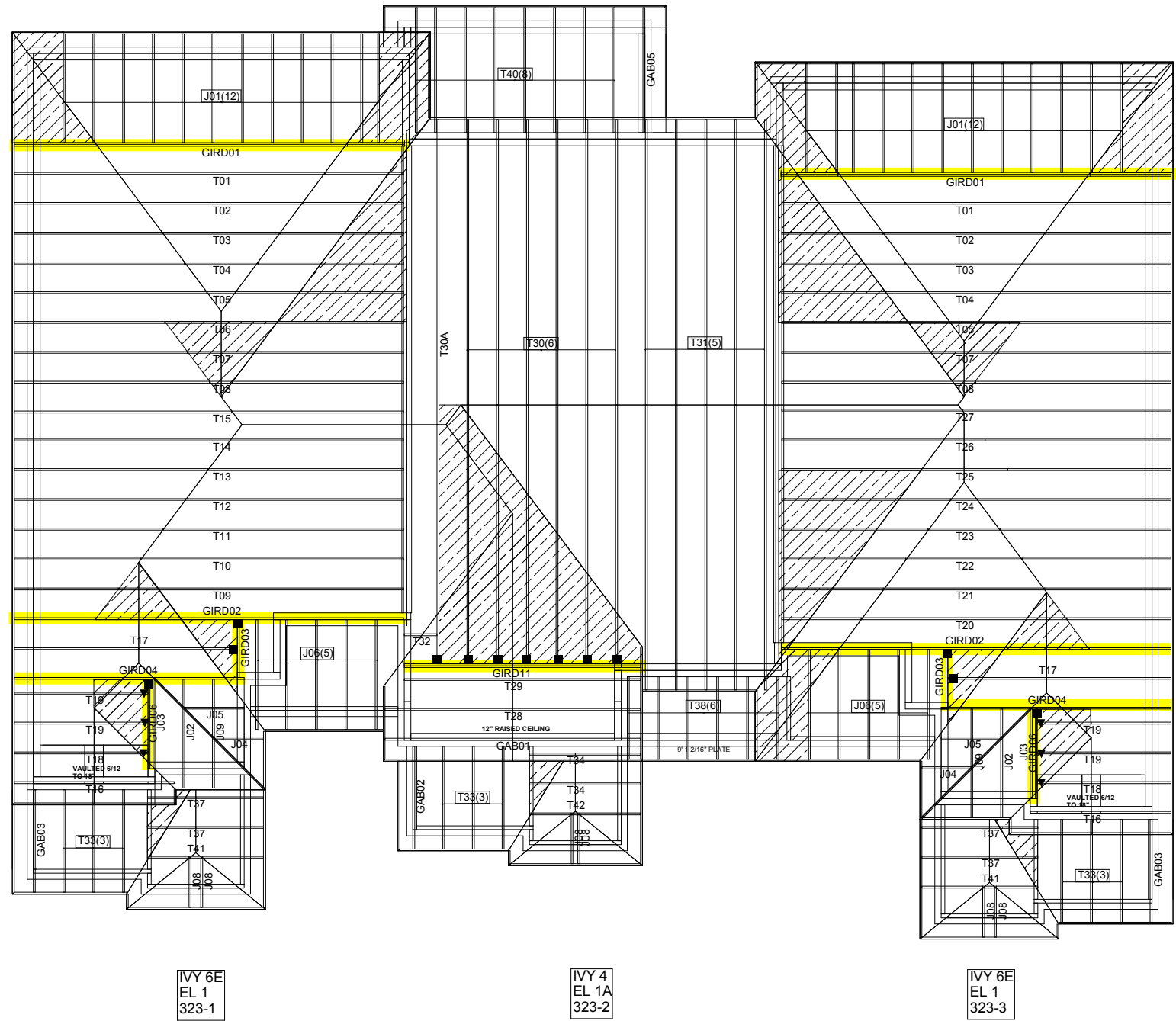


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 TOWN OF MILTON
PLANNING AND DEVELOPMENT
BUILDING PERMIT: 17-4949
BUILDING: REVIEWED
SCOTT SHERRIFFS
PLANS EXAMINER
DATE
APR 19, 2017
Neither the issuance of a permit nor carrying out of inspections by the Town of Milton relieves the owner from full 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



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

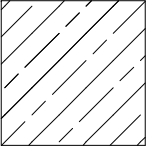
UNDERSIDE OF SOFFIT
FOR PORCHES AT
8' 6" A.F.F.

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 323**
Customer: **GREENPARK**
Project: **LECCO RIDGE**
Location: **MILTON**
Date: **3/9/2017** 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 truss.

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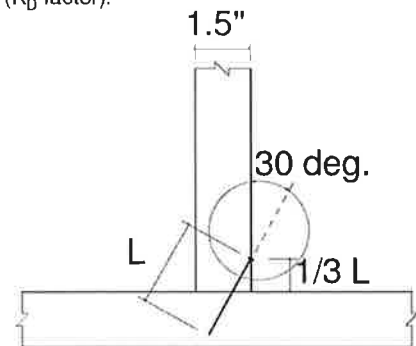
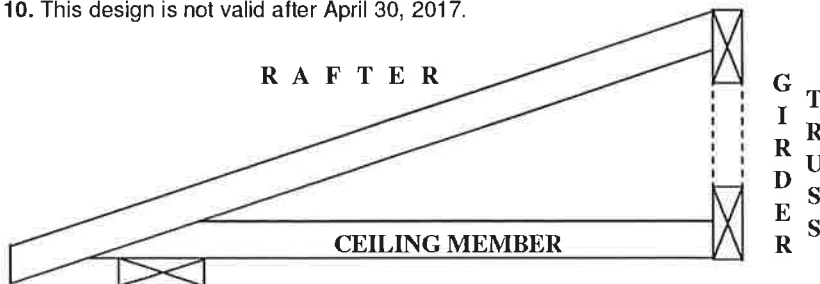
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

B37579H1

NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL LATERAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	132	147
	3.25	0.144	132	147
	3.50	0.160	159	177
COMMON SPIRAL	3.00	0.122	97	108
	3.25	0.122	97	108
	3.50	0.152	145	162

NOTES:

1. Rafter and ceiling members may be anchored to top and bottom chords of girder truss by toe-nailing rafter and ceiling members to girder chords provided the reaction does not exceed the lateral capacities in the table. Hangers (specified by others) are required for reactions higher than the maximum toe-nail capacity. Reactions are based on factored loads.
2. Toe nail capacities shown in the table are for **one** toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-09, section 10.9.4.1.
3. For 9- 3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in tables below.
5. Nail values in table are based on the following relative lumber densities: $G = 0.42$ (SPF), $G = 0.49$ (D. Fir).
6. Toe-nails shall be driven at approximately $1/3$ the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See next page for nailing on bearing plate).
7. For loads due to **wind** the nail lateral capacity in this table may be multiplied by 1.15 (K_D factor).
8. Lumber must be dry (< 19% moisture content) at the time of nail installation.
9. Nail values in this table comply with CSA O86-09, section 10.9.4
10. This design is not valid after April 30, 2017.



TOE-NAIL INSTALLATION

Nail type	Common wire	Common spiral	Common wire	Common spiral
Nail dia. (in)	0.160	0.152	0.144	0.122
	(3.5" nail)		(3" and 3.25" nail)	
LUMBER SIZE	MAXIMUM NUMBER OF TOE-NAILS			
2X4 SPF	2	2	3	3
2X4 D. Fir	2	2	2	2
2X6 SPF	4	4	4	5
2X6 D. Fir	3	3	3	4



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

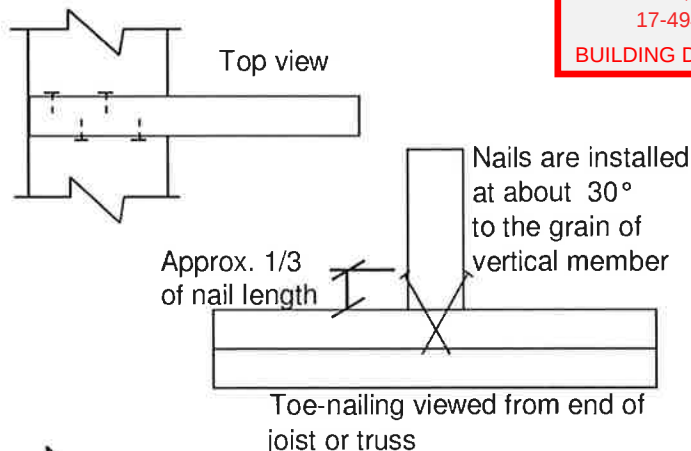
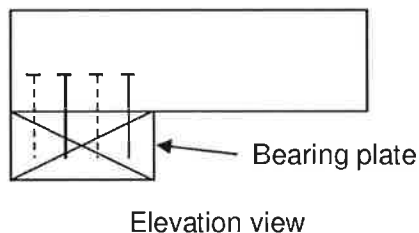
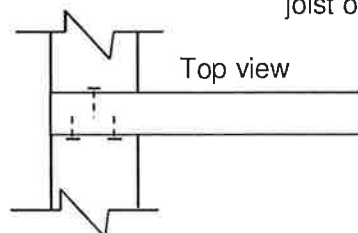
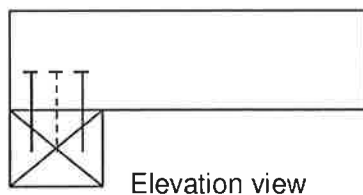
B37579H2

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

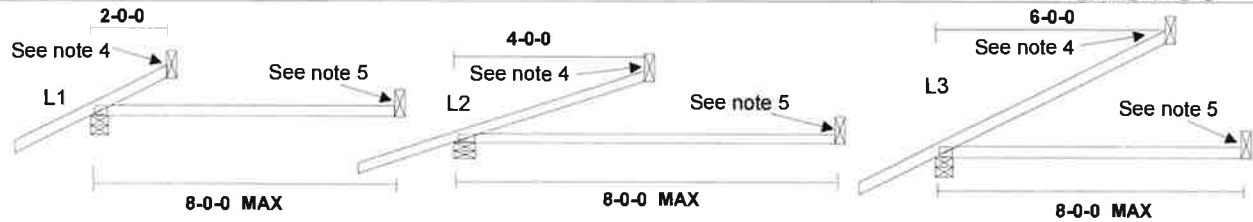
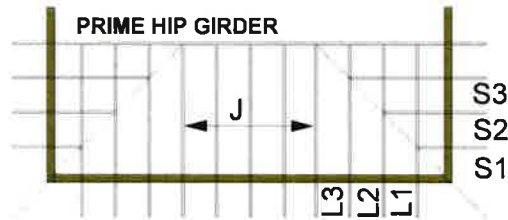
DETAILS

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"

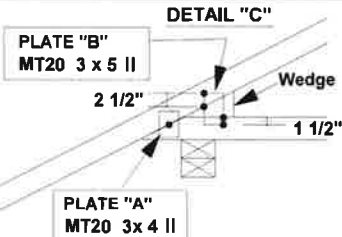
RAISED HEEL

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

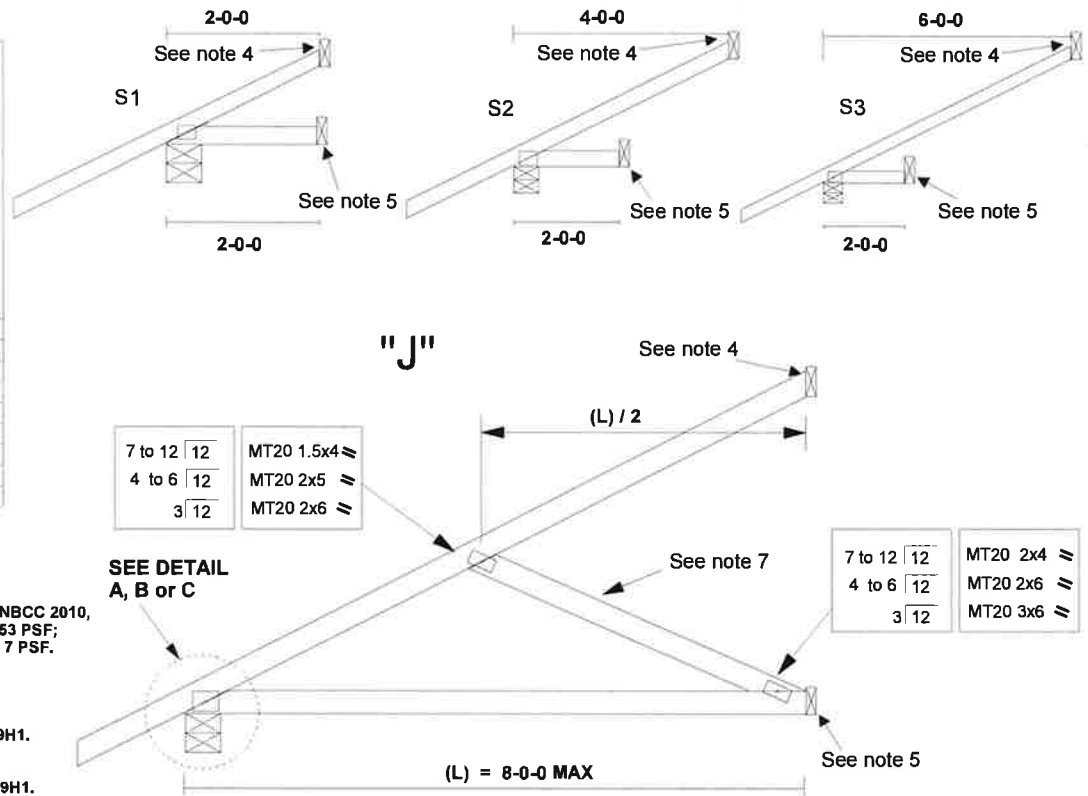


CANTILEVER DETAIL "C"

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



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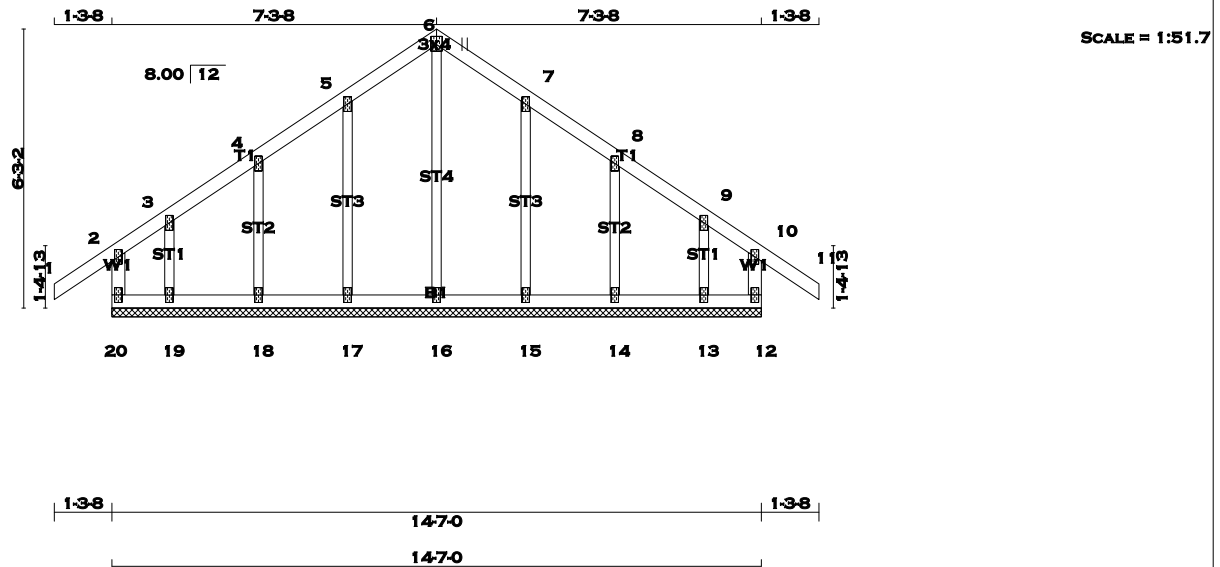
PEO
Certificate No. 10889485



MiTek Canada, Inc.

100 Industrial Rd.
Bradford, Ontario, L3Z 3G7

April 24, 2015



TOTAL WEIGHT = 62 lb
[M]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE		LUMBER	DESCR.
20 - 2	2x4	DRY	No.2	SPF
1 - 6	2x4	DRY	No.2	SPF
6 - 11	2x4	DRY	No.2	SPF
12 - 10	2x4	DRY	No.2	SPF
20 - 12	2x4	DRY	No.2	SPF
ALL WEBS 2x3		DRY	No.2	SPF
ALL GABLE WEBS 2x3		DRY	No.2	SPF
DRY: SEASONED LUMBER.				
GABLE STUDS SPACED AT 2-0-0 OC.				

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

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)
FR-TO		FROM TO			FR-TO		
20-2	-172 / 0	0.0	0.0 0.03 (1)	7.81	16-6	-194 / 0	0.12 (1)
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	17-5	-157 / 0	0.06 (1)
2-3	0 / 3	-77.3	-77.3 0.07 (1)	10.00	18-4	-160 / 0	0.03 (1)
3-4	0 / 28	-77.3	-77.3 0.04 (1)	10.00	19-3	-84 / 0	0.01 (1)
4-5	0 / 28	-77.3	-77.3 0.04 (1)	10.00	15-7	-157 / 0	0.06 (1)
5-6	0 / 31	-77.3	-77.3 0.04 (1)	10.00	14-8	-160 / 0	0.03 (1)
6-7	0 / 31	-77.3	-77.3 0.04 (1)	10.00	13-9	-84 / 0	0.01 (1)
7-8	0 / 28	-77.3	-77.3 0.04 (1)	10.00			
8-9	0 / 28	-77.3	-77.3 0.04 (1)	10.00			
9-10	0 / 3	-77.3	-77.3 0.07 (1)	10.00			
10-11	0 / 29	-77.3	-77.3 0.10 (1)	10.00			
12-10	-172 / 0	0.0	0.0 0.03 (1)	7.81			
20-19	-16 / 0	-17.5	-17.5 0.01 (4)	6.25			
19-18	-20 / 0	-17.5	-17.5 0.01 (4)	6.25			
18-17	-24 / 0	-17.5	-17.5 0.01 (4)	6.25			
17-16	-27 / 0	-17.5	-17.5 0.01 (4)	6.25			
16-15	-27 / 0	-17.5	-17.5 0.01 (4)	6.25			
15-14	-24 / 0	-17.5	-17.5 0.01 (4)	6.25			
14-13	-20 / 0	-17.5	-17.5 0.01 (4)	6.25			
13-12	-16 / 0	-17.5	-17.5 0.01 (4)	6.25			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C/C

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=0.01 (14-15:4) , WB=0.12 (6-16:1) , SS=0.07 (1-2:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

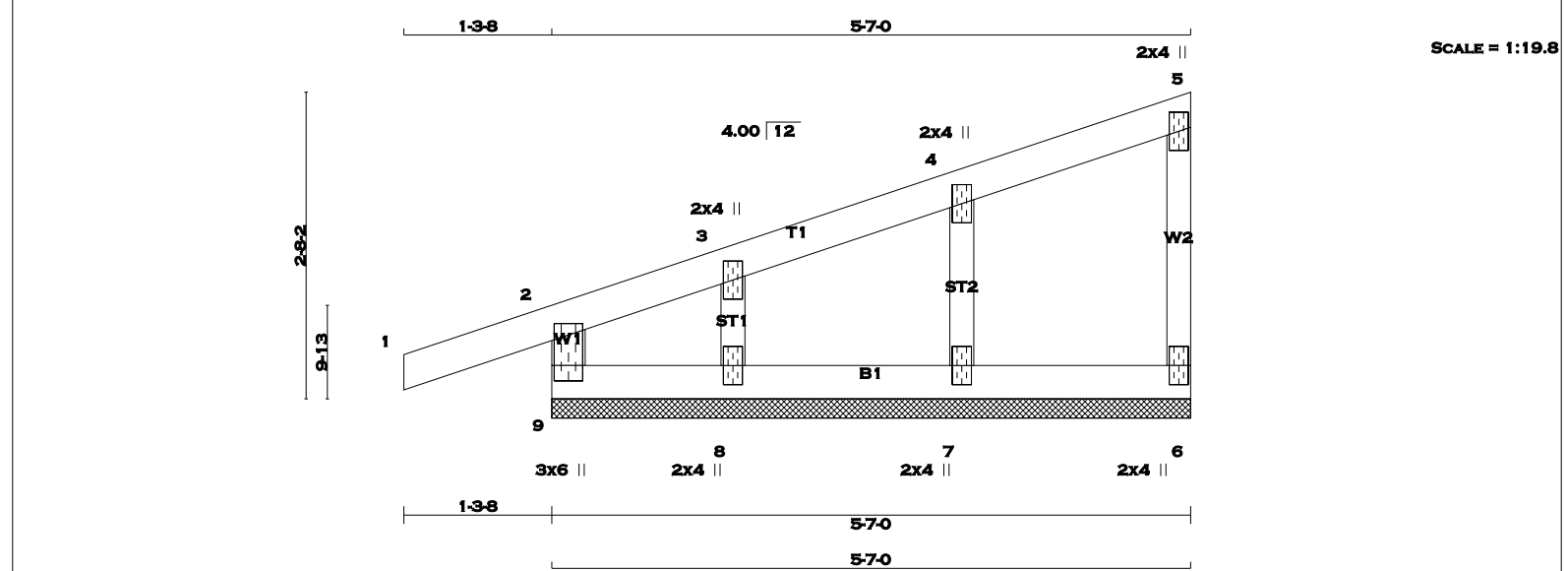
JSI GRIP= 0.13 (6) (INPUT = 0.90)
JSI METAL= 0.07 (6) (INPUT = 1.00)

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 = 19 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	2x3	DRY	No.2	SPF
9 - 6	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
ALL GABLE WEBS				
	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				
GABLE STUDS SPACED AT 2-0-0 OC.				

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

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)	LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED UNBRAC LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
9-2	-194 / 0	0.0	0.0 0.03 (1)	7-8	-180 / 0	0.03 (1)	
1-2	0 / 16	-77.3	-77.3 0.10 (1)	8-3	-97 / 0	0.01 (1)	
2-3	-22 / 0	-77.3	-77.3 0.07 (1)				
3-4	-5 / 0	-77.3	-77.3 0.05 (1)				
4-5	-8 / 0	-77.3	-77.3 0.05 (1)				
6-5	-64 / 0	0.0	0.0 0.02 (1)				
9-8	0 / 13	-17.5	-17.5 0.03 (1)				
8-7	0 / 8	-17.5	-17.5 0.02 (4)				
7-6	0 / 3	-17.5	-17.5 0.02 (4)				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 23.3 PSF
DL = 3.0 PSF

BOT CH. LL = 0.0 PSF
DL = 7.0 PSF

TOTAL LOAD = 33.3 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

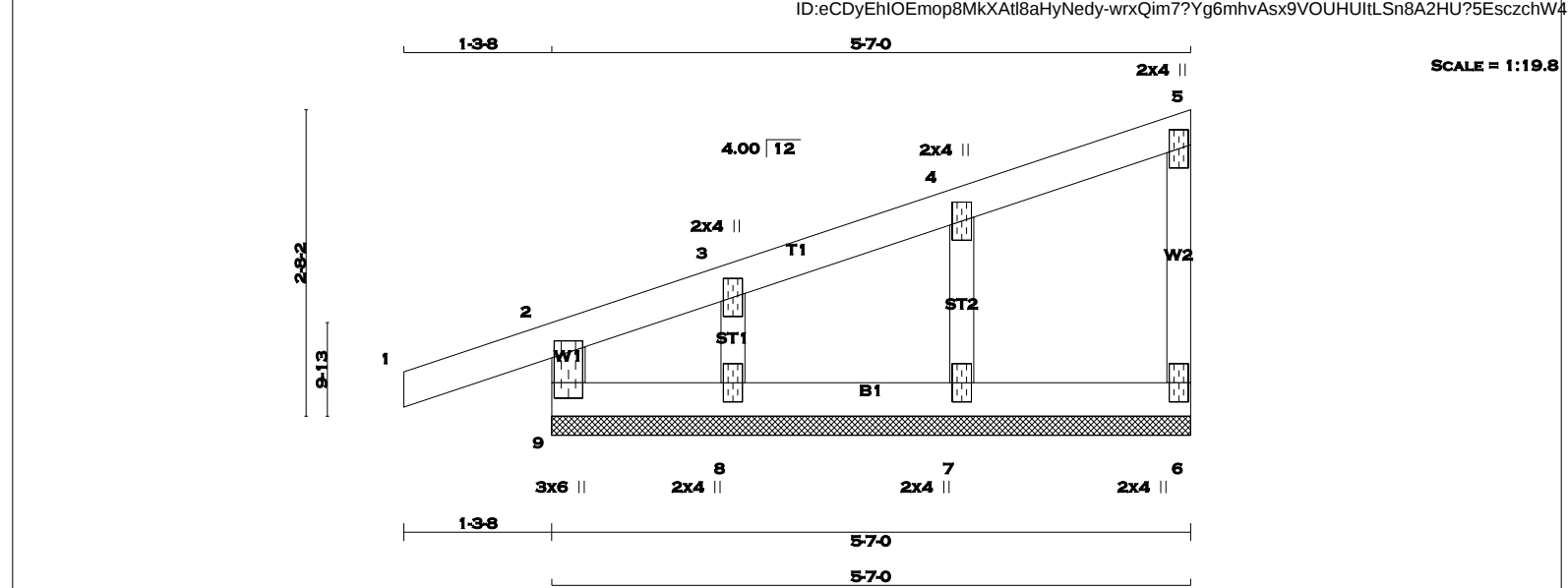
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

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TOTAL WEIGHT = 2 X 19 = 37 lb [M]

<u>LUMBER</u>				
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	2x3	DRY	No.2	SPF
9 - 6	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
ALL GABLE WEBS				
	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				
GABLE STUDS SPACED AT 2-0-0 OC.				

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2						
3	TMW+w	MT20	2.0	4.0		
4	TMW+w	MT20	2.0	4.0		
5	TMV+p	MT20	2.0	4.0		
6	BMV1+p	MT20	2.0	4.0		
7	BMV1+w	MT20	2.0	4.0		
8	BMV1+w	MT20	2.0	4.0		
9						
9	TMBMV1+p	MT20	3.0	6.0	3.50	1.50

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

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED UNBRAC LENGTH (LC)	MAX CSI (LC)
FR-TO		FROM TO		FR-TO			
9-2	-194 / 0	0.0	0.0 0.03 (1)	7-8	-180 / 0	0.03 (1)	
1-2	0 / 16	-77.3	-77.3 0.10 (1)	8-3	-97 / 0	0.01 (1)	
2-3	-22 / 0	-77.3	-77.3 0.07 (1)				
3-4	-5 / 0	-77.3	-77.3 0.05 (1)				
4-5	-8 / 0	-77.3	-77.3 0.05 (1)				
6-5	-64 / 0	0.0	0.0 0.02 (1)				
9-8	0 / 13	-17.5	-17.5 0.03 (1)				
8-7	0 / 8	-17.5	-17.5 0.02 (4)				
7-6	0 / 3	-17.5	-17.5 0.02 (4)				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

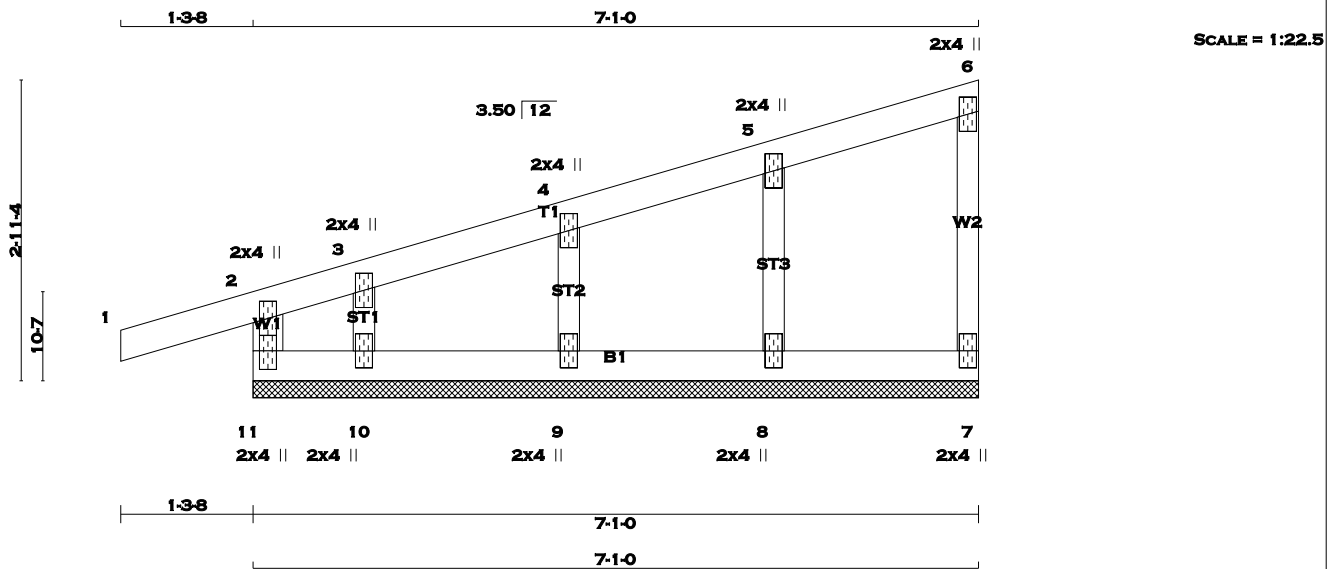
JSI GRIP= 0.17 (9) (INPUT = 0.90)
JSI METAL= 0.03 (7) (INPUT = 1.00)

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 = 23 lb [M]

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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
3, 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.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX UNBRACED LENGTH	FACTORED 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 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)

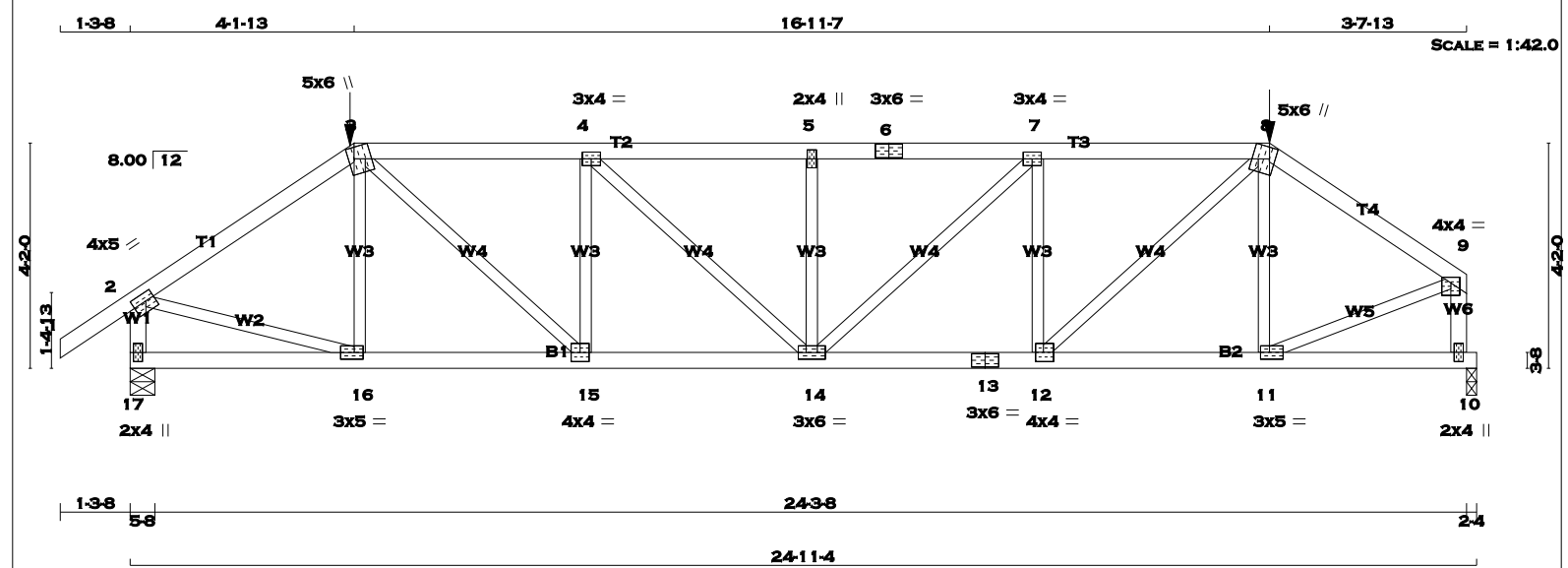
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TOTAL WEIGHT = 4 X 101 = 406 lb [M]

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
8 - 9	2x4	DRY	No.2
17 - 2	2x4	DRY	No.2
10 - 9	2x4	DRY	No.2
17 - 13	2x4	DRY	No.2
13 - 10	2x4	DRY	No.2

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
1-3	12	SIDE(0.0)
3-6	12	SIDE(34.2)
6-8	12	SIDE(34.2)
8-9	12	SIDE(0.0)
17-2	12	TOP
10-9	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
17-13	12	SIDE(8.7)
13-10	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	TMVW-t	MT20	4.0	5.0	1.75 2.00

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.



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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT	VERT	JT	HORZ	JT	UPLIFT	JT	IN-SX
17	2274	0	2274	0	0	5-8	5-8
10	2188	0	2188	0	0	2-4	2-4

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS	
JT	COMBINED	JT	SNOW
17	1594	1123	0
10	1536	1071	0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 17, 10

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.65 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 (LBS)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)	UNBRACED LENGTH
FR-TO		FROM	TO	FR-TO		FROM	TO
1-2	0 / 29	-77.3	-77.3	0.06 (1)	10.00	16-3	-377 / 21
2-3	-2540 / 0	-77.3	-77.3	0.16 (1)	5.52	3-15	0 / 1684
3-4	-3351 / 0	-145.8	-145.8	0.25 (1)	4.84	15-4	-994 / 0
4-5	-3678 / 0	-145.8	-145.8	0.26 (1)	4.66	4-14	0 / 445
5-6	-3678 / 0	-145.8	-145.8	0.26 (1)	4.65	14-5	-562 / 0
6-7	-3678 / 0	-145.8	-145.8	0.26 (1)	4.65	14-7	0 / 583
7-8	-3250 / 0	-145.8	-145.8	0.25 (1)	4.91	12-7	-1088 / 0
8-9	-2298 / 0	-77.3	-77.3	0.12 (1)	5.79	12-8	0 / 1826
17-2	-2217 / 0	0.0	0.0	0.13 (1)	7.49	11-8	-569 / 0
10-9	-2140 / 0	0.0	0.0	0.13 (1)	7.59	2-16	0 / 2177
						11-9	0 / 2039
17-16	0 / 0	-33.0	-33.0	0.08 (4)	10.00		
16-15	0 / 2100	-33.0	-33.0	0.23 (1)	10.00		
15-14	0 / 3351	-33.0	-33.0	0.33 (1)	10.00		
14-13	0 / 3250	-33.0	-33.0	0.32 (1)	10.00		
13-12	0 / 3250	-33.0	-33.0	0.32 (1)	10.00		
12-11	0 / 1893	-33.0	-33.0	0.21 (1)	10.00		
11-10	0 / 0	-33.0	-33.0	0.07 (4)	10.00		

FACTORED CONCENTRATED LOADS (LBS)

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

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 = 4-1-13
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
- 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 (0.82")
CALCULATED VERT. DEFL.(LL)= L/999 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (0.82")
CALCULATED VERT. DEFL.(TL)= L/999 (0.13")

CSI: TC=0.26 (5-7:1), BC=0.33 (14-15:1), WB=0.27 (2-16:1), SSI=0.16 (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.

JSI GRIP= 0.90 (16) (INPUT = 0.90)
JSI METAL= 0.43 (13) (INPUT = 1.00)

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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-p	MT20	4.0	4.0	1.25	2.00
10	BMV1+p	MT20	2.0	4.0		
11	BMWW-t	MT20	3.0	5.0	1.50	2.00
12	BMWW-t	MT20	4.0	4.0	2.00	1.75
13	BS-t	MT20	3.0	6.0		
14	BMWWW-t	MT20	3.0	6.0		
15	BMWW-t	MT20	4.0	4.0		
16	BMWW-t	MT20	3.0	5.0	1.50	2.00
17	BMV1+p	MT20	2.0	4.0		

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

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

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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JSI GRIP= 0.89 (2) (INPUT = 0.90)
JSI METAL= 0.68 (8) (INPUT = 1.00)

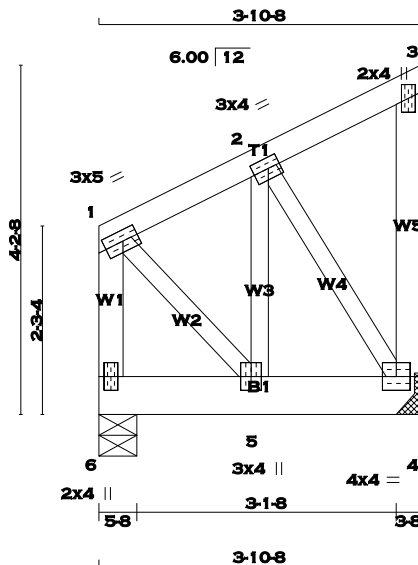
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SCALE = 1:27.8

TOTAL WEIGHT = 2 X 24 = 48 lb [M]

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

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	3.0	5.0	1.50	2.25
2	TMVW-t	MT20	3.0	4.0	1.50	1.75
3	TMV+p	MT20	2.0	4.0		
4	BMVW1-t	MT20	4.0	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 GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
4		701	0	701	0	0	HANGER BY OTHERS		
6		701	0	701	0	0	MIN. SEAT SIZE: 3-8	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
4	492	344 / 0	0 / 0	0 / 0	0 / 0	148 / 0	0 / 0	
6	492	344 / 0	0 / 0	0 / 0	0 / 0	148 / 0	0 / 0	

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		MEMB.		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX. (LC)	MAX. UNBRACED LENGTH	FR-TO	MEMB.	FORCE (LBS)	MAX. (LC)	
1-2	-291 / 0	-77.3	-77.3	0.04 (1)	6.25	5-2	0 / 346	0.09 (1)	
2-3	-6 / 0	-77.3	-77.3	0.04 (1)	10.00	2-4	-473 / 0	0.10 (1)	
4-3	-61 / 0	0.0	0.0	0.02 (1)	7.81	1-5	0 / 371	0.09 (1)	
6-1	-452 / 0	0.0	0.0	0.06 (1)	7.81				
6-5	0 / 0	-284.3	-284.3	0.08 (1)	10.00				
5-4	0 / 266	-284.3	-284.3	0.11 (1)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C

GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 13-8-8
END DISTANCE = 3-10-8
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 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.06 (1-6:1) , BC=0.11 (4-5:1) , WB=0.10 (2-4:1) , SSI=0.20 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.76 (1) (INPUT = 0.90)
JSI METAL= 0.15 (5) (INPUT = 1.00)

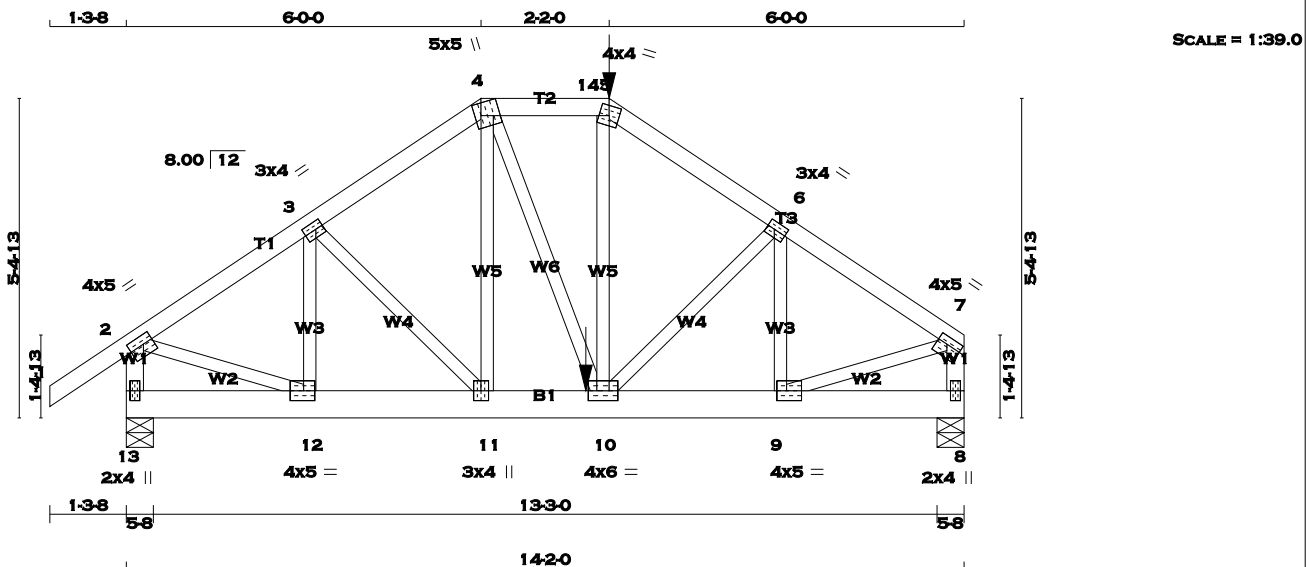
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TOTAL WEIGHT = 2 X 75 = 151 lb [M]

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

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

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

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	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 COMBINED		MAX/MIN. SNOW		LIVE		PERM.LIVE	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
13		867	629 / 0	0 / 0	0 / 0	0 / 0	0 / 0	238 / 0	0 / 0
8		941	644 / 0	0 / 0	0 / 0	0 / 0	0 / 0	297 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.26 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING									
TOTAL LOAD CASES: (4)									
		CHORDS			WEBS				
		MAX. FACTORED	FACTORED		MAX. FACTORED	FACTORED			
MEMB.		FORCE (LBS)	VERT. LOAD (LBS)	LC1 MAX (PLF)	MEMB.	FORCE (LBS)	MAX. UNBRACED LENGTH (LC)		
FR-TO			FROM	TO	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 MIN
MT20 618 354 1667 822 2284 1656

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)

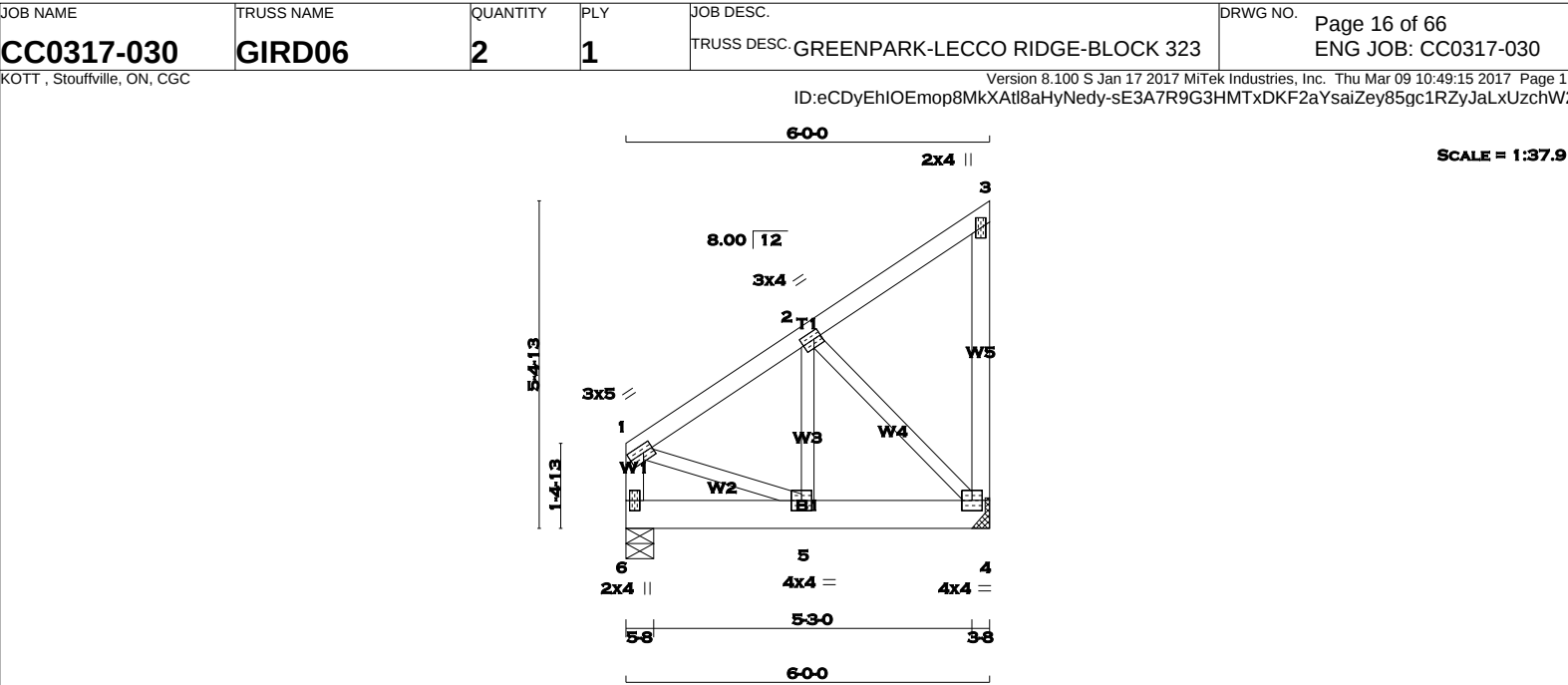
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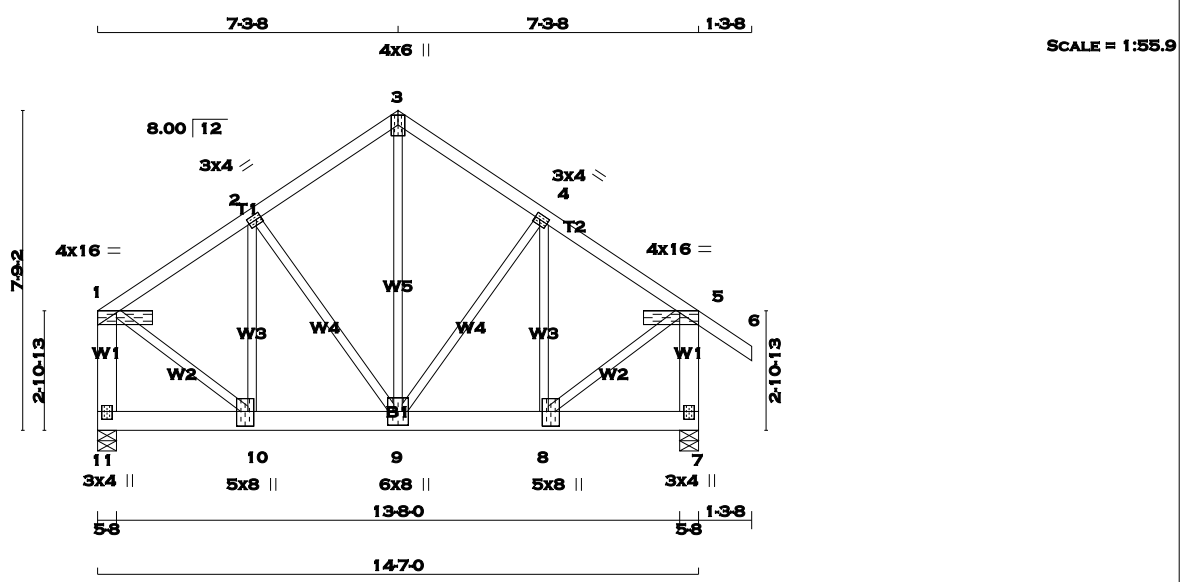


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TOTAL WEIGHT = 2 X 86 = 172 lb [M]

LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 6	2x4	DRY	No.2	SPF
11 - 1	2x6	DRY	No.2	SPF
7 - 5	2x6	DRY	No.2	SPF
11 - 7	2x6	DRY	No.2	SPF

ALL WEBS 2x3 DRY No.2 SPF EXCEPT

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
1-3	12	TOP
3-6	12	TOP
11-1	12	TOP
7-5	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
11-7	6	SIDE(388.3)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
1	TMVW-p	MT20	4.0	16.0	0.50 Edge
2	TMWW-t	MT20	3.0	4.0	1.50 1.50
3	TTW+p	MT20	4.0	6.0	Edge
4	TMWW-t	MT20	3.0	4.0	1.50 1.50
5	TMVW-p	MT20	4.0	16.0	Edge 5.50
7	BMV1+p	MT20	3.0	4.0	2.25 1.50
8	BMWW+t	MT20	5.0	8.0	4.25 1.75
9	BMWWW+t	MT20	6.0	8.0	
10	BMWW+t	MT20	5.0	8.0	4.25 1.75
11	BMV1+p	MT20	3.0	4.0	2.25 1.50

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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
11	6354	0	6354	0	0	5-8	5-8
7	6460	0	6460	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX/MIN. SNOW	MAX/MIN. LIVE	MAX/MIN. PERM.LIVE	WIND	DEAD	SOIL
11	4459	3119 / 0	0 / 0	0 / 0	0 / 0	1340 / 0	0 / 0
7	4531	3183 / 0	0 / 0	0 / 0	0 / 0	1348 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.41 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. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	
FR-TO		FROM TO		FR-TO			
1-2	-4486 / 0	-77.3 -77.3	0.16 (1)	4.41	9-3	0 / 4088	0.51 (1)
2-3	-3909 / 0	-77.3 -77.3	0.13 (1)	4.70	9-4	-857 / 0	0.28 (1)
3-4	-3909 / 0	-77.3 -77.3	0.13 (1)	4.70	8-4	0 / 713	0.09 (1)
4-5	-4486 / 0	-77.3 -77.3	0.16 (1)	4.41	2-9	-858 / 0	0.28 (1)
5-6	0 / 29	-77.3 -77.3	0.06 (1)	10.00	10-2	0 / 713	0.09 (1)
11-1	-5111 / 0	0.0 0.0	0.26 (1)	6.45	1-10	0 / 4493	0.56 (1)
7-5	-5217 / 0	0.0 0.0	0.27 (1)	6.39	8-5	0 / 4493	0.56 (1)
11-10	0 / 0	-794.1 -794.1	0.36 (1)	10.00			
10-9	0 / 3740	-794.1 -794.1	0.58 (1)	10.00			
9-8	0 / 3740	-794.1 -794.1	0.58 (1)	10.00			
8-7	0 / 0	-794.1 -794.1	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/C

GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 35-2-8
END DISTANCE = 14-7-0
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 (0.49")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.49")
CALCULATED VERT. DEFL.(TL) = L/999 (0.08")

CSI: TC=0.27 (5-7:1), BC=0.58 (9-10:1), WB=0.56 (1-10:1), SSI=0.58 (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)
				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 (3) (INPUT = 0.90)
JSI METAL= 0.49 (10) (INPUT = 1.00)



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JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
CC0317-030	GIRD11	1	2	TRUSS DESC. GREENPARK-LECCO RIDGE-BLOCK 323	Page 18 of 66 ENG JOB: CC0317-030

KOTT , Stouffville, ON, CGC

Version 8.100 S Jan 17 2017 MiTek Industries, Inc. Thu Mar 09 10:49:16 2017 Page 2

ID:eCDyEhIOEmop8MkXAtl8aHyNedy-KQdZLnAugbUKYNvRcI356v6mTYKuLOVjAzJvTxzchW1

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.

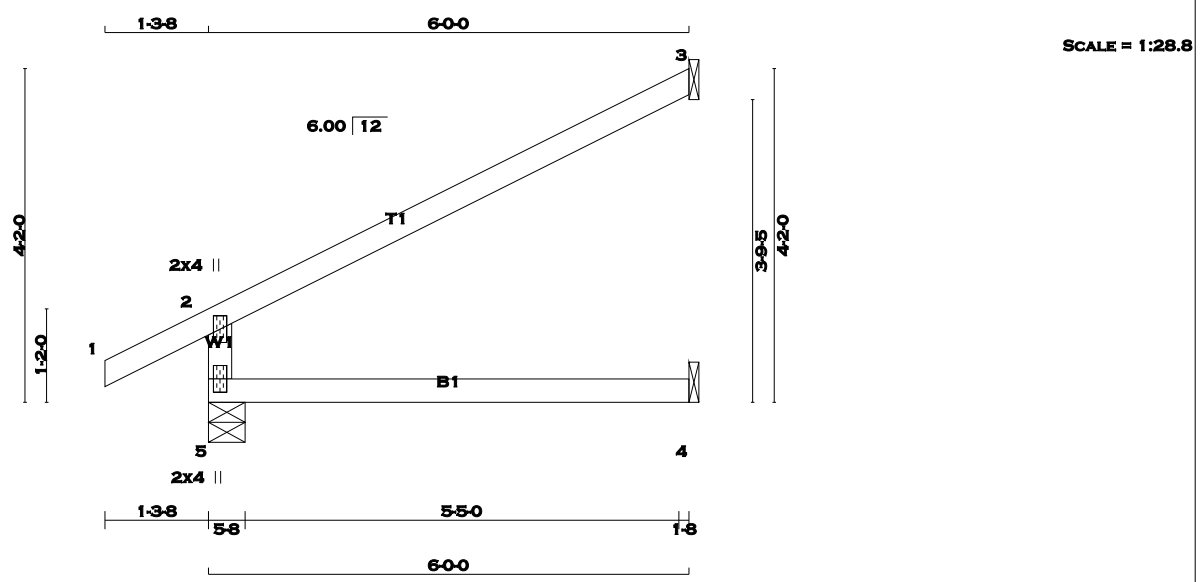
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TOTAL WEIGHT = 24 X 17 = 410 lb [M]

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

DRY: SEASONED LUMBER.

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

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
5	457	0	457	0	0	5-8	5-8	
3	174	0	174	0	0	1-8	1-8	
4	43	0	49	0	0	1-8	1-8	

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

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
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		WEBS		FACTORED	
	MAX. FACTORED	FORCE	VERT. LOAD	LC1 MAX	MAX. UNBRAC	MEMB.	FORCE	MAX
		(LBS)	(PLF)	CSI (LC)	LENGTH		(LBS)	CSI (LC)
FR-TO			FROM	TO	FR-TO			
5-2	-395 / 0		0.0	0.0 0.13 (4)	7.81			
1-2	0 / 23		-77.3	-77.3 0.10 (1)	10.00			
2-3	-26 / 0		-77.3	-77.3 0.47 (1)	6.25			
5-4	0 / 0		-17.5	-17.5 0.13 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")

CSI: TC=0.47 (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.

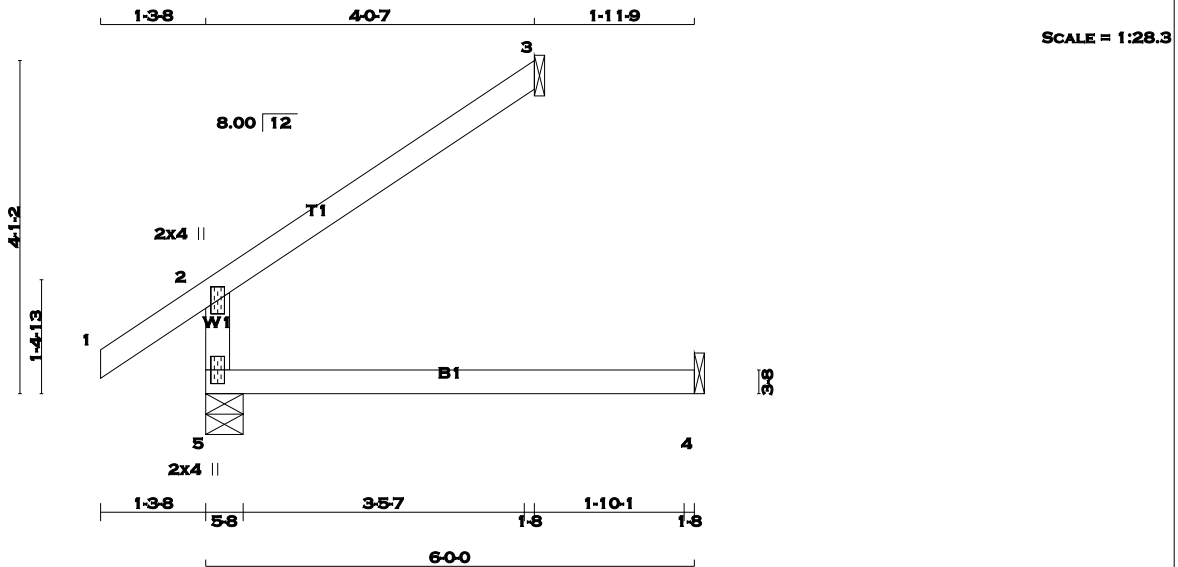
JSI GRIP= 0.23 (2) (INPUT = 0.90)
JSI METAL= 0.09 (2) (INPUT = 1.00)

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

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
5	362	0	362	0	0	5-8	5-8	
3	117	0	117	0	0	1-8	1-8	
4	44	0	49	0	0	1-8	1-8	

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

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS					DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND				
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		WEBS		FACTORED	
	MAX. FACTORED	FORCE	VERT. LOAD	LC1 MAX	MAX. UNBRAC	MEMB. FORCE	MAX. UNBRAC	MEMB. FORCE
	(LBS)	(LBS)	(PLF)	CSI (LC)	LENGTH	(LBS)	CSI (LC)	(LBS)
FR-TO			FROM 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	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= 0.19 (2) (INPUT = 0.90)
JSI METAL= 0.07 (2) (INPUT = 1.00)

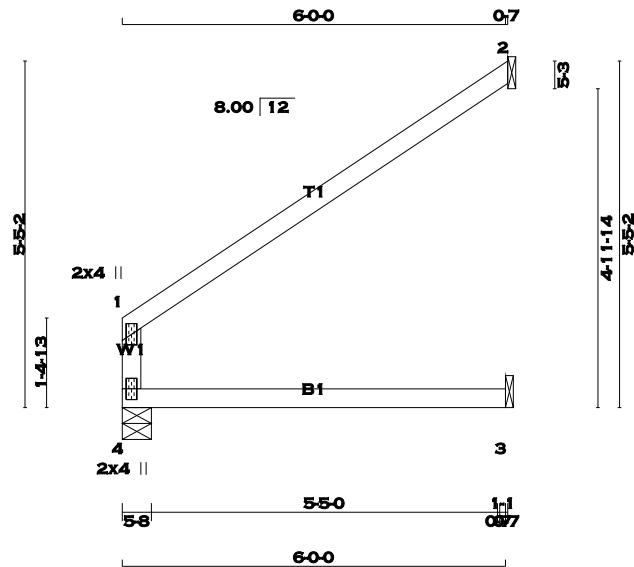
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TOTAL WEIGHT = 2 X 16 = 33 lb [M][F]

LUMBER				
N. L. G. A. RULES	SIZE	LUMBER	DESCR.	SPF
CHORDS	SIZE			
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 MIKE 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
4	286	0	286	0	5-8
2	213	0	213	0	1-8
3	74	0	74	0	1-8

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
4	201	140 / 0	0 / 0	0 / 0	0 / 0	60 / 0	0 / 0
2	145	125 / 0	0 / 0	0 / 0	0 / 0	20 / 0	0 / 0
3	56	16 / 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)

CHORDS		FACTORED		WEBS	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	MEMB.	FORCE (LBS)
FR-TO		FROM TO	LENGTH	FR-TO	
4-1	-254 / 0	0.0	0.0 0.15 (1)	7.81	
1-2	-12 / 1	-77.3	-77.3 0.41 (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/ 622 (0.12")

CSI: TC=0.41 (1-2:1) , BC=0.21 (3-4:1) , WB=0.00 (n/a:0) , SSI=0.17 (1-2:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.16 (1) (INPUT = 0.90)
JSI METAL= 0.06 (1) (INPUT = 1.00)

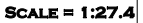
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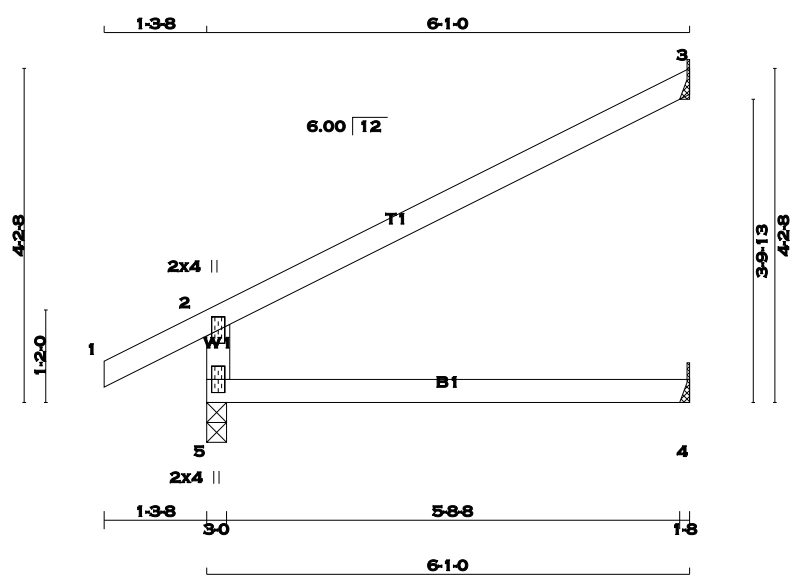


[M][F]

DRY: SEASONED LUMBER.

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





TOTAL WEIGHT = 10 X 17 = 173 lb
[M][F]

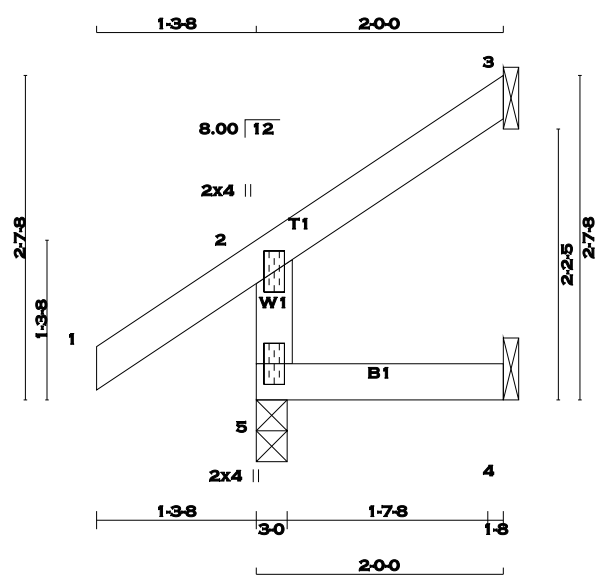
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. LUMBER DESCR. 5 - 2 2x4 DRY No.2 SPF 1 - 3 2x4 DRY No.2 SPF 5 - 4 2x4 DRY No.2 SPF DRY: SEASONED LUMBER.				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT REQD BRG BRG JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX 5 462 0 462 0 0 3-0 3-0 3 176 0 176 0 0 HANGER BY OTHERS 4 44 0 49 0 0 MIN. SEAT SIZE: 1-8 HANGER BY OTHERS MIN. SEAT SIZE: 1-8 BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): 3 UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 5 321 240 / 0 0 / 0 0 / 0 0 / 0 81 / 0 0 / 0 3 120 106 / 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) CHORDS WEBS MAX. FACTORED FORCE VERT. LOAD LC1 MAX. MAX. MEMB. MAX. FACTORED MEMB. (LBS) (PLF) CSI (LC) UNBRAC LENGTH FR-TO (LBS) CSI (LC) FR-TO FROM TO 5-2 -399 / 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 0.37 (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=0.37 (2-3:1) , BC=0.13 (4-5:4) , WB=0.00 (n/a:0) , SSI=0.21 (2-3:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) 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)			
--	--	--	--	--	--	--	--	---	--	--	--

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SCALE = 1:18.6

TOTAL WEIGHT = 6 X 8 = 48 lb [M]

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

		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX	IN-SX	IN-SX
5		222	0	222	0	0	3-0	3-0	
3		58	0	58	0	0	1-8	1-8	
4		16	0	18	0	0	1-8	1-8	

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

UNFACTORED REACTIONS							
JT	1ST LCASE	SNOW	LIVE	PERM.	LIVE	WIND	DEAD
5	153	122 / 0	0 / 0	0 / 0	0 / 0	0 / 0	31 / 0
3	40	35 / 0	0 / 0	0 / 0	0 / 0	0 / 0	5 / 0
4	13	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	13 / 0

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

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

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

LOADING				TOTAL LOAD CASES: (5)			
CHORDS		FACTORED		MEMB.		FACTORED	
MAX. FACTORED	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	MEMB.	FORCE (LBS)	MAX. FACTORED	FORCE (LBS)
FR-TO		FROM TO	LENGTH	FR-TO			
5-2	-202 / 0	0.0	0.0 0.01 (4)	7.81			
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00			
2-3	-10 / 0	-77.3	-77.3 0.05 (1)	6.25			
5-4	0 / 0	-17.5	-17.5 0.02 (4)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

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

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

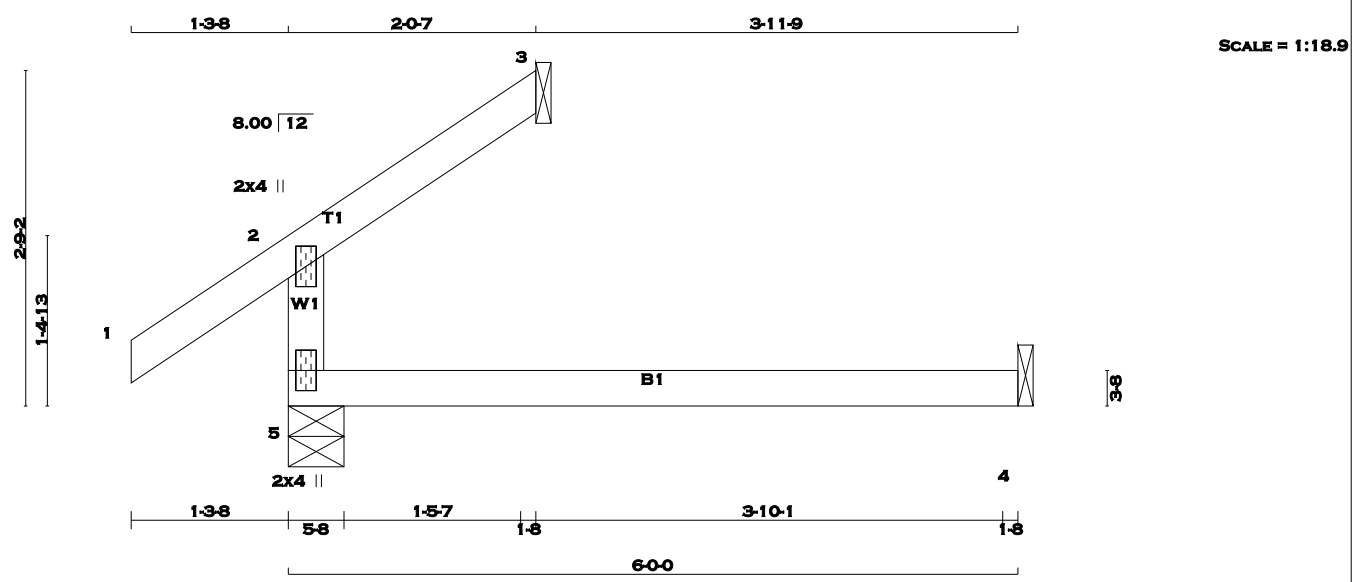
JSI GRIP= 0.13 (2) (INPUT = 0.90)
JSI METAL= 0.05 (2) (INPUT = 1.00)

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

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

UNFACTORED REACTIONS							
JT	1ST LCASE		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)							
MEMB.	CHORDS		FACTORED		WEBS		
	MAX. FACTORED	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRAC	MEMB. FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO			FROM TO		LENGTH	FR-TO	
5-2	-204 / 0		0.0	0.0	0.12 (4)	7.81	
1-2	0 / 29		-77.3	-77.3	0.10 (1)	10.00	
2-3	-11 / 0		-77.3	-77.3	0.05 (1)	6.25	
5-4	0 / 0		-17.5	-17.5	0.13 (4)	10.00	

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")

CSI: TC=0.12 (2-5:4) , BC=0.13 (4-5:4) , WB=0.00 (n/a:0) , SSI=0.08 (4-5:4)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

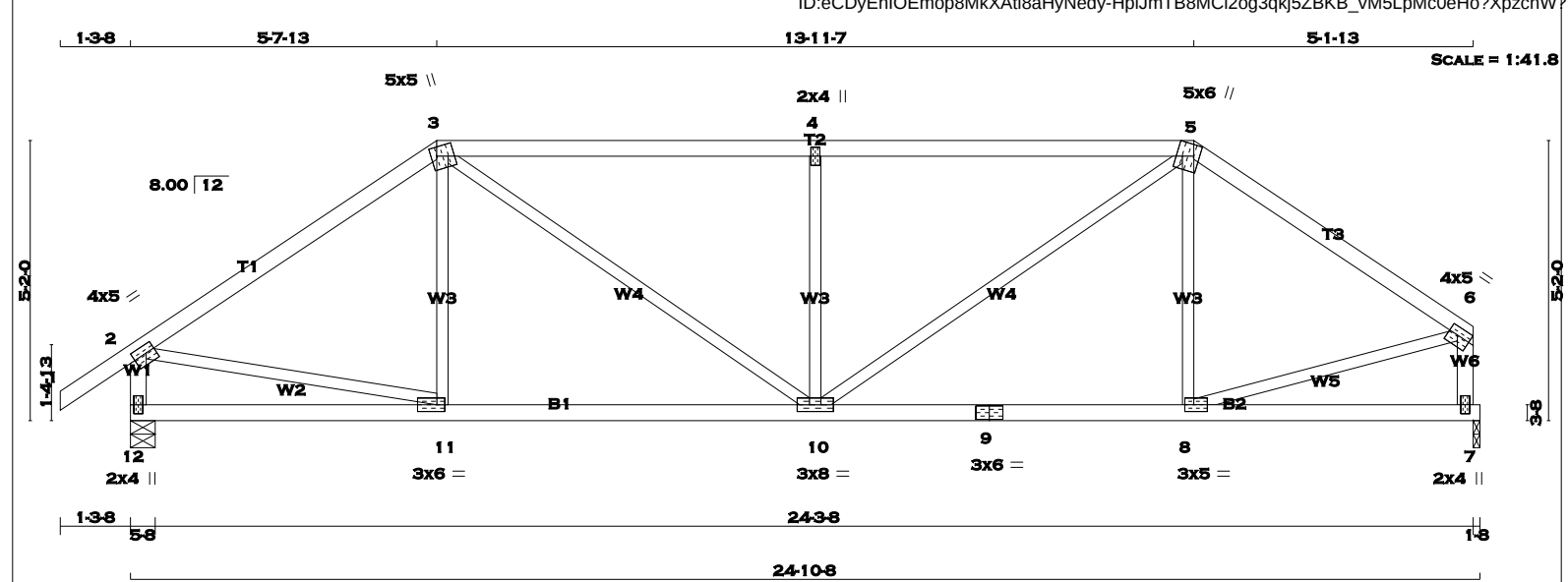
JSI GRIP= 0.13 (2) (INPUT = 0.90)
JSI METAL= 0.05 (2) (INPUT = 1.00)

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.



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TOWN OF MILTON
MAR 29, 2017
17-4949
BUILDING DIVISION





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 EXCEPT

2x3

DRY

No.2

SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT

TYPE

PLATES

W

LEN

Y

X

2

TMVW-t

MT20

4.0

5.0

1.75

2.00

3

TTWW+m

MT20

5.0

5.0

2.00

1.25

4

TMW+w

MT20

2.0

4.0

5

TTWW+m

MT20

5.0

6.0

Edge

3.75

6

TMVW-t

MT20

4.0

5.0

1.75

Edge

7

BMV1+p

MT20

2.0

4.0

8

BMWW-t

MT20

3.0

5.0

1.50

2.00

9

BS-t

MT20

3.0

6.0

10

BMWW-t

MT20

3.0

8.0

11

BMWW-t

MT20

3.0

6.0

1.50

1.75

12

BMV1+p

MT20

2.0

4.0

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

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

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

09 MAR 2017

RECEIVED

TOWN OF MILTON

MAR 29, 2017

17-4949

BUILDING DIVISION

KOTT

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

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

11- 3

-77 / 76

0.03 (1)

2- 3

-1287 / 0

-77.3

-77.3

0.51 (1)

5.04

3-10

0 / 641

0.14 (1)

3- 4

-1594 / 0

-77.3

-77.3

0.78 (1)

4.14

10- 4

-663 / 0

0.26 (1)

4- 5

-1594 / 0

-77.3

-77.3

0.78 (1)

4.14

10- 5

0 / 725

0.16 (1)

5- 6

-1206 / 0

-77.3

-77.3

0.41 (1)

5.31

8- 5

-150 / 50

0.06 (1)

12- 2

-1241 / 0

0.0

0.0

0.13 (1)

7.20

2-11

0 / 1088

0.24 (1)

7- 6

-1140 / 0

0.0

0.0

0.12 (1)

7.45

8- 6

0 / 1038

0.23 (1)

12-11

0 / 0

-17.5

-17.5

0.16 (4)

10.00

11-10

0 / 1068

-17.5

-17.5

0.26 (1)

10.00

10- 9

0 / 999

-17.5

-17.5

0.25 (1)

10.00

9- 8

0 / 999

-17.5

-17.5

0.25 (1)

10.00

8- 7

0 / 0

-17.5

-17.5

0.15 (4)

10.00

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

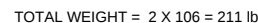
MT20 618 354 1667 822 2284 1656

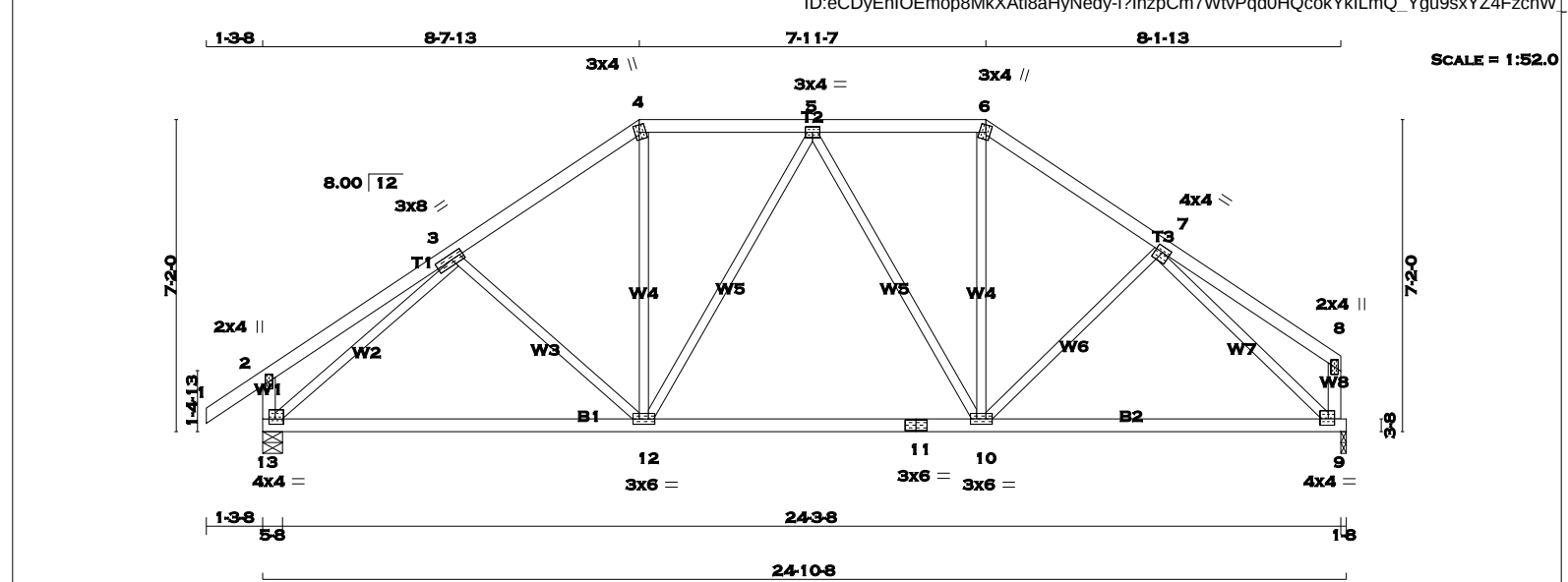
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL= 0.44 (2) (INPUT = 1.00)





TOTAL WEIGHT = 2 X 106 = 213 lb
[M][F]

LUMBER				DESCR.	
N. L. G. A. RULES		LUMBER	SIZE	SPF	DRY
CHORDS	SIZE				
1 - 4	2x4	DRY	No.2	SPF	
4 - 6	2x4	DRY	No.2	SPF	
6 - 8	2x4	DRY	No.2	SPF	
13 - 2	2x4	DRY	No.2	SPF	
9 - 8	2x4	DRY	No.2	SPF	
13 - 11	2x4	DRY	No.2	SPF	
11 - 9	2x4	DRY	No.2	SPF	
ALL WEBS EXCEPT		2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.					

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
3	TMVW-t	MT20	3.0	8.0	1.50	3.50
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	4.0	4.0	1.50	2.00
8	TMV+p	MT20	2.0	4.0		
9	BMVW1-t	MT20	4.0	4.0	1.75	1.75
10	BMVW-t	MT20	3.0	6.0		
11	BS-t	MT20	3.0	6.0		
12	BMVW-t	MT20	3.0	6.0		
13	BMVW1-t	MT20	4.0	4.0	1.50	1.75
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		
13	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
13	896	640 / 0	0 / 0	0 / 0	0 / 0	256 / 0	0 / 0
9	824	576 / 0	0 / 0	0 / 0	0 / 0	248 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 13, 9

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.64 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

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

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 (0.18")

CSI: TC=0.23 (2-3:1), BC=0.37 (10-12:4), WB=0.84 (3-13:1), 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 (PSI)		SECTION (PLI)	
		MAX	MIN	MAX	MIN	MAX	MIN
MT20		618	354	1667	822	2284	1656

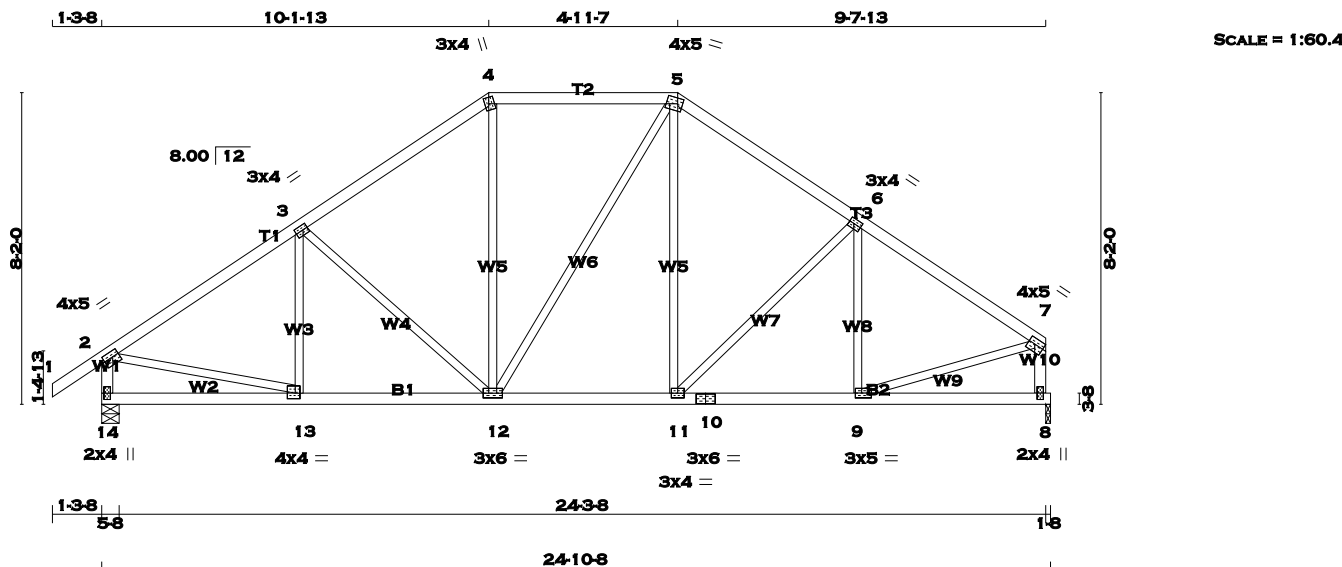
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (3) (INPUT = 0.90)
JSI METAL= 0.51 (7) (INPUT = 1.00)

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TOWN OF MILTON
MAR 29, 2017
17-4949
BUILDING DIVISION





TOTAL WEIGHT = 2 X 111 = 222 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	TTW+m	MT20	3.0	4.0	2.00 1.25
5	TTW+m	MT20	4.0	5.0	1.75 1.50
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	4.0	
12	BMVW-t	MT20	3.0	6.0	
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	0	5-8	5-8	
8		1174	0	1174	0	0	1-8	1-8	
UNFACTORED REACTIONS									
		1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
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 = 5.33 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING									
TOTAL LOAD CASES: (4)									
CHORDS					WEBS				
MEMB.		MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)	
FR-TO			FROM TO	TO	FR-TO		FROM TO	TO	
1-2		0 / 29	-77.3	-77.3 0.10 (1)	10.00	13-3	-137 / 44	0.05 (1)	
2-3		-1322 / 0	-77.3	-77.3 0.28 (1)	5.33	3-12	-303 / 0	0.26 (1)	
3-4		-1104 / 0	-77.3	-77.3 0.27 (1)	5.71	12-4	0 / 264	0.06 (1)	
4-5		-899 / 0	-77.3	-77.3 0.25 (1)	6.18	12-5	0 / 29	0.01 (1)	
5-6		-1085 / 0	-77.3	-77.3 0.24 (1)	5.79	11-5	0 / 236	0.05 (1)	
6-7		-1224 / 0	-77.3	-77.3 0.25 (1)	5.52	11-6	-222 / 0	0.19 (1)	
14-2		-1242 / 0	0.0	0.0 0.13 (1)	7.20	9-6	-205 / 20	0.08 (1)	
8-7		-1137 / 0	0.0	0.0 0.12 (1)	7.45	2-13	0 / 1145	0.26 (1)	
						9-7	0 / 1081	0.24 (1)	
14-13		0 / 0	-17.5	-17.5 0.11 (4)	10.00				
13-12		0 / 1121	-17.5	-17.5 0.23 (1)	10.00				
12-11		0 / 883	-17.5	-17.5 0.19 (1)	10.00				
11-10		0 / 1039	-17.5	-17.5 0.21 (1)	10.00				
10-9		0 / 1039	-17.5	-17.5 0.21 (1)	10.00				
9-8		0 / 0	-17.5	-17.5 0.10 (4)	10.00				

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

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

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

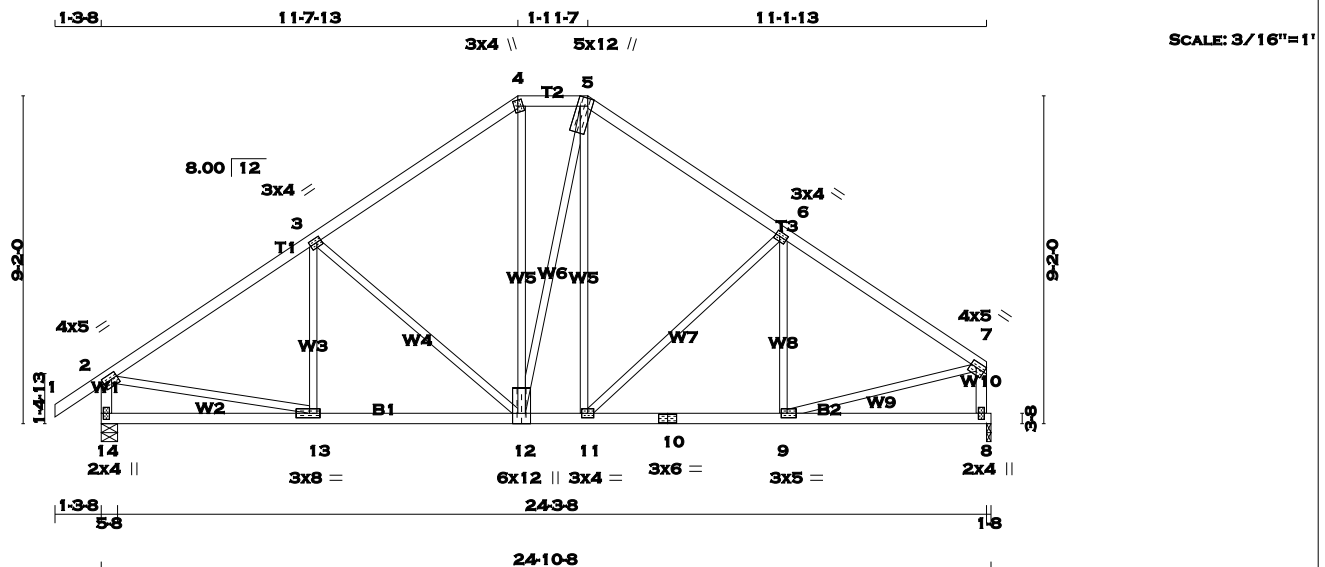
JSI GRIP= 0.89 (9) (INPUT = 0.90)
JSI METAL= 0.45 (2) (INPUT = 1.00)

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

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMVW-t	MT20	4.0	5.0	1.75 2.00
3	TMVW-t	MT20	3.0	4.0	1.50 1.50
4	TTW+m	MT20	3.0	4.0	2.00 1.25
5	TTW+m	MT20	5.0	12.0	Edge 1.50
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	4.0	
12	BMVW+t	MT20	6.0	12.0	Edge
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	SNOW	LIVE	PERM.LIVE	WIND	DEAD
14	896	640 / 0	0 / 0	0 / 0	0 / 0	0 / 0	256 / 0
8	824	576 / 0	0 / 0	0 / 0	0 / 0	0 / 0	248 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.19 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.

LOADING				TOTAL LOAD CASES: (4)			
CHORDS		WEBS		CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED HORZ. LOAD (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED HORZ. LOAD (LBS)
FR-TO		FROM	TO	FR-TO		FROM	TO
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	13-3	-91 / 72	0.04 (1)
2-3	-1323 / 0	-77.3	-77.3 0.38 (1)	5.19	3-12	-406 / 0	0.49 (1)
3-4	-1018 / 0	-77.3	-77.3 0.36 (1)	5.76	12-4	0 / 308	0.07 (1)
4-5	-821 / 0	-77.3	-77.3 0.04 (1)	6.25	12-5	0 / 32	0.01 (1)
5-6	-1005 / 0	-77.3	-77.3 0.32 (1)	5.83	11-5	0 / 278	0.06 (1)
6-7	-1238 / 0	-77.3	-77.3 0.34 (1)	5.38	11-6	-333 / 0	0.39 (1)
14-2	-1237 / 0	0.0	0.0 0.13 (1)	7.22	9-6	-149 / 52	0.07 (1)
8-7	-1133 / 0	0.0	0.0 0.12 (1)	7.46	2-13	0 / 1144	0.26 (1)
					9-7	0 / 1086	0.24 (1)
14-13	0 / 0	-17.5	-17.5 0.15 (4)	10.00			
13-12	0 / 1125	-17.5	-17.5 0.25 (1)	10.00			
12-11	0 / 814	-17.5	-17.5 0.18 (1)	10.00			
11-10	0 / 1054	-17.5	-17.5 0.24 (1)	10.00			
10-9	0 / 1054	-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 (0.08")

CSI: TC=0.38 (2-3:1), BC=0.25 (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
MT20	618	354	1667	822	2284

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

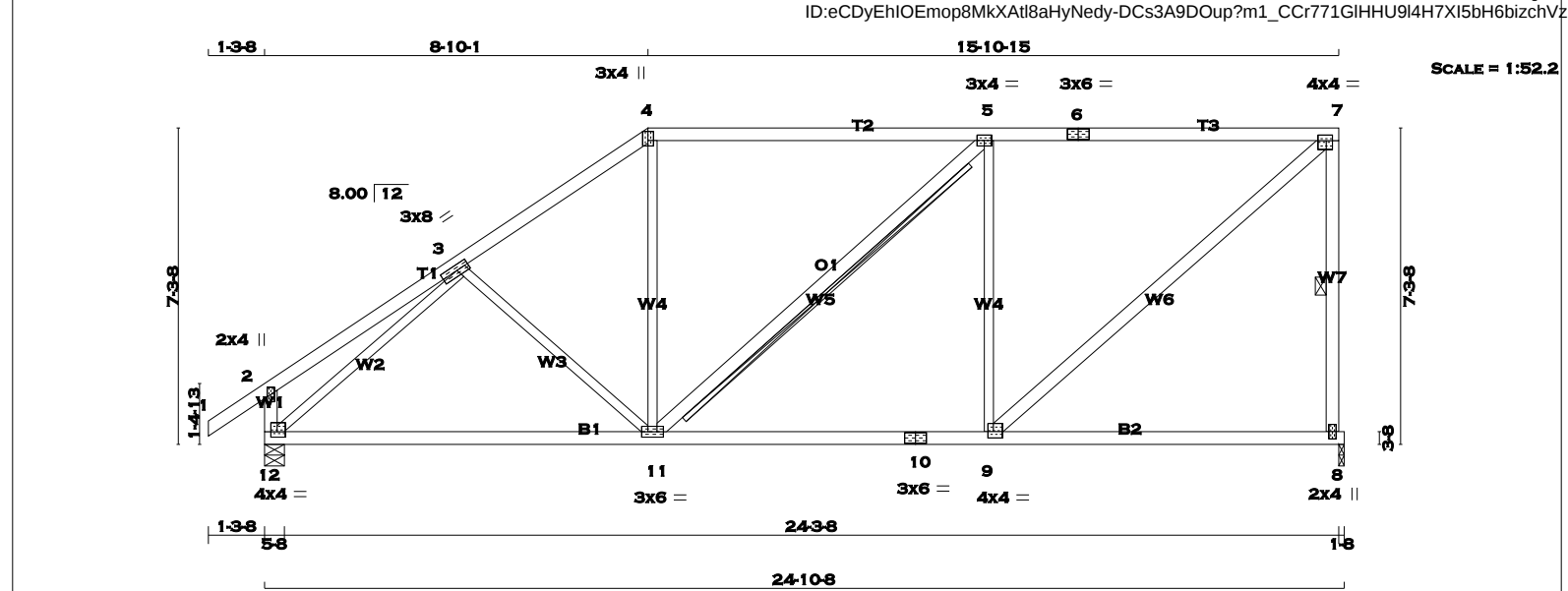
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TOTAL WEIGHT = 113 lb [M]

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 - 7	2x4	DRY	No.2	SPF
8 - 7	2x4	DRY	No.2	SPF
12 - 2	2x4	DRY	No.2	SPF
12 - 10	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
11 - 5	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	TMV+p	MT20	2.0	4.0
3	TMWW-t	MT20	3.0	8.0 1.50 3.50
4	TTW+p	MT20	3.0	4.0 2.50 1.50
5	TMWW-t	MT20	3.0	4.0
6	TS-t	MT20	3.0	6.0
7	TMVW-t	MT20	4.0	4.0 1.50 1.75
8	BMV1+p	MT20	2.0	4.0
9	BMWW-t	MT20	4.0	4.0 1.75 1.50
10	BS-t	MT20	3.0	6.0
11	BMWWW-t	MT20	3.0	6.0
12	BMVW1-t	MT20	4.0	4.0 1.50 1.75

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	IN-SX		
8	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		
8	824	576 / 0	0 / 0	0 / 0	0 / 0	248 / 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) 8, 12

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.17 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-8. DBS = 12-0-0 . CBF = 84 LBS.
2x4 SPF No.2 T-BRACE AT 5-11

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		FACTORED		WEBS
MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (CSI (LC)	MEMB. MAX. FORCE (LBS)
FR-TO		FROM	TO	FR-TO
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00 3-11 -138 / 21 0.09 (1)
2-3	0 / 22	-77.3	-77.3 0.24 (1)	10.00 11-4 0 / 289 0.06 (1)
3-4	-1189 / 0	-77.3	-77.3 0.27 (1)	5.54 11-5 -51 / 12 0.04 (1)
4-5	-974 / 0	-77.3	-77.3 0.95 (1)	4.26 9-5 -731 / 0 0.69 (1)
5-6	-1012 / 0	-77.3	-77.3 0.97 (1)	4.17 9-7 0 / 1340 0.22 (1)
6-7	-1012 / 0	-77.3	-77.3 0.97 (1)	4.17 12-3 -1451 / 0 0.87 (1)
8-7	-1116 / 0	0.0	0.0 0.27 (1)	6.01
12-2	-238 / 0	0.0	0.0 0.02 (1)	7.81
12-11	0 / 1073	-17.5	-17.5 0.37 (4)	10.00
11-10	0 / 1012	-17.5	-17.5 0.37 (4)	10.00
10-9	0 / 1012	-17.5	-17.5 0.37 (4)	10.00
9-8	0 / 0	-17.5	-17.5 0.24 (4)	10.00

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 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 (0.19")

CSI: TC=0.97 (5-7:1), BC=0.37 (9-11:4), WB=0.87 (3-12:1), SSI=0.30 (5-7:1)

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

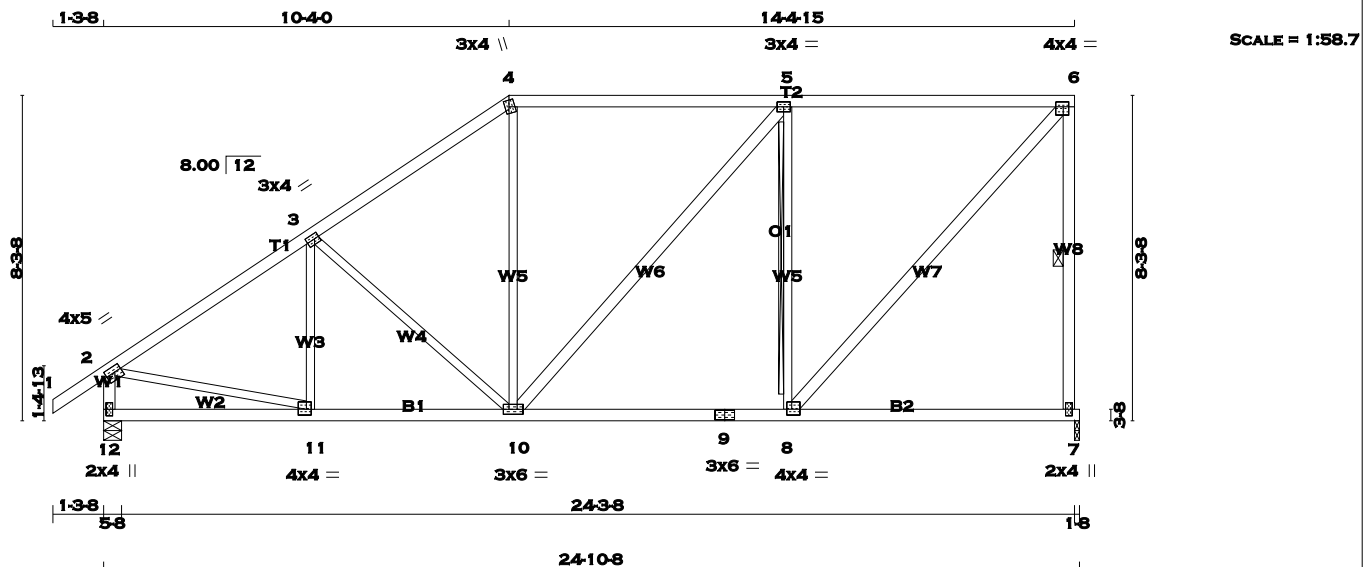
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (3) (INPUT = 0.90)
JSI METAL= 0.40 (12) (INPUT = 1.00)

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TOTAL WEIGHT = 2 X 120 = 240 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				
10 - 5	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	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	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	4.0	1.75 1.50
9	BS-t	MT20	3.0	6.0	
10	BMVW-t	MT20	3.0	6.0	
11	BMVW-t	MT20	4.0	4.0	1.75 1.50
12	BMV1+p	MT20	2.0	4.0	

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 = 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.
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				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)	11-3	-134 / 44	0.05 (1)	
2-3	-1322 / 0	-77.3 -77.3	0.41 (1)	5.14	3-10	-313 / 0	0.28 (1)
3-4	-1095 / 0	-77.3 -77.3	0.38 (1)	5.54	10-4	0 / 240	0.05 (1)
4-5	-890 / 0	-77.3 -77.3	0.75 (1)	5.13	10-5	0 / 92	0.01 (1)
5-6	-830 / 0	-77.3 -77.3	0.75 (1)	5.29	8-5	-762 / 0	0.80 (1)
7-6	-1123 / 0	0.0 0.0	0.35 (1)	5.99	8-6	0 / 1230	0.20 (1)
12-2	-1241 / 0	0.0 0.0	0.13 (1)	7.21	2-11	0 / 1145	0.26 (1)
12-11	0 / 0	-17.5 -17.5	0.10 (4)	10.00			
11-10	0 / 1121	-17.5 -17.5	0.24 (1)	10.00			
10-9	0 / 830	-17.5 -17.5	0.29 (4)	10.00			
9-8	0 / 830	-17.5 -17.5	0.29 (4)	10.00			
8-7	0 / 0	-17.5 -17.5	0.23 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C/C

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

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

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

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

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

CSI: TC=0.75 (4-5:1) , BC=0.29 (8-10:4) , WB=0.80 (5-8:1) , SSI=0.27 (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

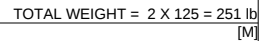
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (10) (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.





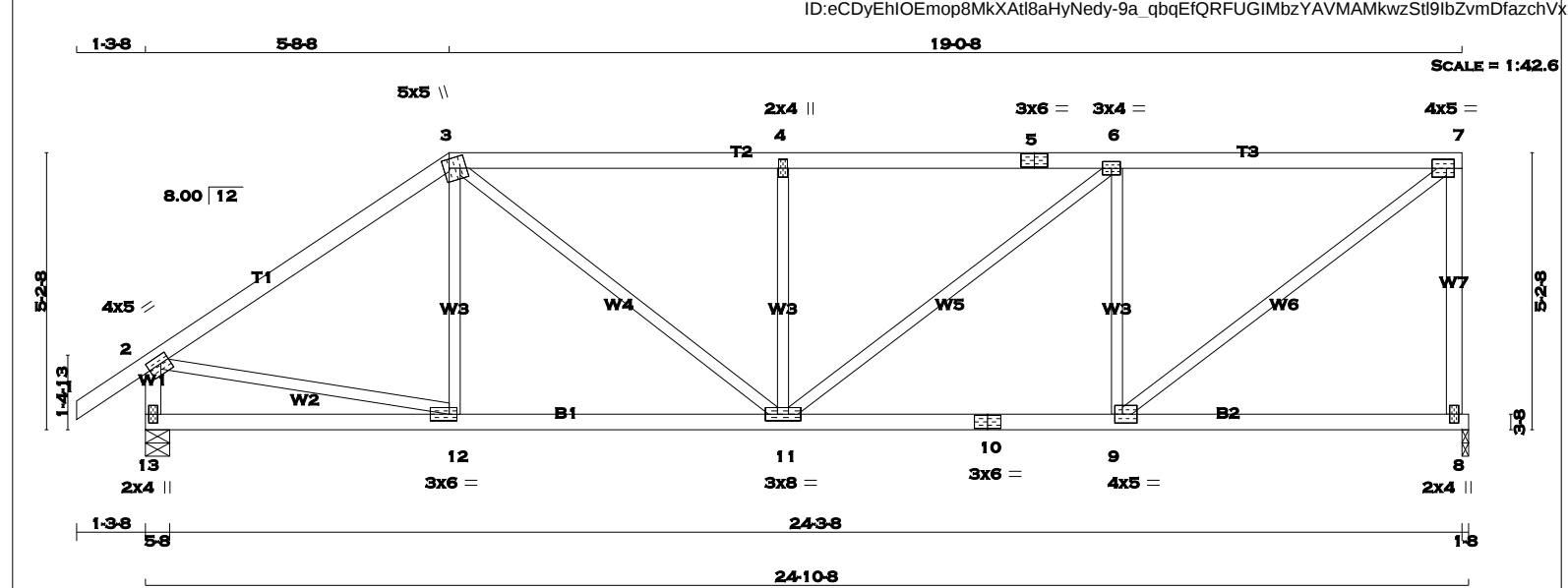
DRY: SEASONED LUMBER.

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

TOTAL LOAD CASES: (4)

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT

TYPE

PLATES

W

LEN

Y

X

2

TMVW-t

MT20

4.0

5.0

1.75

2.00

3

TTWW+m

MT20

5.0

5.0

2.00

1.25

4

TMW+w

MT20

2.0

4.0

5

TS-t

MT20

3.0

6.0

6

TMVW-t

MT20

3.0

4.0

7

TMVW-t

MT20

4.0

5.0

2.00

1.75

8

BMV1+p

MT20

2.0

4.0

9

BMVW-t

MT20

4.0

5.0

2.00

1.75

10

BS-t

MT20

3.0

6.0

11

BMVW-t

MT20

3.0

8.0

12

BMVW-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.

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

09 MAR 2017

RECEIVED

TOWN OF MILTON

MAR 29, 2017

17-4949

BUILDING DIVISION

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

BEARINGS

FACTORED

MAXIMUM FACTORED

INPUT

REQRD

GROSS REACTION

GROSS REACTION

BRG

BRG

JT

VERT

HORZ

DOWN

HORZ

UPLIFT

IN-SX

IN-SX

8

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 = 4.66 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

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

12-3

-79 / 73

0.03 (1)

2-3

-1285 / 0

-77.3

-77.3

0.52 (1)

5.02

3-11

0 / 605

0.14 (1)

3-4

-1542 / 0

-77.3

-77.3

0.49 (1)

4.72

11-4

-524 / 0

0.21 (1)

4-5

-1542 / 0

-77.3

-77.3

0.52 (1)

4.66

11-6

0 / 410

0.09 (1)

5-6

-1542 / 0

-77.3

-77.3

0.52 (1)

4.66

9-6

-798 / 0

0.32 (1)

6-7

-1220 / 0

-77.3

-77.3

0.50 (1)

5.14

9-7

0 / 1531

0.34 (1)

8-7

-1128 / 0

0.0

0.0

0.52 (1)

7.48

2-12

0 / 1086

0.24 (1)

13-2

-1240 / 0

0.0

0.0

0.13 (1)

7.21

13-12

0 / 0

-17.5

-17.5

0.15 (4)

10.00

12-11

0 / 1066

-17.5

-17.5

0.26 (1)

10.00

11-10

0 / 1220

-17.5

-17.5

0.29 (1)

10.00

10-9

0 / 1220

-17.5

-17.5

0.29 (1)

10.00

9-8

0 / 0

-17.5

-17.5

0.17 (4)

10.00

DESIGN CRITERIA

SPECIFIED LOADS:

TOP

CH.

LL

=

23.3

PSF

DL

=

3.0

PSF

BOT

CH.

LL

=

0.0

PSF

DL

=

7.0

PSF

TOTAL

LOAD

=

33.3

PSF

SPACING =

24.0

IN./C

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

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

THIS DESIGN COMPLIES WITH:

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

- CSA 086-09

- TPIC 2011

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

ALLOWABLE DEFL.(LL)= L/360 (0.82")

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

ALLOWABLE DEFL.(TL)= L/360 (0.82")

CALCULATED VERT. DEFL.(TL) = L/ 999 (0.12")

CSI: TC=0.52 (4-6:1), BC=0.29 (9-11:1), WB=0.34 (7-9:1), 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

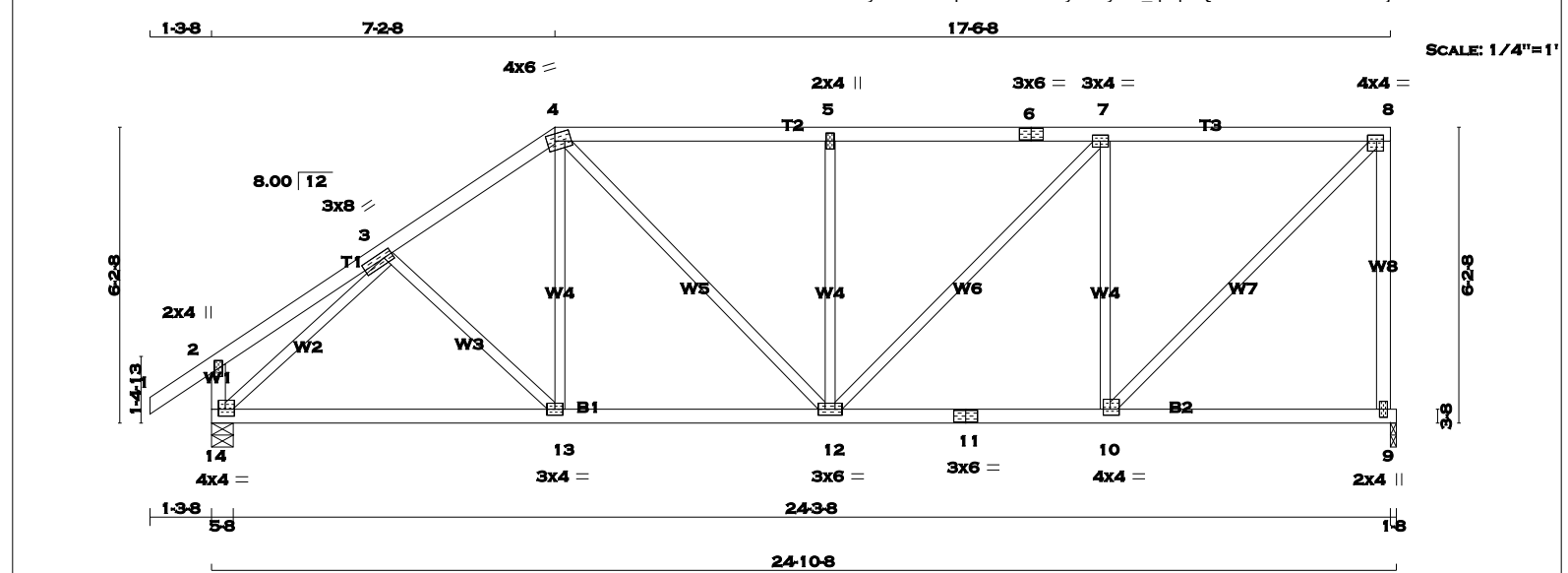
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL= 0.44 (2) (INPUT = 1.00)

KOTT



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
14 - 11	2x4	DRY	No.2	SPF
11 - 9	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	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 2.00
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	TMVW-t	MT20	4.0	4.0	1.50 1.75
9	BMV1+p	MT20	2.0	4.0	
10	BMWW-t	MT20	4.0	4.0	1.50 1.75
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

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	COMPONENT	REACTIONS		
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 = 5.18 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING				TOTAL LOAD CASES: (4)			
CHORDS		WEBS		CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)
FR-TO		FROM	TO	FR-TO		FROM	TO
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	3-13	-24 / 42	0.01 (4)
2-3	0 / 17	-77.3	-77.3 0.15 (1)	10.00	13-4	0 / 152	0.04 (4)
3-4	-1255 / 0	-77.3	-77.3 0.17 (1)	5.55	4-12	0 / 341	0.08 (1)
4-5	-1270 / 0	-77.3	-77.3 0.39 (1)	5.23	12-5	-482 / 0	0.29 (1)
5-6	-1270 / 0	-77.3	-77.3 0.42 (1)	5.18	12-7	0 / 450	0.10 (1)
6-7	-1270 / 0	-77.3	-77.3 0.42 (1)	5.18	10-7	-825 / 0	0.50 (1)
7-8	-956 / 0	-77.3	-77.3 0.40 (1)	5.79	10-8	0 / 1344	0.30 (1)
9-8	-1132 / 0	0.0	0.0 0.86 (1)	7.46	14-3	-1456 / 0	0.58 (1)
14-2	-215 / 0	0.0	0.0 0.02 (1)	7.81			
14-13	0 / 1047	-17.5	-17.5 0.28 (1)	10.00			
13-12	0 / 1032	-17.5	-17.5 0.28 (4)	10.00			
12-11	0 / 956	-17.5	-17.5 0.24 (1)	10.00			
11-10	0 / 956	-17.5	-17.5 0.24 (1)	10.00			
10-9	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

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=0.86 (8-9:1), BC=0.28 (12-13:4) , WB=0.58 (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.

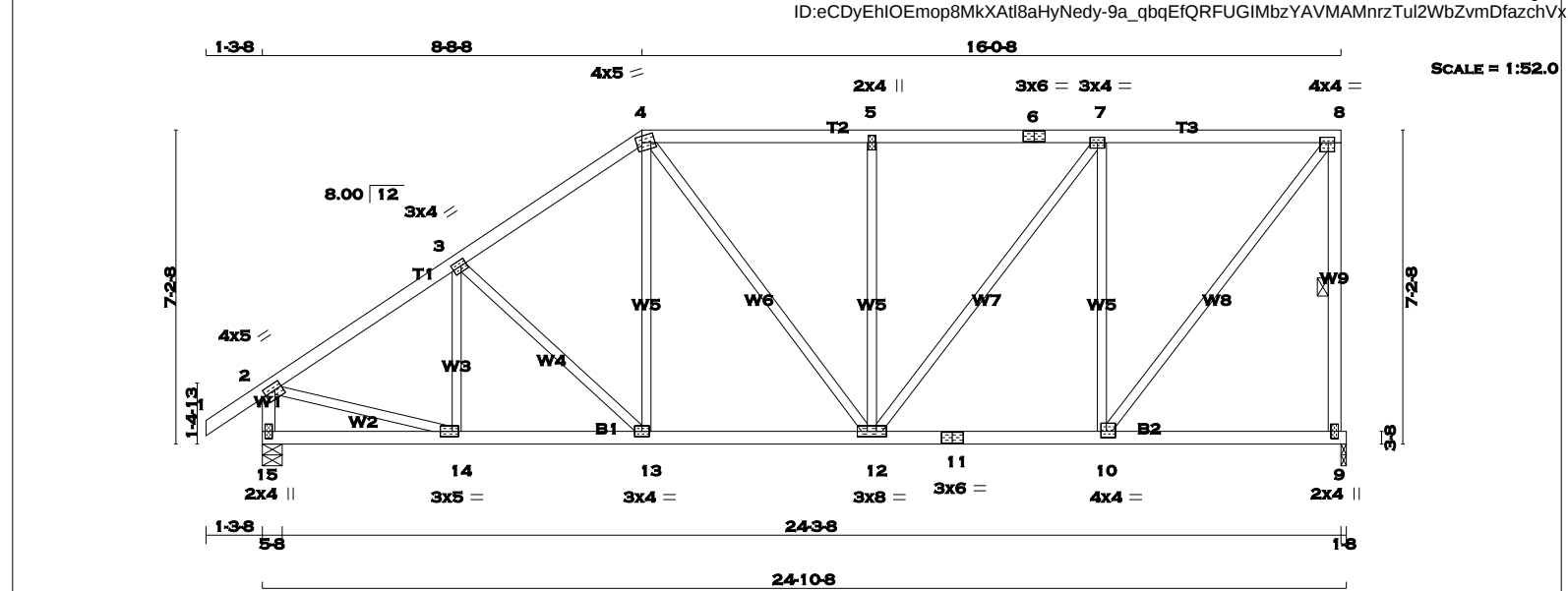
JSI GRIP= 0.90 (10) (INPUT = 0.90)
JSI METAL= 0.39 (14) (INPUT = 1.00)

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
17-4949
BUILDING DIVISION





TOTAL WEIGHT = 117 lb [M]

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2
4 - 6	2x4	DRY	No.2
6 - 8	2x4	DRY	No.2
9 - 8	2x4	DRY	No.2
15 - 2	2x4	DRY	No.2
15 - 11	2x4	DRY	No.2
11 - 9	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
DRY: SEASONED LUMBER.			

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	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 MIITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

BEARINGS			
FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION	
JT	VERT	DOWN	HORZ
9	1174	0	0
15	1280	0	0

UNFACTORED REACTIONS			
1ST LCASE		MAX./MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE
9	824	576 / 0	0 / 0
15	896	640 / 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 = 5.33 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 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

TOTAL LOAD CASES: (4)

C H O R D S			
MEMB.		MAX. FACTORED FORCE (LBS)	
FR-TO		FACTORED VERT. LOAD (PLF)	
		FROM TO	
		MAX. UNBRACED LENGTH (LC)	
		MEMB.	
		MAX. FACTORED FORCE (LBS)	
		MAX. UNBRACED LENGTH (LC)	
1-2	0 / 29	-77.3	-77.3 0.10 (1)
2-3	-1308 / 0	-77.3	-77.3 0.28 (1)
3-4	-1181 / 0	-77.3	-77.3 0.27 (1)
4-5	-1066 / 0	-77.3	-77.3 0.31 (1)
5-6	-1066 / 0	-77.3	-77.3 0.34 (1)
6-7	-1066 / 0	-77.3	-77.3 0.34 (1)
7-8	-764 / 0	-77.3	-77.3 0.33 (1)
9-8	-1135 / 0	0.0	0.0 0.27 (1)
15-2	-1246 / 0	0.0	0.0 0.13 (1)
15-14	0 / 0	-17.5	-17.5 0.07 (4)
14-13	0 / 1106	-17.5	-17.5 0.22 (1)
13-12	0 / 966	-17.5	-17.5 0.20 (1)
12-11	0 / 764	-17.5	-17.5 0.19 (1)
11-10	0 / 764	-17.5	-17.5 0.19 (1)
10-9	0 / 0	-17.5	-17.5 0.12 (4)

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.82")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
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=0.78 (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.

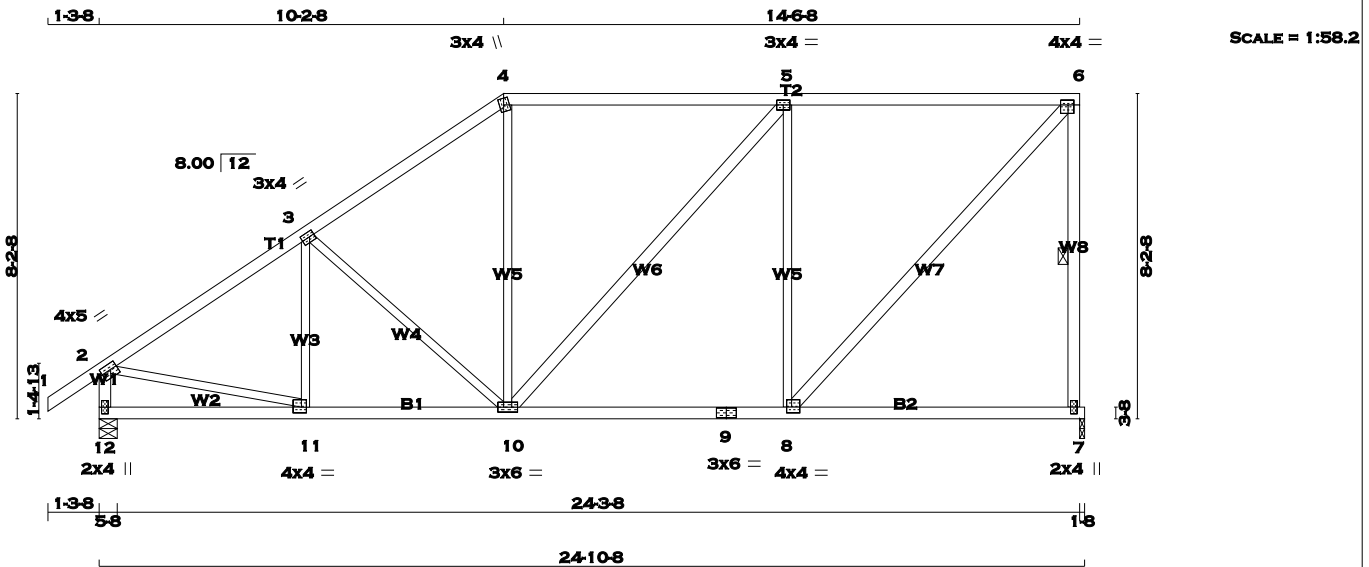
JSI GRIP= 0.90 (14) (INPUT = 0.90)
JSI METAL= 0.44 (2) (INPUT = 1.00)

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.



RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-4949
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				
10 - 5	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	TTW+m	MT20	3.0	4.0	2.00	1.25
5	TMVW-t	MT20	3.0	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	4.0	1.75	1.50
9	BS-t	MT20	3.0	6.0		
10	BMVW-t	MT20	3.0	6.0		
11	BMVW-t	MT20	4.0	4.0	1.75	1.50
12	BMV1+p	MT20	2.0	4.0		

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		
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 = 5.08 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

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

LOADING
TOTAL LOAD CASES: (4)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED 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	11-3	-138 / 41	0.05 (1)
2-3	-1321 / 0	-77.3 -77.3	0.39 (1)	5.16	3-10	-304 / 0	0.27 (1)
3-4	-1102 / 0	-77.3 -77.3	0.38 (1)	5.54	10-4	0 / 244	0.05 (1)
4-5	-897 / 0	-77.3 -77.3	0.77 (1)	5.08	10-5	0 / 80	0.01 (1)
5-6	-843 / 0	-77.3 -77.3	0.77 (1)	5.20	8-5	-759 / 0	1.00 (1)
7-6	-1122 / 0	0.0 0.0	0.34 (1)	5.99	8-6	0 / 1237	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 / 1121	-17.5 -17.5	0.24 (1)	10.00			
10-9	0 / 843	-17.5 -17.5	0.30 (4)	10.00			
9-8	0 / 843	-17.5 -17.5	0.30 (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 (0.09")

CSI: TC=0.77 (4-5:1), BC=0.30 (8-10:4), WB=1.00 (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 .

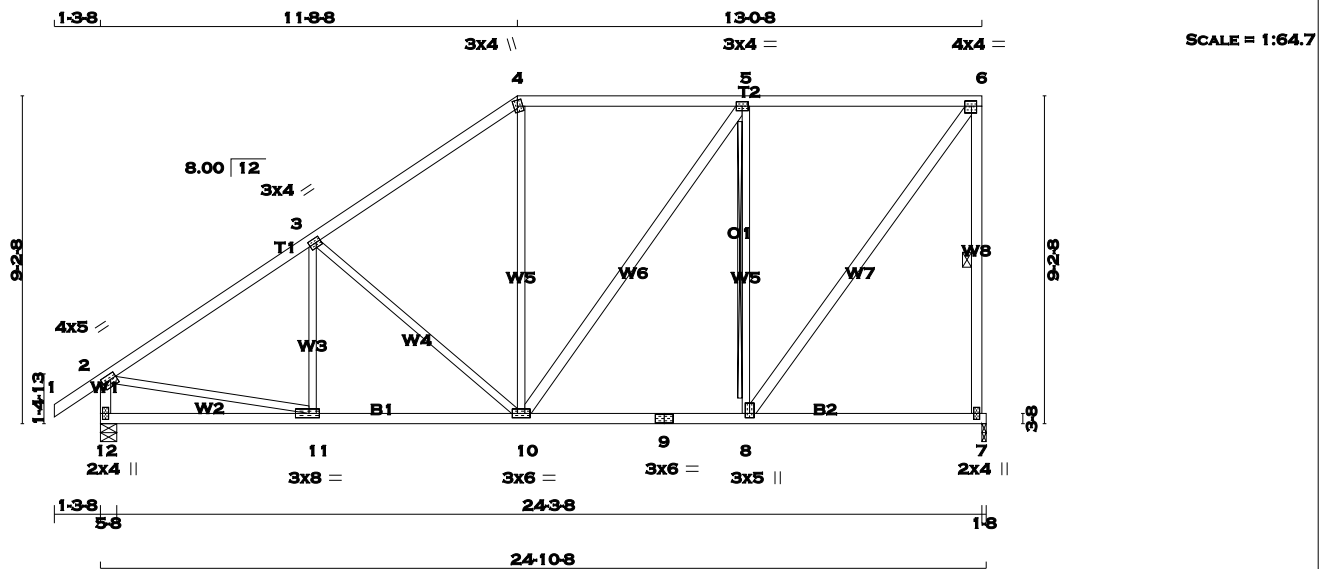
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (10) (INPUT = 0.90)
JSI METAL= 0.45 (2) (INPUT = 1.00)





LUMBER				DESCR.	
N. L. G. A. RULES		LUMBER			
CHORDS	SIZE				
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					
10 - 5	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	TTW+m	MT20	3.0	4.0	2.00	1.25
5	TMVW-t	MT20	3.0	4.0		
6	TMVW-t	MT20	4.0	4.0	1.75	1.75
7	BMV1+p	MT20	2.0	4.0		
8	BMVW+t	MT20	3.0	5.0	1.50	1.50
9	BS-t	MT20	3.0	6.0		
10	BMVW-t	MT20	3.0	6.0		
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									
		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 = 4.95 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 6-7. DBS = 12-0-0 . CBF = 85 LBS. 2x4 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				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 / 29	-77.3	-77.3 0.10 (1)	10.00	11-3	-90 / 71	0.04 (1)
2-3	-1322 / 0	-77.3	-77.3 0.54 (1)	4.95	3-10	-410 / 0	0.50 (1)
3-4	-1011 / 0	-77.3	-77.3 0.50 (1)	5.51	10-4	0 / 192	0.04 (1)
4-5	-817 / 0	-77.3	-77.3 0.60 (1)	5.71	10-5	0 / 215	0.03 (1)
5-6	-692 / 0	-77.3	-77.3 0.59 (1)	6.08	8-5	-802 / 0	0.50 (1)
7-6	-1127 / 0	0.0	0.0 0.45 (1)	5.98	8-6	0 / 1161	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 / 692	-17.5	-17.5 0.24 (4)	10.00			
9-8	0 / 692	-17.5	-17.5 0.24 (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 (4-5:1) , BC=0.25 (10-11:1) , WB=0.50 (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

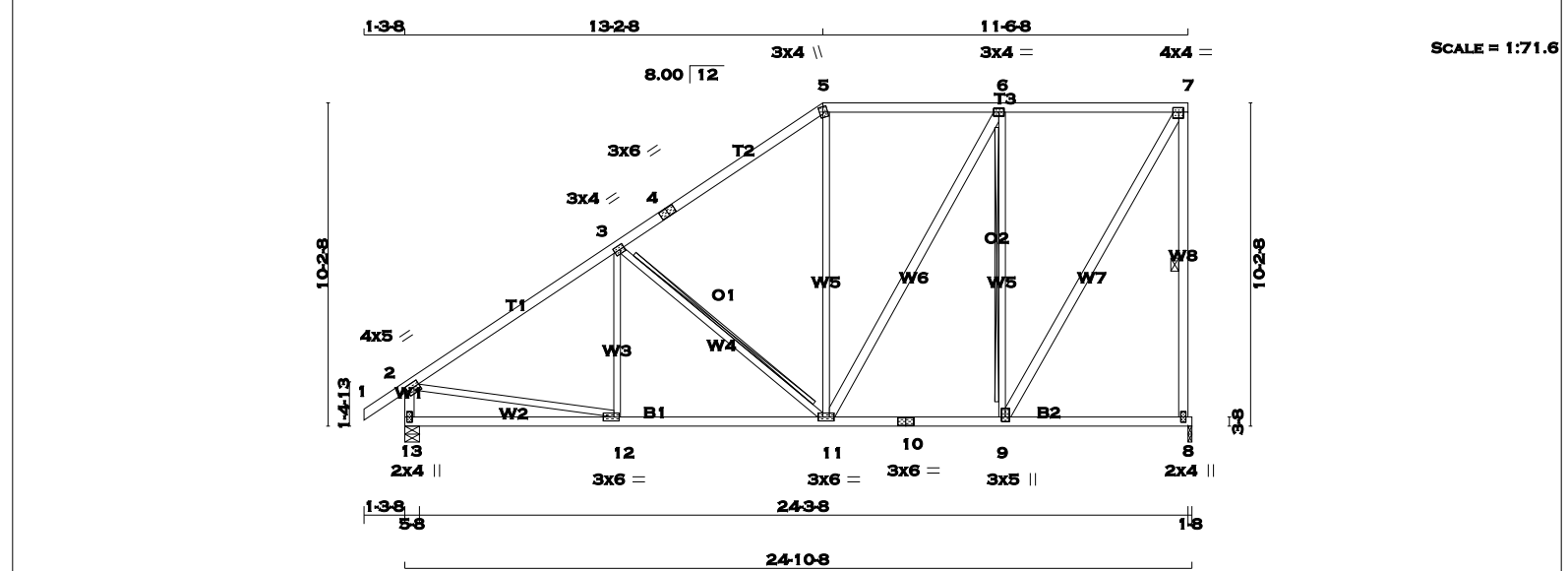
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (10) (INPUT = 0.90)
JSI METAL= 0.45 (2) (INPUT = 1.00)

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TOWN OF MILTON
MAR 29, 2017
17-4949
BUILDING DIVISION





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

11 - 6

2x4

DRY

No.2

SPF

9 - 7

2x4

DRY

No.2

SPF

DRY: SEASONED LUMBER.

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

BEARINGS

FACTORED

MAXIMUM FACTORED

INPUT

REQRD

GROSS REACTION

GROSS REACTION

BRG

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 = 5.03 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 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)

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=0.58 (7-8:1) , BC=0.28 (11-12:1) , WB=0.69 (6-9:1) , SSI=0.22 (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.

LICENSED PROFESSIONAL ENGINEER

C.G. CARSON

100076892

PROVINCE OF ONTARIO

09 MAR 2017

RECEIVED

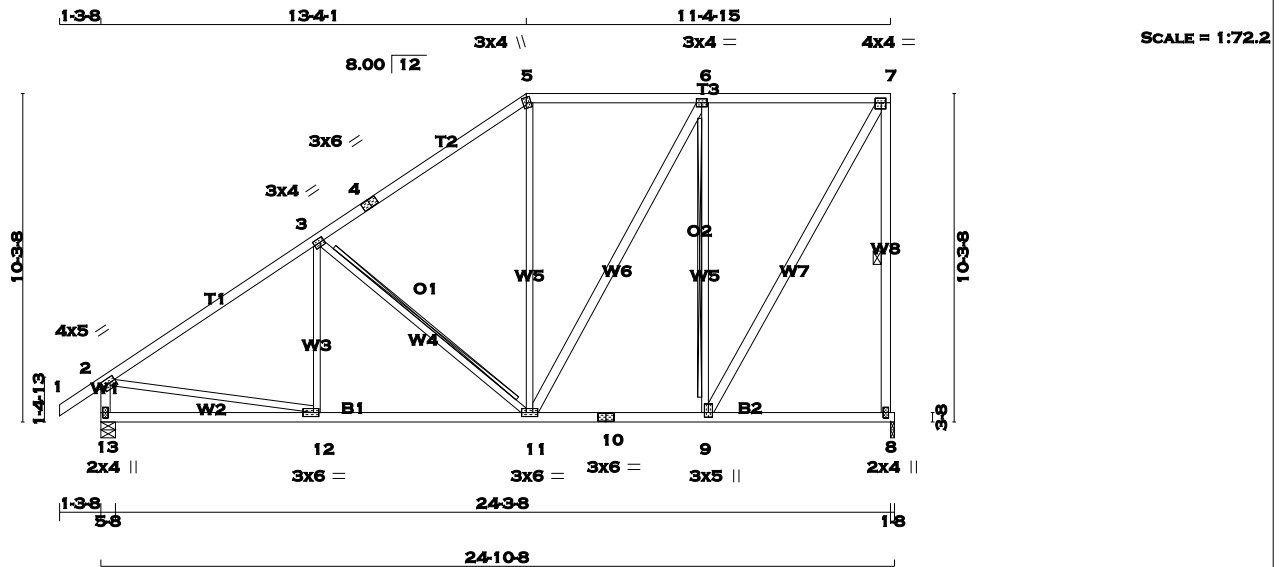
TOWN OF MILTON

MAR 29, 2017

17-4949

BUILDING DIVISION

KOTT



LUMBER				N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.	CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	1 - 4	2x4	DRY	No.2
4 - 5	2x4	DRY	No.2	4 - 5	2x4	DRY	No.2
5 - 7	2x4	DRY	No.2	5 - 7	2x4	DRY	No.2
8 - 7	2x4	DRY	No.2	8 - 7	2x4	DRY	No.2
13 - 2	2x4	DRY	No.2	13 - 2	2x4	DRY	No.2
13 - 10	2x4	DRY	No.2	13 - 10	2x4	DRY	No.2
10 - 8	2x4	DRY	No.2	10 - 8	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2	ALL WEBS	2x3	DRY	No.2
EXCEPT				EXCEPT			
11 - 6	2x4	DRY	No.2	11 - 6	2x4	DRY	No.2
9 - 7	2x4	DRY	No.2	9 - 7	2x4	DRY	No.2

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	TMWW-t	MT20	3.0	4.0	1.50	1.50
4	TS-t	MT20	3.0	6.0		
5	TTW+m	MT20	3.0	4.0	2.00	1.25
6	TMWW-t	MT20	3.0	4.0		
7	TMVW-t	MT20	4.0	4.0	1.75	1.75
8	BMV1+p	MT20	2.0	4.0		
9	BMWW+t	MT20	3.0	5.0	1.75	1.50
10	BS-t	MT20	3.0	6.0		
11	BMWWW-t	MT20	3.0	6.0		
12	BMWW-t	MT20	3.0	6.0	1.50	2.00
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	UPLIFT
8		1174	0	1174	0
13		1280	0	1280	0

UNFACTORED REACTIONS		1ST LCASE	MAX/MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
JT		COMBINED	SNOW	LIVE	WIND	DEAD	SOIL
8		824	576 / 0	0 / 0	0 / 0	248 / 0	0 / 0
13		896	640 / 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 = 5.01 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 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 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		MAX. FACTORED					WEBS				
MEMB.		FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX	CS1 (LC)	UNBRAC	MEMB.	FORCE (LBS)	MAX	CS1 (LC)	
FR-TO			FROM TO			LENGTH	FR-TO				
1-2		0 / 29	-77.3	-77.3	0.10 (1)	10.00	12-3	-45 / 100	0.03 (4)		
2-3		-1313 / 0	-77.3	-77.3	0.51 (1)	5.01	3-11	-519 / 0	0.68 (1)		
3-4		-906 / 0	-77.3	-77.3	0.47 (1)	5.82	11-5	0 / 130	0.04 (4)		
4-5		-906 / 0	-77.3	-77.3	0.47 (1)	5.82	11-6	0 / 346	0.06 (1)		
5-6		-724 / 0	-77.3	-77.3	0.33 (1)	6.25	9-6	-850 / 0	0.71 (1)		
6-7		-558 / 0	-77.3	-77.3	0.33 (1)	6.25	9-7	0 / 1111	0.18 (1)		
8-7		-1132 / 0	0.0	0.0	0.59 (1)	5.97	2-12	0 / 1135	0.26 (1)		
13-2		-1232 / 0	0.0	0.0	0.13 (1)	7.23					
13-12		0 / 0	-17.5	-17.5	0.20 (4)	10.00					
12-11		0 / 1121	-17.5	-17.5	0.28 (1)	10.00					
11-10		0 / 558	-17.5	-17.5	0.18 (4)	10.00					
10-9		0 / 558	-17.5	-17.5	0.18 (4)	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/C

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

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

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

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

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

CSI: TC=0.59 (7-8:1) , BC=0.28 (11-12:1) , WB=0.71 (6-9:1) , SSI=0.22 (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.

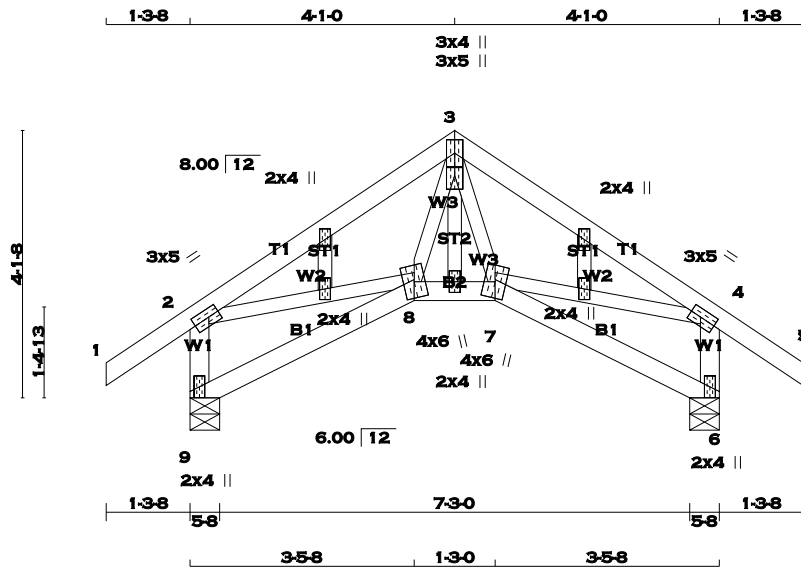
JSI GRIP= 0.89 (12) (INPUT = 0.90)
JSI METAL= 0.45 (2) (INPUT = 1.00)

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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TOTAL WEIGHT = 2 X 40 = 79 lb
[M][F]

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
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
6	BMV1+p	MT20	2.0	4.0	
7	BBWW+m	MT20	4.0	6.0	
8	BBWW+m	MT20	4.0	6.0	
9	BMV1+p	MT20	2.0	4.0	
10, 11, 12, 13, 14					
10	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							
		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG		
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
9	493	0	493	0	0	5-8	5-8
6	493	0	493	0	0	5-8	5-8

UNFACTORED REACTIONS							
		1ST LCASE	MAX/MIN.	COMPONENT REACTIONS			
JT	COMBINED	SNOW	LIVE	PERM.	LIVE	WIND	DEAD
9	344	254 / 0	0 / 0	0 / 0	0 / 0	0 / 0	90 / 0
6	344	254 / 0	0 / 0	0 / 0	0 / 0	0 / 0	90 / 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	FACTORED			MAX. FACTORED	FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX	MEMB.	FORCE (LBS)	MAX. FACTORED	FACTORED
		FROM	TO			FROM	TO
FR-TO				FR-TO			
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	3-7	0 / 90	0.02 (4)
2-3	-441 / 0	-77.3	-77.3 0.17 (1)	6.25	8-3	0 / 90	0.02 (4)
3-4	-441 / 0	-77.3	-77.3 0.17 (1)	6.25	2-8	0 / 370	0.08 (1)
4-5	0 / 29	-77.3	-77.3 0.10 (1)	10.00	7-4	0 / 370	0.08 (1)
9-2	-463 / 0	0.0	0.0 0.05 (1)	7.81			
6-4	-463 / 0	0.0	0.0 0.05 (1)	7.81			
9-8	0 / 0	-17.5	-17.5 0.06 (4)	10.00			
8-7	0 / 343	-17.5	-17.5 0.06 (1)	10.00			
7-6	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 (0.02")

CSI: TC=0.17 (2-3:1), BC=0.06 (8-9:4), WB=0.08 (2-8:1), SSI=0.10 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE 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.

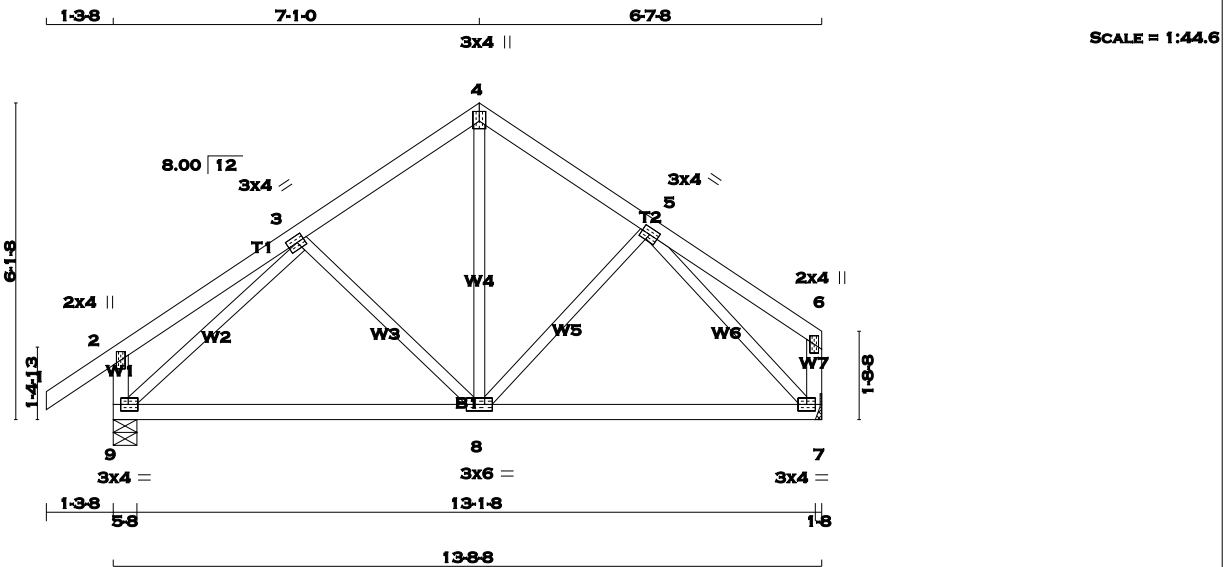
JSI GRIP= 0.52 (7) (INPUT = 0.90)
JSI METAL= 0.18 (2) (INPUT = 1.00)

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 58 = 117 lb
[M][F]

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
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
9	756	0	756	0
7	650	0	650	0

UPLIFT IN-SX 5-8
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	145 / 0	0 / 0
7	456	319 / 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)	MAX LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 MAX (LC)	
FR-TO		FROM	TO	FR-TO			
1-2	0 / 29	-77.3	-77.3 0.10 (1)	3-8	-153 / 4	0.06 (1)	
2-3	0 / 17	-77.3	-77.3 0.15 (1)	8-4	0 / 328	0.07 (1)	
3-4	-498 / 0	-77.3	-77.3 0.12 (1)	8-5	-100 / 15	0.04 (1)	
4-5	-497 / 0	-77.3	-77.3 0.10 (1)	9-3	-712 / 0	0.28 (1)	
5-6	0 / 16	-77.3	-77.3 0.13 (1)	10.00	-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 (PSI)	SECTION (PLI)
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (5) (INPUT = 0.90)
JSI METAL= 0.25 (3) (INPUT = 1.00)

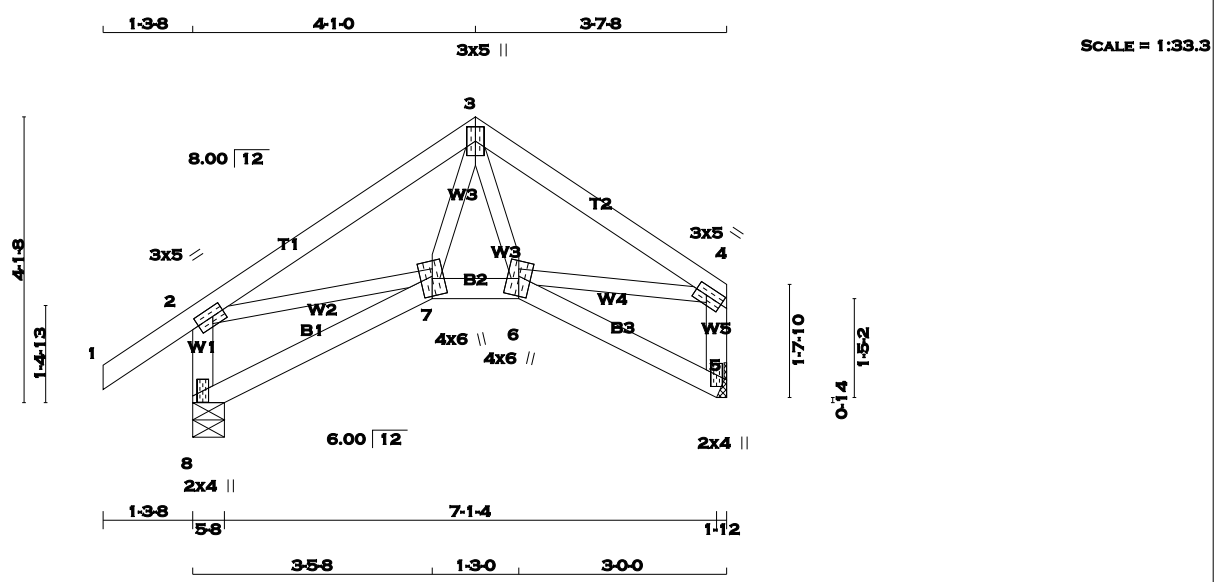
READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



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MAR 29, 2017
17-4949
BUILDING DIVISION





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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMVW-t	MT20	3.0	5.0	1.50 2.00
3	TTWW+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								
BEARINGS								
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG		
	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							
JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS				
	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				
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	MAX. UNBRACED LENGTH
FR-TO		FROM	TO	FR-TO
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00
2-3	-393 / 0	-77.3	-77.3 0.17 (1)	6.25
3-4	-383 / 0	-77.3	-77.3 0.13 (1)	6.25
8-2	-441 / 0	0.0	0.0 0.05 (1)	7.81
5-4	-339 / 0	0.0	0.0 0.04 (1)	7.81
8-7	0 / 0	-17.5	-17.5 0.06 (4)	10.00
7-6	0 / 305	-17.5	-17.5 0.05 (1)	10.00
6-5	0 / 0	-17.5	-17.5 0.05 (4)	10.00

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

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

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

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

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

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

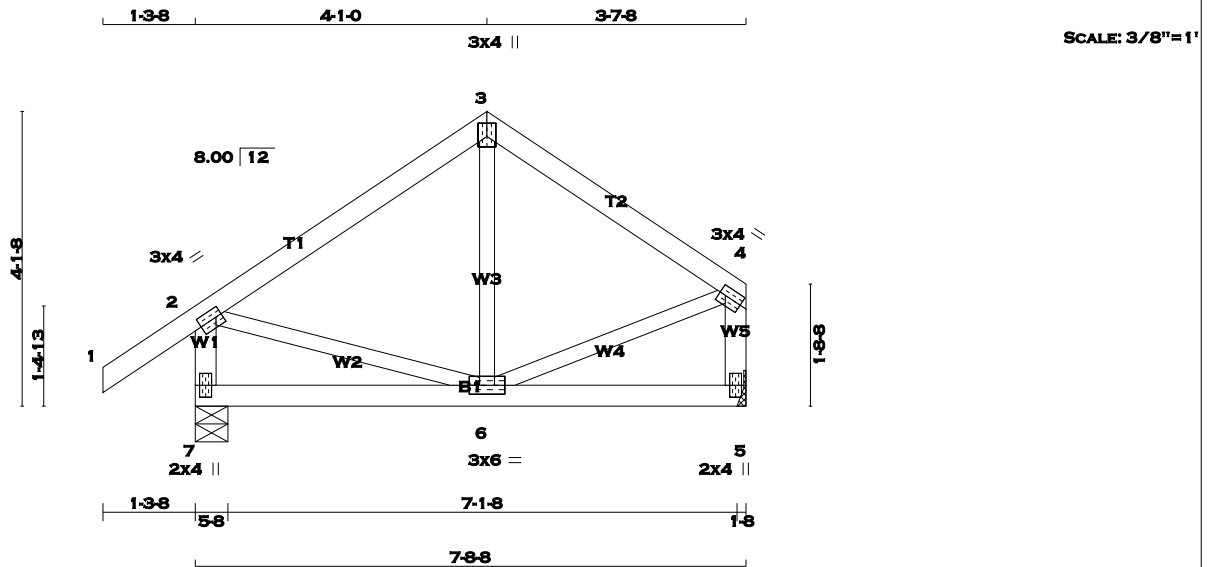
JSI GRIP= 0.47 (7) (INPUT = 0.90)
JSI METAL= 0.16 (2) (INPUT = 1.00)

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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17-4949
BUILDING DIVISION





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

LUMBER					
N. L. G. A. RULES	SIZE	LUMBER	DESCR.		
CHORDS					
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 DOWN	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
7	472	0	472	0	5-8	5-8
5	366	0	366	0	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 (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC (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 (6-7:4) , 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)
	MAX	MIN	MAX
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

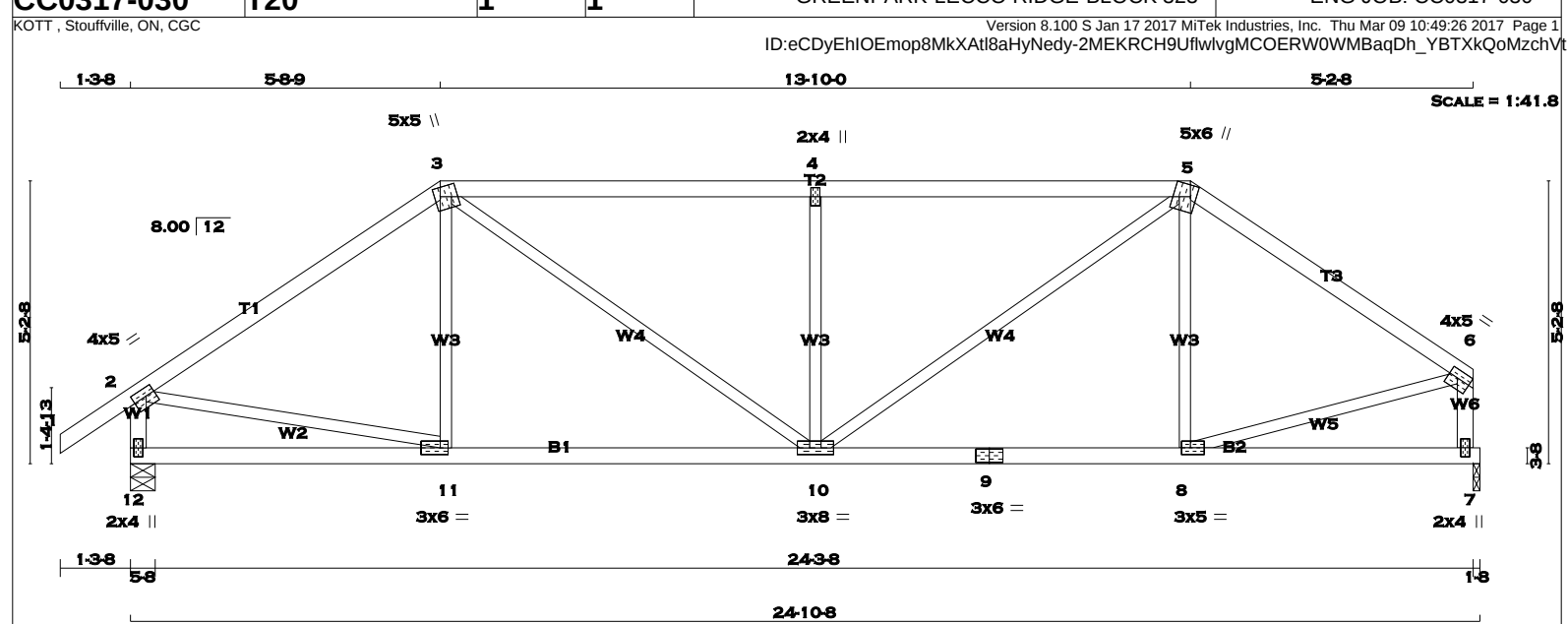
JSI GRIP= 0.67 (4) (INPUT = 0.90)
JSI METAL= 0.14 (2) (INPUT = 1.00)

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.
1 - 3 2x4 DRY No.2 SPF
3 - 5 2x4 DRY No.2 SPF
5 - 6 2x4 DRY No.2 SPF
12 - 2 2x4 DRY No.2 SPF
7 - 6 2x4 DRY No.2 SPF
12 - 9 2x4 DRY No.2 SPF
9 - 7 2x4 DRY No.2 SPF

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER
BEARINGS
FACTORED MAXIMUM FACTORED INPUT REQ'D
GROSS REACTION GROSS REACTION BRG 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 / 0 256 / 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 = 4.19 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.

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. LC1 (LC)
FR-TO		FROM	TO	FR-TO		FROM	TO
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	11-3	-74 / 77	0.03 (1)
2-3	-1286 / 0	-77.3	-77.3 0.52 (1)	5.02	3-10	0 / 627	0.14 (1)
3-4	-1579 / 0	-77.3	-77.3 0.76 (1)	4.19	10-4	-658 / 0	0.26 (1)
4-5	-1579 / 0	-77.3	-77.3 0.76 (1)	4.19	10-5	0 / 711	0.16 (1)
5-6	-1206 / 0	-77.3	-77.3 0.42 (1)	5.30	8-5	-148 / 51	0.06 (1)
12-2	-1241 / 0	0.0	0.0 0.13 (1)	7.21	2-11	0 / 1087	0.24 (1)
7-6	-1139 / 0	0.0	0.0 0.12 (1)	7.45	8-6	0 / 1037	0.23 (1)
12-11	0 / 0	-17.5	-17.5 0.16 (4)	10.00			
11-10	0 / 1067	-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=0.76 (3-4:1), 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

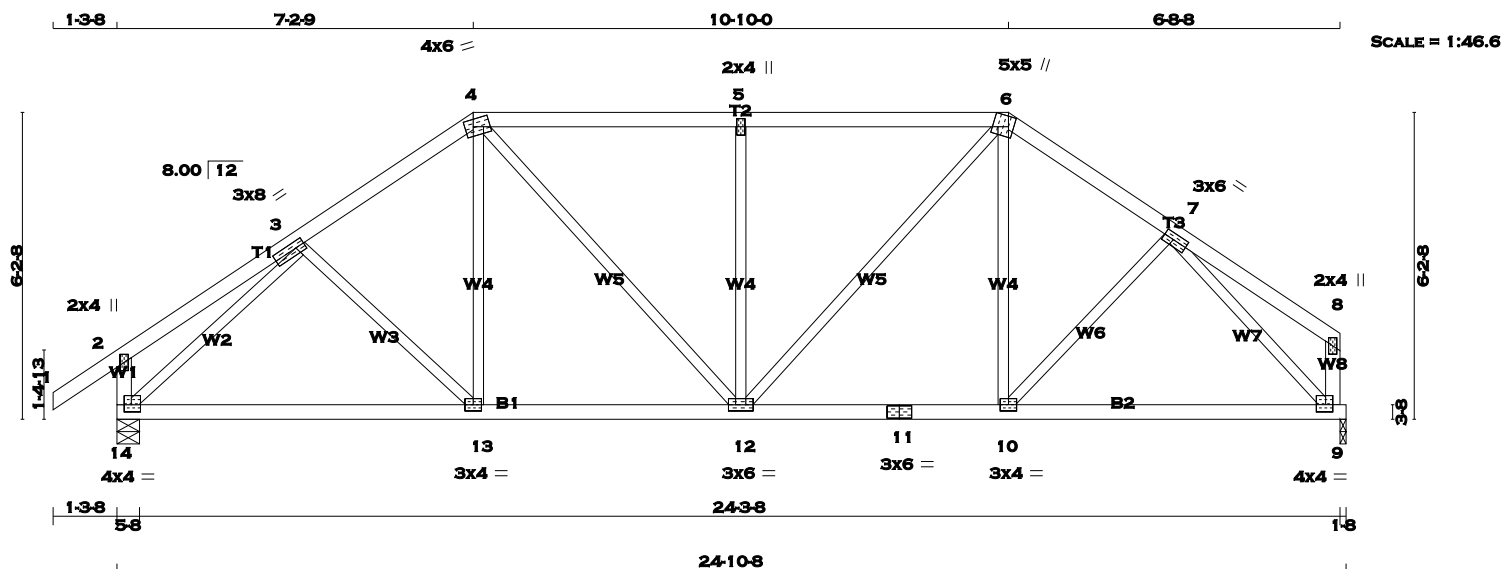
PLATE ROTATION TOL. = 5.0 Deg.

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.

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TOTAL WEIGHT = 106 lb
[M][F]

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2
4 - 6	2x4	DRY	No.2
6 - 8	2x4	DRY	No.2
14 - 2	2x4	DRY	No.2
9 - 8	2x4	DRY	No.2
14 - 11	2x4	DRY	No.2
11 - 9	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
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	TTWW-m	MT20	4.0	6.0	1.75 2.00
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.

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
14	1280	0	1280	0	5-8
9	1174	0	1174	0	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
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) 14, 9

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.

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	FACTORED MAX. (LC)
FR-TO		FROM	TO	FR-TO			
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	3-13	-24 / 42	0.01 (4)
2-3	0 / 17	-77.3	-77.3 0.15 (1)	10.00	13-4	0 / 152	0.04 (4)
3-4	-1255 / 0	-77.3	-77.3 0.13 (1)	5.62	4-12	0 / 361	0.08 (1)
4-5	-1275 / 0	-77.3	-77.3 0.31 (1)	5.35	12-5	-512 / 0	0.31 (1)
5-6	-1275 / 0	-77.3	-77.3 0.31 (1)	5.35	12-6	0 / 427	0.10 (1)
6-7	-1201 / 0	-77.3	-77.3 0.11 (1)	5.73	10-6	0 / 98	0.03 (4)
7-8	0 / 15	-77.3	-77.3 0.13 (1)	10.00	10-7	0 / 66	0.02 (4)
14-2	-215 / 0	0.0	0.0 0.02 (1)	7.81	14-3	-1456 / 0	0.58 (1)
9-8	-102 / 0	0.0	0.0 0.01 (1)	7.81	7-9	-1389 / 0	0.54 (1)
14-13	0 / 1046	-17.5	-17.5 0.28 (1)	10.00			
13-12	0 / 1031	-17.5	-17.5 0.28 (4)	10.00			
12-11	0 / 986	-17.5	-17.5 0.26 (1)	10.00			
11-10	0 / 986	-17.5	-17.5 0.26 (1)	10.00			
10-9	0 / 940	-17.5	-17.5 0.25 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

CSI: TC=0.31 (4-5:1), BC=0.28 (12-13:4), WB=0.58 (3-14:1), SSI=0.20 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

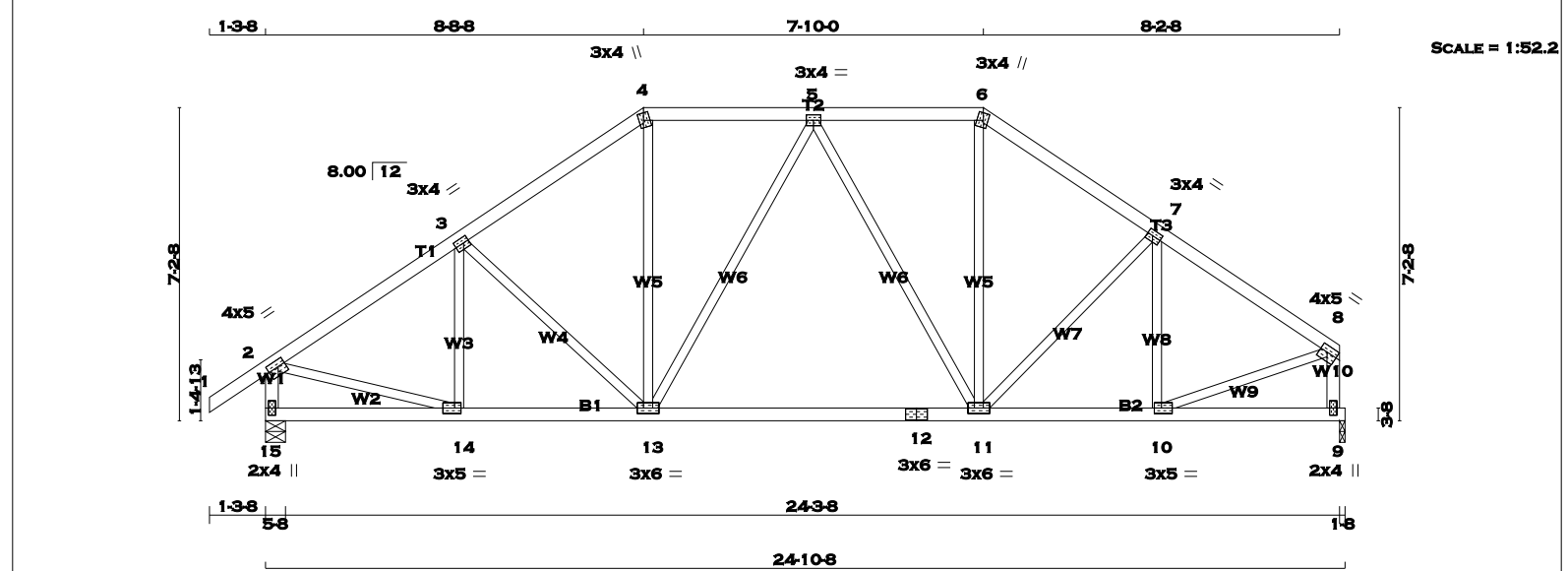
JSI GRIP= 0.90 (14) (INPUT = 0.90)
JSI METAL= 0.39 (14) (INPUT = 1.00)

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 - 4 2x4 DRY No.2 SPF
4 - 6 2x4 DRY No.2 SPF
6 - 8 2x4 DRY No.2 SPF
15 - 2 2x4 DRY No.2 SPF
9 - 8 2x4 DRY No.2 SPF
15 - 12 2x4 DRY No.2 SPF
12 - 9 2x4 DRY No.2 SPF

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

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

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG			
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
JT							
15	1280	0	1280	0	0	5-8	5-8
9	1174	0	1174	0	0	1-8	1-8

UNFACTORED REACTIONS

	1ST LCASE COMBINED	MAX. SNOW	MIN. LIVE	MAX. PERM. LIVE	WIND	DEAD	SOIL
JT							
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 = 5.44 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. LC1 (LC)
FR-TO		FROM	TO	FR-TO		FROM	TO
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	14-3	-200 / 2	0.06 (1)
2-3	-1306 / 0	-77.3	-77.3 0.20 (1)	5.44	3-13	-187 / 0	0.11 (1)
3-4	-1187 / 0	-77.3	-77.3 0.20 (1)	5.65	13-4	0 / 403	0.09 (1)
4-5	-973 / 0	-77.3	-77.3 0.15 (1)	6.14	13-5	-181 / 0	0.24 (1)
5-6	-947 / 0	-77.3	-77.3 0.15 (1)	6.20	5-11	-236 / 0	0.31 (1)
6-7	-1154 / 0	-77.3	-77.3 0.18 (1)	5.74	11-6	0 / 394	0.09 (1)
7-8	-1193 / 0	-77.3	-77.3 0.18 (1)	5.66	11-7	-98 / 0	0.06 (1)
15-2	-1244 / 0	0.0	0.0 0.13 (1)	7.20	10-7	-278 / 0	0.08 (1)
9-8	-1139 / 0	0.0	0.0 0.12 (1)	7.45	2-14	0 / 1136	0.26 (1)
					10-8	0 / 1065	0.24 (1)
15-14	0 / 0	-17.5	-17.5 0.08 (4)	10.00			
14-13	0 / 1104	-17.5	-17.5 0.27 (1)	10.00			
13-12	0 / 1061	-17.5	-17.5 0.26 (1)	10.00			
12-11	0 / 1061	-17.5	-17.5 0.26 (1)	10.00			
11-10	0 / 1010	-17.5	-17.5 0.25 (1)	10.00			
10-9	0 / 0	-17.5	-17.5 0.07 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/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 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

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.

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.

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.

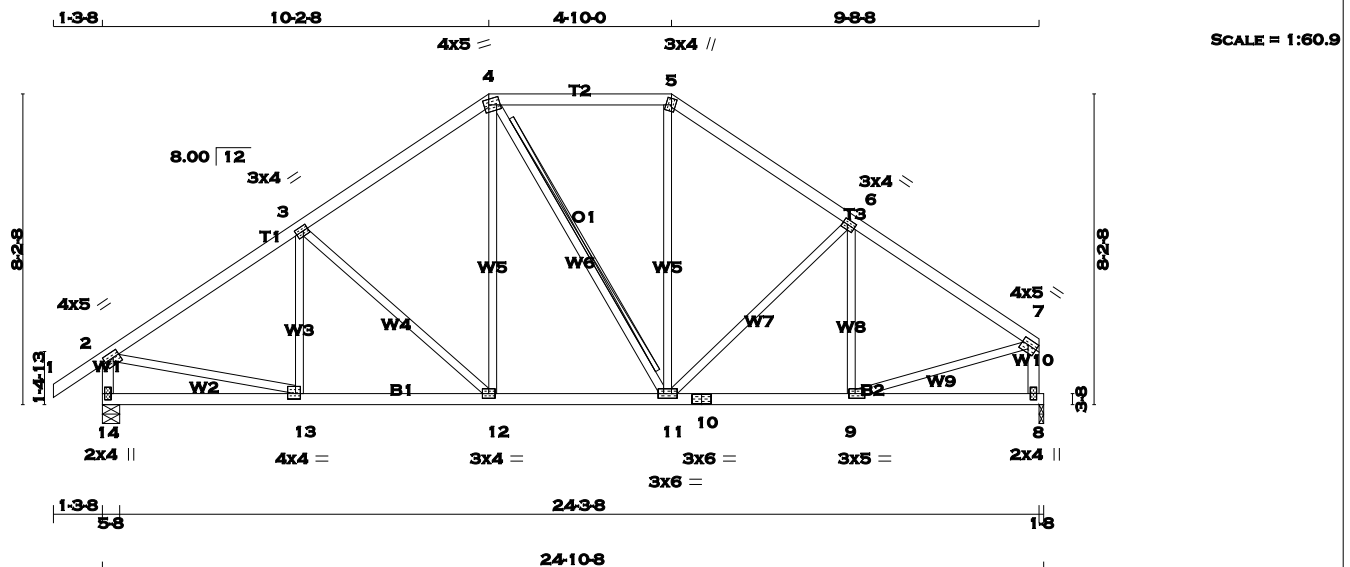


RECEIVED
TOWN OF MILTON

MAR 29, 2017

17-4949

BUILDING DIVISION



TOTAL WEIGHT = 111 lb
[M][F]

LUMBER				
N. L. G. A. RULES		LUMBER	DESCR.	
CHORDS	SIZE			
1 - 4	2x4	DRY	SPF	
4 - 5	2x4	DRY	SPF	
5 - 7	2x4	DRY	SPF	
14 - 2	2x4	DRY	SPF	
8 - 7	2x4	DRY	SPF	
14 - 10	2x4	DRY	SPF	
10 - 8	2x4	DRY	SPF	
ALL WEBS EXCEPT	2x3	DRY	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	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	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

FACTORED			MAXIMUM FACTORED			INPUT		REQRD	
GROSS REACTION			GROSS REACTION			BRG		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									
1ST LCASE			MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED		SNOW	LIVE	PERM.LIVE	WIND		DEAD	SOIL
14	896		640 / 0	0 / 0	0 / 0	0 / 0		256 / 0	0 / 0
8	824		576 / 0	0 / 0	0 / 0	0 / 0		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 = 5.32 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				W E B S							
				MAX. FACTORED				MAX. FACTORED							
				MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX	MEMB.	FORCE (LBS)	MAX. UNBRAC LENGTH	FR-TO	MEMB.	FORCE (LBS)	MAX. UNBRAC LENGTH	FR-TO
				FR-TO		FROM TO	CSI (LC)	FR-TO				FR-TO			
				1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	13-3	-133 / 46	0.05 (1)	13-3	-133 / 46	0.05 (1)	
				2-3	-1322 / 0	-77.3	-77.3 0.28 (1)	5.32	3-12	-308 / 0	0.27 (1)	3-12	-308 / 0	0.27 (1)	
				3-4	-1100 / 0	-77.3	-77.3 0.27 (1)	5.72	12-4	0 / 288	0.06 (1)	12-4	0 / 288	0.06 (1)	
				4-5	-881 / 0	-77.3	-77.3 0.24 (1)	6.24	4-11	-27 / 0	0.02 (1)	4-11	-27 / 0	0.02 (1)	
				5-6	-1082 / 0	-77.3	-77.3 0.25 (1)	5.79	11-5	0 / 263	0.06 (1)	11-5	0 / 263	0.06 (1)	
				6-7	-1225 / 0	-77.3	-77.3 0.25 (1)	5.52	11-6	-225 / 0	0.19 (1)	11-6	-225 / 0	0.19 (1)	
				14-2	-1242 / 0	0.0	0.0 0.13 (1)	7.20	9-6	-203 / 21	0.08 (1)	9-6	-203 / 21	0.08 (1)	
				8-7	-1137 / 0	0.0	0.0 0.12 (1)	7.45	2-13	0 / 1145	0.26 (1)	2-13	0 / 1145	0.26 (1)	
									9-7	0 / 1081	0.24 (1)	9-7	0 / 1081	0.24 (1)	
				14-13	0 / 0	-17.5	-17.5 0.11 (4)	10.00							
				13-12	0 / 1122	-17.5	-17.5 0.23 (1)	10.00							
				12-11	0 / 895	-17.5	-17.5 0.19 (1)	10.00							
				11-10	0 / 1039	-17.5	-17.5 0.21 (1)	10.00							
				10-9	0 / 1039	-17.5	-17.5 0.21 (1)	10.00							
				9-8	0 / 0	-17.5	-17.5 0.10 (4)	10.00							

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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=0.27 (3-12:1), SSI=0.16 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

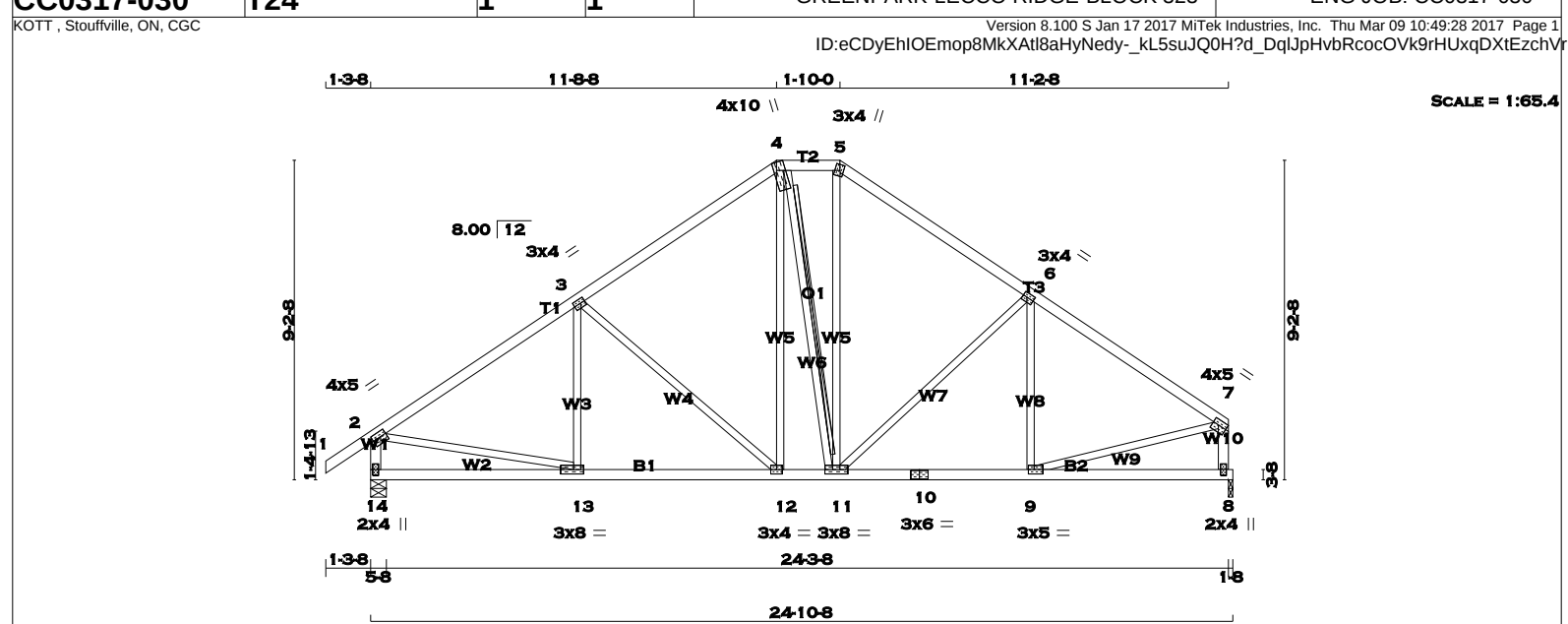
JSI GRIP= 0.89 (9) (INPUT = 0.90)
JSI METAL= 0.45 (2) (INPUT = 1.00)

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RECEIVED
TOWN OF MILTON
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17-4949
BUILDING DIVISION





TOTAL WEIGHT = 117 lb																																																																																																																																																																																																													
[M][F]																																																																																																																																																																																																													
LUMBER N. L. G. A. RULES <table><tr><td>CHORDS</td><td>SIZE</td><td>LUMBER</td><td>DESCR.</td></tr><tr><td>1 - 4</td><td>2x4</td><td>DRY</td><td>No.2</td></tr><tr><td>4 - 5</td><td>2x4</td><td>DRY</td><td>No.2</td></tr><tr><td>5 - 7</td><td>2x4</td><td>DRY</td><td>No.2</td></tr><tr><td>14 - 2</td><td>2x4</td><td>DRY</td><td>No.2</td></tr><tr><td>8 - 7</td><td>2x4</td><td>DRY</td><td>No.2</td></tr><tr><td>14 - 10</td><td>2x4</td><td>DRY</td><td>No.2</td></tr><tr><td>10 - 8</td><td>2x4</td><td>DRY</td><td>No.2</td></tr><tr><td>ALL WEBS EXCEPT</td><td>2x3</td><td>DRY</td><td>No.2</td></tr></table> DRY: SEASONED LUMBER.										CHORDS	SIZE	LUMBER	DESCR.	1 - 4	2x4	DRY	No.2	4 - 5	2x4	DRY	No.2	5 - 7	2x4	DRY	No.2	14 - 2	2x4	DRY	No.2	8 - 7	2x4	DRY	No.2	14 - 10	2x4	DRY	No.2	10 - 8	2x4	DRY	No.2	ALL WEBS EXCEPT	2x3	DRY	No.2																																																																																																																																																																
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COMPONENT REACTIONS							JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	14	896	640 / 0	0 / 0	0 / 0	0 / 0	256 / 0	0 / 0	8	824	576 / 0	0 / 0	0 / 0	0 / 0	247 / 0	0 / 0	CHORDS				WEBS				MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)		FR-TO		FROM TO		FR-TO				1-2	0 / 29	-77.3 -77.3	0.10 (1)	10.00	13-3	-85 / 76	0.04 (1)	2-3	-1324 / 0	-77.3 -77.3	0.38 (1)	5.19	3-12	-414 / 0	0.50 (1)	3-4	-1009 / 0	-77.3 -77.3	0.36 (1)	5.77	12-4	0 / 321	0.07 (1)	4-5	-813 / 0	-77.3 -77.3	0.04 (1)	6.25	4-11	-15 / 0	0.01 (1)	5-6	-1004 / 0	-77.3 -77.3	0.33 (1)	5.83	11-5	0 / 312	0.07 (1)	6-7	-1237 / 0	-77.3 -77.3	0.34 (1)	5.38	11-6	-333 / 0	0.39 (1)	14-2	-1238 / 0	0.0 0.0	0.13 (1)	7.22	9-6	-151 / 51	0.07 (1)	8-7	-1133 / 0	0.0 0.0	0.12 (1)	7.46	2-13	0 / 1144	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 / 816	-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			
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8-7	-1133 / 0	0.0 0.0	0.12 (1)	7.46	2-13	0 / 1144	0.26 (1)																																																																																																																																																																																																						
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9-8	0 / 0	-17.5 -17.5	0.14 (4)	10.00																																																																																																																																																																																																									
DESIGN CRITERIA SPECIFIED LOADS: <table><tr><td>TOP CH.</td><td>LL</td><td>=</td><td>23.3</td><td>PSF</td></tr><tr><td></td><td>DL</td><td>=</td><td>3.0</td><td>PSF</td></tr><tr><td>BOT CH.</td><td>LL</td><td>=</td><td>0.0</td><td>PSF</td></tr><tr><td></td><td>DL</td><td>=</td><td>7.0</td><td>PSF</td></tr><tr><td>TOTAL LOAD</td><td>=</td><td>33.3</td><td>PSF</td><td></td></tr></table> SPACING = 24.0 IN. C/C LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12 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=0.50 (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 <table><tr><td>PLATE</td><td>GRIP(DRY) (PSI)</td><td>SHEAR (PLI)</td><td>SECTION (PLI)</td></tr><tr><td></td><td>MAX MIN</td><td>MAX MIN</td><td>MAX MIN</td></tr><tr><td>MT20</td><td>618 354</td><td>1667 822</td><td>2284 1656</td></tr></table> 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)										TOP CH.	LL	=	23.3	PSF		DL	=	3.0	PSF	BOT CH.	LL	=	0.0	PSF		DL	=	7.0	PSF	TOTAL LOAD	=	33.3	PSF		PLATE	GRIP(DRY) (PSI)	SHEAR (PLI)	SECTION (PLI)		MAX MIN	MAX MIN	MAX MIN	MT20	618 354	1667 822	2284 1656																																																																																																																																																															
TOP CH.	LL	=	23.3	PSF																																																																																																																																																																																																									
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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.

LICENSED PROFESSIONAL ENGINEER

C.G. CARSON

100076892

PROVINCE OF ONTARIO

09 MAR 2017

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MAR 29, 2017

17-4949

BUILDING DIVISION

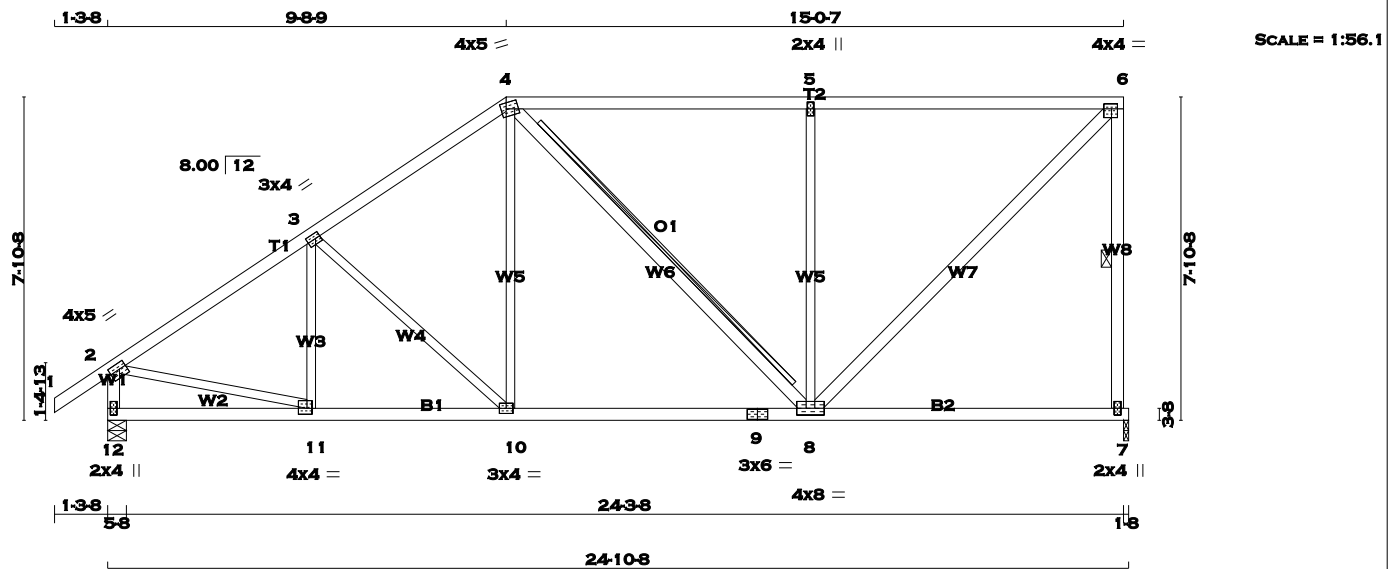
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READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



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TOTAL WEIGHT = 118 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	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	BMVWW-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
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 = 4.88 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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	-156 / 30	0.05 (1)
2-3	-1318 / 0	-77.3	-77.3 0.35 (1)	5.22	3-10	-267 / 0	0.21 (1)
3-4	-1131 / 0	-77.3	-77.3 0.34 (1)	5.54	10-4	0 / 283	0.06 (1)
4-5	-901 / 0	-77.3	-77.3 0.83 (1)	4.88	4-8	-31 / 0	0.02 (1)
5-6	-901 / 0	-77.3	-77.3 0.83 (1)	4.88	8-5	-723 / 0	0.84 (1)
7-6	-1121 / 0	0.0	0.0 0.31 (1)	5.99	8-6	0 / 1271	0.20 (1)
12-2	-1242 / 0	0.0	0.0 0.13 (1)	7.20	2-11	0 / 1143	0.26 (1)
12-11	0 / 0	-17.5	-17.5 0.09 (4)	10.00			
11-10	0 / 1117	-17.5	-17.5 0.25 (1)	10.00			
10-9	0 / 923	-17.5	-17.5 0.32 (4)	10.00			
9-8	0 / 923	-17.5	-17.5 0.32 (4)	10.00			
8-7	0 / 0	-17.5	-17.5 0.25 (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=0.83 (5-6:1), BC=0.32 (8-10:4), WB=0.84 (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.

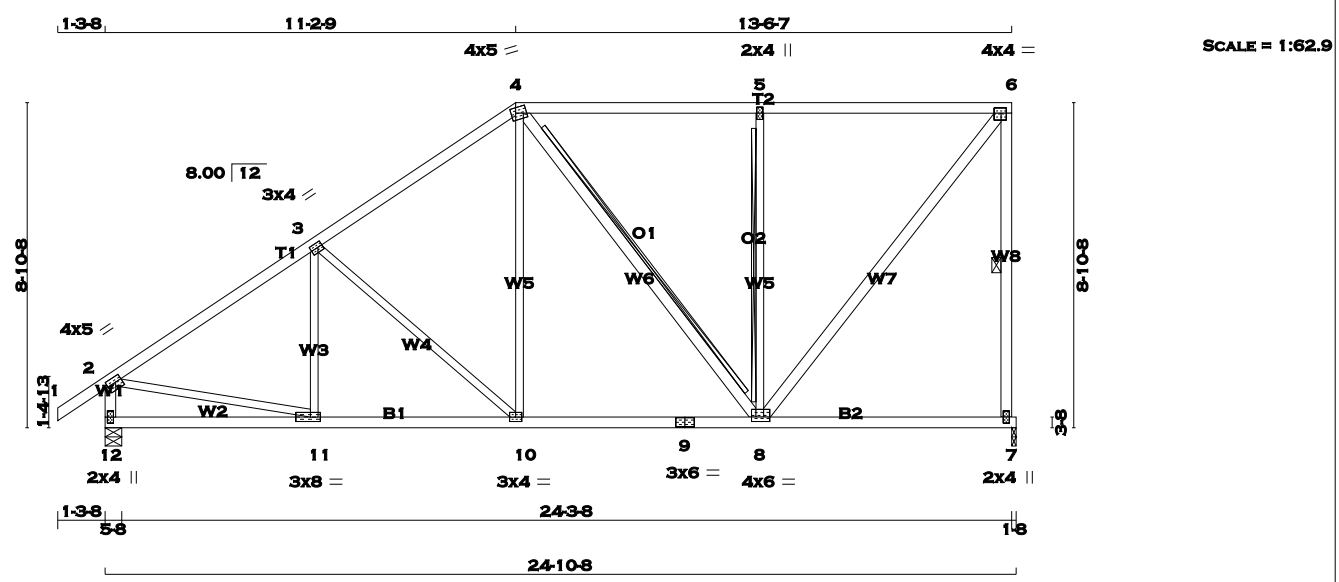
JSI GRIP= 0.86 (2) (INPUT = 0.90)
JSI METAL= 0.44 (2) (INPUT = 1.00)

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.		CHORDS	SIZE	LUMBER	DESCR.	
1 - 4	2x4	DRY	No.2	SPF	1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF	4 - 6	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF	7 - 6	2x4	DRY	No.2	SPF
12 - 2	2x4	DRY	No.2	SPF	12 - 2	2x4	DRY	No.2	SPF
12 - 9	2x4	DRY	No.2	SPF	12 - 9	2x4	DRY	No.2	SPF
9 - 7	2x4	DRY	No.2	SPF	9 - 7	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF	ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT					EXCEPT				
4 - 8	2x4	DRY	No.2	SPF	4 - 8	2x4	DRY	No.2	SPF
8 - 6	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	TMVW-t	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	BMVW-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	3.25
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									
		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
7		824	576 / 0	0 / 0	0 / 0	0 / 0	247 / 0
12		896	640 / 0	0 / 0	0 / 0	0 / 0	256 / 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 = 5.02 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			WEBS				
		MAX. FACTORED	FACTORED		MEMB.	MAX. FACTORED			
		FORCE	VERT. LOAD	LC1 MAX	MEMB.	FORCE	MAX		
		(LBS)	(PLF)	CSI (LC)	MEMB.	(LBS)	CSI (LC)		
			FROM TO	UNBRAC			LENGTH FR-TO		
					FR-TO				
1-2		0 / 29	-77.3	-77.3	0.10 (1)	10.00	11-3	-105 / 61	0.04 (1)
2-3		-1323 / 0	-77.3	-77.3	0.49 (1)	5.02	3-10	-375 / 0	0.41 (1)
3-4		-1043 / 0	-77.3	-77.3	0.46 (1)	5.52	10-4	0 / 347	0.08 (1)
4-5		-739 / 0	-77.3	-77.3	0.64 (1)	5.81	4-8	-174 / 0	0.14 (1)
5-6		-739 / 0	-77.3	-77.3	0.64 (1)	5.81	8-5	-650 / 0	0.83 (1)
7-6		-1125 / 0	0.0	0.0	0.41 (1)	5.98	8-6	0 / 1182	0.19 (1)
12-2		-1238 / 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	0.13 (4)	10.00			
11-10		0 / 1125	-17.5	-17.5	0.24 (1)	10.00			
10-9		0 / 846	-17.5	-17.5	0.27 (4)	10.00			
9-8		0 / 846	-17.5	-17.5	0.27 (4)	10.00			
8-7		0 / 0	-17.5	-17.5	0.20 (4)	10.00			

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

SPACING = 24.0 IN./C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.82")
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=0.64 (5-6:1) , BC=0.27 (8-10:4) , WB=0.83 (5-8:1) , SSI=0.26 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (8) (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.



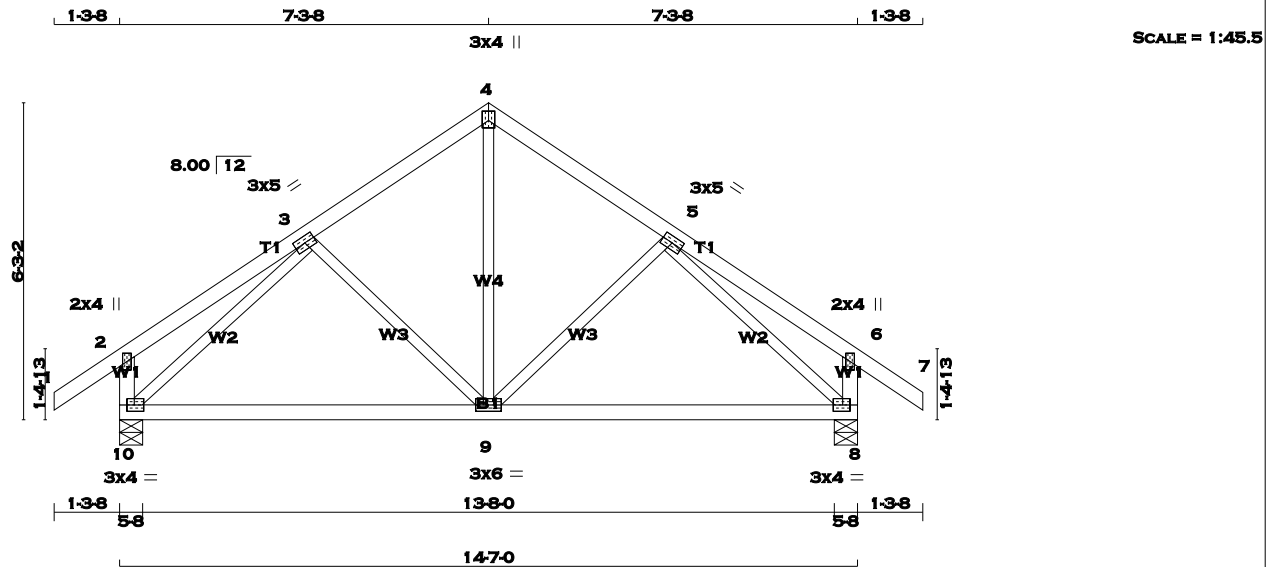
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JSI GRIP= 0.90 (12) (INPUT = 0.90)
JSI METAL= 0.45 (2) (INPUT = 1.00)





TOTAL WEIGHT = 63 lb
[M][F]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
3	TMWW-t	MT20	3.0	5.0		
4	TTW+p	MT20	3.0	4.0	2.25	1.50
5	TMWW-t	MT20	3.0	5.0		
6	TMV+p	MT20	2.0	4.0		
8	BMVW1-t	MT20	3.0	4.0	1.50	1.75
9	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.

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		MAXIMUM FACTORED		INPUT		REQRD	
		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
10		798	0	798	0	0	5-8	5-8	
8		798	0	798	0	0	5-8	5-8	

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
10	558	403 / 0	0 / 0	0 / 0	0 / 0	154 / 0	0 / 0
8	558	403 / 0	0 / 0	0 / 0	0 / 0	154 / 0	0 / 0

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

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

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

LOADING				TOTAL LOAD CASES: (4)			
CHORDS		WEBS					
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)
FR-TO		FROM	TO		FR-TO		
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	9-4	0 / 371	0.08 (1)
2-3	0 / 18	-77.3	-77.3 0.16 (1)	10.00	9-5	-155 / 5	0.07 (1)
3-4	-550 / 0	-77.3	-77.3 0.13 (1)	6.25	3-9	-155 / 5	0.07 (1)
4-5	-550 / 0	-77.3	-77.3 0.13 (1)	6.25	10-3	-770 / 0	0.31 (1)
5-6	0 / 18	-77.3	-77.3 0.16 (1)	10.00	5-8	-770 / 0	0.31 (1)
6-7	0 / 29	-77.3	-77.3 0.10 (1)	10.00			
10-2	-215 / 0	0.0	0.0 0.02 (1)	7.81			
8-6	-215 / 0	0.0	0.0 0.02 (1)	7.81			
10-9	0 / 554	-17.5	-17.5 0.30 (4)	10.00			
9-8	0 / 554	-17.5	-17.5 0.30 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C/C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.49")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.49")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.07")

CSI: TC=0.16 (5-6:1) , BC=0.30 (9-10:4) , WB=0.31 (5-8:1) , SSI=0.11 (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

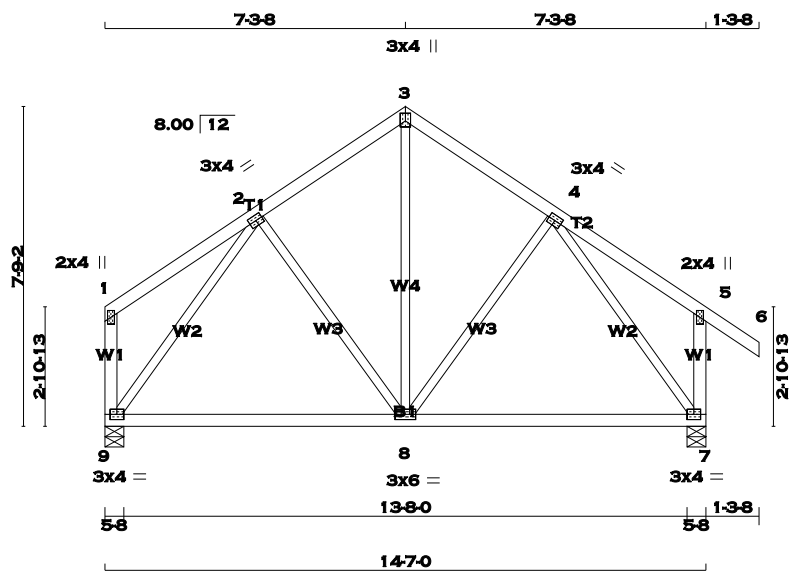
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (8) (INPUT = 0.90)
JSI METAL= 0.22 (3) (INPUT = 1.00)



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SCALE = 1:55.9

TOTAL WEIGHT = 69 lb

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
1 - 3	2x4	DRY	No.2	SPF
3 - 6	2x4	DRY	No.2	SPF
9 - 1	2x4	DRY	No.2	SPF
7 - 5	2x4	DRY	No.2	SPF
9 - 7	2x4	DRY	No.2	SPF
ALL WEBS 2x3 DRY No.2 SPF				
EXCEPT				
DRY: SEASONED LUMBER.				

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

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

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
9		692	0	692	0	0	5-8	5-8	
7		798	0	798	0	0	5-8	5-8	

UNFACTORED REACTIONS							
		1ST LCASE	MAX./MIN. COMPONENT REACTIONS				
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
9		485	340 / 0	0 / 0	0 / 0	0 / 0	146 / 0
7		558	403 / 0	0 / 0	0 / 0	0 / 0	154 / 0

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

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

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

LOADING									
TOTAL LOAD CASES: (4)									
CHORDS					WEBS				
		MAX. FACTORED	FACTORED				MAX. FACTORED		
		MEMB. FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)			MEMB. FORCE (LBS)	MAX (LC)	
FR-TO			FROM	TO	LENGTH	FR-TO			
1-2		0 / 18	-77.3	-77.3	0.17 (1)	10.00	8-3	0 / 257	0.06 (1)
2-3		-443 / 0	-77.3	-77.3	0.13 (1)	6.25	8-4	-61 / 28	0.04 (1)
3-4		-444 / 0	-77.3	-77.3	0.13 (1)	6.25	2-8	-61 / 28	0.04 (1)
4-5		0 / 18	-77.3	-77.3	0.17 (1)	10.00	9-2	-661 / 0	0.43 (1)
5-6		0 / 29	-77.3	-77.3	0.10 (1)	10.00	4-7	-661 / 0	0.43 (1)
9-1		-109 / 0	0.0	0.0	0.02 (1)	7.81			
7-5		-215 / 0	0.0	0.0	0.03 (1)	7.81			
9-8		0 / 390	-17.5	-17.5	0.29 (4)	10.00			
8-7		0 / 390	-17.5	-17.5	0.29 (4)	10.00			

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

SPACING = 24.0 IN./C/C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.49")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.49")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.06")

CSI: TC=0.17 (4-5:1) , BC=0.29 (7-8:4) , WB=0.43 (4-7:1) , SSI=0.11 (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.

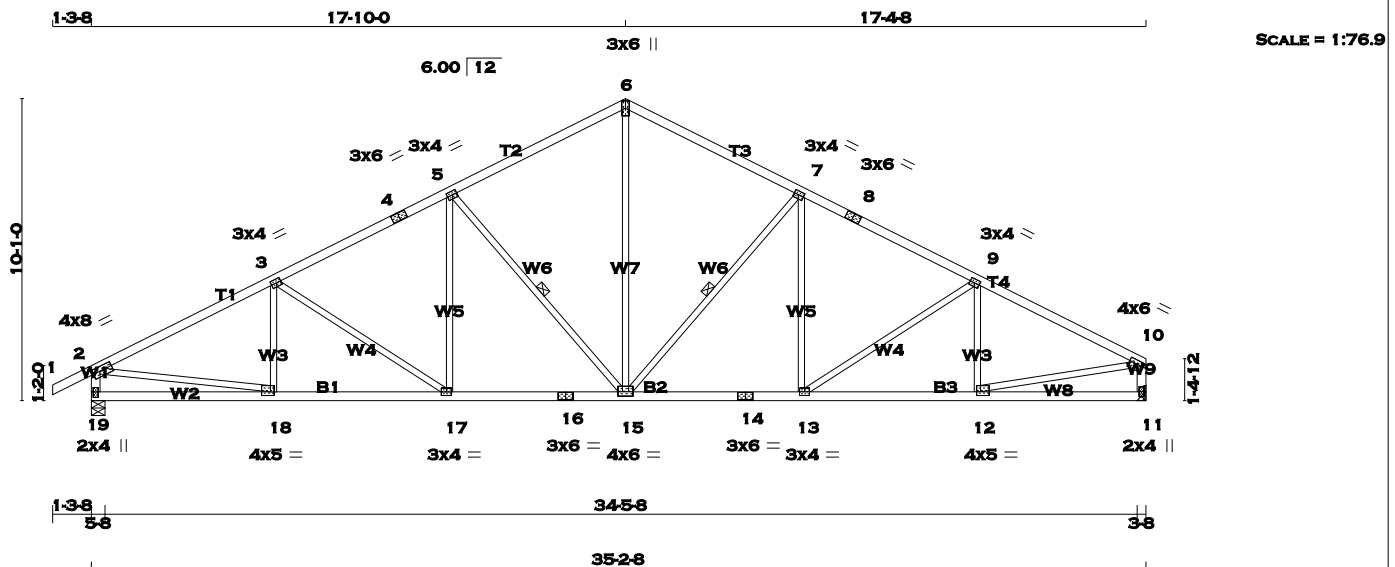
JSI GRIP= 0.89 (2) (INPUT = 0.90)
JSI METAL= 0.23 (4) (INPUT = 1.00)

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 147 = 884 lb
[M][F]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	8.0	1.75	3.00
3, 5, 7, 9	TS-t	MT20	3.0	4.0	1.50	1.75
4	TS-t	MT20	3.0	4.0	1.50	1.75
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	1.50
13	BMVW-t	MT20	3.0	4.0		
14	BS-t	MT20	3.0	6.0		
15	BMVW-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									
BEARINGS									
		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX		
19		1775	0	1775	0	5-8	5-8		
11		1670	0	1670	0	0	0		

HANGER BY OTHERS
MIN. SEAT SIZE: 3-8

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS	LIVE	PERM.LIVE	WIND	DEAD
19	1243	883 / 0	0 / 0	0 / 0	0 / 0	0 / 0	360 / 0
11	1172	820 / 0	0 / 0	0 / 0	0 / 0	0 / 0	352 / 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 VERT. LOAD (LC1)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC1)	UNBRACED LENGTH FR-TO
FR-TO		FROM TO		FR-TO			
1-2	0 / 23	-77.3 -77.3	0.10 (1)	10.00	18-3	-202 / 39	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	-1707 / 0	-77.3 -77.3	0.37 (1)	4.74	15-6	0 / 1143	0.26 (1)
6-7	-1707 / 0	-77.3 -77.3	0.37 (1)	4.73	15-7	-655 / 0	0.37 (1)
7-8	-2162 / 0	-77.3 -77.3	0.38 (1)	4.31	13-7	0 / 206	0.05 (4)
8-9	-2162 / 0	-77.3 -77.3	0.38 (1)	4.31	13-9	-190 / 0	0.18 (1)
9-10	-2322 / 0	-77.3 -77.3	0.38 (1)	4.17	12-9	-297 / 6	0.08 (1)
19-2	-1729 / 0	0.0 0.0	0.17 (1)	6.33	2-18	0 / 2255	0.51 (1)
11-10	-1627 / 0	0.0 0.0	0.17 (1)	6.48	12-10	0 / 2132	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 / 1935	-17.5 -17.5	0.38 (1)	10.00
14-13	0 / 1935	-17.5 -17.5	0.38 (1)	10.00
13-12	0 / 2093	-17.5 -17.5	0.39 (1)	10.00
12-11	0 / 0	-17.5 -17.5	0.13 (4)	10.00

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.17")
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 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.

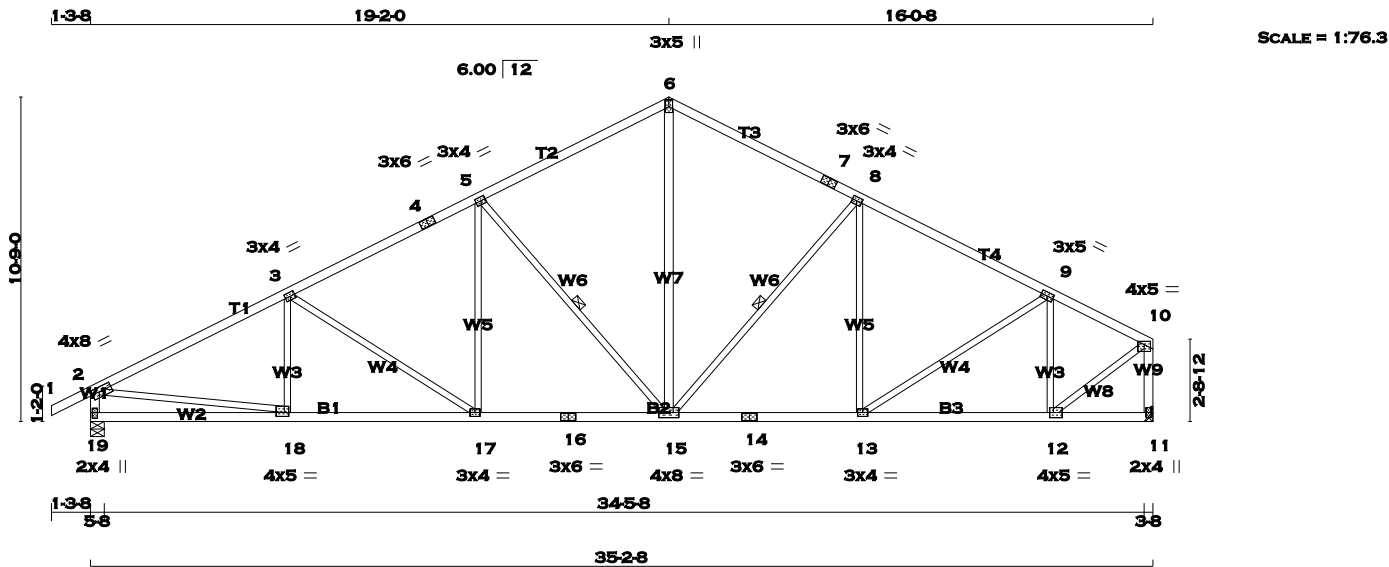
JSI GRIP= 0.88 (10) (INPUT = 0.90)
JSI METAL= 0.67 (18) (INPUT = 1.00)

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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TOTAL WEIGHT = 155 lb
[M][F]

LUMBER				N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.	CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF			
4 - 6	2x4	DRY	No.2	SPF			
6 - 7	2x4	DRY	No.2	SPF			
7 - 10	2x4	DRY	No.2	SPF			
19 - 2	2x4	DRY	No.2	SPF			
11 - 10	2x4	DRY	No.2	SPF			
19 - 16	2x4	DRY	No.2	SPF			
16 - 14	2x4	DRY	No.2	SPF			
14 - 11	2x4	DRY	No.2	SPF			
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF			
15 - 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	8.0	1.75	3.00
3, 5, 8						
3	TMWW-t	MT20	3.0	4.0	1.50	1.75
4	TS-t	MT20	3.0	6.0		
6	TTW+p	MT20	3.0	5.0	2.75	1.50
7	TS-t	MT20	3.0	6.0		
9	TMWW-t	MT20	3.0	5.0		
10	TMVW-p	MT20	4.0	5.0	Edge	
11	BMV1+p	MT20	2.0	4.0		
12	BMWW-t	MT20	4.0	5.0	2.00	1.50
13	BMWW-t	MT20	3.0	4.0		
14	BS-t	MT20	3.0	6.0		
15	BMWWW-t	MT20	4.0	8.0		
16	BS-t	MT20	3.0	6.0		
17	BMWW-t	MT20	3.0	4.0		
18	BMWW-t	MT20	4.0	5.0	1.50	1.75
19	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				MAXIMUM FACTORED				INPUT				REQRD			
JT	COMBINED	SNOW	LIVE	DOWN	HORZ	UPLIFT	IN-SX	BRG	BRG	BRG	BRG	BRG	BRG	BRG	BRG	BRG	BRG	BRG	BRG
19	1775	0	1775	0	0	0	5-8	5-8											
11	1670	0	1670	0	0	0													

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN.	COMPONENT	REACTIONS			
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 = 3.89 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-15. DBS = 18-0-0 . CBF = 89 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 8-15. DBS = 20-0-0 . CBF = 50 LBS.

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

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

LOADING
TOTAL LOAD CASES: (4)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED	FACTORED		MEMB.	MAX. FACTORED	FACTORED	
FR-TO	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CSI (LC)	FR-TO	FORCE (LBS)	MAX CSI (LC)	
1-2	0 / 23	-77.3	-77.3 0.10 (1)	10.00	18-3	-173 / 54	0.05 (1)
2-3	-2485 / 0	-77.3	-77.3 0.55 (1)	3.89	3-17	-385 / 0	0.44 (1)
3-4	-2146 / 0	-77.3	-77.3 0.43 (1)	4.27	17-5	0 / 317	0.07 (1)
4-5	-2146 / 0	-77.3	-77.3 0.43 (1)	4.27	5-15	-788 / 0	0.52 (1)
5-6	-1589 / 0	-77.3	-77.3 0.42 (1)	4.80	15-6	0 / 1014	0.16 (1)
6-7	-1591 / 0	-77.3	-77.3 0.43 (1)	4.78	15-8	-403 / 0	0.27 (1)
7-8	-1591 / 0	-77.3	-77.3 0.43 (1)	4.78	13-8	-130 / 57	0.14 (1)
8-9	-1852 / 0	-77.3	-77.3 0.43 (1)	4.50	13-9	0 / 443	0.10 (1)
9-10	-1426 / 0	-77.3	-77.3 0.20 (1)	5.26	12-9	-828 / 0	0.24 (1)
19-2	-1726 / 0	0.0	0.0 0.17 (1)	6.33	2-18	0 / 2260	0.51 (1)
11-10	-1651 / 0	0.0	0.0 0.23 (1)	6.45	12-10	0 / 1590	0.36 (1)
19-18	0 / 0	-17.5	-17.5 0.17 (4)	10.00			
18-17	0 / 2241	-17.5	-17.5 0.43 (1)	10.00			
17-16	0 / 1919	-17.5	-17.5 0.39 (1)	10.00			
16-15	0 / 1919	-17.5	-17.5 0.39 (1)	10.00			
15-14	0 / 1667	-17.5	-17.5 0.35 (1)	10.00			
14-13	0 / 1667	-17.5	-17.5 0.35 (1)	10.00			
13-12	0 / 1296	-17.5	-17.5 0.28 (1)	10.00			
12-11	0 / 0	-17.5	-17.5 0.10 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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 (0.21")

CSI: TC=0.55 (2-3:1) , BC=0.43 (17-18:1) , WB=0.52 (5-15:1) , SSI=0.21 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

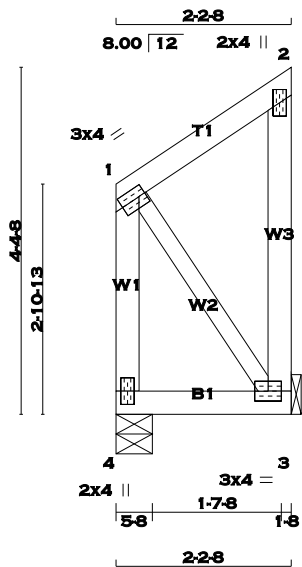
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (18) (INPUT = 0.90)
JSI METAL= 0.67 (18) (INPUT = 1.00)





SCALE = 1:29.0

TOTAL WEIGHT = 15 lb
[M][F]

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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	3.0	4.0	1.50	1.00
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

		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
4		105	0	105	0	0	5-8	5-8	
3		105	0	105	0	0	1-8	1-8	

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
4	73	51 / 0	0 / 0	0 / 0	0 / 0	22 / 0	0 / 0	
3	73	51 / 0	0 / 0	0 / 0	0 / 0	22 / 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				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			
4-1	-85 / 0	0.0	0.0 0.01 (1)	1-3	0 / 0	0.00 (1)	
1-2	0 / 0	-77.3	-77.3 0.06 (1)				
3-2	-85 / 0	0.0	0.0 0.02 (1)				
4-3	0 / 0	-17.5	-17.5 0.03 (4)				

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

CSI: TC=0.06 (1-2:1), BC=0.03 (3-4:4), WB=0.00 (1-3:1), SSI=0.06 (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= 0.09 (3) (INPUT = 0.90)
JSI METAL= 0.02 (2) (INPUT = 1.00)

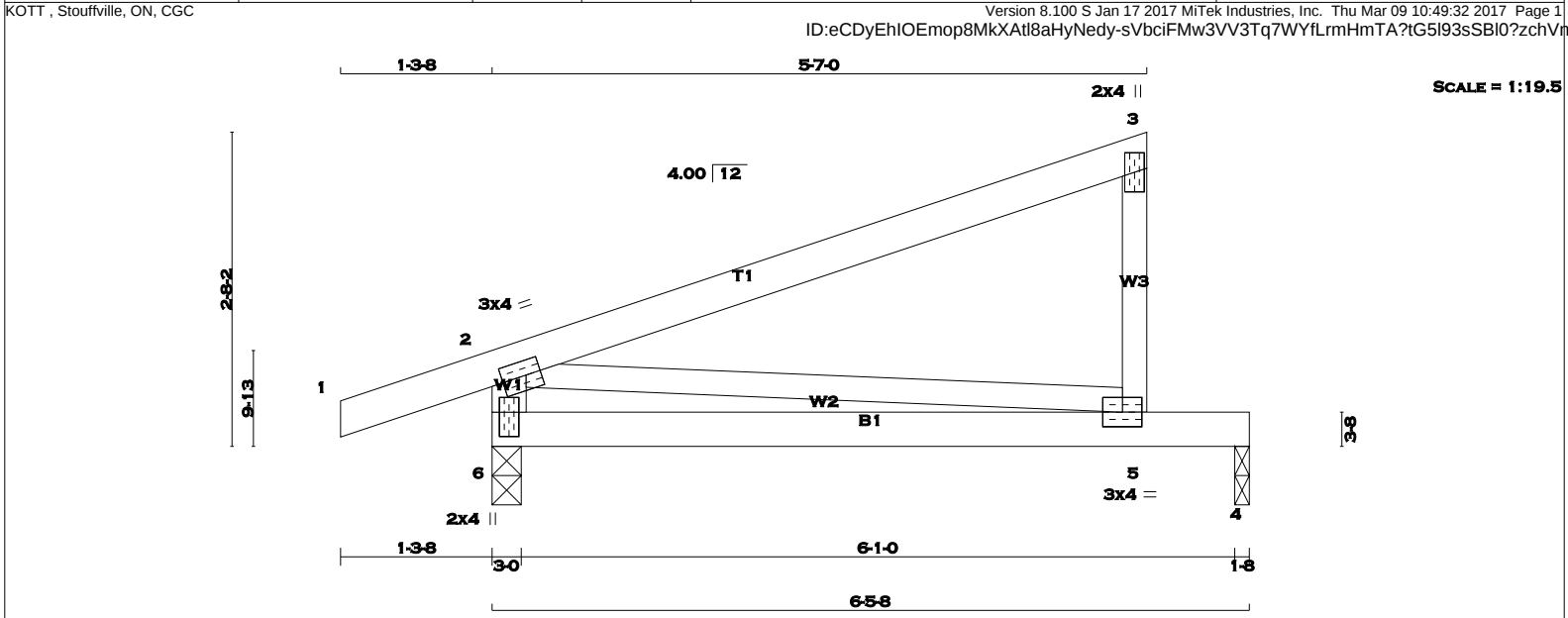
READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



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TOTAL WEIGHT = 9 X 22 = 197 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

		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD 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
6		282	210 / 0	0 / 0	0 / 0	0 / 0	72 / 0
4		172	112 / 0	0 / 0	0 / 0	0 / 0	60 / 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)	MAX. UNBRACED LENGTH	MEMB.	
FR-TO			FROM TO			FR-TO	
1-2		0 / 16	-77.3	-77.3	0.10 (1)	2-5	0 / 0
2-3		0 / 0	-77.3	-77.3	0.41 (1)		
5-3		-216 / 0	0.0	0.0	0.04 (1)		
6-2		-319 / 0	0.0	0.0	0.03 (1)		
6-5		0 / 0	-17.5	-17.5	0.29 (1)		
5-4		0 / 0	-17.5	-17.5	0.28 (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

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
MT20	618	354	1667	822	2284

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

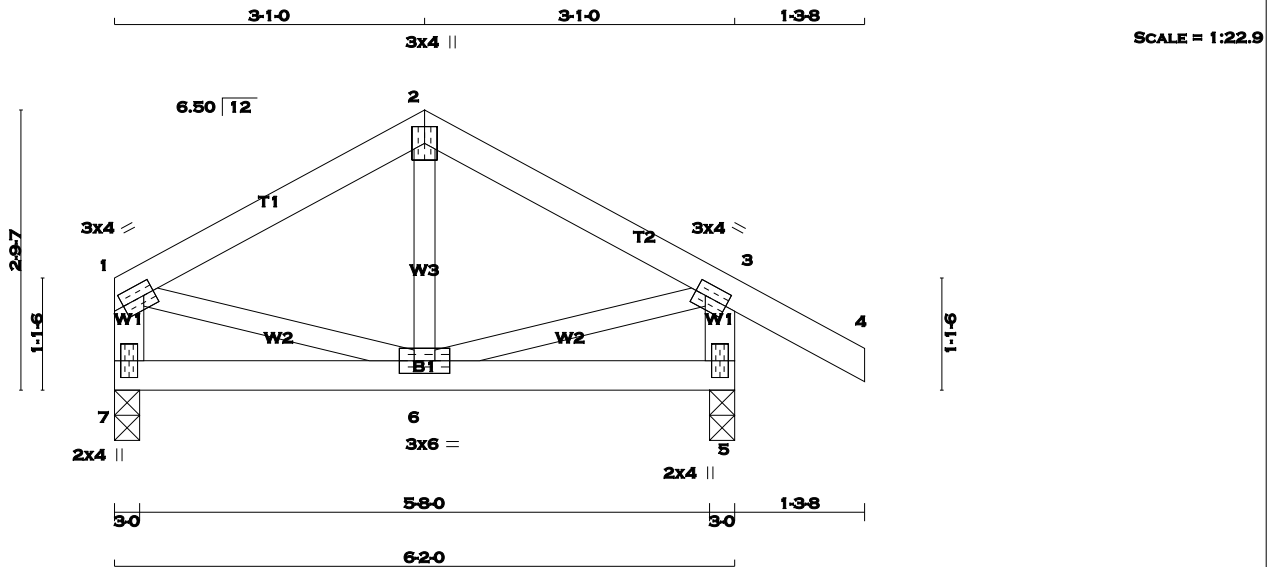
JSI GRIP= 0.29 (2) (INPUT = 0.90)
JSI METAL= 0.06 (6) (INPUT = 1.00)

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 25 = 50 lb
[M][F]

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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	3.0	4.0	1.50	1.25
2	TTW+p	MT20	3.0	4.0		
3	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	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
5		292	0	292	0	0	3-0	3-0	
5		398	0	398	0	0	3-0	3-0	

UNFACTORED REACTIONS

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

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		MAX. FACTORED		FACTORED		WEBS		MAX. FACTORED	
MEMB.		FORCE (LBS)		VERT. LOAD	LC1 MAX	MEMB.		FORCE (LBS)	MAX
FR-TO				FROM	TO	FR-TO			CS1 (LC)
1-2		-214 / 0		-77.3	-77.3 0.09 (1)	6-2		-34 / 42	0.01 (4)
2-3		-214 / 0		-77.3	-77.3 0.09 (1)	1-6		0 / 195	0.04 (1)
3-4		0 / 25		-77.3	-77.3 0.10 (1)	6-3		0 / 195	0.04 (1)
7-1		-270 / 0		0.0	0.0 0.03 (1)				
5-3		-376 / 0		0.0	0.0 0.04 (1)				
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 (3-4:1) , BC=0.04 (6-7:4) , WB=0.04 (3-6:1) , 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
MT20	618	354	1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.48 (1) (INPUT = 0.90)
JSI METAL= 0.12 (3) (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.



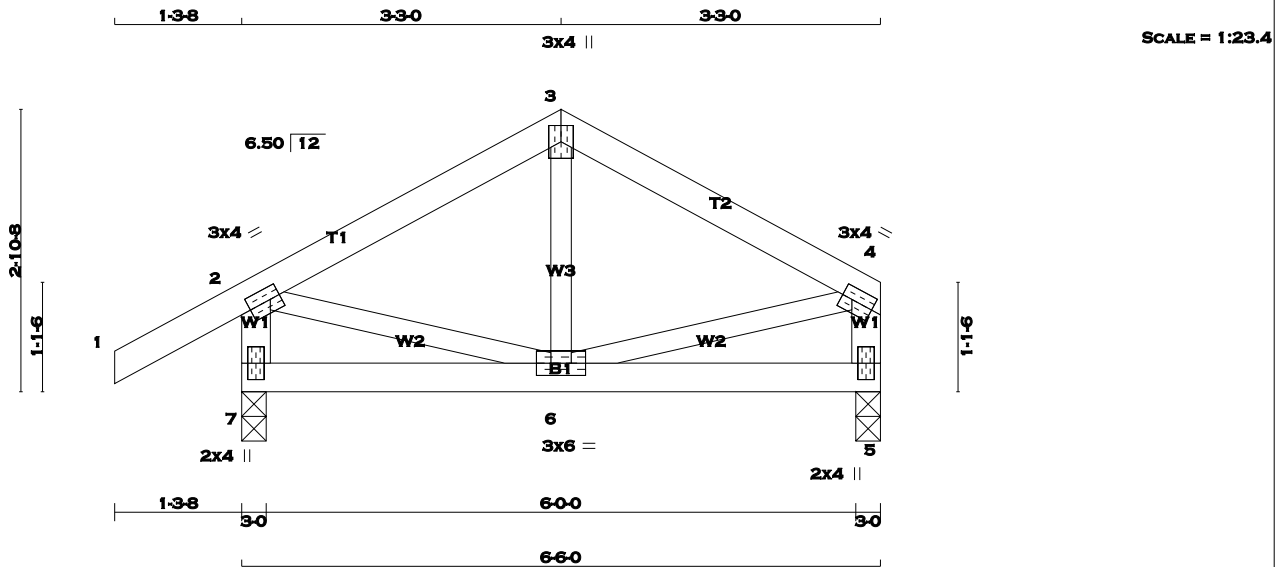
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KOTT , Stouffville, ON, CGC

Version 8.100 S Jan 17 2017 MiTek Industries, Inc. Thu Mar 09 10:49:32 2017 Page 1

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TOTAL WEIGHT = 4 X 26 = 104 lb [M][F]

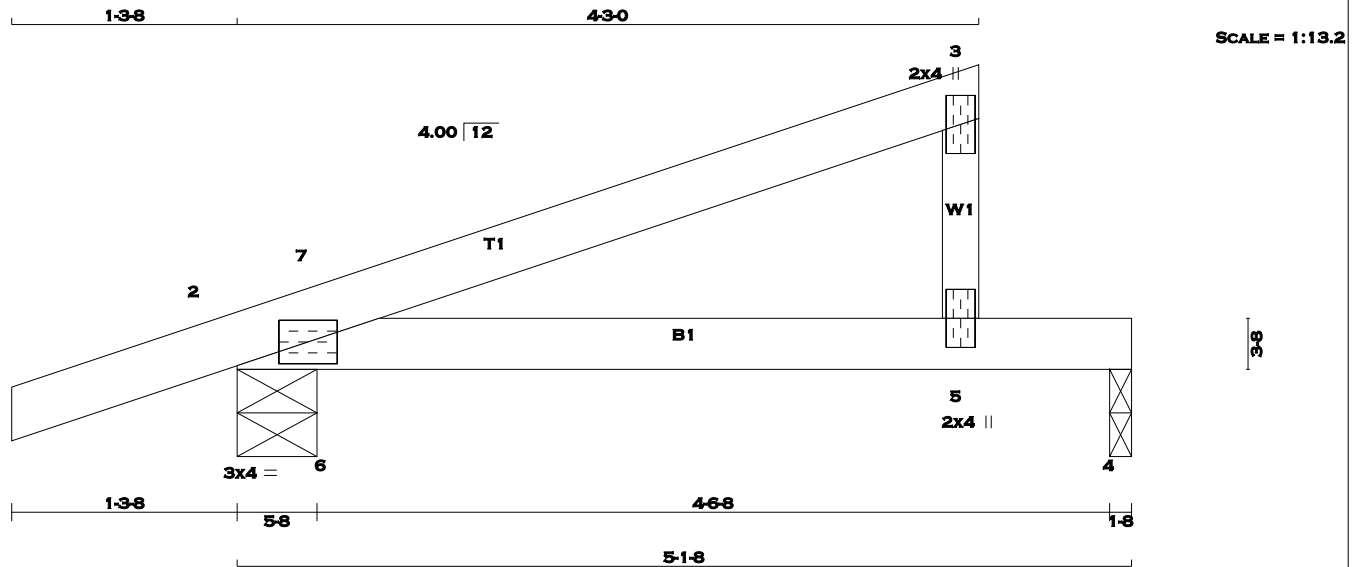
LUMBER					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA			
N. L. G. A. RULES					BEARINGS										SPECIFIED LOADS:			
CHORDS	SIZE	LUMBER	DESCR.		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG		TOP CH. LL = 23.3 PSF					
1 - 3	2x4	DRY	No.2	SPF	JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	DL = 3.0 PSF					
3 - 4	2x4	DRY	No.2	SPF	7	414	0	414	0	0	3-0	3-0	BOT CH. LL = 0.0 PSF					
7 - 2	2x4	DRY	No.2	SPF	5	308	0	308	0	0	3-0	3-0	DL = 7.0 PSF					
5 - 4	2x4	DRY	No.2	SPF											TOTAL LOAD = 33.3 PSF			
7 - 5	2x4	DRY	No.2	SPF											SPACING = 24.0 IN./C			
ALL WEBS EXCEPT					UNFACTORED REACTIONS										THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010			
DRY: SEASONED LUMBER.					1ST LCASE MAX./MIN. COMPONENT REACTIONS										THIS DESIGN COMPLIES WITH:			
					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										RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD			
					BRACING										(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			
					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.										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")			
					ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.										CSI: TC=0.10 (3-4:1) , BC=0.05 (6-7:4) , WB=0.05 (2-6:1) , SSI=0.09 (3-4:1)			
					LOADING										DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10			
					TOTAL LOAD CASES: (4)										COMPANION LIVE LOAD FACTOR = 0.50			
					CHORDS										TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .			
					MEMB. MAX. FACTORED FORCE (LBS)										NAIL VALUES			
					FACTORED VERT. LOAD LC1 MAX (PLF)										PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)			
					CSI (LC)										MAX MIN MAX MIN MAX MIN			
					UNBRAC LENGTH FR-TO										MT20 618 354 1667 822 2284 1656			
					FR-TO										PLATE PLACEMENT TOL. = 0.250 inches			
					1-2										PLATE ROTATION TOL. = 5.0 Deg.			
					2-3										JSI GRIP= 0.52 (4) (INPUT = 0.90)			
					3-4										JSI METAL= 0.13 (4) (INPUT = 1.00)			
					7-2													
					5-4													
					7-6													
					6-5													

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TOTAL WEIGHT = 6 X 14 = 81 lb [M]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMB1-I	MT20	3.0	4.0		
3	TMV+p	MT20	2.0	4.0		
5	BMV+p	MT20	2.0	4.0		

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

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

		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
2		341	0	341	0	0	5-8	5-8	
4		181	0	181	0	0	1-8	1-8	

UNFACTORED REACTIONS

		1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
2		237	178 / 0	0 / 0	0 / 0	0 / 0	59 / 0	0 / 0	
4		129	82 / 0	0 / 0	0 / 0	0 / 0	46 / 0	0 / 0	

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED MAX. CSI (LC)	
FR-TO		FROM	TO	FR-TO			
1-2	0 / 15	-77.3	-77.3	0.10 (1)	10.00		
2-7	-28 / 0	-77.3	-77.3	0.08 (4)	6.25		
7-3	0 / 4	-77.3	-77.3	0.21 (1)	10.00		
5-3	-154 / 0	0.0	0.0	0.02 (1)	7.81		
2-6	0 / 0	-17.5	-17.5	0.11 (1)	10.00		
6-5	0 / 0	-17.5	-17.5	0.21 (1)	10.00		
5-4	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 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 694 (0.09")

CSI: TC=0.21 (3-7:1), BC=0.21 (5-6:1), WB=0.00 (6-7:1), 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= 0.17 (2) (INPUT = 0.90)
JSI METAL= 0.05 (2) (INPUT = 1.00)

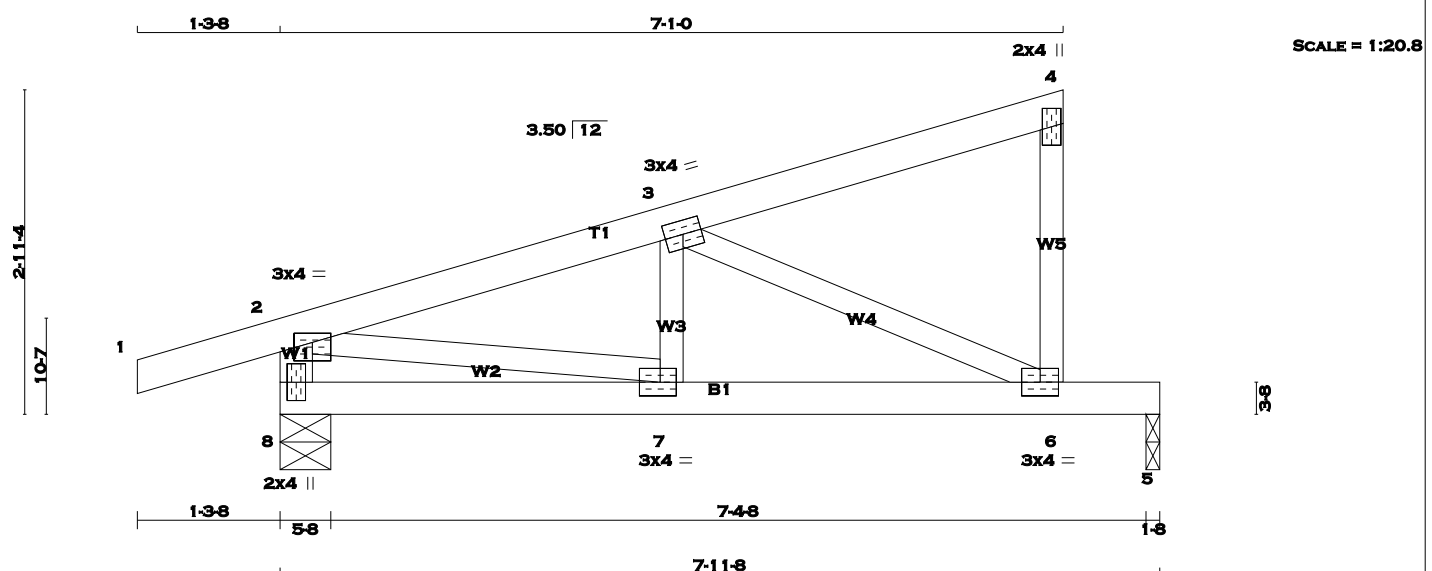
READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



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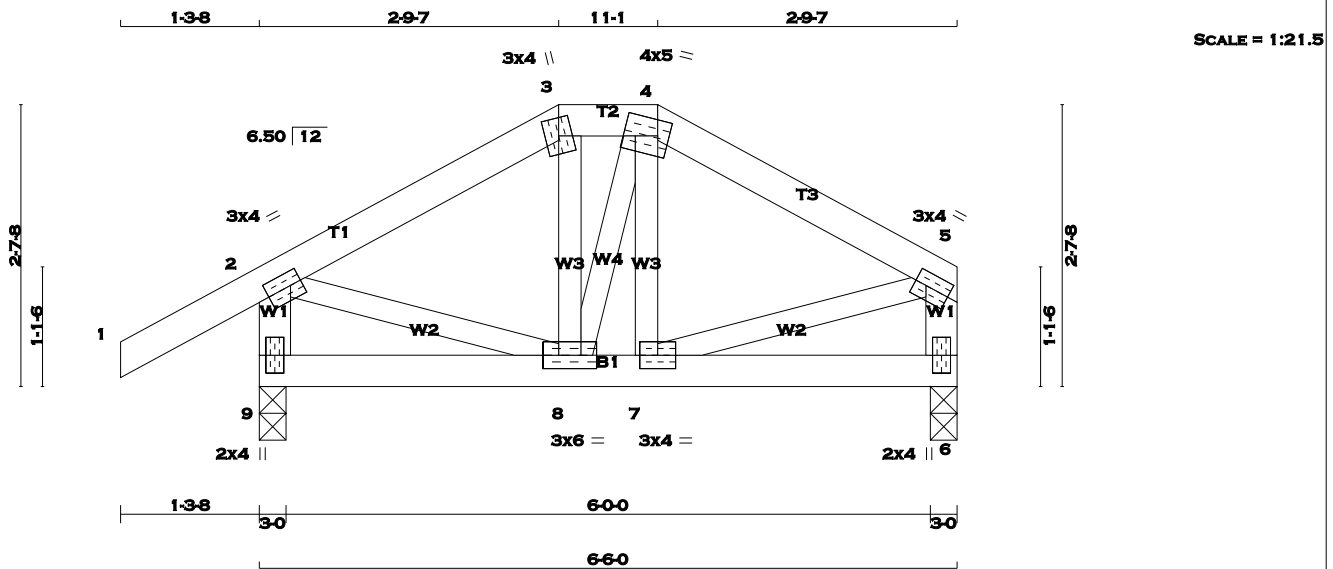
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. SPF 1 - 4 2x4 DRY No.2 SPF 6 - 4 2x3 DRY No.2 SPF 8 - 2 2x4 DRY No.2 SPF 8 - 5 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT DRY: SEASONED LUMBER.										DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER 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>VERT</th><th>HORZ</th><th>DOWN</th><th>HORZ</th><th>DOWN</th><th>HORZ</th><th>DOWN</th><th>HORZ</th><th>DOWN</th><th>HORZ</th><th>DOWN</th><th>DOWN</th><th>HORZ</th></tr><tr><td>8</td><td>332</td><td></td><td>245 / 0</td><td></td><td>0 / 0</td><td></td><td>0 / 0</td><td></td><td>0 / 0</td><td></td><td>87 / 0</td><td></td><td>0 / 0</td></tr><tr><td>5</td><td>221</td><td></td><td>147 / 0</td><td></td><td>0 / 0</td><td></td><td>0 / 0</td><td></td><td>0 / 0</td><td></td><td>75 / 0</td><td></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="5">CHORDS</th><th colspan="5">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 (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. UNBRACED LENGTH</th><th rowspan="2">MEMB.</th><th rowspan="2">MAX. FACTORED FORCE (LBS)</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><td>FR-TO</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><td></td><td></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><td></td><td></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><td></td><td></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><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><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><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><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><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		VERT	HORZ	DOWN	HORZ	DOWN	HORZ	DOWN	HORZ	DOWN	HORZ	DOWN	DOWN	HORZ	8	332		245 / 0		0 / 0		0 / 0		0 / 0		87 / 0		0 / 0	5	221		147 / 0		0 / 0		0 / 0		0 / 0		75 / 0		0 / 0	CHORDS					WEBS					MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	FR-TO		FROM TO			FR-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																																																																																																																																																																																																																						
	VERT	HORZ	DOWN	HORZ	DOWN	HORZ	DOWN	HORZ	DOWN	HORZ	DOWN	DOWN	HORZ																																																																																																																																																																																																																						
8	332		245 / 0		0 / 0		0 / 0		0 / 0		87 / 0		0 / 0																																																																																																																																																																																																																						
5	221		147 / 0		0 / 0		0 / 0		0 / 0		75 / 0		0 / 0																																																																																																																																																																																																																						
CHORDS					WEBS																																																																																																																																																																																																																														
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)																																																																																																																																																																																																																										
FR-TO		FROM TO			FR-TO			FR-TO																																																																																																																																																																																																																											
1-2	0 / 14	-77.3 -77.3	0.10 (1)	10.00	7-3	0 / 91	0.03 (4)																																																																																																																																																																																																																												
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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																																																																																																																																																																																																																															
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TOTAL WEIGHT = 2 X 28 = 57 lb [M][F]

LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER								DESIGN CRITERIA				
N. L. G. A. RULES				DESCR.				BEARINGS				SPECIFIED LOADS:				
CHORDS SIZE												TOP CH. LL = 23.3 PSF				
1 - 3	2x4	DRY	No.2	SPF	GROSS REACTION		GROSS REACTION		INPUT BRG		REQRD BRG		DL = 3.0 PSF			
3 - 4	2x4	DRY	No.2	SPF	JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	BOT CH. LL = 0.0 PSF			
4 - 5	2x4	DRY	No.2	SPF	9	414	0	414	0	0	3-0	3-0	DL = 7.0 PSF			
9 - 2	2x4	DRY	No.2	SPF	6	308	0	308	0	0	3-0	3-0	TOTAL LOAD = 33.3 PSF			
6 - 5	2x4	DRY	No.2	SPF									SPACING = 24.0 IN. C/C			
9 - 6	2x4	DRY	No.2	SPF									LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12			
ALL WEBS 2x3 DRY No.2 EXCEPT				SPF	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				
DRY: SEASONED LUMBER.																

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	4.0	1.50	1.25
3	TTW+m	MT20	3.0	4.0		
4	TTWW-m	MT20	4.0	5.0	1.75	1.25
5	TMVW-t	MT20	3.0	4.0	1.50	1.25
6	BMV1+p	MT20	2.0	4.0		
7	BMWW-t	MT20	3.0	4.0		
8	BMWWW-t	MT20	3.0	6.0		
9	BMV1+p	MT20	2.0	4.0		

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

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

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

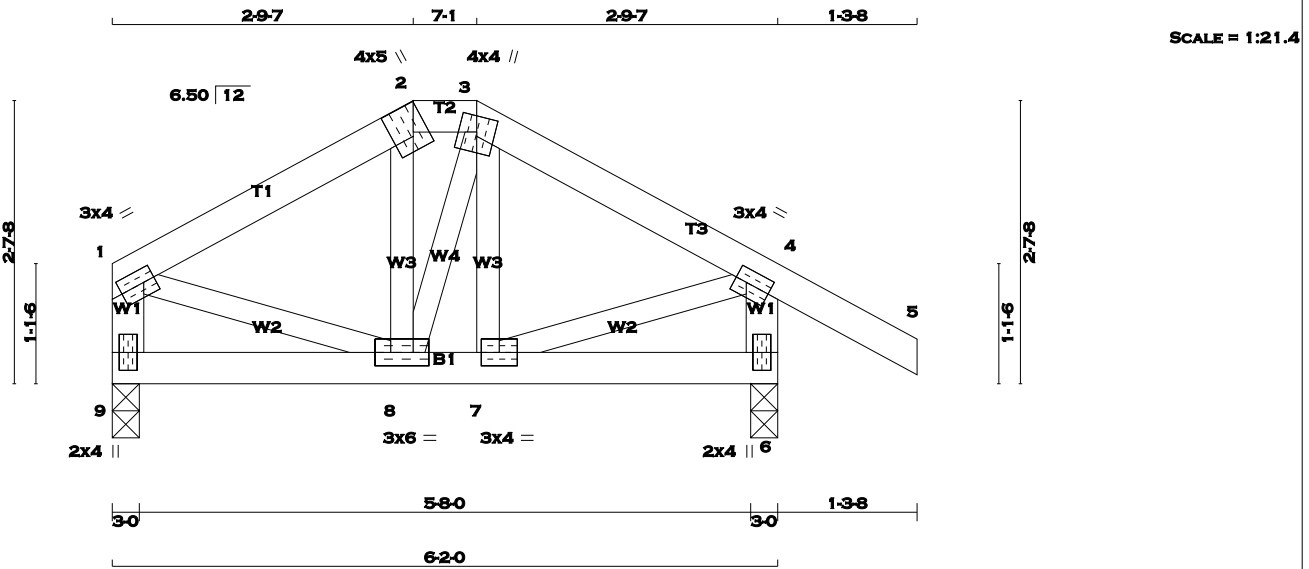
LOADING				TOTAL LOAD CASES: (4)			
CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 (LC)
FR-TO		FROM TO			FR-TO		
1-2	0 / 25	-77.3 -77.3	0.10 (1)	10.00	8-3	-26 / 21	0.01 (4)
2-3	-246 / 0	-77.3 -77.3	0.08 (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			

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TOTAL WEIGHT = 27 lb
[M][F]

LUMBER				DESCR.			
N. L. G. A. RULES							
CHORDS	SIZE	LUMBER		SPF			
1 - 2	2x4	DRY	No.2	SPF			
2 - 3	2x4	DRY	No.2	SPF			
3 - 5	2x4	DRY	No.2	SPF			
9 - 1	2x4	DRY	No.2	SPF			
6 - 4	2x4	DRY	No.2	SPF			
9 - 6	2x4	DRY	No.2	SPF			
ALL WEBS	2x3	DRY	No.2	SPF			
EXCEPT							
DRY: SEASONED LUMBER.							

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	3.0	4.0	1.50	1.25
2	TTWW+h	MT20	4.0	5.0	3.00	1.50
3	TTWW+m	MT20	4.0	4.0	1.75	2.00
4	TMVW-t	MT20	3.0	4.0	1.50	1.25
6	BMV1+p	MT20	2.0	4.0		
7	BMWW-t	MT20	3.0	4.0		
8	BMWW-t	MT20	3.0	6.0		
9	BMV1+p	MT20	2.0	4.0		

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

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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	HORZ	UPLIFT	IN-SX
9		292	0	292	0	0	3-0
6		398	0	398	0	0	3-0

UNFACTORED REACTIONS							
		1ST LCASE COMBINED	MAX/MIN. SNOW	MAX/MIN. LIVE	MAX/MIN. PERM. LIVE	MAX/MIN. WIND	MAX/MIN. DEAD
JT							
9		205	144 / 0	0 / 0	0 / 0	0 / 0	62 / 0
6		277	207 / 0	0 / 0	0 / 0	0 / 0	70 / 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			CHORDS	WEBS
		MAX. FACTORED MEMB. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED MEMB. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED MEMB. FORCE (LBS)	FACTORED VERT. LOAD (PLF)
FR-TO			FROM TO	FR-TO			FROM TO
1-2	-220 / 0	-77.3	-77.3 0.08 (1)	6.25	8-2	-25 / 20	0.01 (4)
2-3	-195 / 0	-77.3	-77.3 0.00 (1)	6.25	8-3	-1 / 1	0.00 (4)
3-4	-221 / 0	-77.3	-77.3 0.08 (1)	6.25	7-3	-24 / 18	0.01 (4)
4-5	0 / 25	-77.3	-77.3 0.10 (1)	10.00	1-8	0 / 202	0.05 (1)
9-1	-271 / 0	0.0	0.0 0.03 (1)	7.81	7-4	0 / 202	0.05 (1)
6-4	-377 / 0	0.0	0.0 0.04 (1)	7.81			
9-8	0 / 0	-17.5	-17.5 0.03 (4)	10.00			
8-7	0 / 195	-17.5	-17.5 0.04 (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 (0.21")
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 (4-5:1), BC=0.04 (7-8:1), WB=0.05 (4-7:1), SSI=0.07 (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
MT20	618	354	1667	822	2284

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.51 (4) (INPUT = 0.90)
JSI METAL= 0.12 (4) (INPUT = 1.00)



RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-4949
BUILDING DIVISION

