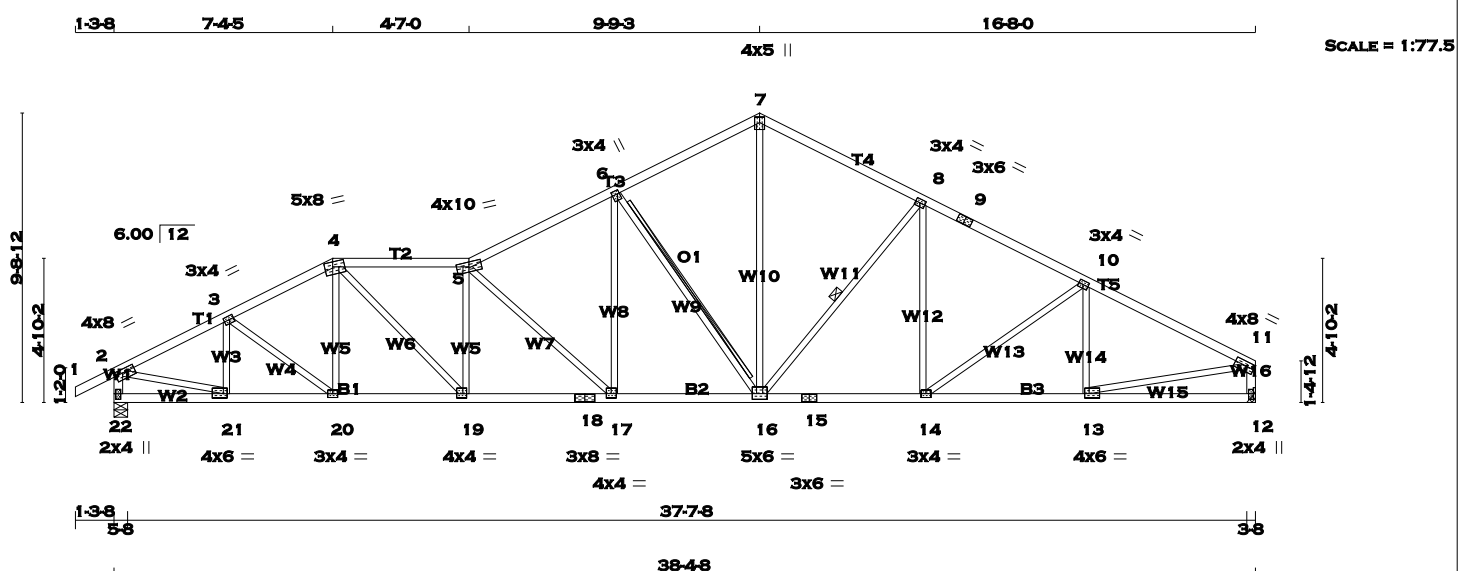


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TOTAL WEIGHT = 166 lb
[M][F]

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	No.2	SPF
4 - 5	2x4	No.2	SPF
5 - 7	2x4	No.2	SPF
7 - 9	2x4	No.2	SPF
9 - 11	2x4	No.2	SPF
22 - 2	2x4	No.2	SPF
12 - 11	2x4	No.2	SPF
22 - 18	2x4	No.2	SPF
18 - 15	2x4	No.2	SPF
15 - 12	2x4	No.2	SPF
ALL WEBS	2x3	DRY	No.2
EXCEPT			SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	X
2	TMVW-t	MT20	4.0	8.0	1.50 3.00
3, 8, 10					
3	TMWW-t	MT20	3.0	4.0	1.50 1.75
4	TTWW-m	MT20	5.0	8.0	2.00 3.25
5	TTWW-m	MT20	4.0	10.0	
6	TMWW-t	MT20	3.0	4.0	1.50 0.75
7	TTW+p	MT20	4.0	5.0	2.25 2.00
9	TS-t	MT20	3.0	6.0	
11	TMVW-t	MT20	4.0	8.0	1.75 Edge
12	BMV1+p	MT20	2.0	4.0	2.25 1.00
13	BMWW-t	MT20	4.0	6.0	1.75 1.75
14	BMWW-t	MT20	3.0	4.0	
15	BS-t	MT20	3.0	6.0	
16	BMWW-t	MT20	5.0	6.0	2.25 3.00
17	BMWW-t	MT20	4.0	4.0	1.75 2.00
18	BS-t	MT20	3.0	8.0	
19	BMWW-t	MT20	4.0	4.0	1.75 1.50
20	BMWW-t	MT20	3.0	4.0	
21	BMWW-t	MT20	4.0	6.0	1.75 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.

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.



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

BEARINGS			
	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT REQRD BRG
JT	VERT	HORZ	DOWN
22	1925	0	1925 0 0
12	1820	0	1820 0 0

UNFACTORED REACTIONS

1ST LCASE			
JT	COMBINED	SNOW	LIVE
22	1349	957 / 0	0 / 0
12	1277	893 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.61 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 8-16. DBS = 20-0-0. CBF = 73 LBS. 2x4 SPF No.2 T-BRACE AT 6-16

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.

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

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

LOADING

CHORDS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1)
FR-TO		FROM TO	LENGTH FR-TO
1-2	0 / 23	-77.3 -77.3	0.10 (1) 10.00
2-3	-2549 / 0	-77.3 -77.3	0.20 (1) 4.18
3-4	-2686 / 0	-77.3 -77.3	0.19 (1) 4.10
4-5	-3275 / 0	-77.3 -77.3	0.35 (1) 3.61
5-6	-2771 / 0	-77.3 -77.3	0.34 (1) 3.90
6-7	-2062 / 0	-77.3 -77.3	0.29 (1) 4.47
7-8	-2060 / 0	-77.3 -77.3	0.34 (1) 4.42
8-9	-2457 / 0	-77.3 -77.3	0.35 (1) 4.11
9-10	-2457 / 0	-77.3 -77.3	0.35 (1) 4.11
10-11	-2565 / 0	-77.3 -77.3	0.42 (1) 3.97
22-2	-1889 / 0	0.0 0.0	0.19 (1) 6.10
12-11	-1776 / 0	0.0 0.0	0.18 (1) 6.26
22-21	0 / 0	-17.5 -17.5	0.06 (4) 10.00
21-20	0 / 2290	-17.5 -17.5	0.41 (1) 10.00
20-19	0 / 2389	-17.5 -17.5	0.43 (1) 10.00
19-18	0 / 3294	-17.5 -17.5	0.58 (1) 10.00
18-17	0 / 3294	-17.5 -17.5	0.58 (1) 10.00
17-16	0 / 2498	-17.5 -17.5	0.47 (1) 10.00
16-15	0 / 2197	-17.5 -17.5	0.42 (1) 10.00
15-14	0 / 2197	-17.5 -17.5	0.42 (1) 10.00
14-13	0 / 2310	-17.5 -17.5	0.42 (1) 10.00
13-12	0 / 0	-17.5 -17.5	0.12 (4) 10.00

RECEIVED TOWN OF MILTON MAR 29, 2017 17-5058 BUILDING DIVISION

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 (1.28")
CALCULATED VERT. DEFL.(LL) = L/999 (0.21")
ALLOWABLE DEFL.(TL)= L/360 (1.28")
CALCULATED VERT. DEFL.(TL) = L/999 (0.38")

CSI: TC=0.42 (10-11:1), BC=0.58 (17-19:1), WB=0.90 (5-17:1), SSI=0.18 (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.

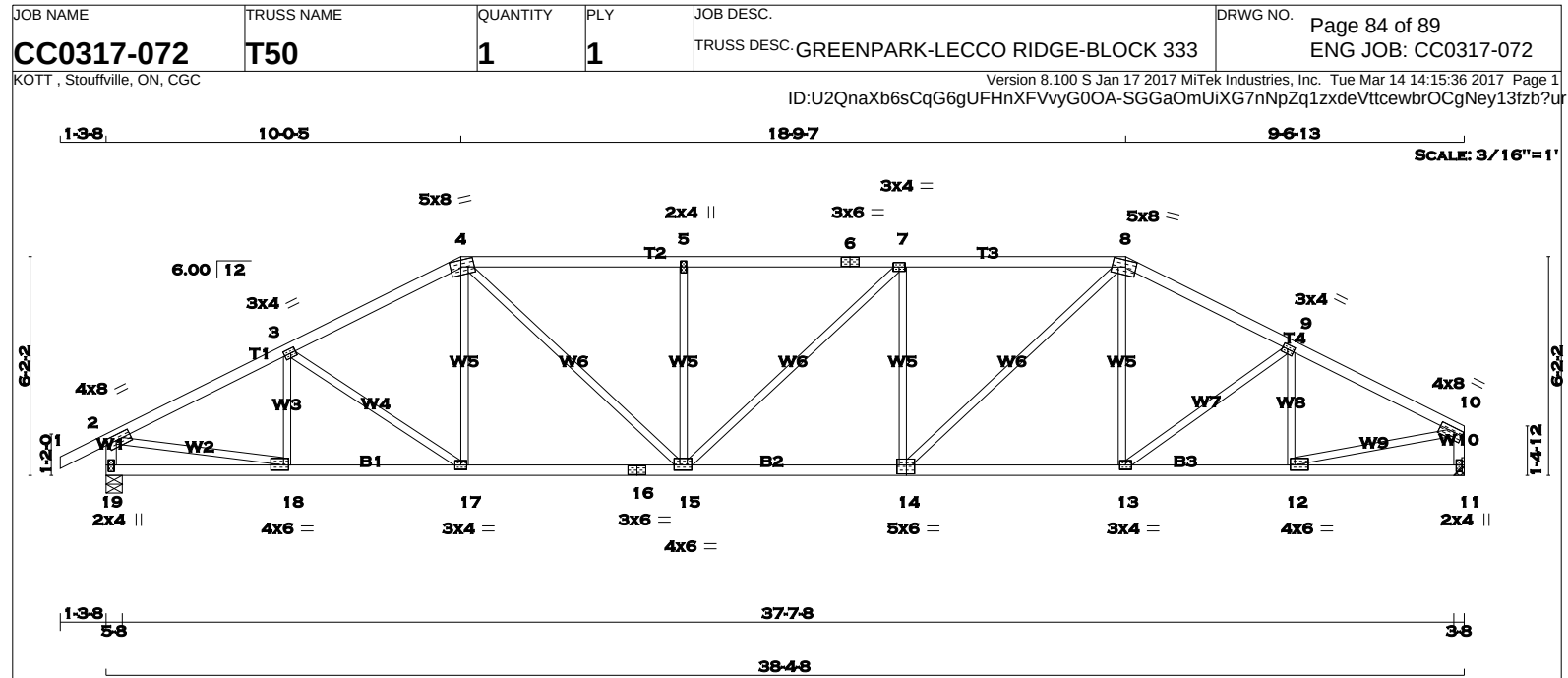
NAIL VALUES					
PLATE	GRIP(DRY)	SHEAR	SECTION	(PSI)	(PLI)
MT20	618	354	1667	822	2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (11) (INPUT = 0.90)
JSI METAL= 0.85 (18) (INPUT = 1.00)





TOTAL WEIGHT = 154 lb [M][F]

LUMBER				N. L. G. A. RULES	
CHORDS	SIZE	LUMBER	DESCR.	CHORDS	SIZE
1 - 4	2x4	DRY	No.2	1 - 4	2x4
4 - 6	2x4	DRY	No.2	4 - 6	2x4
6 - 8	2x4	DRY	No.2	6 - 8	2x4
8 - 10	2x4	DRY	No.2	8 - 10	2x4
19 - 2	2x4	DRY	No.2	19 - 2	2x4
11 - 10	2x4	DRY	No.2	11 - 10	2x4
19 - 16	2x4	DRY	No.2	19 - 16	2x4
16 - 14	2x4	DRY	No.2	16 - 14	2x4
14 - 11	2x4	DRY	No.2	14 - 11	2x4
ALL WEBS EXCEPT	2x3	DRY	No.2	ALL WEBS EXCEPT	2x3

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	5.0	8.0	2.25 3.50
5	TMVW-t	MT20	2.0	4.0	
6	TS-t	MT20	3.0	6.0	
7	TMVW-t	MT20	3.0	4.0	
8	TTWW-m	MT20	5.0	8.0	2.25 3.50
9	TMVW-t	MT20	3.0	4.0	1.50 1.75
10	TMVW-t	MT20	4.0	8.0	1.50 3.00
11	BMV1-p	MT20	2.0	4.0	2.25 1.00
12	BMVW-t	MT20	4.0	6.0	1.75 1.50
13	BMVW-t	MT20	3.0	4.0	
14	BSWW-l	MT20	5.0	6.0	3.00 2.75
15	BMVW-t	MT20	4.0	6.0	1.75 2.00
16	BS-t	MT20	3.0	6.0	
17	BMVW-t	MT20	3.0	4.0	
18	BMVW-t	MT20	4.0	6.0	1.75 1.75
19	BMV1-p	MT20	2.0	4.0	2.25 1.00

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	DOWN	HORZ	UPLIFT	IN-SX
19	1925	0	1925	0	5-8
11	1820	0	1820	0	5-8

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
19	1349	957 / 0	0 / 0	0 / 0	0 / 0	392 / 0	0 / 0
11	1277	893 / 0	0 / 0	0 / 0	0 / 0	384 / 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 = 3.62 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 / 23	-77.3	-77.3 0.10 (1)	10.00	18-3	-323 / 0	0.07 (1)
2-3	-2697 / 0	-77.3	-77.3 0.35 (1)	3.94	3-17	-158 / 0	0.10 (1)
3-4	-2592 / 0	-77.3	-77.3 0.33 (1)	4.03	17-4	0 / 195	0.05 (4)
4-5	-2956 / 0	-77.3	-77.3 0.52 (1)	3.62	4-15	0 / 894	0.20 (1)
5-6	-2956 / 0	-77.3	-77.3 0.47 (1)	3.67	15-5	-524 / 0	0.32 (1)
6-7	-2956 / 0	-77.3	-77.3 0.47 (1)	3.67	15-7	0 / 30	0.01 (1)
7-8	-2934 / 0	-77.3	-77.3 0.52 (1)	3.64	14-7	-546 / 0	0.33 (1)
8-9	-2514 / 0	-77.3	-77.3 0.30 (1)	4.11	14-8	0 / 960	0.22 (1)
9-10	-2506 / 0	-77.3	-77.3 0.31 (1)	4.11	13-8	0 / 124	0.04 (4)
19-2	-1883 / 0	0.0	0.0 0.19 (1)	6.12	13-9	-34 / 0	0.02 (1)
11-10	-1780 / 0	0.0	0.0 0.18 (1)	6.26	12-9	-422 / 0	0.10 (1)
					2-18	0 / 2463	0.55 (1)
					12-10	0 / 2313	0.52 (1)
19-18	0 / 0	-17.5	-17.5 0.09 (4)	10.00			
18-17	0 / 2429	-17.5	-17.5 0.46 (1)	10.00			
17-16	0 / 2302	-17.5	-17.5 0.44 (1)	10.00			
16-15	0 / 2302	-17.5	-17.5 0.44 (1)	10.00			
15-14	0 / 2934	-17.5	-17.5 0.54 (1)	10.00			
14-13	0 / 2232	-17.5	-17.5 0.42 (1)	10.00			
13-12	0 / 2258	-17.5	-17.5 0.43 (1)	10.00			
12-11	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 (1.28")
CALCULATED VERT. DEFL.(LL) = L/999 (0.20")
ALLOWABLE DEFL.(TL)= L/360 (1.28")
CALCULATED VERT. DEFL.(TL) = L/999 (0.36")

CSI: TC=0.52 (4-5:1), BC=0.54 (14-15:1), WB=0.55 (2-18:1), SSI=0.23 (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.

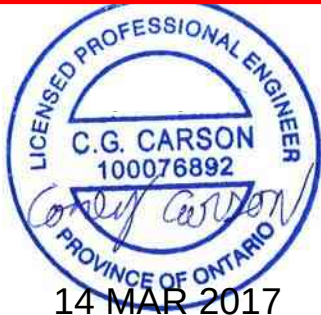
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (2) (INPUT = 0.90)
JSI METAL= 0.61 (18) (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.



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TOWN OF MILTON
MAR 29, 2017
17-5058
BUILDING DIVISION





DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER								
<u>BEARINGS</u>								
FACTORED GROSS REACTION			MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
17	1925	0	1925	0	0	5-8	5-8	
9	1820	0	1820	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 3-8		
<u>UNFACTORED REACTIONS</u>								
1ST LCASE			MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
17	1349	957 / 0	0 / 0	0 / 0	0 / 0	392 / 0	0 / 0	
9	1277	893 / 0	0 / 0	0 / 0	0 / 0	384 / 0	0 / 0	

SPACING = 24.0 IN. C/C

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
17	1349	957 / 0	0 / 0	0 / 0	0 / 0	392 / 0	0 / 0
9	1277	893 / 0	0 / 0	0 / 0	0 / 0	384 / 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 = 3.68 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.

LOADING

TOTAL LOAD CASES: (4)

C H O R D S				W E B S			
MAX. FACTORED		FACTORED		MAX. FACTORED			
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC 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	16-3	-214 / 42	0.06 (1)
2-3	-2762 / 0	-77.3	-77.3 0.58 (1)	3.68	3-15	-410 / 0	0.47 (1)
3-4	-2429 / 0	-77.3	-77.3 0.52 (1)	3.94	15-4	0 / 338	0.08 (1)
4-5	-2484 / 0	-77.3	-77.3 0.57 (1)	3.80	4-13	0 / 486	0.11 (1)
5-6	-2484 / 0	-77.3	-77.3 0.57 (1)	3.80	13-5	-639 / 0	0.65 (1)
6-7	-2383 / 0	-77.3	-77.3 0.47 (1)	4.02	13-6	0 / 546	0.12 (1)
7-8	-2605 / 0	-77.3	-77.3 0.52 (1)	3.83	11-6	0 / 281	0.06 (1)
17-2	-1876 / 0	0.0	0.0 0.19 (1)	6.13	11-7	-295 / 0	0.32 (1)
9-8	-1773 / 0	0.0	0.0 0.18 (1)	6.27	10-7	-298 / 13	0.09 (1)
					2-16	0 / 2515	0.57 (1)
17-16	0 / 0	-17.5	-17.5 0.16 (4)	10.00	10-8	0 / 2387	0.54 (1)
16-15	0 / 2493	-17.5	-17.5 0.48 (1)	10.00			
15-14	0 / 2153	-17.5	-17.5 0.43 (1)	10.00			
14-13	0 / 2153	-17.5	-17.5 0.43 (1)	10.00			
13-12	0 / 2112	-17.5	-17.5 0.42 (1)	10.00			
12-11	0 / 2112	-17.5	-17.5 0.42 (1)	10.00			
11-10	0 / 2351	-17.5	-17.5 0.46 (1)	10.00			
10-9	0 / 0	-17.5	-17.5 0.15 (4)	10.00			

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 , CBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

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

ALLOWABLE DEFL.(LL)= L/360 (1.28")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.16")
ALLOWABLE DEFL.(TL)= L/360 (1.28")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.30")

CSI: TC=0.58 (2-3:1) , BC=0.48 (15-16:1) ,
WB=0.65 (5-13:1) , 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) (PSI)		SHEAR (PLI)		SECTION (PLI)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

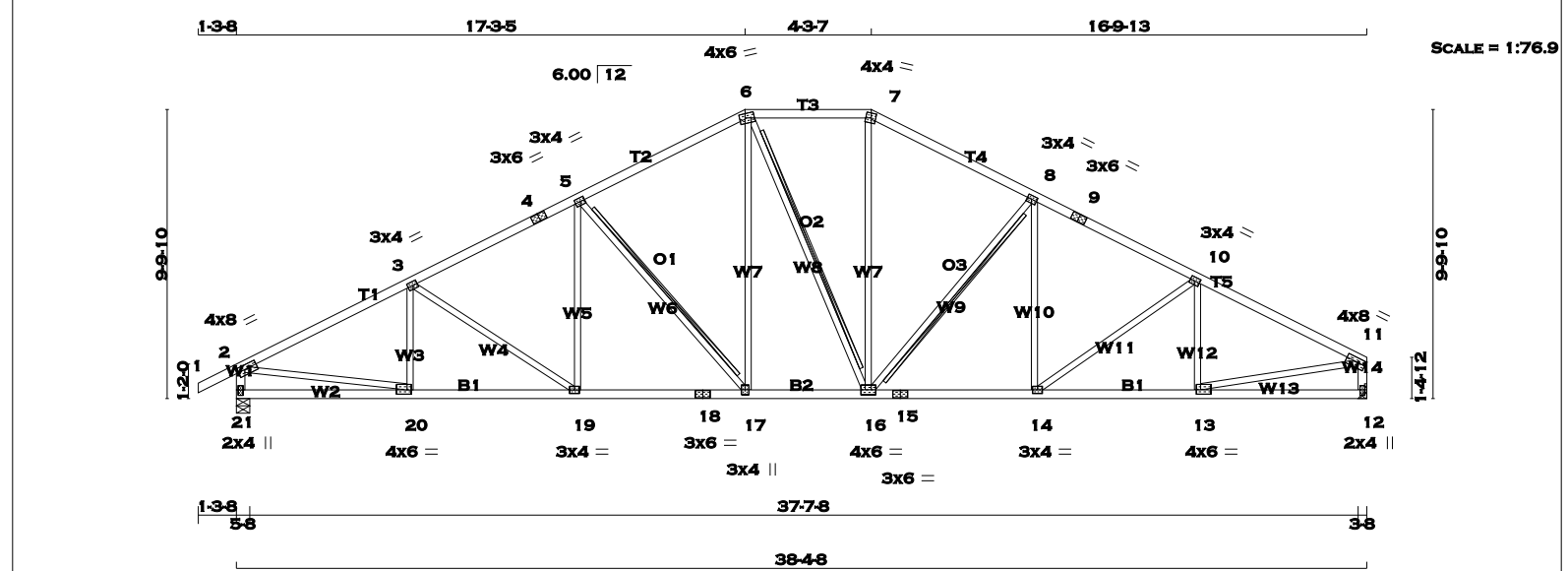
JSI GRIP= 0.88 (8) (INPUT = 0.90)
JSI METAL= 0.62 (16) (INPUT = 1.00)

**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.**



RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5058
BUILDING DIVISION





											TOTAL WEIGHT = 169 lb	
LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY						[M][F]		

DRY: SEASONED LUMBER.				UNFACTORED REACTIONS				LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12			
1ST LCASE	MAX./MIN.	COMPONENT REACTIONS		1ST LCASE	MAX./MIN.	COMPONENT REACTIONS		THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010			
21	1349	957 / 0	0 / 0	21	1349	957 / 0	0 / 0	THIS DESIGN COMPLIES WITH:			
12	1277	893 / 0	0 / 0	12	1277	893 / 0	0 / 0	- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014			
								- CSA 086-09			
								- TPIC 2011			

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

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

LOADING TOTAL LOAD CASES: (4)

CHORDS MAX. FACTORED FORCE (LBS) FACTORED VERT. LOAD (PLF) MAX. UNBRACED LENGTH (FT) WEBS MAX. FACTORED FORCE (LBS) MAX. UNBRACED LENGTH (FT)

FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)
1-2	20-3	0 / 23	-77.3	-77.3 0.10 (1)	10.00	20-3	-252 / 20	0.06 (1)
2-3	3-4	-2731 / 0	-77.3	-77.3 0.47 (1)	3.82	3-4	-244 / 0	0.21 (1)
3-4	4-5	-2522 / 0	-77.3	-77.3 0.38 (1)	4.05	4-5	0 / 240	0.05 (1)
4-5	5-6	-2522 / 0	-77.3	-77.3 0.38 (1)	4.05	5-6	-670 / 0	0.91 (1)
5-6	6-7	-2051 / 0	-77.3	-77.3 0.37 (1)	4.40	6-7	0 / 587	0.13 (1)
6-7	7-8	-1814 / 0	-77.3	-77.3 0.22 (1)	4.77	7-8	-21 / 0	0.02 (1)
7-8	8-9	-2041 / 0	-77.3	-77.3 0.35 (1)	4.43	8-9	0 / 568	0.13 (1)
8-9	9-10	-2453 / 0	-77.3	-77.3 0.36 (1)	4.11	9-10	-601 / 0	0.81 (1)
9-10	10-11	-2453 / 0	-77.3	-77.3 0.36 (1)	4.11	10-11	0 / 182	0.05 (4)
10-11	11-12	-2567 / 0	-77.3	-77.3 0.43 (1)	3.96	11-12	-145 / 0	0.13 (1)
11-12	12-11	-1879 / 0	0.0	0.0 0.19 (1)	6.12	12-11	-333 / 0	0.09 (1)
12-11	13-12	-1776 / 0	0.0	0.0 0.18 (1)	6.26	13-12	0 / 2484	0.56 (1)
21-20	20-19	0 / 0	-17.5	-17.5 0.13 (4)	10.00	20-19	0 / 2353	0.53 (1)
20-19	19-18	0 / 2459	-17.5	-17.5 0.45 (1)	10.00	19-18		
19-18	18-17	0 / 2256	-17.5	-17.5 0.42 (1)	10.00	18-17		
18-17	17-16	0 / 2256	-17.5	-17.5 0.42 (1)	10.00	17-16		
17-16	16-15	0 / 1822	-17.5	-17.5 0.35 (1)	10.00	16-15		
16-15	15-14	0 / 2194	-17.5	-17.5 0.41 (1)	10.00	15-14		
15-14	14-13	0 / 2194	-17.5	-17.5 0.41 (1)	10.00	14-13		
14-13	13-12	0 / 2312	-17.5	-17.5 0.42 (1)	10.00	13-12		
13-12		0 / 0	-17.5	-17.5 0.12 (4)	10.00			

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.

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

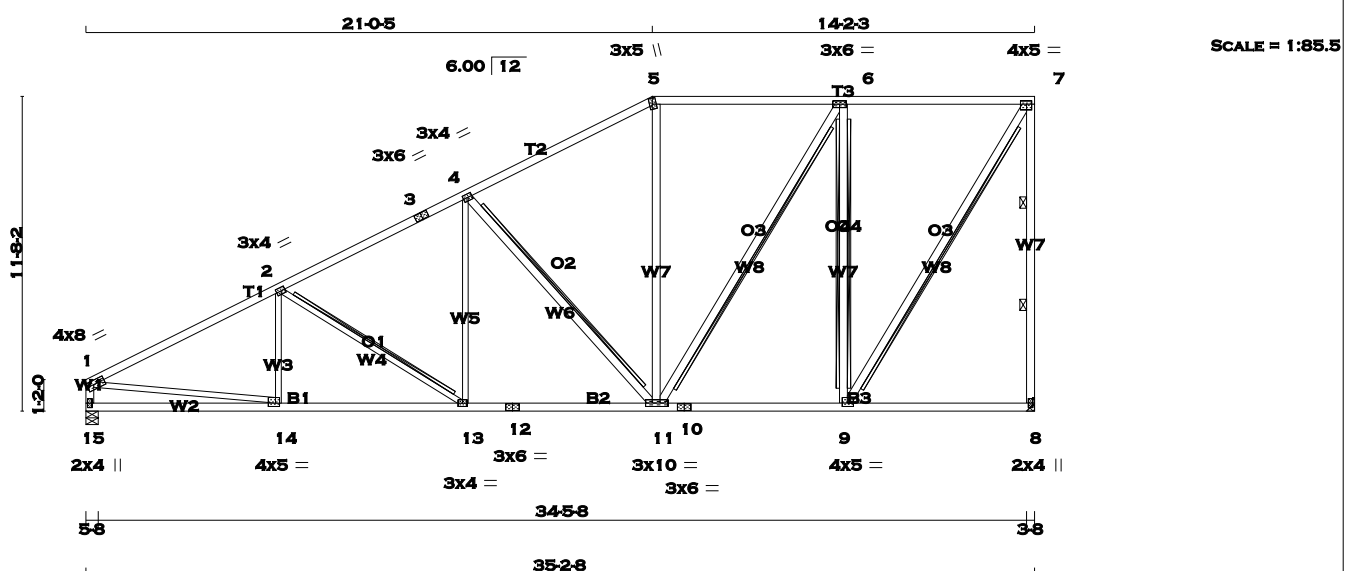
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (7) (INPUT = 0.90)
JSI METAL= 0.61 (20) (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.



TOTAL WEIGHT = 185 lb
[M][F]

LUMBER				DESCR.	
N. L. G. A. RULES		LUMBER	SIZE	DRY	No.2
CHORDS	SIZE				
1 - 3	2x4	DRY	No.2	SPF	
3 - 5	2x4	DRY	No.2	SPF	
5 - 7	2x4	DRY	No.2	SPF	
8 - 7	2x4	DRY	No.2	SPF	
15 - 1	2x4	DRY	No.2	SPF	
15 - 12	2x4	DRY	No.2	SPF	
12 - 10	2x4	DRY	No.2	SPF	
10 - 8	2x4	DRY	No.2	SPF	
ALL WEBS EXCEPT				2x4	DRY
14 - 2				2x3	DRY
2 - 13				2x3	DRY
13 - 4				2x3	DRY
1 - 14				2x3	DRY

DRY: SEASONED LUMBER.

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	4.0	8.0	1.75	Edge
2	TMWW-t	MT20	3.0	4.0	1.50	1.75
3	TS-t	MT20	3.0	6.0		
4	TMWW-t	MT20	3.0	4.0	1.50	1.75
5	TTW+m	MT20	3.0	5.0	2.75	1.25
6	TMWW-t	MT20	3.0	6.0		
7	TMVW-t	MT20	4.0	5.0	1.50	2.25
8	BMV1+p	MT20	2.0	4.0		
9	BMWW-t	MT20	4.0	5.0	1.50	2.25
10	BS-t	MT20	3.0	6.0		
11	BMWW-t	MT20	3.0	10.0	1.50	3.00
12	BS-t	MT20	3.0	6.0		
13	BMWW-t	MT20	3.0	4.0		
14	BMWW-t	MT20	4.0	5.0	1.50	1.75
15	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.

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.



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		
8	1670	0	1670	0	0	HANGER BY OTHERS			
						MIN. SEAT SIZE: 3-8			
15	1670	0	1670	0	0	5-8	5-8		

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS				
8	1172	820 / 0	0 / 0	0 / 0	0 / 0	352 / 0	0 / 0
15	1172	820 / 0	0 / 0	0 / 0	0 / 0	352 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 15

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.76 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.

2 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/3 LENGTH OF 7-8. DBS = 8-0-0. CBF = 81 LBS.
2x3 SPF No.2 T-BRACE AT 2-13, 6-11, 7-9
2x4 SPF No.2 T-BRACE AT 4-11
2x4 SPF No.2 I-BRACE AT 6-9

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.

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

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

LOADING									
TOTAL LOAD CASES: (4)									
CHORDS		WEBS		FACTORED		FACTORED		FACTORED	
MEMB.	MAX. FORCE (LBS)	MEMB.	MAX. FORCE (LBS)	VERT. LOAD	MAX. UNBRACED LENGTH	VERT. LOAD	MAX. UNBRACED LENGTH	VERT. LOAD	MAX. UNBRACED LENGTH
FR-TO		FR-TO		FROM	TO	FROM	TO	FROM	TO
1-2	-2487 / 0	14-2	-136 / 75	-77.3	-77.3	0.67	(1)	3.76	10.00
2-3	-2058 / 0	2-13	-480 / 0	-77.3	-77.3	0.52	(1)	4.25	10.00
3-4	-2058 / 0	13-4	0 / 381	-77.3	-77.3	0.52	(1)	4.25	10.00
4-5	-1410 / 0	4-11	-901 / 0	-77.3	-77.3	0.50	(1)	4.91	10.00
5-6	-1242 / 0	11-5	0 / 197	-77.3	-77.3	0.54	(1)	5.04	10.00
6-7	-880 / 0	11-6	0 / 695	-77.3	-77.3	0.52	(1)	5.77	10.00
8-7	-1620 / 0	9-6	-1275 / 0	0.0	0.0	0.50	(1)	5.20	10.00
15-1	-1617 / 0	9-7	0 / 1665	0.0	0.0	0.16	(1)	6.50	10.00
		1-14	0 / 2261						
15-14	0 / 0			-17.5	-17.5	0.20	(4)	10.00	
14-13	0 / 2245			-17.5	-17.5	0.46	(1)	10.00	
13-12	0 / 1841			-17.5	-17.5	0.38	(1)	10.00	
12-11	0 / 1841			-17.5	-17.5	0.38	(1)	10.00	
11-10	0 / 880			-17.5	-17.5	0.27	(4)	10.00	
10-9	0 / 880			-17.5	-17.5	0.27	(4)	10.00	
9-8	0 / 0			-17.5	-17.5	0.21	(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 (1.17")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.12")
ALLOWABLE DEFL.(TL)= L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.23")

CSI: TC=0.67 (1-2:1), BC=0.46 (13-14:1), WB=0.95 (6-9:1), SSI=0.27 (6-7:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

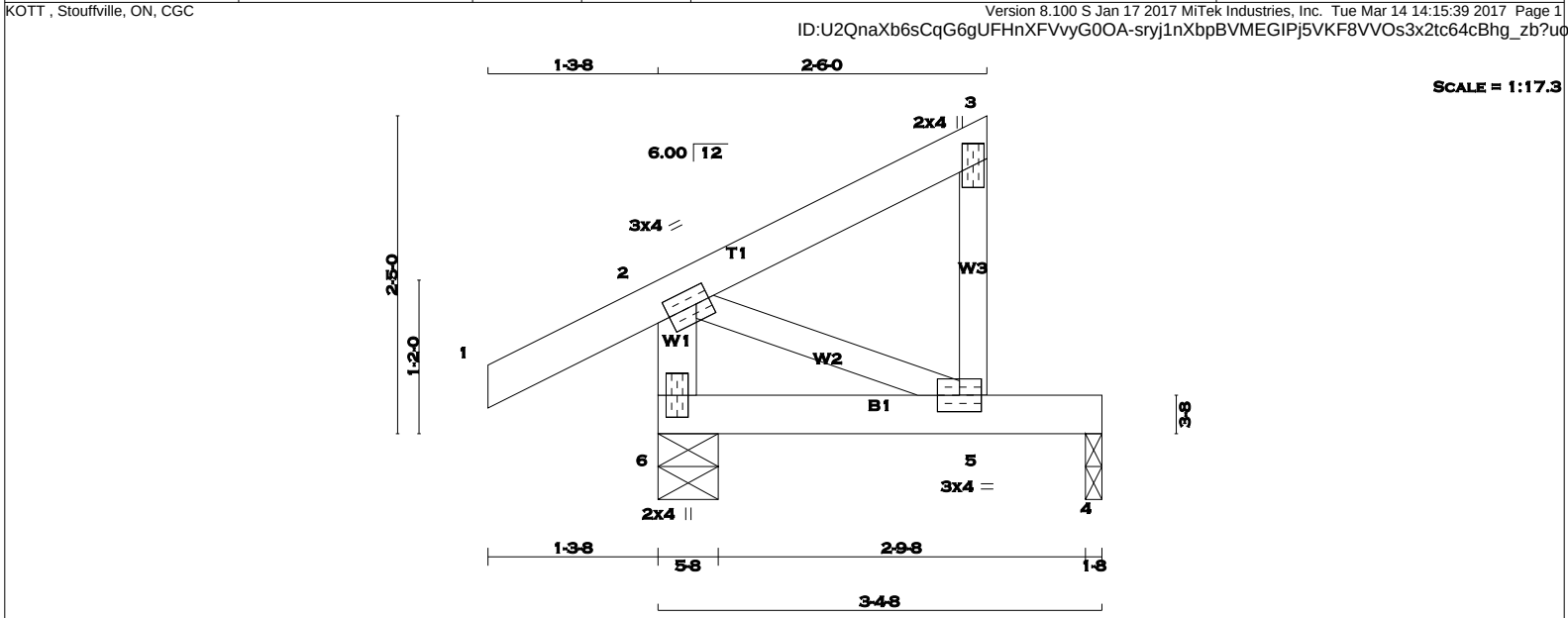
NAIL VALUES					
PLATE	GRIP(DRY)	SHEAR	SECTION		
	(PSI)	(PLI)	(PLI)		
MT20	618	354	1667	822	2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (14) (INPUT = 0.90)
JSI METAL= 0.67 (14) (INPUT = 1.00)





TOTAL WEIGHT = 6 X 13 = 77 lb [M]

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMVW-t	MT20	3.0	4.0	1.50 1.25
3	TMV+p	MT20	2.0	4.0	
5	BMVW-t	MT20	3.0	4.0	
6	BMV1+p	MT20	2.0	4.0	
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	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
6	256	0	256	0	0	0	5-8	5-8		
4	101	0	101	0	0	0	1-8	1-8		

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
6	178	136 / 0	0 / 0	0 / 0	0 / 0	41 / 0	0 / 0
4	72	43 / 0	0 / 0	0 / 0	0 / 0	29 / 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: (5)							
CHORDS				WEBS			
MEMB.		MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO			FROM TO			FR-TO	
1-2	0 / 23	-77.3	-77.3	0.10 (1)	10.00	2-5	0 / 0
2-3	0 / 0	-77.3	-77.3	0.08 (1)	10.00		
5-3	-97 / 0	0.0	0.0	0.02 (1)	7.81		
6-2	-202 / 0	0.0	0.0	0.02 (1)	7.81		
6-5	0 / 0	-17.5	-17.5	0.11 (1)	10.00		
5-4	0 / 0	-17.5	-17.5	0.11 (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

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 (0.02")

CSI: TC=0.10 (1-2:1), BC=0.11 (5-6:1), WB=0.00 (2-5:1), SSI=0.08 (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
MT20	618	354	1667	822	2284

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

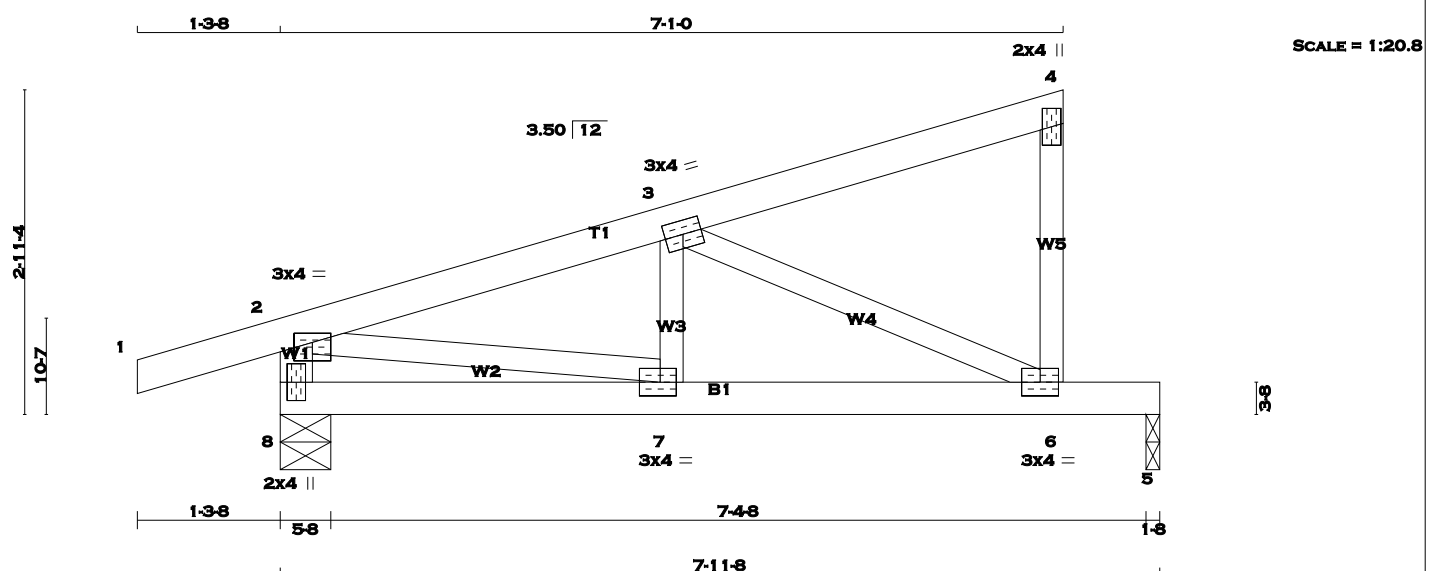
JSI GRIP= 0.18 (2) (INPUT = 0.90)
JSI METAL= 0.04 (6) (INPUT = 1.00)

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.



RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5058
BUILDING DIVISION





TOTAL WEIGHT = 8 X 28 = 224 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.					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS <table><tr><th rowspan="2">JT</th><th colspan="2">FACTORED GROSS REACTION</th><th colspan="2">MAXIMUM FACTORED GROSS REACTION</th><th colspan="2">INPUT BRG</th><th colspan="2">REQRD BRG</th></tr><tr><th>VERT</th><th>HORZ</th><th>DOWN</th><th>HORZ</th><th>UPLIFT</th><th>IN-SX</th><th>IN-SX</th></tr><tr><td>8</td><td>477</td><td>0</td><td>477</td><td>0</td><td>0</td><td>5-8</td><td>5-8</td></tr><tr><td>5</td><td>313</td><td>0</td><td>313</td><td>0</td><td>0</td><td>1-8</td><td>1-8</td></tr></table> UNFACTORED REACTIONS <table><tr><th rowspan="2">JT</th><th colspan="2">1ST LCASE COMBINED</th><th colspan="2">MAX/MIN. SNOW</th><th colspan="2">LIVE</th><th colspan="2">PERM.LIVE</th><th colspan="2">WIND</th><th colspan="2">DEAD</th><th colspan="2">SOIL</th></tr><tr><th>8</th><th>5</th><th>8</th><th>5</th><th>8</th><th>5</th><th>8</th><th>5</th><th>8</th><th>5</th><th>8</th><th>5</th><th>8</th><th>5</th></tr><tr><td>8</td><td>332</td><td>245 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>87 / 0</td><td>0 / 0</td><td>75 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td></tr><tr><td>5</td><td>221</td><td>147 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>75 / 0</td><td>0 / 0</td><td>75 / 0</td><td>0 / 0</td><td>0 / 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><th colspan="4">CHORDS</th><th colspan="4">WEBS</th></tr><tr><th rowspan="2">MEMB.</th><th rowspan="2">MAX. FACTORED FORCE (LBS)</th><th rowspan="2">FACTORED VERT. LOAD (PLF)</th><th rowspan="2">LC1 MAX CSI (LC)</th><th rowspan="2">MAX. UNBRACED LENGTH</th><th rowspan="2">MEMB.</th><th rowspan="2">MAX. FACTORED FORCE (LBS)</th><th rowspan="2">MAX. CSI (LC)</th></tr><tr></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>0 / 14</td><td>-77.3 -77.3</td><td>0.10 (1)</td><td>10.00</td><td>7-3</td><td>0 / 91</td><td>0.03 (4)</td></tr><tr><td>2-3</td><td>-579 / 0</td><td>-77.3 -77.3</td><td>0.11 (1)</td><td>6.25</td><td>3-6</td><td>-619 / 0</td><td>0.16 (1)</td></tr><tr><td>3-4</td><td>-8 / 0</td><td>-77.3 -77.3</td><td>0.11 (1)</td><td>10.00</td><td>2-7</td><td>0 / 571</td><td>0.13 (1)</td></tr><tr><td>6-4</td><td>-108 / 0</td><td>0.0 0.0</td><td>0.02 (1)</td><td>7.81</td><td></td><td></td><td></td></tr><tr><td>8-2</td><td>-467 / 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>-17.5 -17.5</td><td>0.10 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>7-6</td><td>0 / 564</td><td>-17.5 -17.5</td><td>0.45 (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>0.36 (1)</td><td>10.00</td><td></td><td></td><td></td></tr></table>					JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	8	477	0	477	0	0	5-8	5-8	5	313	0	313	0	0	1-8	1-8	JT	1ST LCASE COMBINED		MAX/MIN. SNOW		LIVE		PERM.LIVE		WIND		DEAD		SOIL		8	5	8	5	8	5	8	5	8	5	8	5	8	5	8	332	245 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	87 / 0	0 / 0	75 / 0	0 / 0	0 / 0	0 / 0	5	221	147 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	75 / 0	0 / 0	75 / 0	0 / 0	0 / 0	0 / 0	CHORDS				WEBS				MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRACED LENGTH	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 / 91	0.03 (4)	2-3	-579 / 0	-77.3 -77.3	0.11 (1)	6.25	3-6	-619 / 0	0.16 (1)	3-4	-8 / 0	-77.3 -77.3	0.11 (1)	10.00	2-7	0 / 571	0.13 (1)	6-4	-108 / 0	0.0 0.0	0.02 (1)	7.81				8-2	-467 / 0	0.0 0.0	0.05 (1)	7.81				8-7	0 / 0	-17.5 -17.5	0.10 (1)	10.00				7-6	0 / 564	-17.5 -17.5	0.45 (1)	10.00				6-5	0 / 0	-17.5 -17.5	0.36 (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 (0.27") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05") ALLOWABLE DEFL.(TL)= L/360 (0.27") CALCULATED VERT. DEFL.(TL) = L/ 973 (0.10") CSI: TC=0.11 (2-3:1) , BC=0.45 (6-7:1) , WB=0.16 (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= 0.86 (6) (INPUT = 0.90) JSI METAL= 0.21 (2) (INPUT = 1.00)				
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG																																																																																																																																																																																										
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX																																																																																																																																																																																										
8	477	0	477	0	0	5-8	5-8																																																																																																																																																																																										
5	313	0	313	0	0	1-8	1-8																																																																																																																																																																																										
JT	1ST LCASE COMBINED		MAX/MIN. SNOW		LIVE		PERM.LIVE		WIND		DEAD		SOIL																																																																																																																																																																																				
	8	5	8	5	8	5	8	5	8	5	8	5	8	5																																																																																																																																																																																			
8	332	245 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	87 / 0	0 / 0	75 / 0	0 / 0	0 / 0	0 / 0																																																																																																																																																																																			
5	221	147 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	75 / 0	0 / 0	75 / 0	0 / 0	0 / 0	0 / 0																																																																																																																																																																																			
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1-2	0 / 14	-77.3 -77.3	0.10 (1)	10.00	7-3	0 / 91	0.03 (4)																																																																																																																																																																																										
2-3	-579 / 0	-77.3 -77.3	0.11 (1)	6.25	3-6	-619 / 0	0.16 (1)																																																																																																																																																																																										
3-4	-8 / 0	-77.3 -77.3	0.11 (1)	10.00	2-7	0 / 571	0.13 (1)																																																																																																																																																																																										
6-4	-108 / 0	0.0 0.0	0.02 (1)	7.81																																																																																																																																																																																													
8-2	-467 / 0	0.0 0.0	0.05 (1)	7.81																																																																																																																																																																																													
8-7	0 / 0	-17.5 -17.5	0.10 (1)	10.00																																																																																																																																																																																													
7-6	0 / 564	-17.5 -17.5	0.45 (1)	10.00																																																																																																																																																																																													
6-5	0 / 0	-17.5 -17.5	0.36 (1)	10.00																																																																																																																																																																																													

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.

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