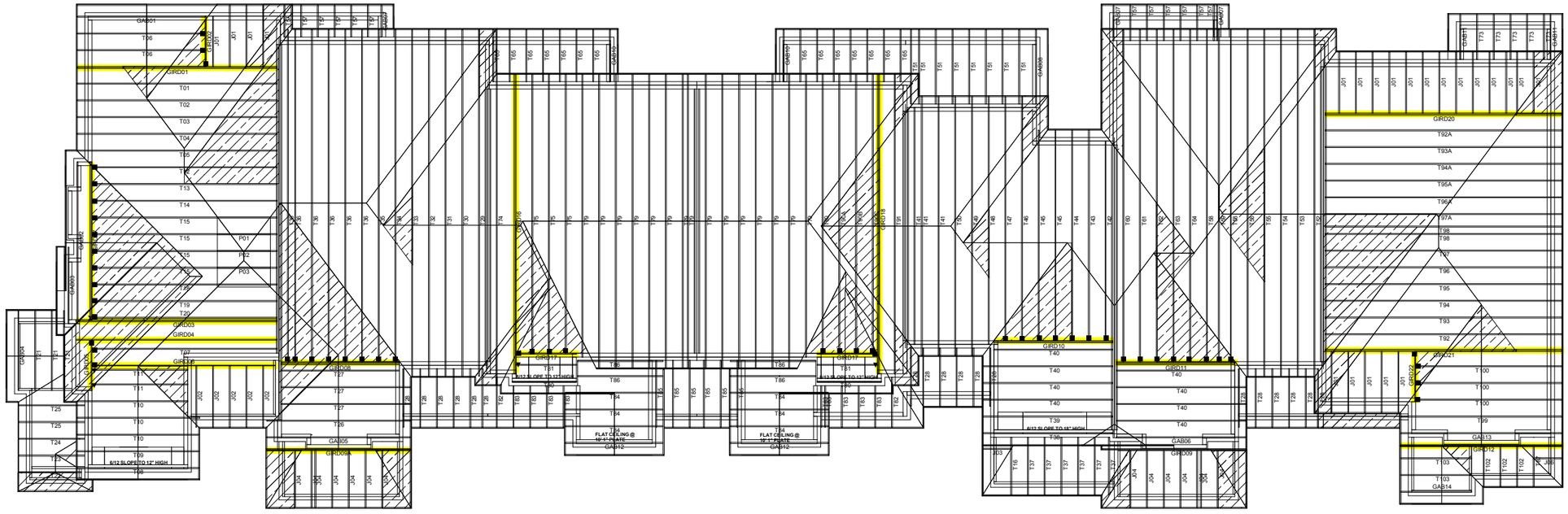
TOWN OF MILTON
PLANNING AND DEVELOPMENT
BUILDING PERMIT: 17-5001
BUILDING: REVIEWED
SCOTT SHERRIFFS APR 20, 2017
PLANS EXAMINER DATE

Neither the issuance of a permit nor carrying out of inspections by the Town of Milton relives 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 on Ontario, By-laws of the Region of Halton and Town of Milton

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

TRUSSES BY KOTT



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 329**
Customer: GREENPARK
Project: LECCO RIDGE
Location: MILTON
Date: 3/10/2017 Drawn by: BB

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

RESPONSIBILITIES

THIS DESIGN IS FOR AN INDIVIDUAL BUILDING COMPONENT AND HAS BEEN BASED ON INFORMATION PROVIDED BY THE DESIGN OFFICE OF KOTT LUMBER. THE UNDERSIGNED ENGINEER DISCLAIMS ANY RESPONSIBILITY FOR DAMAGES AS A RESULT OF FAULTY OR INCORRECT INFORMATION, SPECIFICATION AND/OR DESIGNS FURNISHED TO THE ENGINEER. THE UNDERSIGNED ENGINEER IS ONLY RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THIS BUILDING COMPONENT FOR THE CONDITIONS AND LOADS SHOWN ON THIS DRAWING. THE STRUCTURAL INTEGRITY OF THE BUILDING AND THE VERIFICATION OF THE DIMENSIONS AND THE DESIGN LOADS USED ARE THE RESPONSIBILITY OF THE BUILDING DESIGNER.

TRUSSES ARE DESIGNED IN CONFORMANCE WITH THE RELEVANT SECTIONS OF THE NATIONAL BUILDING CODE OF CANADA OR THE CANADIAN CODE FOR FARM BUILDINGS, WHICHEVER APPLIES TO THE BUILDING TYPE INDICATED ON THE DRAWING

IT IS THE RESPONSIBILITY OF KOTT LUMBER TO ENSURE THAT TRUSSES ARE MANUFACTURED IN CONFORMANCE WITH THESE DESIGNS AND WITH THE SPECIFICATIONS OUTLINED BELOW. THE UNDERSIGNED ENGINEER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

USE AND OCCUPANCY

- The building is of the type indicated on the drawing

LOADING

- The truss loading intensity and distribution as well as load transfer mechanism is that indicated on the drawing
- No buildings, trees, parapets or other projections higher than the roof for which the trusses are used are located within a distance less than ten (10) times the difference in height, or five metres (16 ft) whichever is greater, unless the drawing indicates that the snow drifting has been taken into account

HANDLING, INSTALLATION AND BRACING

- The trusses must be handled and installed by a qualified professional as per the supplied document titled *Information for Truss Installers* and the BCSI-B1 and BCSI-B3 Summary Sheets
- The compression chords are laterally braced by continuous rigid diaphragm sheathing or as specified on the drawing
- Temporary and permanent bracing must be installed as indicated on the truss drawing and according to the BCSI-B1 and BCSI-B3 Summary Sheets. Bracing for the lateral stability of the truss is to be provided by the building designer
- **It is recommended that a Professional Engineer's advice be obtained for the bracing of trusses spanning more than 12.37m (40'-7")**

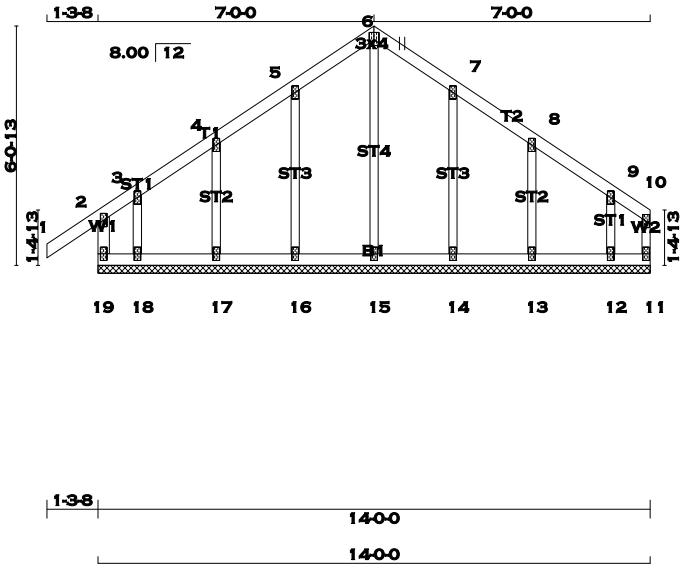
SUPPORTS

- The trusses are to be supported at the bearing points indicated and anchored to the supports where considered necessary by the designer of the overall structure
- Bearing sizes shown are the minimum required to prevent crushing of the truss members and do not necessarily take into account stability of the overall building structure
- Elevation of bearings must be carefully checked and shimmed to alignment for solid bearings
- Adequate wood truss bearing is the responsibility of the building designer.

DIMENSIONS

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

01/29/2013



SCALE = 1:58.4

TOTAL WEIGHT = 57 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
19 - 2	2x4	DRY	No.2	SPF
1 - 6	2x4	DRY	No.2	SPF
6 - 10	2x4	DRY	No.2	SPF
11 - 10	2x3	DRY	No.2	SPF
19 - 11	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
ALL GABLE WEBS	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table is in inches)

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

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

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

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

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

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF) FROM	TO	MAX CSI (LC)	MAX UNBRAC LENGTH
19- 2	-191 / 0	0.0	0.0	0.02 (1)	7.81
1- 2	0 / 29	-77.3	-77.3	0.10 (1)	10.00
2- 3	-27 / 0	-77.3	-77.3	0.08 (1)	6.25
3- 4	0 / 8	-77.3	-77.3	0.04 (1)	10.00
4- 5	0 / 9	-77.3	-77.3	0.04 (1)	10.00
5- 6	0 / 12	-77.3	-77.3	0.04 (1)	10.00
6- 7	0 / 12	-77.3	-77.3	0.04 (1)	10.00
7- 8	0 / 9	-77.3	-77.3	0.04 (1)	10.00
8- 9	0 / 6	-77.3	-77.3	0.04 (1)	10.00
9-10	0 / 7	-77.3	-77.3	0.03 (1)	10.00
11-10	-19 / 0	0.0	0.0	0.00 (1)	7.81
19-18	0 / 0	-17.5	-17.5	0.02 (1)	10.00
18-17	-3 / 0	-17.5	-17.5	0.01 (3)	10.00
17-16	-8 / 0	-17.5	-17.5	0.01 (3)	10.00
16-15	-10 / 0	-17.5	-17.5	0.01 (3)	6.25
15-14	-10 / 0	-17.5	-17.5	0.01 (3)	6.25
14-13	-8 / 0	-17.5	-17.5	0.01 (3)	10.00
13-12	-3 / 0	-17.5	-17.5	0.01 (3)	10.00
12-11	0 / 3	-17.5	-17.5	0.01 (3)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
15- 6	-174 / 0	0.10 (1)
16- 5	-155 / 0	0.05 (1)
17- 4	-161 / 0	0.03 (1)
18- 3	-53 / 0	0.01 (1)
14- 7	-156 / 0	0.05 (1)
13- 8	-156 / 0	0.03 (1)
12- 9	-124 / 0	0.02 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

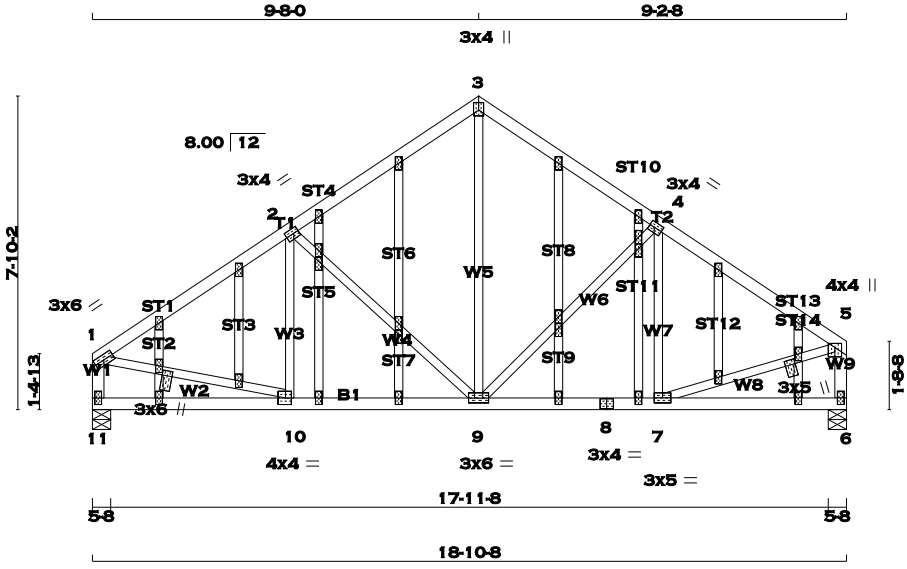
JSI GRIP= 0.12 (2) (INPUT = 0.90)
JSI METAL= 0.06 (6) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
PM TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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

KOTT



TOTAL WEIGHT = 105 lb
[M][F]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
11 - 1	2x4	DRY	No.2	SPF
6 - 5	2x4	DRY	No.2	SPF
11 - 8	2x4	DRY	No.2	SPF
8 - 6	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
ALL GABLE WEBS	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	3.0	6.0		
2	TMWW-t	MT20	3.0	4.0	1.50	1.50
3	TTW+p	MT20	3.0	4.0	2.25	1.50
4	TMWW-t	MT20	3.0	4.0	1.50	1.50
5	TMVW+p	MT20	4.0	4.0	1.25	2.00
6	BMV1+p	MT20	2.0	4.0		
7	BMWW-t	MT20	3.0	5.0		
8	BS-t	MT20	3.0	4.0		
9	BMWWW-t	MT20	3.0	6.0		
10	BMWW-t	MT20	4.0	4.0	2.00	1.75
11	BMV1+p	MT20	2.0	4.0		
12, 15, 25, 28						
12	NP+w	MT20	2.0	4.0	1.50	1.00
12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33						
12	NP+w	MT20	2.0	4.0		
20	NP+t	MT20	3.0	6.0	1.50	0.25
33	NP+t	MT20	3.0	5.0	1.50	0.25

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 VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
11	895	0	895	0	0	5-8	5-8
6	895	0	895	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
11	628	439 / 0	0 / 0	0 / 0	0 / 0	189 / 0	0 / 0
6	628	439 / 0	0 / 0	0 / 0	0 / 0	189 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 11, 6

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.10 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC	MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	-942 / 0	-77.3	-77.3	0.24 (1)		6.10
2- 3	-704 / 0	-77.3	-77.3	0.23 (1)		6.25
3- 4	-703 / 0	-77.3	-77.3	0.21 (1)		6.25
4- 5	-877 / 0	-77.3	-77.3	0.22 (1)		6.25
11- 1	-859 / 0	0.0	0.0	0.09 (1)		7.81
6- 5	-860 / 0	0.0	0.0	0.09 (1)		7.81
11-10	0 / 0	-17.5	-17.5	0.10 (3)		10.00
10- 9	0 / 804	-17.5	-17.5	0.18 (1)		10.00
9- 8	0 / 749	-17.5	-17.5	0.16 (1)		10.00
8- 7	0 / 749	-17.5	-17.5	0.16 (1)		10.00
7- 6	0 / 0	-17.5	-17.5	0.09 (3)		10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
10- 2	-83 / 56	0.03 (1)
2- 9	-326 / 0	0.24 (1)
9- 3	0 / 485	0.11 (1)
9- 4	-262 / 0	0.19 (1)
7- 4	-133 / 37	0.05 (1)
1-10	0 / 823	0.19 (1)
7- 5	0 / 781	0.18 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.63")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.63")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")

CSI: TC=0.24 (1-2:1) , BC=0.18 (9-10:1) , WB=0.24 (2-9:1) , SSI=0.15 (1-2:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (9) (INPUT = 0.90)
JSI METAL= 0.30 (10) (INPUT = 1.00)

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TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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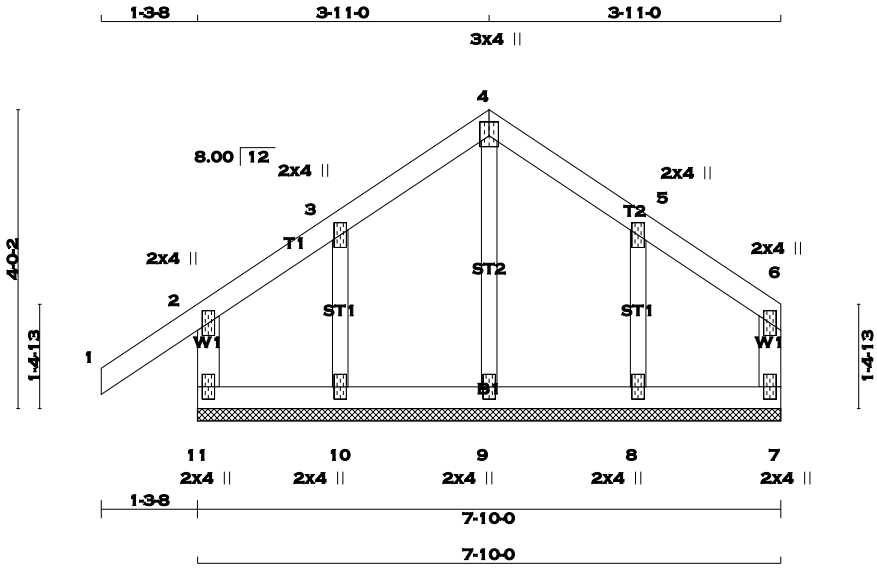
KOTT



TOTAL WEIGHT = 30 lb [M]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
11 - 2	2x4	DRY	No.2	SPF
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
11 - 7	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
ALL GABLE WEBS	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
3	TMW+w	MT20	2.0	4.0		
4	TTW+p	MT20	3.0	4.0	2.25	1.50
5	TMW+w	MT20	2.0	4.0		
6	TMV+p	MT20	2.0	4.0		
7	BMV1+p	MT20	2.0	4.0		
8, 9, 10						
8	BMW1+w	MT20	2.0	4.0		
11	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
11- 2	-199 / 0	0.0	0.0	0.02 (1)	7.81	9- 4	-172 / 0	0.04 (1)
1- 2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	10- 3	-121 / 0	0.02 (1)
2- 3	-12 / 0	-77.3	-77.3	0.08 (1)	6.25	8- 5	-160 / 0	0.03 (1)
3- 4	-3 / 8	-77.3	-77.3	0.04 (1)	10.00			
4- 5	-3 / 5	-77.3	-77.3	0.04 (1)	10.00			
5- 6	-3 / 5	-77.3	-77.3	0.04 (1)	10.00			
7- 6	-60 / 0	0.0	0.0	0.01 (1)	7.81			
11-10	0 / 3	-17.5	-17.5	0.02 (1)	10.00			
10- 9	-4 / 2	-17.5	-17.5	0.01 (3)	10.00			
9- 8	-4 / 2	-17.5	-17.5	0.02 (3)	10.00			
8- 7	0 / 3	-17.5	-17.5	0.02 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

CSI: TC=0.10 (1-2:1) , BC=0.02 (10-11:1) , WB=0.04 (4-9:1) , SSI=0.07 (1-2:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

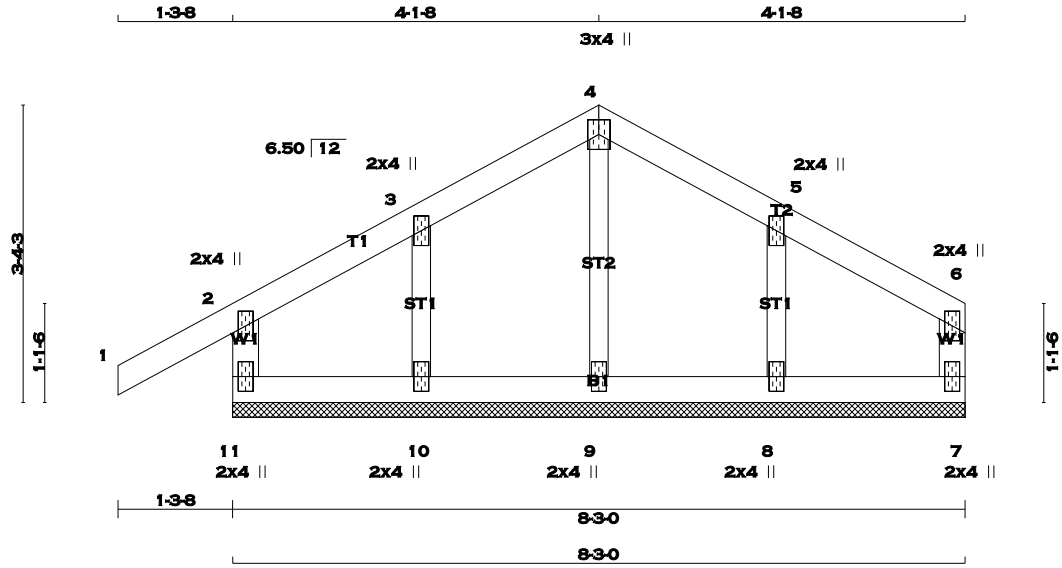
JSI GRIP= 0.13 (2) (INPUT = 0.90)
JSI METAL= 0.07 (4) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
R.M. TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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

KOTT



TOTAL WEIGHT = 29 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
11 - 2	2x4	DRY	No.2	SPF
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
11 - 7	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
ALL GABLE WEBS	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
3	TMW+w	MT20	2.0	4.0		
4	TTW+p	MT20	3.0	4.0		
5	TMW+w	MT20	2.0	4.0		
6	TMV+p	MT20	2.0	4.0		
7	BMV1+p	MT20	2.0	4.0		
8, 9, 10						
8	BMW1+w	MT20	2.0	4.0		
11	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

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

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

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
11- 2	-201 / 0	0.0	0.0	0.02 (1)	7.81	9- 4	-134 / 0	0.03 (1)
1- 2	0 / 25	-77.3	-77.3	0.10 (1)	10.00	10- 3	-156 / 0	0.02 (1)
2- 3	-33 / 0	-77.3	-77.3	0.04 (1)	6.25	8- 5	-163 / 0	0.02 (1)
3- 4	-26 / 0	-77.3	-77.3	0.04 (1)	6.25			
4- 5	-27 / 0	-77.3	-77.3	0.04 (1)	6.25			
5- 6	-30 / 0	-77.3	-77.3	0.04 (1)	6.25			
7- 6	-90 / 0	0.0	0.0	0.03 (1)	7.81			
11-10	0 / 29	-17.5	-17.5	0.02 (3)	10.00			
10- 9	0 / 23	-17.5	-17.5	0.02 (3)	10.00			
9- 8	0 / 23	-17.5	-17.5	0.02 (3)	10.00			
8- 7	0 / 29	-17.5	-17.5	0.02 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

CSI: TC=0.10 (1-2:1) , BC=0.02 (7-8:3) , WB=0.03 (4-9:1) , SSI=0.07 (1-2:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.14 (6) (INPUT = 0.90)
JSI METAL= 0.06 (6) (INPUT = 1.00)

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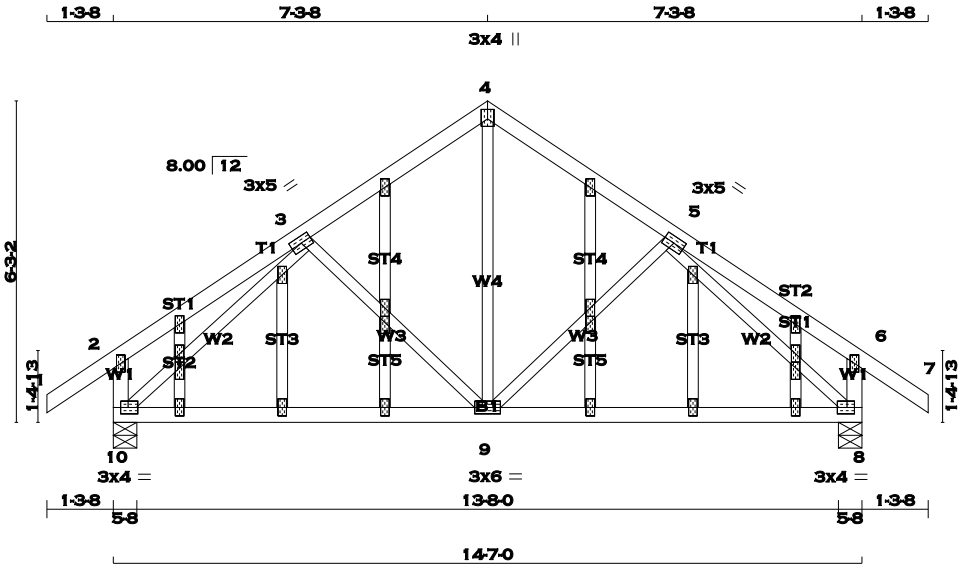
KOTT



TOTAL WEIGHT = 77 lb

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 7	2x4	DRY	No.2	SPF
10 - 2	2x4	DRY	No.2	SPF
8 - 6	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
ALL GABLE WEBS	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
3	TMWW-t	MT20	3.0	5.0		
4	TTW+p	MT20	3.0	4.0	2.25	1.50
5	TMWW-t	MT20	3.0	5.0		
6	TMV+p	MT20	2.0	4.0		
8	BMVW1-t	MT20	3.0	4.0	1.50	1.75
9	BMWWW-t	MT20	3.0	6.0		
10	BMVW1-t	MT20	3.0	4.0	1.50	1.75
11, 16, 21, 26						
11	NP+w	MT20	2.0	4.0	1.50	1.00
11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26						
11	NP+w	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF 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 VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
10	798	0	798	0	0	5-8	5-8
8	798	0	798	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
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 (3)	10.00			
9- 8	0 / 554	-17.5	-17.5	0.30 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

CSI: TC=0.16 (2-3:1) , BC=0.30 (9-10:3) , WB=0.31 (3-10:1) , SSI=0.11 (3-4:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) 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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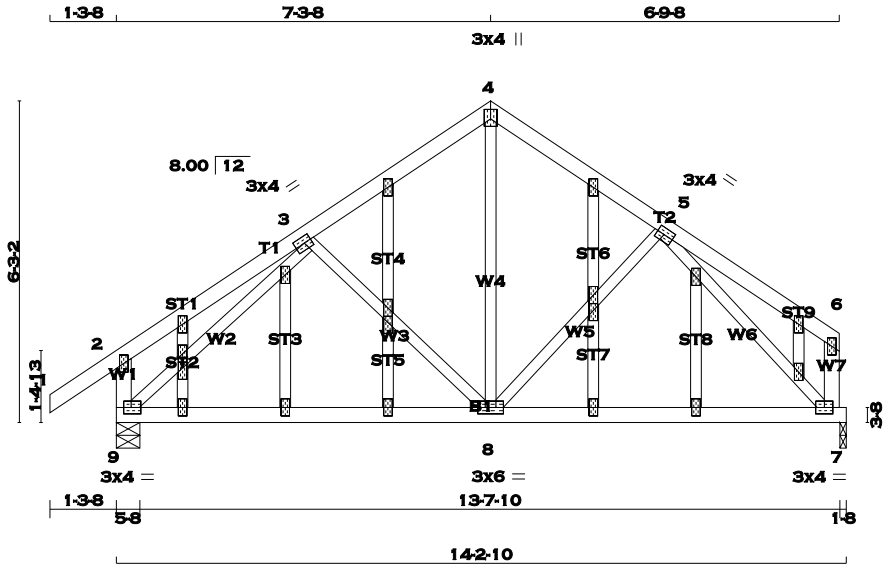

TOTAL WEIGHT = 74 lb

[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	2x3	DRY	No.2	SPF
EXCEPT				
ALL GABLE WEBS	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	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	1.50	1.75
6	TMV+p	MT20	2.0	4.0		
7	BMVW1-t	MT20	3.0	4.0		
8	BMWWW-t	MT20	3.0	6.0		
9	BMVW1-t	MT20	3.0	4.0	1.50	1.75
10	NP+w	MT20	2.0	4.0	1.50	1.00
10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24						
10	NP+w	MT20	2.0	4.0		
15	NP+w	MT20	2.0	4.0	1.50	1.00
20	NP+w	MT20	2.0	4.0	1.75	1.00

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

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

BEARINGS

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

UNFACTORED REACTIONS

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

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

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC	MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	3- 8	-161 / 3	0.07 (1)	
2- 3	0 / 18	-77.3	-77.3	0.16 (1)	10.00	8- 4	0 / 339	0.08 (1)	
3- 4	-514 / 0	-77.3	-77.3	0.13 (1)	6.25	8- 5	-102 / 16	0.04 (1)	
4- 5	-512 / 0	-77.3	-77.3	0.11 (1)	6.25	9- 3	-735 / 0	0.30 (1)	
5- 6	0 / 16	-77.3	-77.3	0.14 (1)	10.00	5- 7	-710 / 0	0.28 (1)	
9- 2	-215 / 0	0.0	0.0	0.02 (1)	7.81				
7- 6	-102 / 0	0.0	0.0	0.01 (1)	7.81				
9- 8	0 / 529	-17.5	-17.5	0.28 (3)	10.00				
8- 7	0 / 482	-17.5	-17.5	0.28 (3)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.47")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.47")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.07")

CSI: TC=0.16 (2-3:1) , BC=0.28 (8-9:3) , WB=0.30 (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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) 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= 0.26 (3) (INPUT = 1.00)

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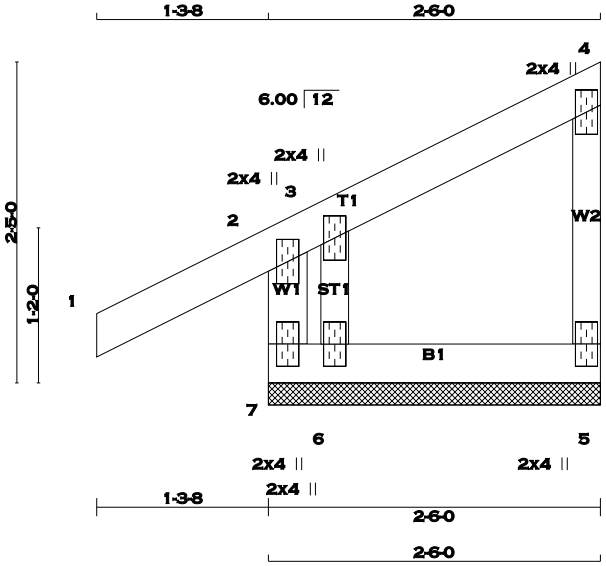
KOTT



SCALE = 1:17.3

TOTAL WEIGHT = 3 X 11 = 32 lb [M]

LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
3	TMW+w	MT20	2.0	4.0		
4	TMV+p	MT20	2.0	4.0		
5	BMV1+p	MT20	2.0	4.0		
6	BMW1+w	MT20	2.0	4.0		
7	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

PROVIDE ANCHORAGE AT BEARING JOINT 6 FOR 150 LBS FACTORED UPLIFT
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
7- 2	-220 / 0	0.0	0.0	0.02 (4)	7.81	6- 3	-27 / 105	0.02 (4)
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00			
2- 3	-44 / 0	-77.3	-77.3	0.08 (1)	6.25			
3- 4	-10 / 0	-77.3	-77.3	0.04 (1)	10.00			
5- 4	-68 / 0	0.0	0.0	0.02 (1)	7.81			
7- 6	-7 / 7	-17.5	-17.5	0.02 (1)	10.00			
6- 5	0 / 5	-17.5	-17.5	0.02 (3)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

CSI: TC=0.10 (1-2:1) , BC=0.02 (6-7:1) , WB=0.02 (3-6:4) , SSI=0.08 (2-3:4)

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

LICENSED PROFESSIONAL ENGINEER
RAM TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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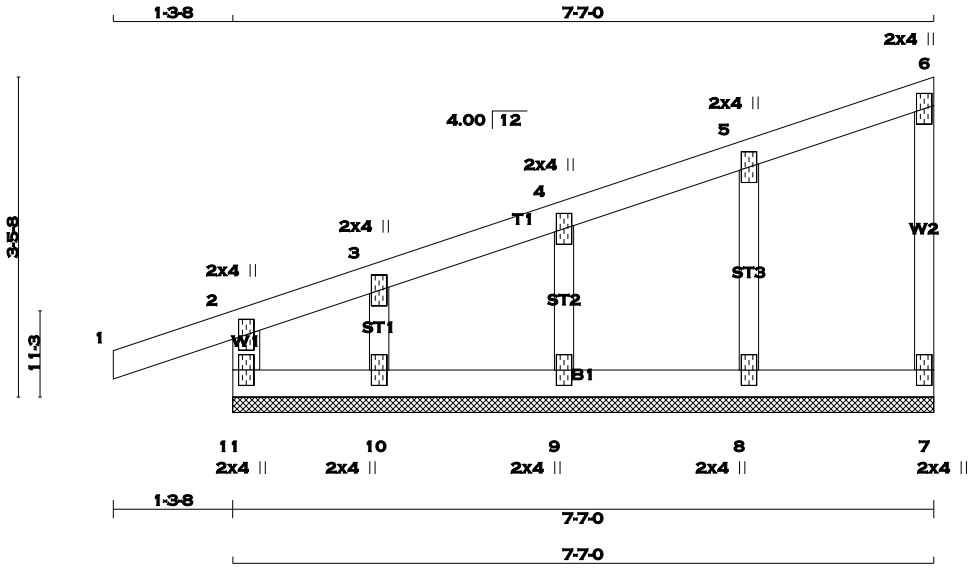
KOTT



TOTAL WEIGHT = 26 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
11 - 2	2x4	DRY	No.2	SPF
1 - 6	2x4	DRY	No.2	SPF
7 - 6	2x3	DRY	No.2	SPF
11 - 7	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
ALL GABLE WEBS	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table is in inches)

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

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

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

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

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

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	UNBRAC LENGTH
11- 2	-196 / 0	0.0	0.0	0.03 (1)	7.81
1- 2	0 / 16	-77.3	-77.3	0.10 (1)	10.00
2- 3	-23 / 0	-77.3	-77.3	0.08 (1)	6.25
3- 4	-8 / 0	-77.3	-77.3	0.04 (1)	10.00
4- 5	-6 / 0	-77.3	-77.3	0.04 (1)	10.00
5- 6	-6 / 0	-77.3	-77.3	0.04 (1)	10.00
7- 6	-66 / 0	0.0	0.0	0.01 (1)	7.81
11-10	0 / 14	-17.5	-17.5	0.03 (1)	10.00
10- 9	0 / 10	-17.5	-17.5	0.01 (3)	10.00
9- 8	0 / 6	-17.5	-17.5	0.02 (3)	10.00
8- 7	0 / 2	-17.5	-17.5	0.02 (3)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
8- 5	-169 / 0	0.03 (1)
9- 4	-160 / 0	0.02 (1)
10- 3	-100 / 0	0.01 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

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TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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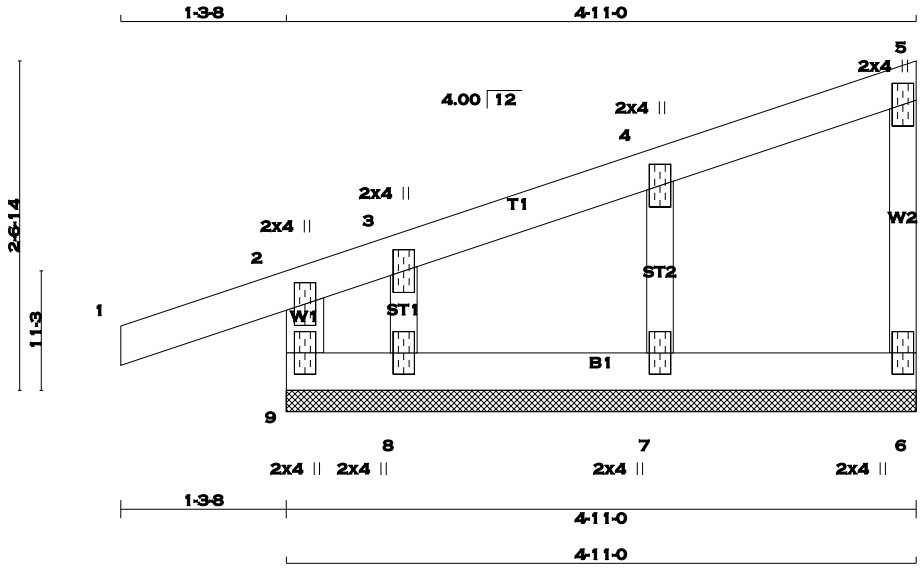
KOTT



TOTAL WEIGHT = 2 X 17 = 34 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	TMV+p	MT20	2.0	4.0		
3	TMW+w	MT20	2.0	4.0		
4	TMW+w	MT20	2.0	4.0		
5	TMV+p	MT20	2.0	4.0		
6	BMV1+p	MT20	2.0	4.0		
7	BMW1+w	MT20	2.0	4.0		
8	BMW1+w	MT20	2.0	4.0		
9	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

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

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

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
9- 2	-193 / 0	0.0	0.0	0.03 (1)	7.81	7- 4	-181 / 0	0.03 (1)
1- 2	0 / 16	-77.3	-77.3	0.10 (1)	10.00	8- 3	-46 / 0	0.01 (1)
2- 3	-28 / 0	-77.3	-77.3	0.08 (1)	6.25			
3- 4	-5 / 0	-77.3	-77.3	0.05 (1)	10.00			
4- 5	-8 / 0	-77.3	-77.3	0.05 (1)	10.00			
6- 5	-64 / 0	0.0	0.0	0.02 (1)	7.81			
9- 8	0 / 11	-17.5	-17.5	0.03 (1)	10.00			
8- 7	0 / 9	-17.5	-17.5	0.02 (3)	10.00			
7- 6	0 / 4	-17.5	-17.5	0.02 (3)	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 (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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

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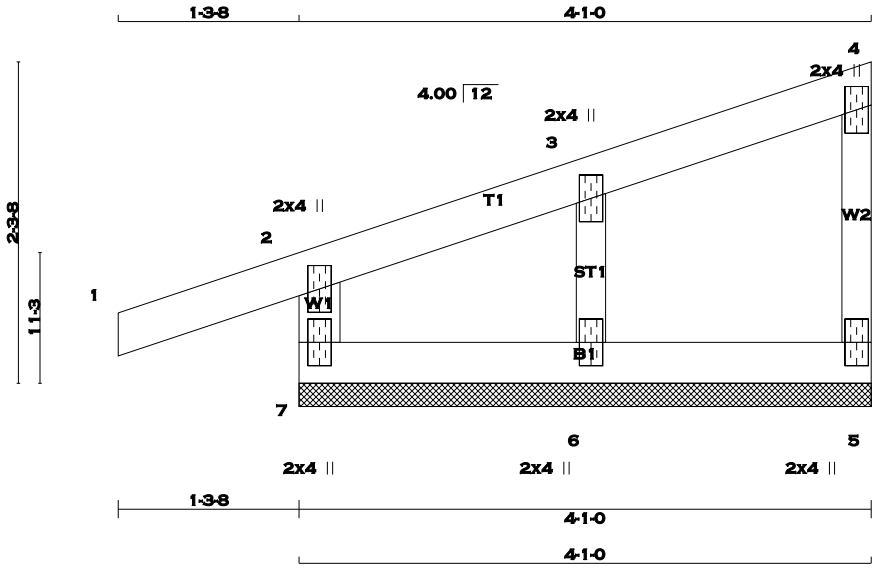
KOTT



SCALE = 1:16.4

TOTAL WEIGHT = 2 X 14 = 28 lb [M]

LUMBER
N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
3	TMW+w	MT20	2.0	4.0		
4	TMV+p	MT20	2.0	4.0		
5	BMV1+p	MT20	2.0	4.0		
6	BMW1+w	MT20	2.0	4.0		
7	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD FROM	LC1 TO	MAX CSI (LC)	MAX UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
7- 2	-184 / 0	0.0	0.0	0.01 (3)	7.81	6- 3	-170 / 0	0.02 (1)
1- 2	0 / 16	-77.3	-77.3	0.10 (1)	10.00			
2- 3	-12 / 0	-77.3	-77.3	0.04 (1)	6.25			
3- 4	-10 / 0	-77.3	-77.3	0.04 (1)	6.25			
5- 4	-66 / 0	0.0	0.0	0.02 (1)	7.81			
7- 6	0 / 13	-17.5	-17.5	0.02 (3)	10.00			
6- 5	0 / 7	-17.5	-17.5	0.02 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

CSI: TC=0.10 (1-2:1) , BC=0.02 (6-7:3) , WB=0.02 (3-6:1) , 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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) 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)

LICENSED PROFESSIONAL ENGINEER
RAM TREVISAN
100136551
March 13th, 17
PROVINCE OF ONTARIO

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MAR 29, 2017
17-5001
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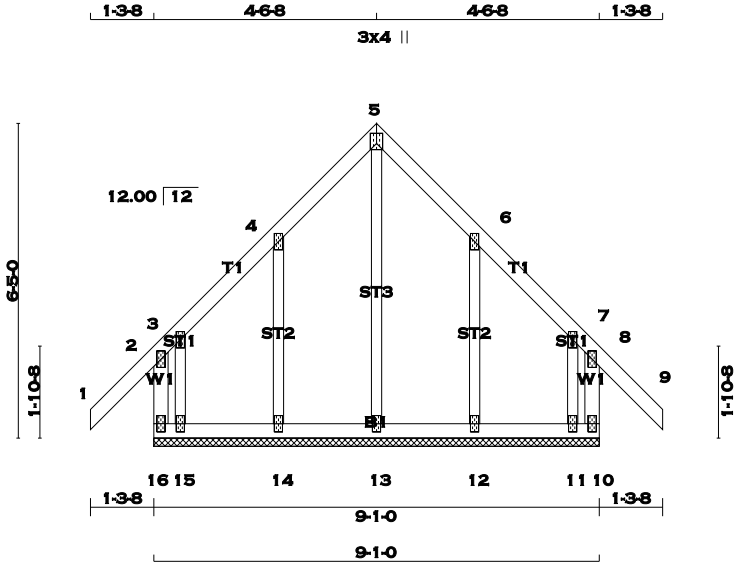

TOTAL WEIGHT = 2 X 47 = 94 lb [M]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
16 - 2	2x4	DRY	No.2	SPF
1 - 5	2x4	DRY	No.2	SPF
5 - 9	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF
16 - 10	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, 6, 7						
3	TMW+w	MT20	2.0	4.0		
5	TTW+p	MT20	3.0	4.0	Edge	
8	TMV+p	MT20	2.0	4.0		
10	BMV1+p	MT20	2.0	4.0		
11, 12, 13, 14, 15						
11	BMW1+w	MT20	2.0	4.0		
16	BMV1+p	MT20	2.0	4.0		

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

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

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC	MAX CSI	WEBS MAX. UNBRAC LENGTH	MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
16- 2	-197 / 0	0.0	0.0	0.03 (1)	7.81	13- 5	-189 / 0	0.12 (1)	
1- 2	0 / 38	-77.3	-77.3	0.11 (1)	10.00	14- 4	-160 / 0	0.05 (1)	
2- 3	-44 / 0	-77.3	-77.3	0.08 (1)	6.25	15- 3	-7 / 0	0.00 (1)	
3- 4	0 / 18	-77.3	-77.3	0.04 (1)	10.00	12- 6	-160 / 0	0.05 (1)	
4- 5	0 / 20	-77.3	-77.3	0.04 (1)	10.00	11- 7	-7 / 0	0.00 (1)	
5- 6	0 / 20	-77.3	-77.3	0.04 (1)	10.00				
6- 7	0 / 18	-77.3	-77.3	0.04 (1)	10.00				
7- 8	-44 / 0	-77.3	-77.3	0.08 (1)	6.25				
8- 9	0 / 38	-77.3	-77.3	0.11 (1)	10.00				
10- 8	-197 / 0	0.0	0.0	0.03 (1)	7.81				
16-15	-10 / 0	-17.5	-17.5	0.01 (3)	6.25				
15-14	-11 / 0	-17.5	-17.5	0.01 (3)	6.25				
14-13	-15 / 0	-17.5	-17.5	0.01 (3)	6.25				
13-12	-15 / 0	-17.5	-17.5	0.01 (3)	6.25				
12-11	-11 / 0	-17.5	-17.5	0.01 (3)	6.25				
11-10	-10 / 0	-17.5	-17.5	0.01 (3)	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=0.11 (8-9:1) , BC=0.01 (13-14:3) , WB=0.12 (5-13:1) , SSI=0.06 (8-9:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.30 (5) (INPUT = 0.90)
JSI METAL= 0.06 (5) (INPUT = 1.00)

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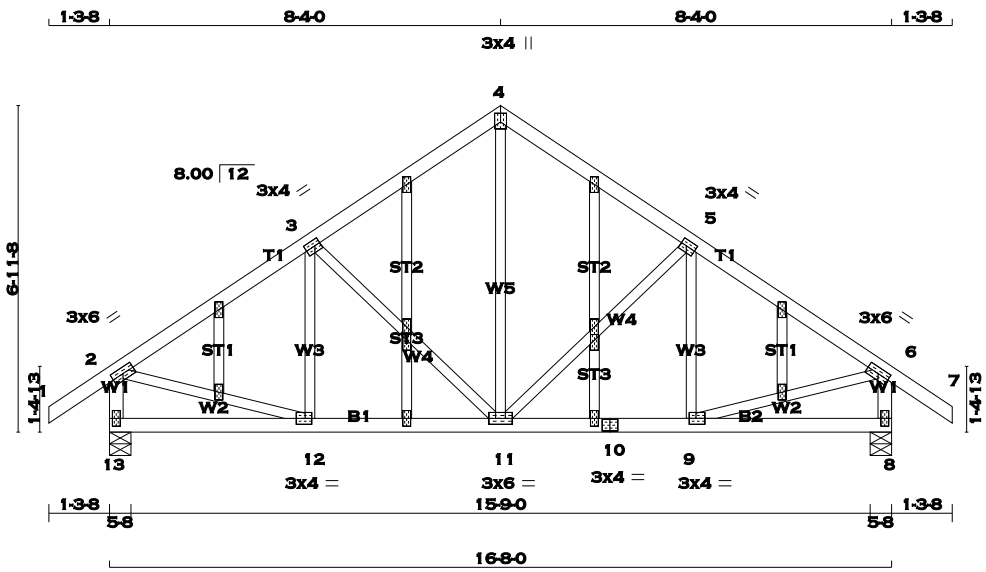
KOTT



TOTAL WEIGHT = 85 lb
[M][F]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 7	2x4	DRY	No.2	SPF
13 - 2	2x4	DRY	No.2	SPF
8 - 6	2x4	DRY	No.2	SPF
13 - 10	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
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	6.0		
3	TMWW-t	MT20	3.0	4.0	1.50	1.50
4	TTW+p	MT20	3.0	4.0	2.25	1.50
5	TMWW-t	MT20	3.0	4.0	1.50	1.50
6	TMVW-t	MT20	3.0	6.0		
8	BMV1+p	MT20	2.0	4.0		
9	BMWW-t	MT20	3.0	4.0	1.50	1.75
10	BS-t	MT20	3.0	4.0		
11	BMWWW-t	MT20	3.0	6.0		
12	BMWW-t	MT20	3.0	4.0	1.50	1.75
13	BMV1+p	MT20	2.0	4.0		
14	NP+w	MT20	2.0	4.0	1.50	1.00
14, 15, 16, 17, 18, 19, 20, 21, 22, 23						
14	NP+w	MT20	2.0	4.0		
21	NP+w	MT20	2.0	4.0	1.50	1.00

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
13	897	0	897	0	0	5-8	5-8
8	897	0	897	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
13	627	452 / 0	0 / 0	0 / 0	0 / 0	175 / 0	0 / 0
8	627	452 / 0	0 / 0	0 / 0	0 / 0	175 / 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 = 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 FROM	TO	MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	11- 4	0 / 430	0.10 (1)
2- 3	-803 / 0	-77.3	-77.3	0.17 (1)	6.25	11- 5	-259 / 0	0.14 (1)
3- 4	-622 / 0	-77.3	-77.3	0.17 (1)	6.25	9- 5	-95 / 41	0.03 (1)
4- 5	-622 / 0	-77.3	-77.3	0.17 (1)	6.25	3-11	-259 / 0	0.14 (1)
5- 6	-803 / 0	-77.3	-77.3	0.17 (1)	6.25	12- 3	-95 / 41	0.03 (1)
6- 7	0 / 29	-77.3	-77.3	0.10 (1)	10.00	2-12	0 / 707	0.16 (1)
13- 2	-865 / 0	0.0	0.0	0.09 (1)	7.81	9- 6	0 / 707	0.16 (1)
8- 6	-865 / 0	0.0	0.0	0.09 (1)	7.81			
13-12	0 / 0	-17.5	-17.5	0.07 (3)	10.00			
12-11	0 / 685	-17.5	-17.5	0.14 (1)	10.00			
11-10	0 / 685	-17.5	-17.5	0.14 (1)	10.00			
10- 9	0 / 685	-17.5	-17.5	0.14 (1)	10.00			
9- 8	0 / 0	-17.5	-17.5	0.07 (3)	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 (0.56")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.56")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")

CSI: TC=0.17 (2-3:1) , BC=0.14 (11-12:1) , WB=0.16 (2-12:1) , 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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

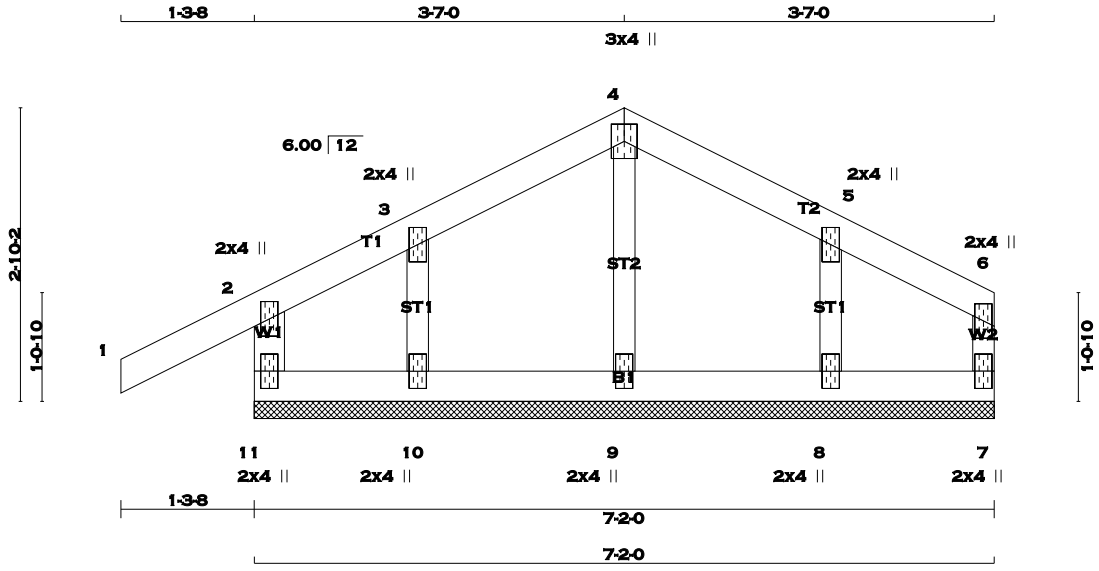
JSI GRIP= 0.90 (9) (INPUT = 0.90)
JSI METAL= 0.26 (12) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
R.M. TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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

KOTT



TOTAL WEIGHT = 24 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
11 - 2	2x4	DRY	No.2	SPF
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
7 - 6	2x3	DRY	No.2	SPF
11 - 7	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
ALL GABLE WEBS	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
3	TMW+w	MT20	2.0	4.0		
4	TTW+p	MT20	3.0	4.0		
5	TMW+w	MT20	2.0	4.0		
6	TMV+p	MT20	2.0	4.0		
7	BMV1+p	MT20	2.0	4.0		
8, 9, 10						
8	BMW1+w	MT20	2.0	4.0		
11	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 FROM	TO	MAX CSI (LC)	WEBS MAX. UNBRAC LENGTH	MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
11- 2	-184 / 0	0.0	0.0	0.03 (1)	7.81	9- 4	-181 / 0	0.03 (1)
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00	10- 3	-105 / 0	0.02 (1)
2- 3	-3 / 0	-77.3	-77.3	0.07 (1)	10.00	8- 5	-149 / 0	0.02 (1)
3- 4	0 / 16	-77.3	-77.3	0.04 (1)	10.00			
4- 5	0 / 14	-77.3	-77.3	0.04 (1)	10.00			
5- 6	0 / 13	-77.3	-77.3	0.04 (1)	10.00			
7- 6	-40 / 0	0.0	0.0	0.01 (1)	7.81			
11-10	-7 / 1	-17.5	-17.5	0.02 (1)	10.00			
10- 9	-11 / 0	-17.5	-17.5	0.01 (3)	6.25			
9- 8	-11 / 0	-17.5	-17.5	0.01 (3)	6.25			
8- 7	-5 / 1	-17.5	-17.5	0.01 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

CSI: TC=0.10 (1-2:1) , BC=0.02 (10-11:1) , WB=0.03 (4-9:1) , SSI=0.07 (1-2:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

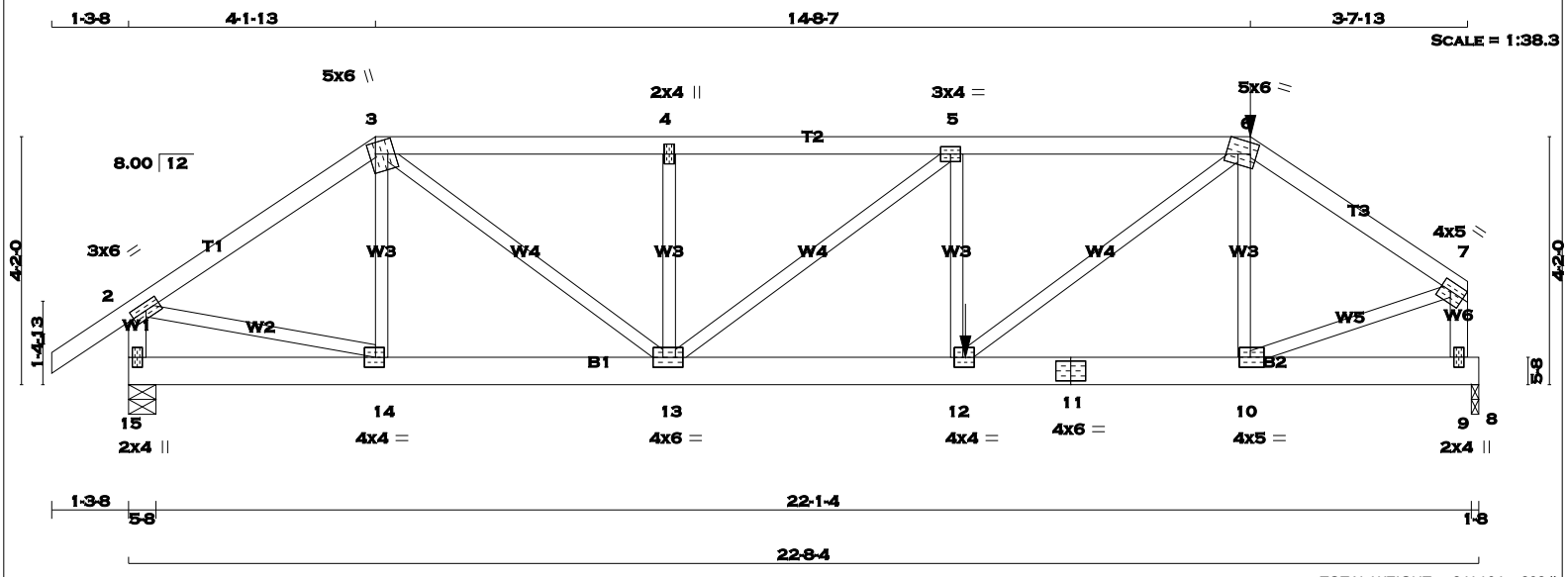
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.11 (2) (INPUT = 0.90)
JSI METAL= 0.07 (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.

KOTT



LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 6	2x4	DRY	No.2	SPF
6 - 7	2x4	DRY	No.2	SPF
15 - 2	2x4	DRY	No.2	SPF
9 - 7	2x4	DRY	No.2	SPF
15 - 11	2x6	DRY	No.2	SPF
11 - 8	2x6	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

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

CHORDS	#ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"X3") SPIRAL NAILS			
1- 3	1	12	TOP
3- 6	1	12	SIDE(34.2)
6- 7	1	12	SIDE(0.0)
15- 2	1	12	TOP
9- 7	1	12	TOP
BOTTOM CHORDS : (0.122"X3") SPIRAL NAILS			
15- 11	2	12	SIDE(8.7)
11- 8	2	12	SIDE(8.7)
WEBS : (0.122"X3") SPIRAL NAILS			
2x3	1	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	6.0		
3	TTWW+m	MT20	5.0	6.0	2.25	1.25
4	TMW+w	MT20	2.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
15	1767	0	1767	0	0	5-8	5-8
8	2276	0	2276	0	0	1-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
15	1237	881 / 0	0 / 0	0 / 0	0 / 0	356 / 0	0 / 0
8	1599	1109 / 0	0 / 0	0 / 0	0 / 0	490 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 15, 8

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.57 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1	MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 29	-77.3	-77.3	0.06 (1)		10.00	14- 3	-283 / 0	0.04 (1)
2- 3	-1958 / 0	-77.3	-77.3	0.15 (1)		6.11	3-13	0 / 1713	0.21 (1)
3- 4	-2979 / 0	-77.3	-77.3	0.17 (1)		5.18	13- 4	-372 / 0	0.05 (1)
4- 5	-2979 / 0	-77.3	-77.3	0.25 (1)		5.08	13- 5	-936 / 0	0.31 (1)
5- 6	-3715 / 0	-145.8	-145.8	0.32 (1)		4.57	12- 5	-38 / 102	0.02 (3)
6- 7	-2615 / 0	-77.3	-77.3	0.13 (1)		5.50	12- 6	0 / 1957	0.24 (1)
15- 2	-1738 / 0	0.0	0.0	0.10 (1)		7.81	10- 6	-411 / 12	0.05 (1)
9- 7	-2367 / 0	0.0	0.0	0.14 (1)		7.31	2-14	0 / 1670	0.21 (1)
							10- 7	0 / 2304	0.29 (1)
15-14	0 / 0	-17.5	-17.5	0.02 (3)		10.00			
14-13	0 / 1618	-17.5	-17.5	0.12 (1)		10.00			
13-12	0 / 3715	-17.5	-17.5	0.29 (1)		10.00			
12-11	0 / 2160	-33.0	-33.0	0.20 (1)		10.00			
11-10	0 / 2160	-33.0	-33.0	0.20 (1)		10.00			
10- 9	0 / 0	-33.0	-33.0	0.16 (1)		10.00			
9- 8	0 / 0	-33.0	-33.0	0.16 (1)		10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
6	18-10-3	-220	-220	---	FRONT	VERT	TOTAL
12	14-0-12	-1106	-1106	---	FRONT	VERT	TOTAL

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

DESIGN CRITERIA

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

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

GIRDER TYPE: CPrimeHip
LEFT SETBACK = 4-1-13
RIGHT SETBACK = 3-9-7
END SETBACK = 6-0-0
END WALL WIDTH = 5-8
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDT'L LOADS BASED ON 55 % OF GSL.
LOADS APPLIED TO FIRST 8-6-14 OF SPAN MEASURED FROM THE RIGHT.

*** NON STANDARD GIRDER ***
ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.76")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.76")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.10")

CSI: TC=0.32 (5-6:1) , BC=0.29 (12-13:1) , WB=0.31 (5-13:1) , SSI=0.75 (8-9:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

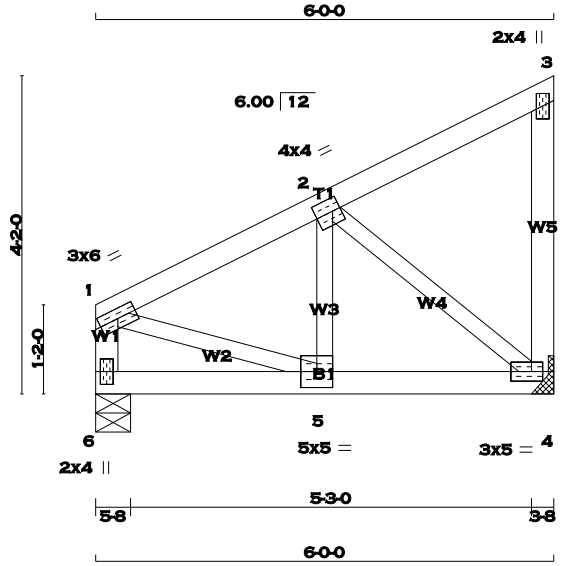
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches
PLATE ROTATION TOL. = De

CONTINUED ON PAGE 2



SCALE = 1:30.2

TOTAL WEIGHT = 26 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	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	3.0	6.0		
2	TMWW-t	MT20	4.0	4.0	2.00	1.25
3	TMV+p	MT20	2.0	4.0		
4	BMVW1-t	MT20	3.0	5.0	1.50	1.75
5	BMWW-t	MT20	5.0	5.0		
6	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG
4	1106	0	1106	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 3-8	
6	1106	0	1106	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
4	776	543 / 0	0 / 0	0 / 0	0 / 0	233 / 0	0 / 0
6	776	543 / 0	0 / 0	0 / 0	0 / 0	233 / 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 = 6.22 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF) FROM	TO	MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	-948 / 0	-77.3	-77.3	0.11 (1)	6.22	5- 2	0 / 825	0.20 (1)
2- 3	-10 / 0	-77.3	-77.3	0.10 (1)	10.00	2- 4	-1090 / 0	0.28 (1)
4- 3	-94 / 0	0.0	0.0	0.03 (1)	7.81	1- 5	0 / 891	0.22 (1)
6- 1	-767 / 0	0.0	0.0	0.09 (1)	7.81			
6- 5	0 / 0	-291.2	-291.2	0.44 (1)	10.00			
5- 4	0 / 857	-291.2	-291.2	0.59 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

CSI: TC=0.11 (1-2:1) , BC=0.59 (4-5:1) , WB=0.28 (2-4:1) , SSI=0.46 (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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

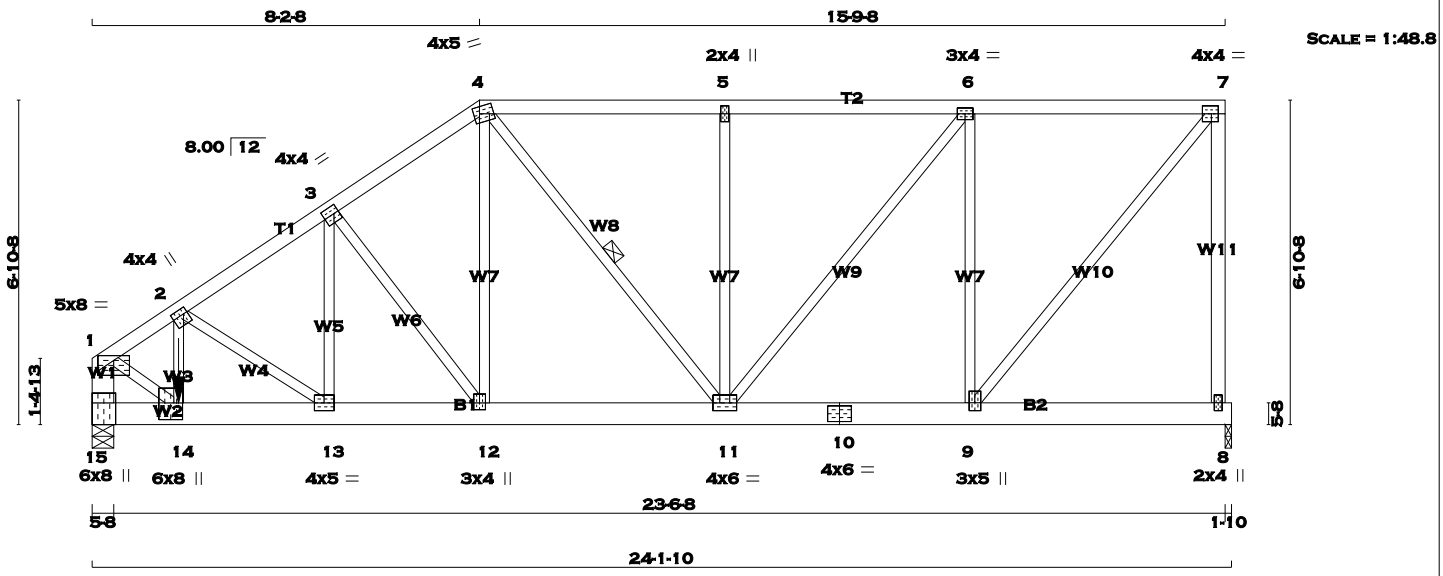
JSI GRIP= 0.90 (4) (INPUT = 0.90)
JSI METAL= 0.31 (2) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
R.M. TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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

KOTT



TOTAL WEIGHT = 2 X 129 = 257 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 7	2x4	DRY	No.2	SPF
8 - 7	2x4	DRY	No.2	SPF
15 - 1	2x6	DRY	No.2	SPF
15 - 10	2x6	DRY	No.2	SPF
10 - 8	2x6	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)		LOAD(PLF)
TOP CHORDS : (0.122"X3") SPIRAL NAILS			
1- 4	1	12	TOP
4- 7	1	12	TOP
7- 8	1	12	TOP
15- 1	2	12	TOP
BOTTOM CHORDS : (0.122"X3") SPIRAL NAILS			
15- 10	2	12	SIDE(194.6)
10- 8	2	12	TOP
WEBS : (0.122"X3") SPIRAL NAILS			
2x3	1	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-p	MT20	5.0	8.0	1.25	4.00
2	TMWW+t	MT20	4.0	4.0	1.50	1.00
3	TMWW-t	MT20	4.0	4.0	2.00	1.25
4	TTWW-m	MT20	4.0	5.0	1.75	1.50
5	TMW+w	MT20	2.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
8	1577	0	1577	0	0	1-10	1-10
15	6795	0	6795	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
8	1106	774 / 0	0 / 0	0 / 0	0 / 0	332 / 0	0 / 0
15	4769	3336 / 0	0 / 0	0 / 0	0 / 0	1433 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8, 15

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.87 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 4-11. DBS = 20-0-0 . CBF = 47 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) TO EACH PLY USING (0.122"X3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

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

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	-6021 / 0	-77.3	-77.3	0.16 (1)	3.87
2- 3	-3563 / 0	-77.3	-77.3	0.12 (1)	4.89
3- 4	-2422 / 0	-77.3	-77.3	0.09 (1)	5.71
4- 5	-1783 / 0	-77.3	-77.3	0.17 (1)	6.25
5- 6	-1783 / 0	-77.3	-77.3	0.18 (1)	6.25
6- 7	-1136 / 0	-77.3	-77.3	0.17 (1)	6.25
8- 7	-1536 / 0	0.0	0.0	0.74 (1)	7.81
15- 1	-6146 / 0	0.0	0.0	0.22 (1)	5.97
15-14	0 / 0	-406.8	-406.8	0.19 (1)	10.00
14-13	0 / 4998	-17.5	-17.5	0.51 (1)	10.00
13-12	0 / 2985	-17.5	-17.5	0.21 (1)	10.00
12-11	0 / 2020	-17.5	-17.5	0.15 (1)	10.00
11-10	0 / 1136	-17.5	-17.5	0.09 (1)	10.00
10- 9	0 / 1136	-17.5	-17.5	0.09 (1)	10.00
9- 8	0 / 0	-17.5	-17.5	0.03 (3)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
14- 2	0 / 2619	0.32 (1)
2-13	-2452 / 0	0.33 (1)
13- 3	0 / 1634	0.20 (1)
3-12	-1635 / 0	0.41 (1)
12- 4	0 / 1373	0.17 (1)
4-11	-379 / 0	0.09 (1)
11- 5	-430 / 0	0.16 (1)
11- 6	0 / 1036	0.13 (1)
9- 6	-1262 / 0	0.48 (1)
9- 7	0 / 1777	0.22 (1)
1-14	0 / 5688	0.70 (1)

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
14	1-10-0	-5382	-5382	---	FRONT	VERT	TOTAL

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

DESIGN CRITERIA

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

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

*** NON STANDARD GIRDER ***
ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.80")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.80")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.07")

CSI: TC=0.74 (7-8:1) , BC=0.51 (13-14:1) , WB=0.70 (1-14:1) , SSI=0.22 (14-15:1)

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (-4) IPU = 90
JSI METAL= 0.64 (IN = 1)

CONTINUED ON PAGE 2

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Mon Mar 13 10:23:03 2017 Page 1
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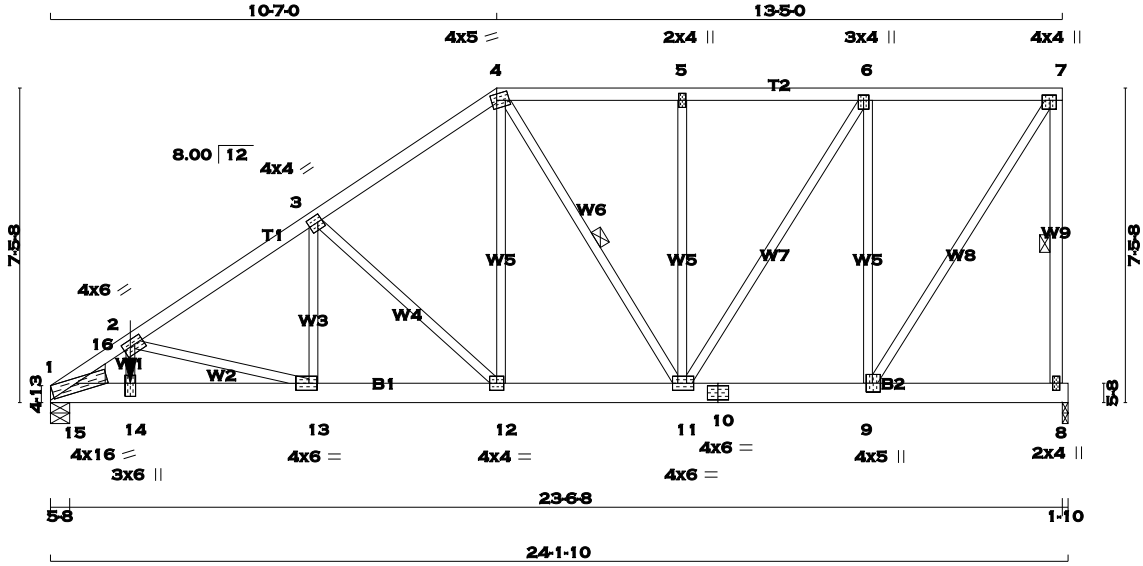

TOTAL WEIGHT = 130 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 7	2x4	DRY	No.2	SPF
8 - 7	2x4	DRY	No.2	SPF
1 - 10	2x6	DRY	No.2	SPF
10 - 8	2x6	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMB1-m	MT20	4.0	16.0	4.00	Edge
2	TMWW-t	MT20	4.0	6.0	1.75	2.50
3	TMWW-t	MT20	4.0	4.0	2.00	1.25
4	TTWW-m	MT20	4.0	5.0	1.75	1.50
5	TMW+w	MT20	2.0	4.0		
6	TMWW+t	MT20	3.0	4.0	1.50	1.50
7	TMVW+p	MT20	4.0	4.0	1.50	1.75
8	BMV1+p	MT20	2.0	4.0		
9	BMWW+t	MT20	4.0	5.0	2.50	1.75
10	BS-t	MT20	4.0	6.0		
11	BMWWW-t	MT20	4.0	6.0	2.00	1.50
12	BMWW-t	MT20	4.0	4.0		
13	BMWW-t	MT20	4.0	6.0	2.00	2.25
14	BMW+w	MT20	3.0	6.0	3.75	1.50

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) 1751.2 lbs FACTORED DOWN AT 1-10-12 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX	HEEL WEDGE
1	2751	0	2751	0	0	5-8	5-8	2x6 L
8	1277	0	1277	0	0	1-10	1-10	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
1	1931	1351 / 0	0 / 0	0 / 0	0 / 0	580 / 0	0 / 0
8	896	627 / 0	0 / 0	0 / 0	0 / 0	269 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 1, 8

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.05 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 = 93 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 4-11. DBS = 20-0-0 . CBF = 27 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 FROM	TO	MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1-16	-4459 / 0	-77.3	-77.3	0.32 (1)	3.05	14- 2	0 / 1440	0.36 (1)
16- 2	-4373 / 0	-77.3	-77.3	0.32 (1)	3.08	2-13	-1806 / 0	0.64 (1)
2- 3	-2286 / 0	-77.3	-77.3	0.38 (1)	4.13	13- 3	0 / 726	0.18 (1)
3- 4	-1472 / 0	-77.3	-77.3	0.32 (1)	5.02	3-12	-980 / 0	0.63 (1)
4- 5	-1100 / 0	-77.3	-77.3	0.23 (1)	5.72	12- 4	0 / 721	0.18 (1)
5- 6	-1101 / 0	-77.3	-77.3	0.26 (1)	5.68	4-11	-217 / 0	0.10 (1)
6- 7	-714 / 0	-77.3	-77.3	0.25 (1)	6.25	11- 5	-364 / 0	0.35 (1)
8- 7	-1241 / 0	0.0	0.0	0.31 (1)	5.74	11- 6	0 / 732	0.18 (1)
						9- 6	-1007 / 0	0.96 (1)
1-15	0 / 3654	-17.5	-17.5	0.54 (1)	10.00	9- 7	0 / 1309	0.32 (1)
15-14	0 / 3655	-17.5	-17.5	0.80 (1)	10.00	15-16	0 / 82	0.00 (1)
14-13	0 / 3655	-17.5	-17.5	0.80 (1)	10.00			
13-12	0 / 1920	-17.5	-17.5	0.32 (1)	10.00			
12-11	0 / 1215	-17.5	-17.5	0.19 (1)	10.00			
11-10	0 / 714	-17.5	-17.5	0.11 (1)	10.00			
10- 9	0 / 714	-17.5	-17.5	0.11 (1)	10.00			
9- 8	0 / 0	-17.5	-17.5	0.04 (3)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
14	1-10-12	-1751	-1751	---	FRONT	VERT	TOTAL

DESIGN CRITERIA

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

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

*** NON STANDARD GIRDER ***
ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.80")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.08")
ALLOWABLE DEFL.(TL)= L/360 (0.80")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.14")

CSI: TC=0.38 (2-3:1) , BC=0.80 (14-15:1) , WB=0.96 (6-9:1) , SSI=0.18 (6-7:1)

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (4) (INPUT = 0.90)
JSI METAL= 0.49 (2) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
R.M. TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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

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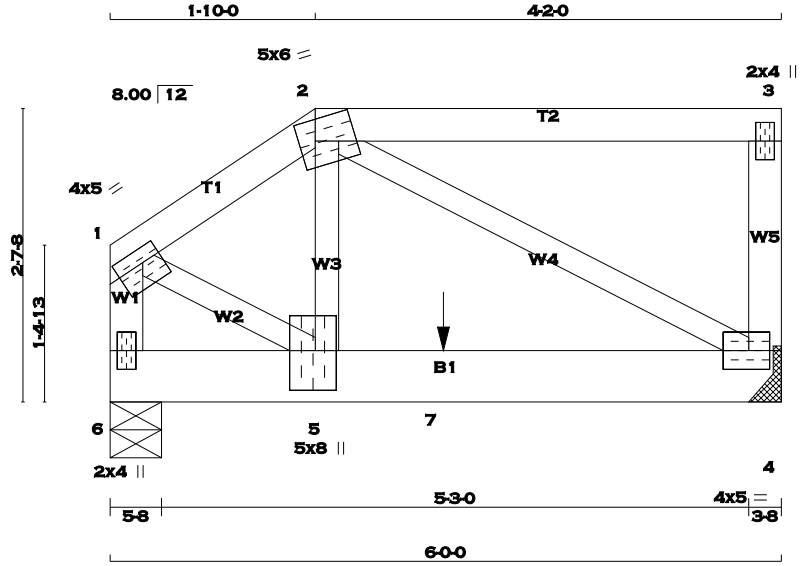

TOTAL WEIGHT = 28 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 2	2x4	DRY	No.2	SPF
2 - 3	2x4	DRY	No.2	SPF
4 - 3	2x4	DRY	No.2	SPF
6 - 1	2x4	DRY	No.2	SPF
6 - 4	2x6	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	4.0	5.0	1.50	2.00
2	TTWW-m	MT20	5.0	6.0	2.25	1.75
3	TMV+p	MT20	2.0	4.0		
4	BMVW1-t	MT20	4.0	5.0	2.00	2.25
5	BMWW+t	MT20	5.0	8.0	4.25	2.25
6	BMV1+p	MT20	2.0	4.0		

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

HANGERS NOTES
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 495.9 lbs FACTORED DOWN AT 2-11-12 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG	REQRD BRG
4	1752	0	1752	0	0	IN-SX	IN-SX
						HANGER BY OTHERS	
						MIN. SEAT SIZE: 3-8	
6	1370	0	1370	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
4	1229	860 / 0	0 / 0	0 / 0	0 / 0	369 / 0	0 / 0
6	961	672 / 0	0 / 0	0 / 0	0 / 0	289 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.33 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF) FROM	TO	MAX CSI (LC)	WEBS MAX. UNBRAC LENGTH	MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	-1453 / 0	-77.3	-77.3	0.08 (1)	5.33	5- 2	0 / 1259	0.31 (1)
2- 3	0 / 0	-77.3	-77.3	0.25 (1)	10.00	2- 4	-1433 / 0	0.49 (1)
4- 3	-161 / 0	0.0	0.0	0.02 (1)	7.81	1- 5	0 / 1355	0.34 (1)
6- 1	-1503 / 0	0.0	0.0	0.17 (1)	6.65			
6- 5	0 / 0	-230.9	-230.9	0.51 (1)	10.00			
5- 7	0 / 1263	-230.9	-230.9	0.79 (1)	10.00			
7- 4	0 / 1263	-487.8	-487.8	0.79 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
7	2-11-12	-496	-496	---	FRONT	VERT	TOTAL

DESIGN CRITERIA

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

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

GIRDER TYPE: CStdGirder
START DISTANCE = 2-11-12
START SPAN CARRIED = 21-11-8
END DISTANCE = 6-0-0
END SPAN CARRIED = 21-11-8
END WALL WIDTH = 1-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDT'L LOADS BASED ON 55 % OF GSL.

*** NON STANDARD GIRDER ***
ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 863 (0.08")

CSI: TC=0.25 (2-3:1) , BC=0.79 (4-5:1) , WB=0.49 (2-4:1) , SSI=0.86 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

LICENSED PROFESSIONAL ENGINEER
R.M. TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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

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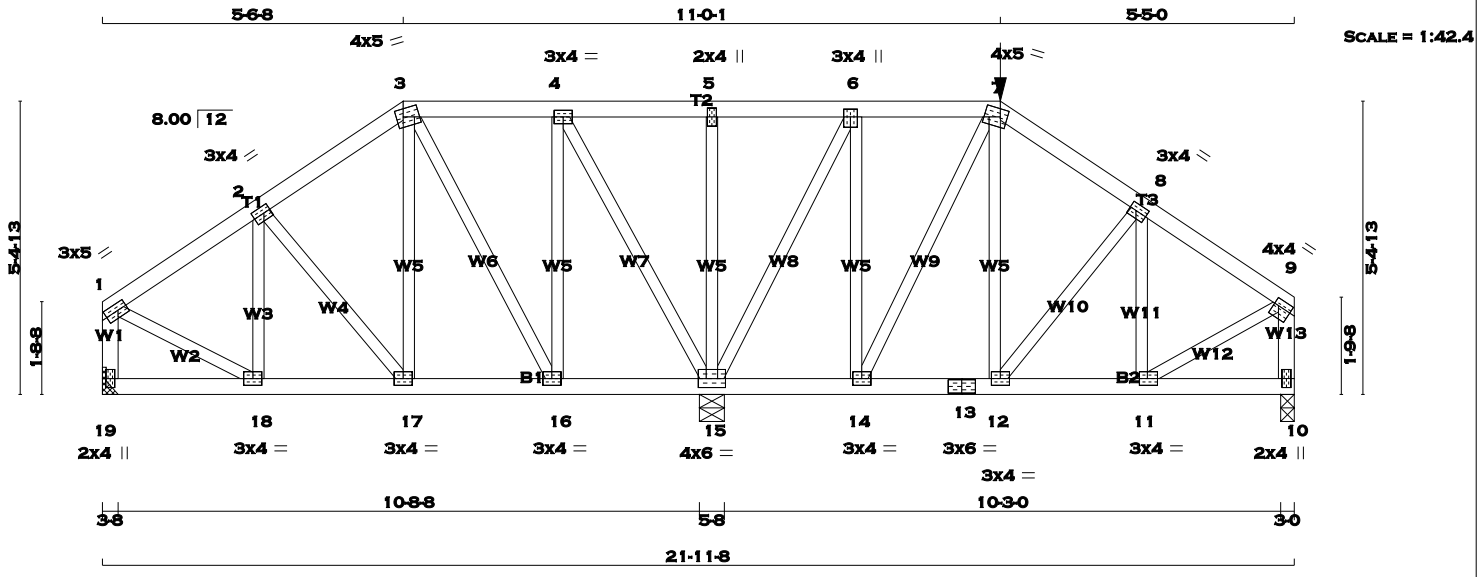
CONTINUED ON PAGE 2



TOTAL WEIGHT = 109 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 7	2x4	DRY	No.2	SPF
7 - 9	2x4	DRY	No.2	SPF
19 - 1	2x4	DRY	No.2	SPF
10 - 9	2x4	DRY	No.2	SPF
19 - 13	2x4	DRY	No.2	SPF
13 - 10	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	3.0	5.0	1.50	2.00
2	TMWW-t	MT20	3.0	4.0	1.50	1.50
3	TTWW-m	MT20	4.0	5.0	1.75	1.50
4	TMWW-t	MT20	3.0	4.0		
5	TMW+w	MT20	2.0	4.0		
6	TMWW+t	MT20	3.0	4.0	1.75	1.50
7	TTWW-m	MT20	4.0	5.0	1.75	1.50
8	TMWW-t	MT20	3.0	4.0	1.50	1.50
9	TMVW-t	MT20	4.0	4.0	1.50	1.00
10	BMV1+p	MT20	2.0	4.0		
11	BMWW-t	MT20	3.0	4.0	1.50	1.75
12, 14, 16, 17, 18						
12	BMWW-t	MT20	3.0	4.0		
13	BS-t	MT20	3.0	6.0		
15	BMWWW1-t	MT20	4.0	6.0		
19	BMV1+p	MT20	2.0	4.0		

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

HANGERS NOTES
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 314.2 lbs FACTORED DOWN AT 16-6-9 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
19	494	0	494	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 3-8	
15	1657	0	1657	0	0	5-8	5-8
10	808	0	808	0	0	3-0	3-0

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
19	348	238 / 0	0 / 0	0 / 0	0 / 0	110 / 0	0 / 0
15	1159	830 / 0	0 / 0	0 / 0	0 / 0	329 / 0	0 / 0
10	571	376 / 0	0 / 0	0 / 0	0 / 0	195 / 0	0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC	MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	-389 / 0	-77.3	-77.3	0.10 (1)	6.25	18- 2	-109 / 11		0.02 (1)
2- 3	-316 / 0	-77.3	-77.3	0.10 (1)	6.25	2-17	-130 / 0		0.04 (1)
3- 4	-169 / 0	-77.3	-77.3	0.09 (1)	6.25	17- 3	0 / 152		0.04 (1)
4- 5	-1 / 60	-77.3	-77.3	0.12 (1)	10.00	3-16	-173 / 0		0.10 (1)
5- 6	-1 / 60	-149.9	-149.9	0.18 (1)	10.00	16- 4	0 / 178		0.04 (1)
6- 7	-375 / 0	-149.9	-149.9	0.17 (1)	6.25	4-15	-473 / 0		0.28 (1)
7- 8	-663 / 0	-77.3	-77.3	0.10 (1)	6.25	15- 5	-301 / 0		0.14 (1)
8- 9	-675 / 0	-77.3	-77.3	0.10 (1)	6.25	15- 6	-944 / 0		0.54 (1)
19- 1	-472 / 0	0.0	0.0	0.06 (1)	7.81	14- 6	0 / 386		0.10 (1)
10- 9	-767 / 0	0.0	0.0	0.09 (1)	7.81	14- 7	-360 / 0		0.20 (1)
						12- 7	0 / 132		0.05 (3)
19-18	0 / 0	-17.5	-17.5	0.03 (3)	10.00	12- 8	-52 / 0		0.02 (1)
18-17	0 / 335	-17.5	-17.5	0.07 (1)	10.00	11- 8	-196 / 22		0.05 (1)
17-16	0 / 254	-17.5	-17.5	0.06 (1)	10.00	1-18	0 / 372		0.09 (1)
16-15	0 / 169	-17.5	-17.5	0.10 (1)	10.00	11- 9	0 / 646		0.16 (1)
15-14	0 / 375	-33.9	-33.9	0.14 (1)	10.00				
14-13	0 / 542	-33.9	-33.9	0.13 (1)	10.00				
13-12	0 / 542	-33.9	-33.9	0.13 (1)	10.00				
12-11	0 / 572	-33.9	-33.9	0.13 (1)	10.00				
11-10	0 / 0	-33.9	-33.9	0.06 (3)	10.00				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
7	16-6-9	-314	-314	---	FRONT	VERT	TOTAL

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

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

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

CSI: TC=0.18 (5-6:1) , BC=0.14 (14-15:1) , WB=0.54 (6-15:1) , SSI=0.21 (6-7:1)

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

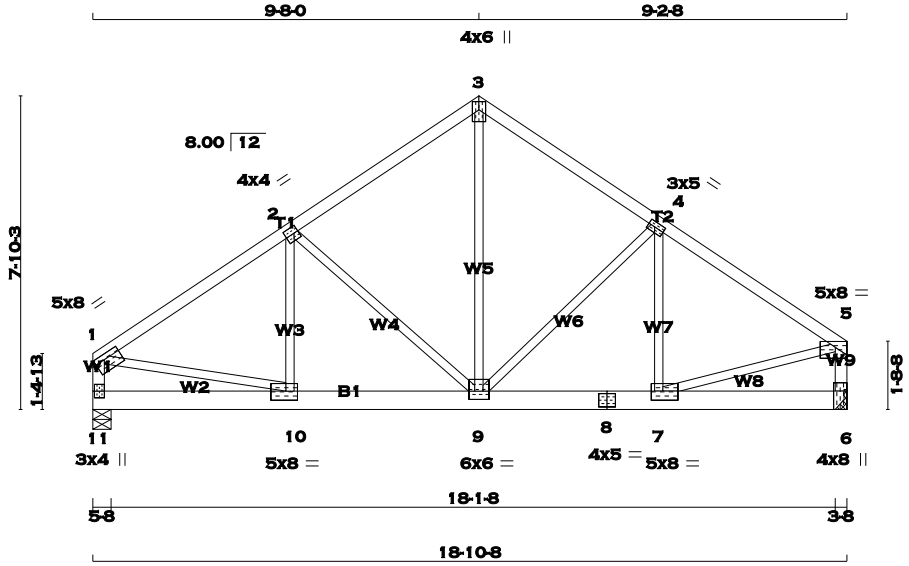
PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (11) (INPUT = 0.90)
JSI METAL= 0.28 (9) (INPUT = 1.00)

KOTT



TOTAL WEIGHT = 2 X 92 = 183 lb [M]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
11 - 1	2x4	DRY	No.2	SPF
6 - 5	2x4	DRY	No.2	SPF
11 - 8	2x6	DRY	No.2	SPF
8 - 6	2x6	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)		LOAD(PLF)
TOP CHORDS : (0.122"X3") SPIRAL NAILS			
1- 3	1	12	TOP
3- 5	1	12	TOP
11- 1	1	12	TOP
6- 5	1	12	TOP
BOTTOM CHORDS : (0.122"X3") SPIRAL NAILS			
11- 8	2	9	SIDE(237.7)
8- 6	2	9	SIDE(237.7)
WEBS : (0.122"X3") SPIRAL NAILS			
2x3	1	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	5.0	8.0	1.50	3.00
2	TMWW-t	MT20	4.0	4.0	2.00	1.25
3	TTW+p	MT20	4.0	6.0	2.50	2.00
4	TMWW-t	MT20	3.0	5.0	1.50	2.00
5	TMVW-p	MT20	5.0	8.0	1.75	Edge
6	BMV1+t	MT20	4.0	8.0	Edge	0.50
7	BMWW-t	MT20	5.0	8.0	2.75	3.50
8	BS-t	MT20	4.0	5.0		

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
11	5382	0	5382	0	0	5-8	5-8
6	5382	0	5382	0	0	HANGER BY OTHERS	
						MIN. SEAT SIZE: 3-8	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	SNOW	MAX./MIN. COMPONENT REACTIONS LIVE	PERM.LIVE	WIND	DEAD	SOIL
11	3777	2642 / 0	0 / 0	0 / 0	0 / 0	1135 / 0	0 / 0
6	3777	2642 / 0	0 / 0	0 / 0	0 / 0	1135 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.85 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF) FROM	TO	MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	-5803 / 0	-77.3	-77.3	0.32 (1)	3.85
2- 3	-4246 / 0	-77.3	-77.3	0.22 (1)	4.47
3- 4	-4244 / 0	-77.3	-77.3	0.20 (1)	4.49
4- 5	-5405 / 0	-77.3	-77.3	0.27 (1)	4.00
11- 1	-4365 / 0	0.0	0.0	0.24 (1)	5.70
6- 5	-4408 / 0	0.0	0.0	0.25 (1)	5.68
11-10	0 / 0	-493.0	-493.0	0.39 (1)	10.00
10- 9	0 / 4844	-493.0	-493.0	0.68 (1)	10.00
9- 8	0 / 4511	-493.0	-493.0	0.62 (1)	10.00
8- 7	0 / 4511	-493.0	-493.0	0.62 (1)	10.00
7- 6	0 / 0	-493.0	-493.0	0.35 (1)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
10- 2	0 / 1646	0.20 (1)
2- 9	-1792 / 0	0.65 (1)
9- 3	0 / 4399	0.54 (1)
9- 4	-1398 / 0	0.50 (1)
7- 4	0 / 1227	0.15 (1)
1-10	0 / 4942	0.61 (1)
7- 5	0 / 4681	0.58 (1)

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

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 = 22-2-2
END DISTANCE = 18-10-8
END SPAN CARRIED = 22-2-2
END WALL WIDTH = 1-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDT'L LOADS BASED ON 55 % OF GSL.

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.63")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.08")
ALLOWABLE DEFL.(TL)= L/360 (0.63")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.14")

CSI: TC=0.32 (1-2:1) , BC=0.68 (9-10:1) , WB=0.65 (2-9:1) , SSI=0.47 (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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (1) (INPUT = 0.90)
JSI METAL= 0.57 (1) (INPUT = 1.00)

KOTT

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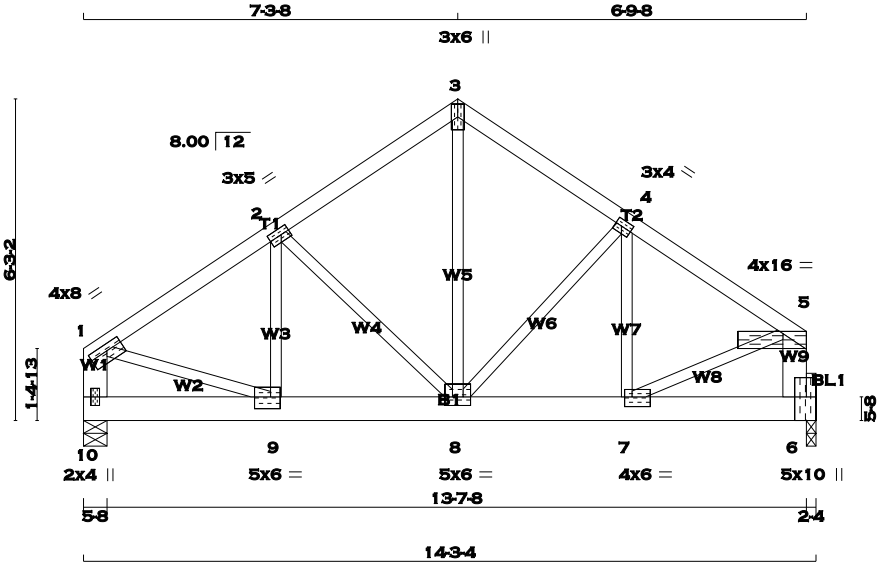


TOTAL WEIGHT = 3 X 72 = 216 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
10 - 1	2x6	DRY	No.2	SPF
6 - 5	2x6	DRY	No.2	SPF
10 - 6	2x6	DRY	No.2	SPF
BEARING BLOCKS				
BL1	2x6	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)		LOAD(PLF)
TOP CHORDS : (0.122"X3") SPIRAL NAILS			
1- 3	1	12	TOP
3- 5	1	12	TOP
10- 1	2	12	TOP
6- 5	2	12	TOP
BOTTOM CHORDS : (0.122"X3") SPIRAL NAILS			
10- 6	2	4	SIDE(567.8)
WEBS : (0.122"X3") SPIRAL NAILS			
2x3	1	6	

STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.

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

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	4.0	8.0	1.50	3.75
2	TMWW-t	MT20	3.0	5.0	1.50	2.00
3	TTW+p	MT20	3.0	6.0		
4	TMWW-t	MT20	3.0	4.0	1.50	1.50
5	TMVW-p	MT20	4.0	16.0	Edge	5.50
6	BMVK1+t	MT20	5.0	10.0	5.50	Edge

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
10	6556	0	6556	0	0	5-8	5-8
6	6574	0	6574	0	0	2-4	2-4

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
10	4601	3219 / 0	0 / 0	0 / 0	0 / 0	1383 / 0	0 / 0
6	4614	3230 / 0	0 / 0	0 / 0	0 / 0	1384 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 10, 6
BEARING SIZE FACTOR = 1.08 AT JNT(S) 6 (BASED ON SUPPORT DEPTH = 1-8)

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.56 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	-6472 / 0	-77.3	-77.3	0.12 (1)	4.56	9- 2	0 / 1994	0.15 (1)
2- 3	-4815 / 0	-77.3	-77.3	0.08 (1)	5.16	2- 8	-1951 / 0	0.26 (1)
3- 4	-4813 / 0	-77.3	-77.3	0.07 (1)	5.17	8- 3	0 / 5088	0.38 (1)
4- 5	-5582 / 0	-77.3	-77.3	0.09 (1)	4.86	8- 4	-968 / 0	0.12 (1)
10- 1	-5160 / 0	0.0	0.0	0.11 (1)	7.55	7- 4	0 / 874	0.07 (1)
6- 5	-5422 / 0	0.0	0.0	0.12 (1)	7.42	1- 9	0 / 5577	0.42 (1)
						7- 5	0 / 5957	0.45 (1)
10- 9	0 / 0	-869.2	-869.2	0.25 (1)	10.00			
9- 8	0 / 5389	-869.2	-869.2	0.41 (1)	10.00			
8- 7	0 / 4648	-869.2	-869.2	0.36 (1)	10.00			
7- 6	-921 / 0	-869.2	-869.2	0.20 (1)	6.25			

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

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 38-4-8
END DISTANCE = 14-2-10
END SPAN CARRIED = 38-4-8
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDT'L LOADS BASED ON 55 % OF GSL.

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.46")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.46")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.07")

CSI: TC=0.12 (5-6:1) , BC=0.41 (8-9:1) , WB=0.45 (5-7:1) , SSI=0.37 (9-10:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

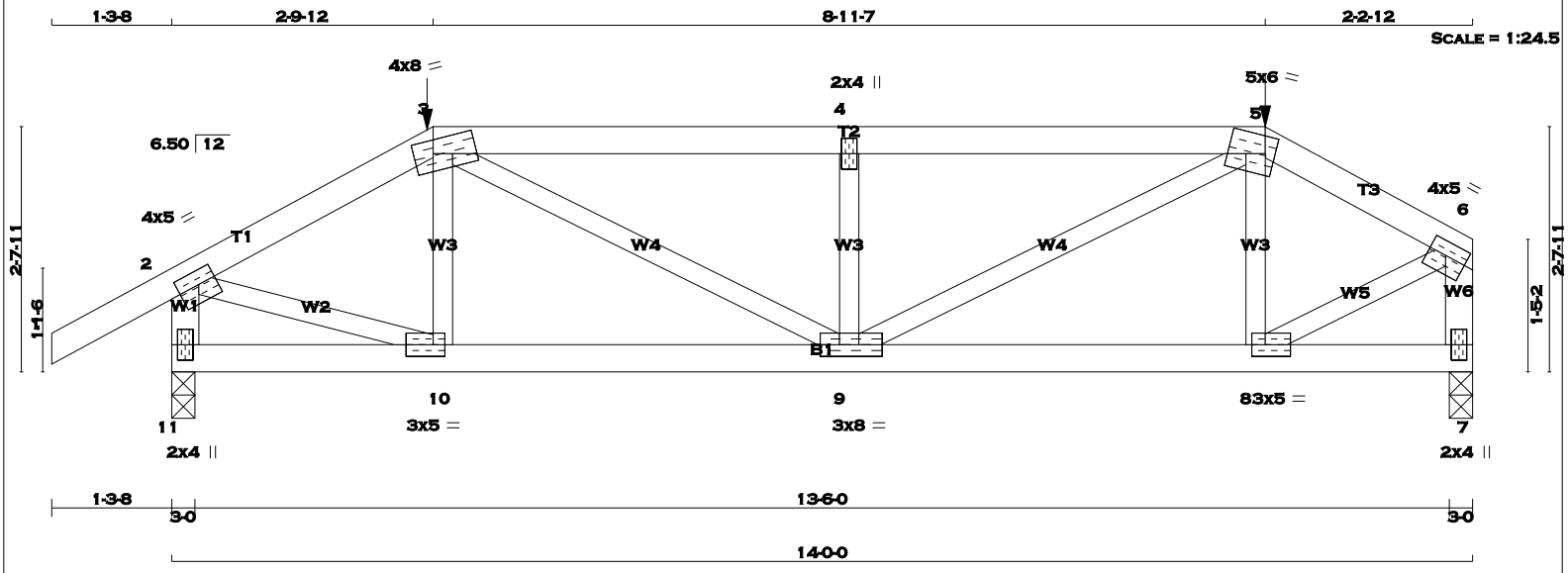
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (10) (INPUT = 0.90)
JSI METAL= 0.46 (7) (INPUT = 1.00)

KOTT

CONTINUED ON PAGE 2



TOTAL WEIGHT = 53 lb [M]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
5 - 6	2x4	DRY	No.2	SPF
11 - 2	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
11 - 7	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	5.0	1.75	2.25
3	TTWW-m	MT20	4.0	8.0	1.75	2.50
4	TMW+w	MT20	2.0	4.0		
5	TTWW-m	MT20	5.0	6.0	2.25	1.25
6	TMVW-t	MT20	4.0	5.0	1.75	2.25
7	BMV1+p	MT20	2.0	4.0		
8	BMWW-t	MT20	3.0	5.0	1.50	1.75
9	BMWWW-t	MT20	3.0	8.0	1.50	2.50
10	BMWW-t	MT20	3.0	5.0	1.50	1.50
11	BMV1+p	MT20	2.0	4.0		

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

HANGERS NOTES

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 113.7 lbs FACTORED DOWN AT 11-9-4, AND 143.5 lbs FACTORED DOWN AT 2-9-12 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
11	1266	0	1266	0	0	3-0	3-0
7	1176	0	1176	0	0	3-0	3-0

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
11	887	630 / 0	0 / 0	0 / 0	0 / 0	258 / 0	0 / 0
7	826	575 / 0	0 / 0	0 / 0	0 / 0	251 / 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 = 4.04 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 25	-77.3	-77.3	0.11 (1)	10.00	10- 3	-208 / 42	0.04 (1)
2- 3	-1417 / 0	-77.3	-77.3	0.14 (1)	5.30	3- 9	0 / 837	0.21 (1)
3- 4	-1977 / 0	-139.4	-139.4	0.57 (1)	4.04	9- 4	-755 / 0	0.13 (1)
4- 5	-1977 / 0	-139.4	-139.4	0.57 (1)	4.04	9- 5	0 / 1068	0.26 (1)
5- 6	-1193 / 0	-77.3	-77.3	0.09 (1)	5.73	8- 5	-369 / 0	0.07 (1)
11- 2	-1235 / 0	0.0	0.0	0.14 (1)	7.19	2-10	0 / 1290	0.32 (1)
7- 6	-1159 / 0	0.0	0.0	0.13 (1)	7.37	8- 6	0 / 1160	0.29 (1)
11-10	0 / 0	-31.5	-31.5	0.11 (3)	10.00			
10- 9	0 / 1235	-31.5	-31.5	0.29 (1)	10.00			
9- 8	0 / 1030	-31.5	-31.5	0.25 (1)	10.00			
8- 7	0 / 0	-31.5	-31.5	0.10 (3)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
3	2-9-12	-144	-144	---	FRONT	VERT	TOTAL
5	11-9-4	-114	-114	---	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 = 2-9-12
RIGHT SETBACK = 2-2-12
END SETBACK = 5-5-8
END WALL WIDTH = 3-0
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDT'L LOADS BASED ON 55 % OF GSL.

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.47")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.47")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.08")

CSI: TC=0.57 (3-4:1) , BC=0.29 (9-10:1) , WB=0.32 (2-10:1) , SSI=0.33 (3-4:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) 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= 0.46 (2) (INPUT = 1.00)

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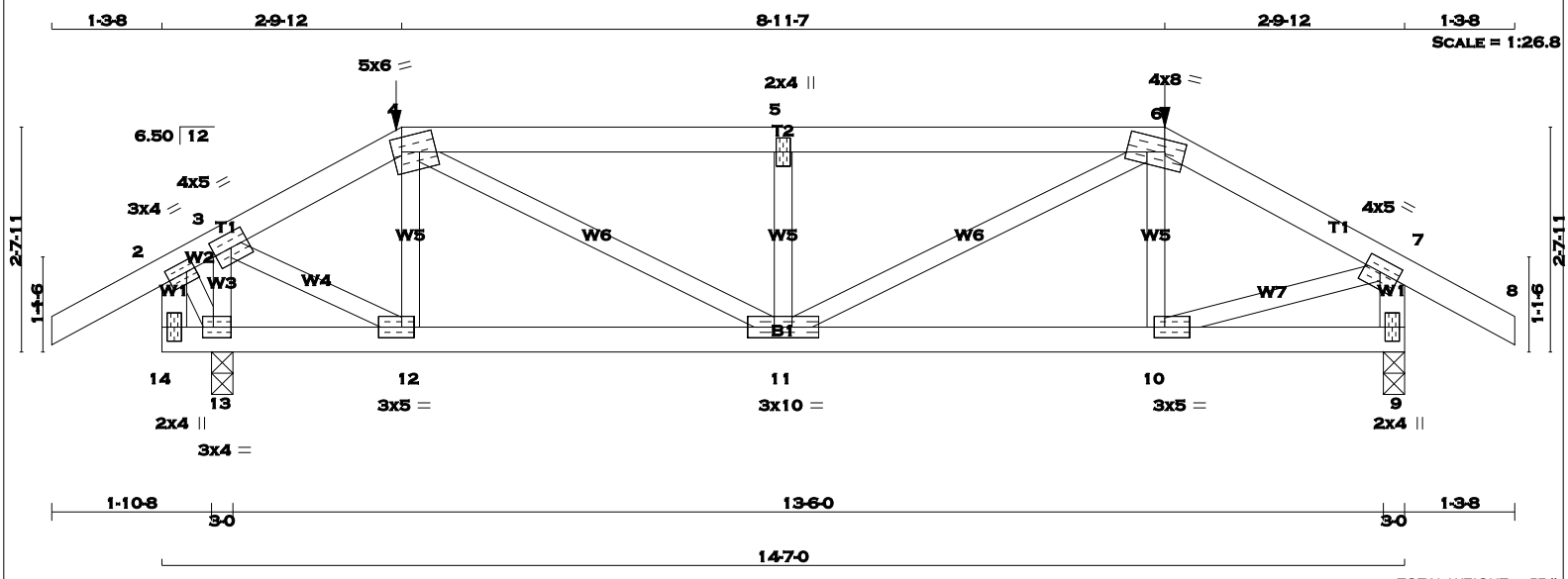
MAR 29, 2017
17-5001
BUILDING DIVISION

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

KOTT



TOTAL WEIGHT = 57 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
14 - 2	2x4	DRY	No.2	SPF
9 - 7	2x4	DRY	No.2	SPF
14 - 9	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	4.0	1.50	1.25
3	TMWW-t	MT20	4.0	5.0		
4	TTWW-m	MT20	5.0	6.0	2.00	1.25
5	TMW+w	MT20	2.0	4.0		
6	TTWW-m	MT20	4.0	8.0	1.75	2.75
7	TMVW-t	MT20	4.0	5.0	1.75	2.25
9	BMV1+p	MT20	2.0	4.0		
10	BMWW-t	MT20	3.0	5.0	1.50	1.50
11	BMWWW-t	MT20	3.0	10.0		
12	BMWW-t	MT20	3.0	5.0	1.50	1.75
13	BMWW1-t	MT20	3.0	4.0	1.50	1.50
14	BMV+p	MT20	2.0	4.0		

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

HANGERS NOTES

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 143.5 lbs FACTORED DOWN AT 11-9-4, AND 143.5 lbs FACTORED DOWN AT 2-9-12 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
9	1248	0	1248	0	0	3-0	3-0
13	1393	0	1393	0	0	3-0	3-0

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
9	874	620 / 0	0 / 0	0 / 0	0 / 0	254 / 0	0 / 0
13	976	693 / 0	0 / 0	0 / 0	0 / 0	283 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.10 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 25	-77.3	-77.3	0.11 (1)	10.00	12- 4	-447 / 0	0.08 (1)
2- 3	0 / 63	-77.3	-77.3	0.12 (1)	10.00	4-11	0 / 1114	0.28 (1)
3- 4	-1095 / 0	-77.3	-77.3	0.08 (1)	5.94	11- 5	-756 / 0	0.13 (1)
4- 5	-1920 / 0	-139.4	-139.4	0.56 (1)	4.10	11- 6	0 / 799	0.20 (1)
5- 6	-1920 / 0	-139.4	-139.4	0.56 (1)	4.10	10- 6	-203 / 43	0.04 (1)
6- 7	-1391 / 0	-77.3	-77.3	0.14 (1)	5.34	3-12	0 / 1165	0.29 (1)
7- 8	0 / 25	-77.3	-77.3	0.11 (1)	10.00	13- 3	-1197 / 0	0.19 (1)
14- 2	-52 / 0	0.0	0.0	0.01 (1)	7.81	2-13	-111 / 0	0.02 (1)
9- 7	-1216 / 0	0.0	0.0	0.13 (1)	7.23	10- 7	0 / 1267	0.31 (1)
14-13	0 / 0	-31.5	-31.5	0.07 (1)	10.00			
13-12	-73 / 0	-31.5	-31.5	0.10 (3)	6.25			
12-11	0 / 933	-31.5	-31.5	0.23 (1)	10.00			
11-10	0 / 1212	-31.5	-31.5	0.28 (1)	10.00			
10- 9	0 / 0	-31.5	-31.5	0.10 (3)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
4	2-9-12	-144	-144	---	FRONT	VERT	TOTAL
6	11-9-4	-144	-144	---	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
SIDE SETBACK = 2-9-12
END SETBACK = 5-5-8
END WALL WIDTH = 3-0
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDT'L LOADS BASED ON 55 % OF GSL.

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

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

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 (0.46")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.46")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.08")

CANTILEVER DEFLECTION:
ALLOWABLE DEFL.(LL)= L/120 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/120 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.00")

CSI: TC=0.56 (4-5:1) , BC=0.28 (10-11:1) , WB=0.31 (7-10:1) , SSI=0.33 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg

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KOTT

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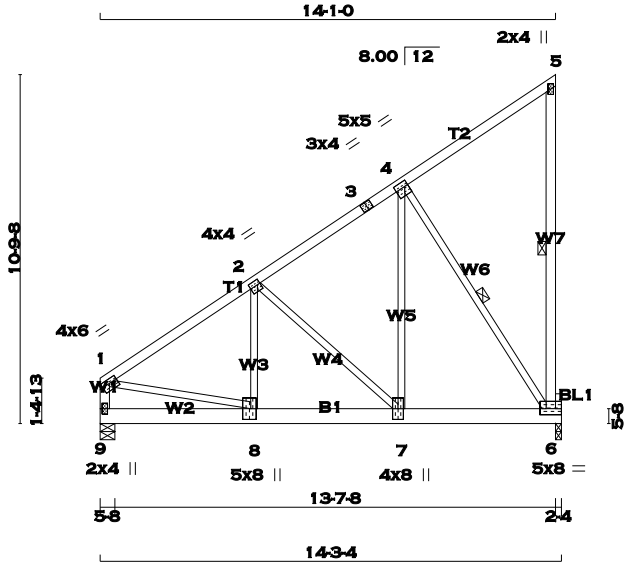


SCALE = 1:71.3

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

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
6 - 5	2x4	DRY	No.2	SPF
9 - 1	2x4	DRY	No.2	SPF
9 - 6	2x6	DRY	2100F 1.8E	SPF
BEARING BLOCKS				
BL1	2x6	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"X3") SPIRAL NAILS		
1- 3	1 12	TOP
3- 5	1 12	TOP
5- 6	1 12	TOP
9- 1	1 12	TOP
BOTTOM CHORDS : (0.122"X3") SPIRAL NAILS		
9- 6	2 9	SIDE(301.3)
WEBS : (0.122"X3") SPIRAL NAILS		
2x3	1 6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	4.0	6.0	1.50	3.00
2	TMWW-t	MT20	4.0	4.0	1.75	1.00
3	TS-t	MT20	3.0	4.0		
4	TMWW-t	MT20	5.0	5.0	2.00	1.25
5	TMV+p	MT20	2.0	4.0		
6	BMVWK1-t	MT20	5.0	8.0	2.25	Edge
7	BMWW+t	MT20	4.0	8.0		

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
6	4288	0	4288	0	0	2-4	2-4
9	4574	0	4574	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
6	3009	2107 / 0	0 / 0	0 / 0	0 / 0	903 / 0	0 / 0
9	3210	2246 / 0	0 / 0	0 / 0	0 / 0	965 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.43 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 5-6. DBS = 20-0-0 . CBF = 19 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 4-6. DBS = 4-0-0 . CBF = 93 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) TO EACH PLY USING (0.122"X3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

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

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	-4316 / 0	-77.3	-77.3	0.24 (1)	4.43	8- 2	0 / 2173	0.27 (1)
2- 3	-2390 / 0	-77.3	-77.3	0.17 (1)	5.65	2- 7	-2179 / 0	0.73 (1)
3- 4	-2390 / 0	-77.3	-77.3	0.17 (1)	5.65	7- 4	0 / 4038	0.50 (1)
4- 5	-18 / 0	-77.3	-77.3	0.13 (1)	6.25	4- 6	-3703 / 0	0.93 (1)
6- 5	-149 / 0	0.0	0.0	0.04 (1)	6.25	1- 8	0 / 3680	0.46 (1)
9- 1	-3315 / 0	0.0	0.0	0.19 (1)	6.39			
9- 8	0 / 0	-620.2	-620.2	0.26 (1)	10.00			
8- 7	0 / 3602	-525.3	-525.3	0.30 (1)	10.00			
7- 6	0 / 1995	-525.3	-525.3	0.25 (1)	10.00			

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

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 = 27-10-8
END DISTANCE = 4-7-8
END SPAN CARRIED = 27-10-8
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDT'L LOADS BASED ON 55 % OF GSL.

GIRDER TYPE: CStdGirder
START DISTANCE = 4-7-8
START SPAN CARRIED = 23-10-8
END DISTANCE = 14-2-10
END SPAN CARRIED = 23-10-8
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDT'L LOADS BASED ON 55 % OF GSL.

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.46")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.46")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.10")

CSI: TC=0.24 (1-2:1) , BC=0.30 (7-8:1) , WB=0.93 (4-6:1) , SSI=0.56 (8-9:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

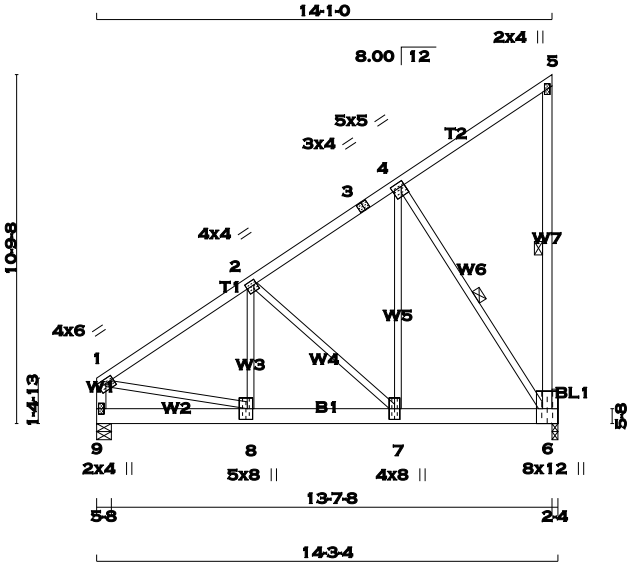
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (8) (INPUT = 0.90)
JSI METAL= 0.55 (1) (INPUT = 1.00)

KOTT

CONTINUED ON PAGE 2



SCALE = 1:71.3

TOTAL WEIGHT = 3 X 82 = 245 lb [M]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
6 - 5	2x4	DRY	No.2	SPF
9 - 1	2x4	DRY	No.2	SPF
9 - 6	2x6	DRY	2100F 1.8E	SPF
BEARING BLOCKS				
BL1	2x8	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)		LOAD(PLF)
TOP CHORDS : (0.122"X3") SPIRAL NAILS			
1- 3	1	12	TOP
3- 5	1	12	TOP
5- 6	1	12	TOP
9- 1	1	12	TOP
BOTTOM CHORDS : (0.122"X3") SPIRAL NAILS			
9- 6	2	5	SIDE(567.8)
WEBS : (0.122"X3") SPIRAL NAILS			
2x3	1	6	

STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.

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

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	4.0	6.0	1.50	3.00
2	TMWW-t	MT20	4.0	4.0	1.75	1.00
3	TS-t	MT20	3.0	4.0		
4	TMWW-t	MT20	5.0	5.0	1.75	1.25
5	TMV+p	MT20	2.0	4.0		
6	BMVWK1+p	MT20	8.0	12.0	Edge	

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
6	6607	0	6607	0	0	2-4	2-4
9	6596	0	6596	0	0	5-8	5-8

UNFACTORED REACTIONS

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

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.55 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 5-6. DBS = 20-0-0 . CBF = 19 LBS.
1 - 2x4 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 4-6. DBS = 4-0-0 . CBF = 142 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) TO EACH PLY USING (0.122"X3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

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

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF) FROM	TO	MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	FORCE (LBS)	MAX. FACTORED MAX CSI (LC)
1- 2	-6414 / 0	-77.3	-77.3	0.17 (1)	4.55	8- 2	0 / 3256	0.24 (1)
2- 3	-3668 / 0	-77.3	-77.3	0.11 (1)	5.69	2- 7	-3097 / 0	0.68 (1)
3- 4	-3668 / 0	-77.3	-77.3	0.11 (1)	5.69	7- 4	0 / 6406	0.48 (1)
4- 5	-18 / 0	-77.3	-77.3	0.08 (1)	6.25	4- 6	-5679 / 0	0.93 (1)
6- 5	-148 / 0	0.0	0.0	0.03 (1)	6.25	1- 8	0 / 5461	0.41 (1)
9- 1	-4848 / 0	0.0	0.0	0.16 (1)	6.51			
9- 8	0 / 0	-869.2	-869.2	0.21 (1)	10.00			
8- 7	0 / 5345	-869.2	-869.2	0.27 (1)	10.00			
7- 6	0 / 3061	-869.2	-869.2	0.24 (1)	10.00			

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

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 38-4-8
END DISTANCE = 14-2-10
END SPAN CARRIED = 38-4-8
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDT'L LOADS BASED ON 55 % OF GSL.

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.46")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.46")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.09")

CSI: TC=0.17 (1-2:1) , BC=0.27 (7-8:1) , WB=0.93 (4-6:1) , SSI=0.48 (8-9:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (8) (INPUT = 0.90)
JSI METAL= 0.54 (1) (INPUT = 1.00)

KOTT

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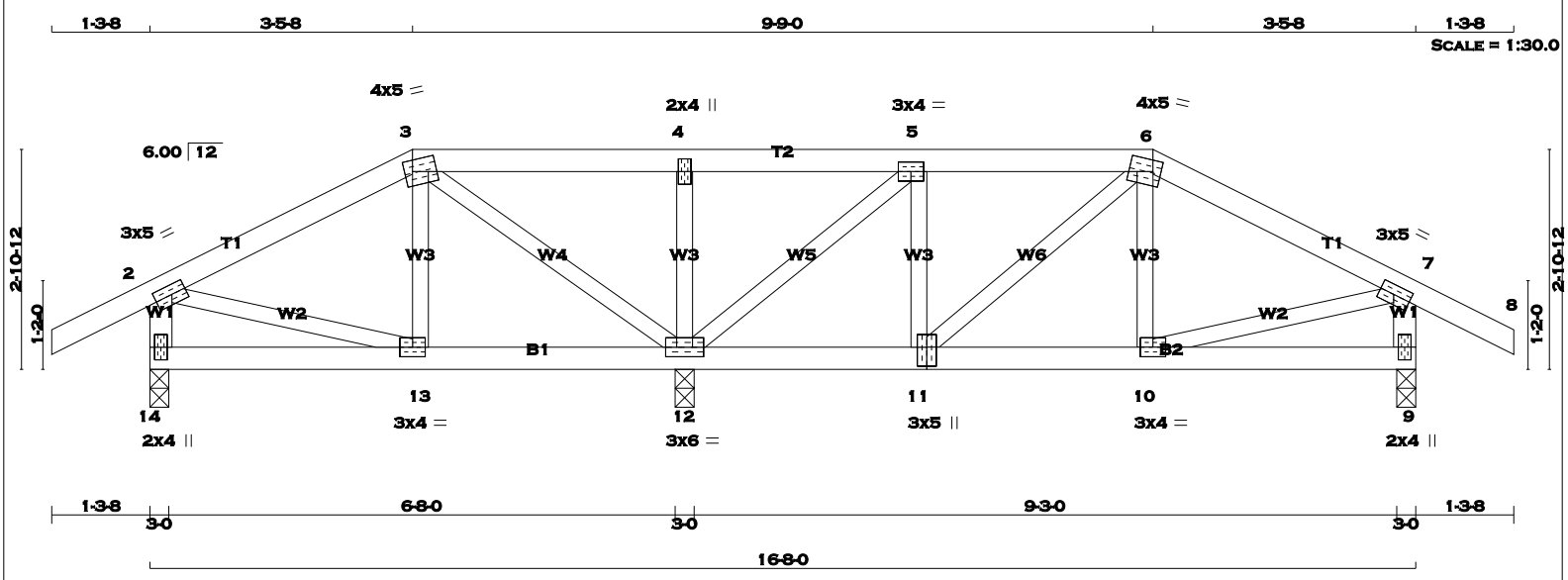


TOTAL WEIGHT = 66 lb [M]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 6	2x4	DRY	No.2	SPF
6 - 8	2x4	DRY	No.2	SPF
14 - 2	2x4	DRY	No.2	SPF
9 - 7	2x4	DRY	No.2	SPF
14 - 11	2x4	DRY	No.2	SPF
11 - 9	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	5.0	1.50	2.25
3	TTWW-m	MT20	4.0	5.0	1.75	1.25
4	TMW+w	MT20	2.0	4.0		
5	TMWW-t	MT20	3.0	4.0		
6	TTWW-m	MT20	4.0	5.0	1.75	1.25
7	TMVW-t	MT20	3.0	5.0	1.50	2.25
9	BMV1+p	MT20	2.0	4.0		
10	BMWW-t	MT20	3.0	4.0		
11	BSWW+l	MT20	3.0	5.0	3.00	1.50
12	BMWWW1-t	MT20	3.0	6.0		
13	BMWW-t	MT20	3.0	4.0		
14	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
14	355	0	355	0	0	3-0	3-0
12	1074	0	1074	0	0	3-0	3-0
9	638	0	638	0	0	3-0	3-0

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	SNOW	MAX./MIN. COMPONENT REACTIONS LIVE	PERM.LIVE	WIND	DEAD	SOIL
14	247	184 / 0	0 / 0	0 / 0	0 / 0	63 / 0	0 / 0
12	753	530 / 0	0 / 0	0 / 0	0 / 0	223 / 0	0 / 0
9	445	324 / 0	0 / 0	0 / 0	0 / 0	122 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 14, 12, 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 23	-77.3	-77.3	0.11 (1)	10.00	13- 3	0 / 63	0.02 (3)
2- 3	-132 / 0	-77.3	-77.3	0.17 (1)	6.25	3-12	-358 / 0	0.12 (1)
3- 4	0 / 171	-77.3	-77.3	0.19 (1)	10.00	12- 4	-302 / 0	0.06 (1)
4- 5	0 / 171	-77.3	-77.3	0.19 (1)	10.00	12- 5	-687 / 0	0.20 (1)
5- 6	-354 / 0	-77.3	-77.3	0.10 (1)	6.25	11- 5	0 / 201	0.05 (1)
6- 7	-498 / 0	-77.3	-77.3	0.18 (1)	6.25	11- 6	-122 / 0	0.03 (1)
7- 8	0 / 23	-77.3	-77.3	0.11 (1)	10.00	10- 6	0 / 73	0.03 (3)
14- 2	-327 / 0	0.0	0.0	0.04 (1)	7.81	2-13	0 / 122	0.03 (1)
9- 7	-569 / 0	0.0	0.0	0.06 (1)	7.81	10- 7	0 / 457	0.11 (1)
14-13	0 / 0	-17.5	-17.5	0.05 (3)	10.00			
13-12	0 / 119	-17.5	-17.5	0.09 (1)	10.00			
12-11	0 / 354	-46.2	-46.2	0.13 (1)	10.00			
11-10	0 / 447	-46.2	-46.2	0.15 (1)	10.00			
10- 9	0 / 0	-46.2	-46.2	0.08 (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

GIRDER TYPE: CStdGirder
START DISTANCE = 7-2-0
START SPAN CARRIED = 3-5-8
END DISTANCE = 16-8-0
END SPAN CARRIED = 3-5-8
END WALL WIDTH = 3-0
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDT'L LOADS BASED ON 55 % OF GSL.

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.32")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.32")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.02")

CSI: TC=0.19 (3-4:1) , BC=0.15 (10-11:1) , WB=0.20 (5-12:1) , SSI=0.14 (3-4:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

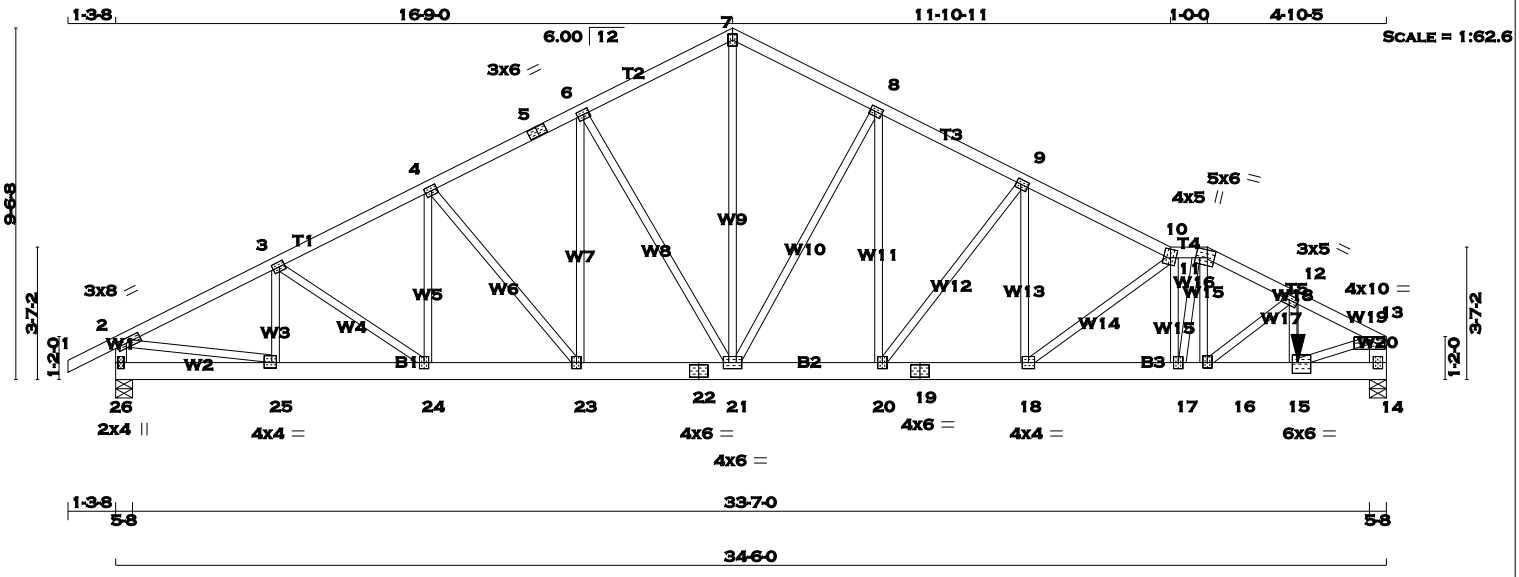
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (5) (INPUT = 0.90)
JSI METAL= 0.20 (5) (INPUT = 1.00)

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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

KOTT



TOTAL WEIGHT = 2 X 184 = 367 lb [M]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 5	2x4	DRY	No.2	SPF
5 - 7	2x4	DRY	No.2	SPF
7 - 10	2x4	DRY	No.2	SPF
10 - 11	2x4	DRY	No.2	SPF
11 - 13	2x4	DRY	No.2	SPF
26 - 2	2x4	DRY	No.2	SPF
14 - 13	2x6	DRY	No.2	SPF
26 - 22	2x6	DRY	No.2	SPF
22 - 19	2x6	DRY	No.2	SPF
19 - 14	2x6	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)		LOAD(PLF)
TOP CHORDS : (0.122"X3") SPIRAL NAILS			
1- 5	1	12	TOP
5- 7	1	12	TOP
7- 10	1	12	TOP
10- 11	1	12	TOP
11- 13	1	12	TOP
26- 2	1	12	TOP
14- 13	2	12	TOP
BOTTOM CHORDS : (0.122"X3") SPIRAL NAILS			
26- 22	2	12	TOP
22- 19	2	12	TOP
19- 14	2	12	SIDE(56.3)
WEBS : (0.122"X3") SPIRAL NAILS			
2x3	1	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
26	1962	0	1962	0	0	5-8	5-8
14	4570	0	4570	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
26	1375	975 / 0	0 / 0	0 / 0	0 / 0	400 / 0	0 / 0
14	3207	2244 / 0	0 / 0	0 / 0	0 / 0	964 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 26, 14

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.95 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	0 / 23	-77.3	-77.3	0.06 (1)	10.00
2- 3	-2726 / 0	-77.3	-77.3	0.13 (1)	5.41
3- 4	-2777 / 0	-77.3	-77.3	0.13 (1)	5.38
4- 5	-2518 / 0	-77.3	-77.3	0.12 (1)	5.59
5- 6	-2518 / 0	-77.3	-77.3	0.12 (1)	5.59
6- 7	-2199 / 0	-77.3	-77.3	0.12 (1)	5.89
7- 8	-2198 / 0	-77.3	-77.3	0.10 (1)	5.91
8- 9	-2839 / 0	-77.3	-77.3	0.12 (1)	5.35
9-10	-3653 / 0	-77.3	-77.3	0.14 (1)	4.82
10-11	-4359 / 0	-77.3	-77.3	0.06 (1)	4.55
11-12	-4640 / 0	-77.3	-77.3	0.13 (1)	4.36
12-13	-5715 / 0	-77.3	-77.3	0.17 (1)	3.95
26- 2	-1906 / 0	0.0	0.0	0.11 (1)	7.81
14-13	-4230 / 0	0.0	0.0	0.15 (1)	6.95
26-25	0 / 0	-17.5	-17.5	0.03 (1)	10.00
25-24	0 / 2449	-17.5	-17.5	0.19 (1)	10.00
24-23	0 / 2480	-17.5	-17.5	0.18 (1)	10.00
23-22	0 / 2256	-17.5	-17.5	0.18 (1)	10.00
22-21	0 / 2256	-17.5	-17.5	0.18 (1)	10.00
21-20	0 / 2539	-17.5	-17.5	0.20 (1)	10.00
20-19	0 / 3281	-17.5	-17.5	0.24 (1)	10.00
19-18	0 / 3281	-17.5	-17.5	0.24 (1)	10.00
18-17	0 / 4436	-17.5	-17.5	0.32 (1)	10.00
17-16	0 / 4191	-17.5	-17.5	0.29 (1)	10.00
16-15	0 / 5104	-17.5	-17.5	0.49 (1)	10.00
15-14	0 / 0	-130.1	-130.1	0.16 (1)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
25- 3	-402 / 0	0.04 (1)
24- 4	0 / 38	0.00 (1)
24- 4	0 / 81	0.02 (3)
4-23	-353 / 0	0.13 (1)
23- 6	0 / 307	0.04 (1)
6-21	-596 / 0	0.42 (1)
21- 7	0 / 1699	0.21 (1)
21- 8	-1206 / 0	0.85 (1)
20- 8	0 / 1014	0.13 (1)
20- 9	-1223 / 0	0.47 (1)
18- 9	0 / 1001	0.12 (1)
18-10	-1485 / 0	0.33 (1)
17-10	-866 / 0	0.09 (1)
17-11	0 / 773	0.10 (1)
16-11	0 / 1188	0.15 (1)
16-12	-1243 / 0	0.13 (1)
15-12	0 / 1113	0.14 (1)
2-25	0 / 2488	0.31 (1)
15-13	0 / 5337	0.66 (1)

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
15	32-1-4	-2870	-2870	---	FRONT	VERT	TOTAL

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

DESIGN CRITERIA

*** 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 ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

GIRDER TYPE: CStdGirder
START DISTANCE = 32-1-4
START SPAN CARRIED = 7-2-8
END DISTANCE = 34-6-0
END SPAN CARRIED = 7-2-8
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDT'L LOADS BASED ON 55 % OF GSL.

*** NON STANDARD GIRDER ***
ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.15")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.09")
ALLOWABLE DEFL.(TL)= L/360 (1.15")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.17")

CSI: TC=0.17 (12-13:1) , BC=0.49 (15-16:1) , WB=0.85 (8-21:1) , SSI=0.11 (14-15:1)

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

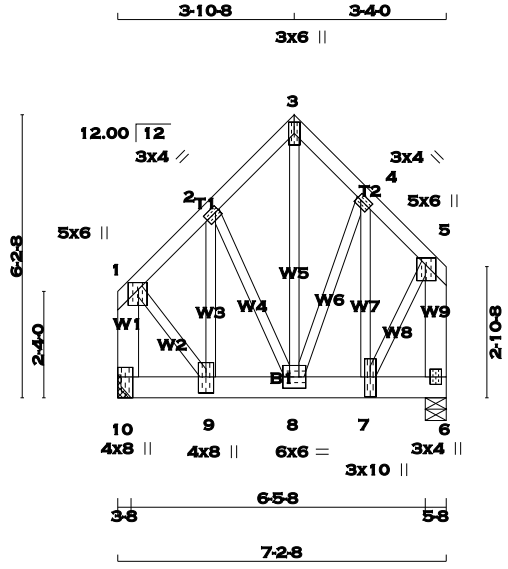
PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (1.0) JSI PU = 90
JSI METAL= 0.64 (1.0) JSI IN = 1

CONTINUED ON PAGE 2



TOTAL WEIGHT = 2 X 54 = 109 lb [M]

LUMBER
N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW+p	MT20	5.0	6.0	1.75	2.75
2	TMWW-t	MT20	3.0	4.0	1.50	1.00
3	TTW+p	MT20	3.0	6.0		
4	TMWW-t	MT20	3.0	4.0	1.50	1.00
5	TMVW+p	MT20	5.0	6.0	1.75	2.75
6	BMV1+p	MT20	3.0	4.0		
7	BMWW+t	MT20	3.0	10.0	5.25	1.50
8	BMWWW-t	MT20	6.0	6.0		
9	BMWW+t	MT20	4.0	8.0	4.25	2.00
10	BMV1+t	MT20	4.0	8.0	5.50	

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

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
10	2870	0	2870	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 3-8	
6	2870	0	2870	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
10	2014	1409 / 0	0 / 0	0 / 0	0 / 0	605 / 0	0 / 0
6	2014	1409 / 0	0 / 0	0 / 0	0 / 0	605 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.17 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	-1553 / 0	-77.3	-77.3	0.10 (1)	5.17	9- 2	0 / 440	0.11 (1)
2- 3	-1285 / 0	-77.3	-77.3	0.08 (1)	5.59	2- 8	-436 / 0	0.14 (1)
3- 4	-1275 / 0	-77.3	-77.3	0.08 (1)	5.60	8- 3	0 / 1666	0.41 (1)
4- 5	-1316 / 0	-77.3	-77.3	0.09 (1)	5.52	8- 4	-31 / 0	0.01 (1)
10- 1	-2197 / 0	0.0	0.0	0.19 (1)	6.85	7- 4	-52 / 8	0.02 (1)
6- 5	-2278 / 0	0.0	0.0	0.24 (1)	6.75	1- 9	0 / 1495	0.37 (1)
						7- 5	0 / 1570	0.39 (1)
10- 9	0 / 0	-719.0	-719.0	0.23 (1)	10.00			
9- 8	0 / 1095	-719.0	-719.0	0.28 (1)	10.00			
8- 7	0 / 922	-719.0	-719.0	0.21 (1)	10.00			
7- 6	0 / 0	-719.0	-719.0	0.18 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 32-0-8
END DISTANCE = 7-2-8
END SPAN CARRIED = 32-0-8
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDT'L LOADS BASED ON 55 % OF GSL.

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

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

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

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

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

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

LICENSED PROFESSIONAL ENGINEER
R.M. TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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

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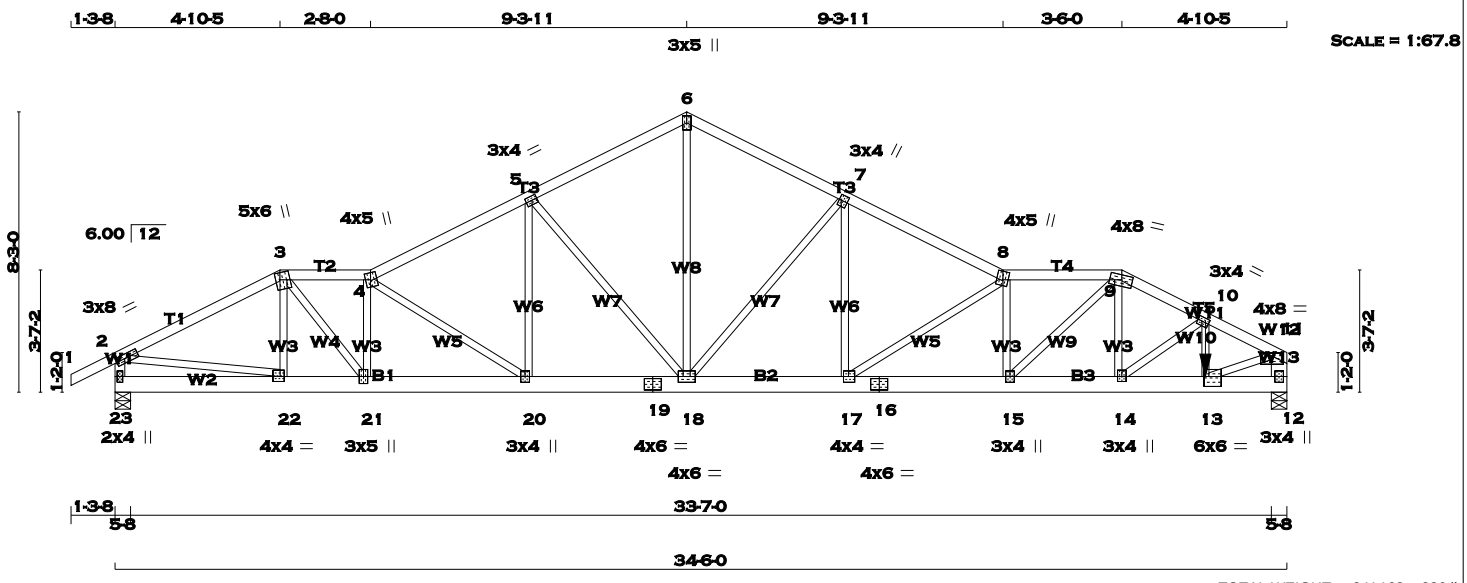


TOTAL WEIGHT = 2 X 168 = 336 lb [M]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 8	2x4	DRY	No.2	SPF
8 - 9	2x4	DRY	No.2	SPF
9 - 11	2x4	DRY	No.2	SPF
23 - 2	2x4	DRY	No.2	SPF
12 - 11	2x6	DRY	No.2	SPF
23 - 19	2x6	DRY	No.2	SPF
19 - 16	2x6	DRY	No.2	SPF
16 - 12	2x6	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

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

CHORDS	#ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"X3") SPIRAL NAILS			
1- 3	1	12	TOP
3- 4	1	12	TOP
4- 6	1	12	TOP
6- 8	1	12	TOP
8- 9	1	12	TOP
9- 11	1	12	TOP
23- 2	1	12	TOP
12- 11	2	12	TOP
BOTTOM CHORDS : (0.122"X3") SPIRAL NAILS			
23- 19	2	12	TOP
19- 16	2	12	TOP
16- 12	2	12	SIDE(56.3)
WEBS : (0.122"X3") SPIRAL NAILS			
2x3	1	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
23	1950	0	1950	0	0	5-8	5-8
12	4567	0	4567	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
23	1366	969 / 0	0 / 0	0 / 0	0 / 0	397 / 0	0 / 0
12	3205	2242 / 0	0 / 0	0 / 0	0 / 0	963 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 23, 12

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.00 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 23	-77.3	-77.3	0.06 (1)	10.00	22- 3	-289 / 0	0.03 (1)
2- 3	-2738 / 0	-77.3	-77.3	0.22 (1)	5.30	3-21	0 / 1569	0.19 (1)
3- 4	-3416 / 0	-77.3	-77.3	0.09 (1)	4.99	21- 4	-1211 / 0	0.13 (1)
4- 5	-3134 / 0	-77.3	-77.3	0.20 (1)	5.05	4-20	-770 / 0	0.22 (1)
5- 6	-2534 / 0	-77.3	-77.3	0.18 (1)	5.51	20- 5	0 / 517	0.06 (1)
6- 7	-2534 / 0	-77.3	-77.3	0.18 (1)	5.51	5-18	-887 / 0	0.44 (1)
7- 8	-3600 / 0	-77.3	-77.3	0.21 (1)	4.77	18- 6	0 / 1972	0.24 (1)
8- 9	-4854 / 0	-77.3	-77.3	0.17 (1)	4.24	18- 7	-1535 / 0	0.77 (1)
9-10	-4534 / 0	-77.3	-77.3	0.13 (1)	4.41	17- 7	0 / 1221	0.15 (1)
10-11	-5590 / 0	-77.3	-77.3	0.16 (1)	4.00	17- 8	-1992 / 0	0.56 (1)
23- 2	-1903 / 0	0.0	0.0	0.10 (1)	7.81	15- 8	-757 / 0	0.08 (1)
12-11	-4222 / 0	0.0	0.0	0.15 (1)	6.96	15- 9	0 / 1049	0.13 (1)
						14- 9	0 / 1073	0.13 (1)
23-22	0 / 0	-17.5	-17.5	0.03 (3)	10.00	14-10	-1179 / 0	0.13 (1)
22-21	0 / 2438	-17.5	-17.5	0.19 (1)	10.00	13-10	0 / 1023	0.13 (1)
21-20	0 / 3456	-17.5	-17.5	0.27 (1)	10.00	2-22	0 / 2477	0.31 (1)
20-19	0 / 2821	-17.5	-17.5	0.21 (1)	10.00	13-11	0 / 5246	0.65 (1)
19-18	0 / 2821	-17.5	-17.5	0.21 (1)	10.00			
18-17	0 / 3239	-17.5	-17.5	0.24 (1)	10.00			
17-16	0 / 4878	-17.5	-17.5	0.37 (1)	10.00			
16-15	0 / 4878	-17.5	-17.5	0.37 (1)	10.00			
15-14	0 / 4092	-17.5	-17.5	0.32 (1)	10.00			
14-13	0 / 4992	-17.5	-17.5	0.49 (1)	10.00			
13-12	0 / 0	-130.1	-130.1	0.17 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
13	32-1-4	-2870	-2870	---	FRONT	VERT	TOTAL

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

DESIGN CRITERIA

*** 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 ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

GIRDER TYPE: CStdGirder
START DISTANCE = 32-1-4
START SPAN CARRIED = 7-2-8
END DISTANCE = 34-6-0
END SPAN CARRIED = 7-2-8
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDT'L LOADS BASED ON 55 % OF GSL.

*** NON STANDARD GIRDER ***
ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.15")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.12")
ALLOWABLE DEFL.(TL)= L/360 (1.15")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.21")

CSI: TC=0.22 (2-3:1) , BC=0.49 (13-14:1) , WB=0.77 (7-18:1) , SSI=0.11 (12-13:1)

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

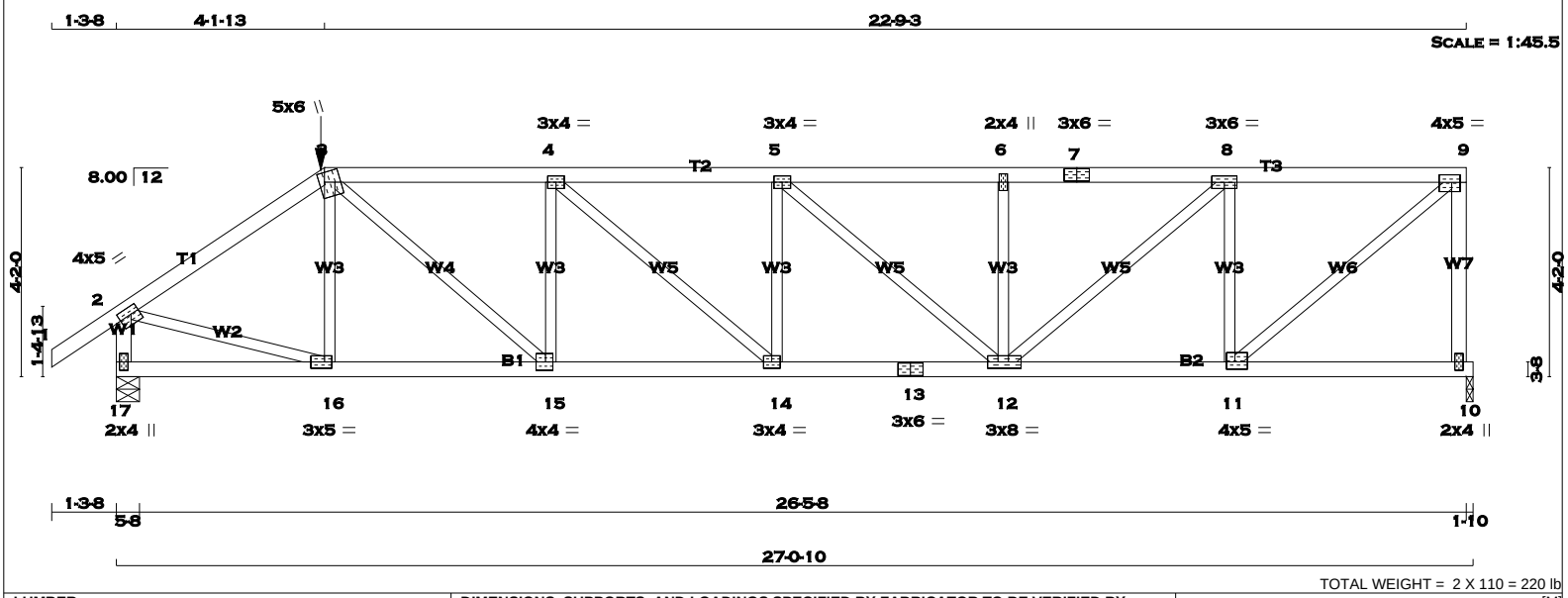
PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (-3) IPU = 796
JSI METAL= 0.62 (IN = 1)

CONTINUED ON PAGE 2



TOTAL WEIGHT = 2 X 110 = 220 lb [M]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 7	2x4	DRY	No.2	SPF
7 - 9	2x4	DRY	No.2	SPF
10 - 9	2x4	DRY	No.2	SPF
17 - 2	2x4	DRY	No.2	SPF
17 - 13	2x4	DRY	No.2	SPF
13 - 10	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

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

CHORDS	#ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"X3") SPIRAL NAILS			
1- 3	1	12	SIDE(0.0)
3- 7	1	12	SIDE(34.2)
7- 9	1	12	SIDE(34.2)
9- 10	1	12	TOP
17- 2	1	12	TOP
BOTTOM CHORDS : (0.122"X3") SPIRAL NAILS			
17- 13	1	12	SIDE(8.7)
13- 10	1	12	SIDE(8.7)
WEBS : (0.122"X3") SPIRAL NAILS			
2x3	1	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

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	6.0	2.25	1.25
4	TMWW-t	MT20	3.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
10	2422	0	2422	0	0	1-10	1-10
17	2454	0	2454	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
10	1699	1191 / 0	0 / 0	0 / 0	0 / 0	509 / 0	0 / 0
17	1721	1210 / 0	0 / 0	0 / 0	0 / 0	511 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.32 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.

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 29	-77.3	-77.3	0.06 (1)	10.00	16- 3	-423 / 9	0.06 (1)
2- 3	-2776 / 0	-77.3	-77.3	0.16 (1)	5.33	3-15	0 / 1983	0.25 (1)
3- 4	-3801 / 0	-145.8	-145.8	0.29 (1)	4.56	15- 4	-1149 / 0	0.16 (1)
4- 5	-4297 / 0	-145.8	-145.8	0.31 (1)	4.32	4-14	0 / 653	0.08 (1)
5- 6	-3863 / 0	-145.8	-145.8	0.24 (1)	4.60	14- 5	-273 / 37	0.04 (1)
6- 7	-3863 / 0	-145.8	-145.8	0.32 (1)	4.50	5-12	-572 / 0	0.18 (1)
7- 8	-3863 / 0	-145.8	-145.8	0.32 (1)	4.50	12- 6	-632 / 0	0.09 (1)
8- 9	-2532 / 0	-145.8	-145.8	0.27 (1)	5.37	12- 8	0 / 1755	0.22 (1)
10- 9	-2357 / 0	0.0	0.0	0.33 (1)	7.32	11- 8	-1906 / 0	0.26 (1)
17- 2	-2398 / 0	0.0	0.0	0.14 (1)	7.27	11- 9	0 / 3275	0.41 (1)
						2-16	0 / 2379	0.29 (1)
17-16	0 / 0	-33.0	-33.0	0.08 (3)	10.00			
16-15	0 / 2295	-33.0	-33.0	0.25 (1)	10.00			
15-14	0 / 3801	-33.0	-33.0	0.37 (1)	10.00			
14-13	0 / 4297	-33.0	-33.0	0.42 (1)	10.00			
13-12	0 / 4297	-33.0	-33.0	0.42 (1)	10.00			
12-11	0 / 2532	-33.0	-33.0	0.27 (1)	10.00			
11-10	0 / 0	-33.0	-33.0	0.09 (3)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

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

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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.

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 = 0-0
END SETBACK = 6-0-0
END WALL WIDTH = 5-8
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDT'L LOADS BASED ON 55 % OF GSL.

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.90")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.10")
ALLOWABLE DEFL.(TL)= L/360 (0.90")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.18")

CSI: TC=0.33 (9-10:1) , BC=0.42 (12-14:1) , WB=0.41 (9-11:1) , SSI=0.18 (8-9:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

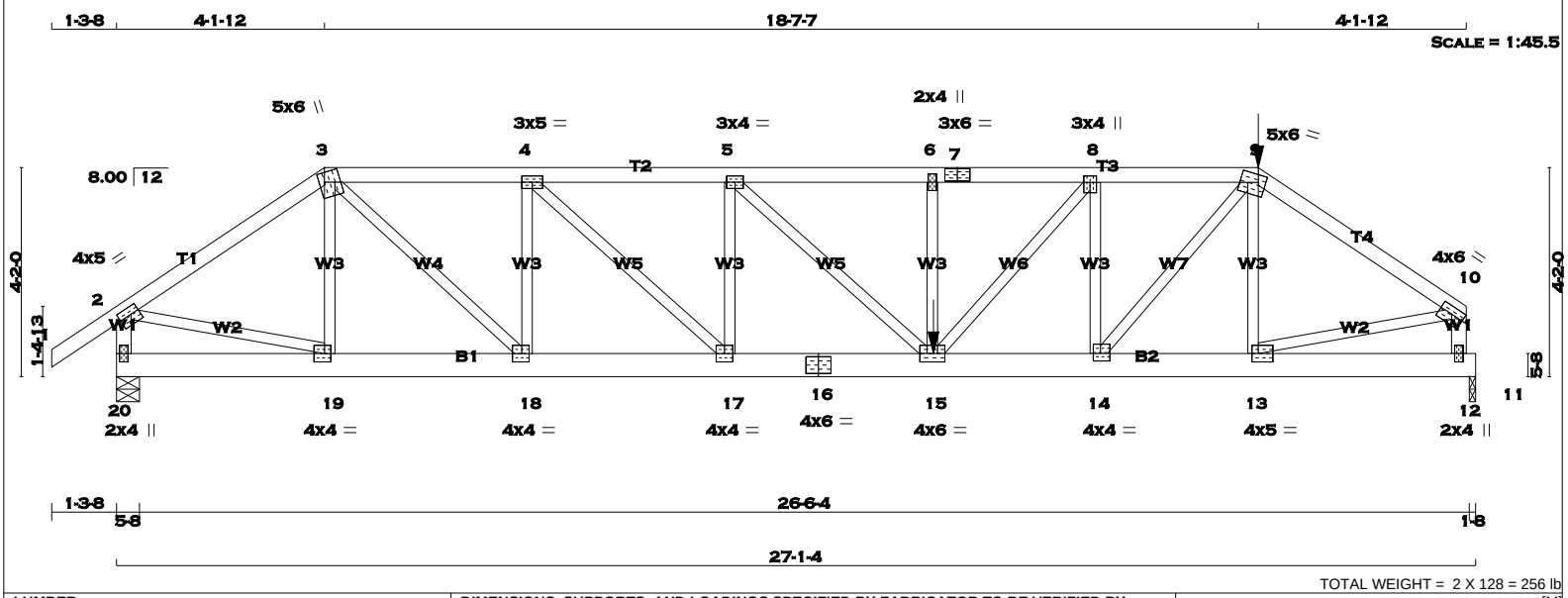
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (3) (INPUT = 0.90)
JSI METAL= 0.59 (13) (INPUT = 1.00)

KOTT

CONTINUED ON PAGE 2



TOTAL WEIGHT = 2 X 128 = 256 lb [M]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 7	2x4	DRY	No.2	SPF
7 - 9	2x4	DRY	No.2	SPF
9 - 10	2x4	DRY	No.2	SPF
20 - 2	2x4	DRY	No.2	SPF
12 - 10	2x4	DRY	No.2	SPF
20 - 16	2x6	DRY	No.2	SPF
16 - 11	2x6	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)		LOAD(PLF)
TOP CHORDS : (0.122"X3") SPIRAL NAILS			
1- 3	1	12	TOP
3- 7	1	12	SIDE(34.2)
7- 9	1	12	SIDE(34.2)
9- 10	1	12	SIDE(0.0)
20- 2	1	12	TOP
12- 10	1	12	TOP
BOTTOM CHORDS : (0.122"X3") SPIRAL NAILS			
20- 16	2	12	TOP
16- 11	2	12	SIDE(8.7)
WEBS : (0.122"X3") SPIRAL NAILS			
2x3	1	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	5.0	1.75	2.00

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
20	2094	0	2094	0	0	5-8	5-8
11	2692	0	2692	0	0	1-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
20	1467	1042 / 0	0 / 0	0 / 0	0 / 0	425 / 0	0 / 0
11	1891	1313 / 0	0 / 0	0 / 0	0 / 0	578 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 20, 11

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.09 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC	MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 29	-77.3	-77.3	0.06 (1)		10.00	19- 3	-374 / 0	0.05 (1)
2- 3	-2390 / 0	-77.3	-77.3	0.16 (1)		5.66	3-18	0 / 2055	0.25 (1)
3- 4	-3476 / 0	-77.3	-77.3	0.14 (1)		4.91	18- 4	-1352 / 0	0.18 (1)
4- 5	-4559 / 0	-77.3	-77.3	0.17 (1)		4.37	4-17	0 / 1485	0.18 (1)
5- 6	-5190 / 0	-77.3	-77.3	0.17 (1)		4.14	17- 5	-902 / 0	0.12 (1)
6- 7	-5190 / 0	-145.8	-145.8	0.21 (1)		4.09	5-15	0 / 866	0.11 (1)
7- 8	-5190 / 0	-145.8	-145.8	0.21 (1)		4.09	15- 6	-366 / 0	0.05 (1)
8- 9	-4297 / 0	-145.8	-145.8	0.18 (1)		4.46	15- 8	0 / 1373	0.17 (1)
9-10	-3473 / 0	-77.3	-77.3	0.18 (1)		4.86	14- 8	-1562 / 0	0.20 (1)
20- 2	-2062 / 0	0.0	0.0	0.12 (1)		7.70	14- 9	0 / 2179	0.27 (1)
12-10	-2771 / 0	0.0	0.0	0.15 (1)		6.87	13- 9	-340 / 20	0.04 (1)
							2-19	0 / 2039	0.25 (1)
20-19	0 / 0	-17.5	-17.5	0.02 (3)		10.00	13-10	0 / 2963	0.37 (1)
19-18	0 / 1975	-17.5	-17.5	0.14 (1)		10.00			
18-17	0 / 3476	-17.5	-17.5	0.25 (1)		10.00			
17-16	0 / 4559	-17.5	-17.5	0.36 (1)		10.00			
16-15	0 / 4559	-17.5	-17.5	0.36 (1)		10.00			
15-14	0 / 4297	-33.0	-33.0	0.34 (1)		10.00			
14-13	0 / 2876	-33.0	-33.0	0.24 (1)		10.00			
13-12	0 / 0	-33.0	-33.0	0.19 (1)		10.00			
12-11	0 / 0	-33.0	-33.0	0.19 (1)		10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
9	22-9-4	-248	-248	---	FRONT	VERT	TOTAL
15	16-3-8	-1262	-1262	---	FRONT	VERT	TOTAL

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

DESIGN CRITERIA

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

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

GIRDER TYPE: CPrimeHip
LEFT SETBACK = 4-1-12
RIGHT SETBACK = 4-3-6
END SETBACK = 6-0-0
END WALL WIDTH = 5-8
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDT'L LOADS BASED ON 55 % OF GSL.
LOADS APPLIED TO FIRST 10-9-6 OF SPAN MEASURED FROM THE RIGHT.

*** NON STANDARD GIRDER ***
ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.90")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.10")
ALLOWABLE DEFL.(TL)= L/360 (0.90")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.18")

CSI: TC=0.21 (6-8:1) , BC=0.36 (15-17:1) , WB=0.37 (10-13:1) , SSI=0.89 (11-12:1)

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

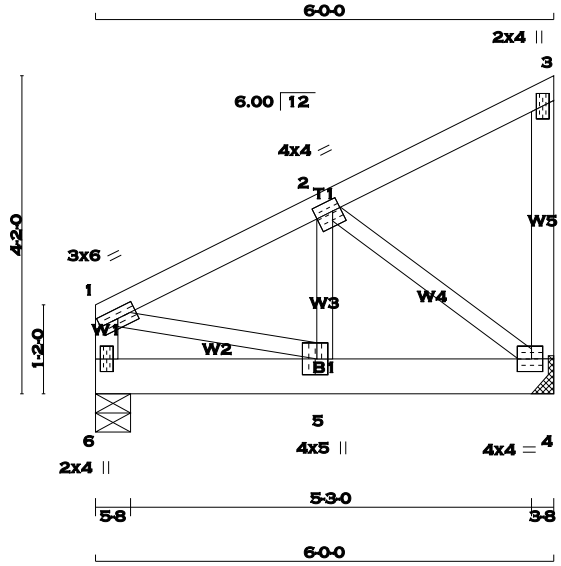
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches
PLATE ROTATION TOL. = De

CONTINUED ON PAGE 2



SCALE = 1:30.2

TOTAL WEIGHT = 29 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 EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	3.0	6.0		
2	TMWW-t	MT20	4.0	4.0	1.75	1.25
3	TMV+p	MT20	2.0	4.0		
4	BMVW1-t	MT20	4.0	4.0	2.00	1.75
5	BMWW+t	MT20	4.0	5.0	2.50	1.75
6	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG
4	1263	0	1263	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 3-8	
6	1263	0	1263	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
4	886	620 / 0	0 / 0	0 / 0	0 / 0	266 / 0	0 / 0
6	886	620 / 0	0 / 0	0 / 0	0 / 0	266 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.93 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF) FROM	TO	MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	-1076 / 0	-77.3	-77.3	0.11 (1)	5.93	5- 2	0 / 946	0.23 (1)
2- 3	-10 / 0	-77.3	-77.3	0.10 (1)	10.00	2- 4	-1218 / 0	0.30 (1)
4- 3	-95 / 0	0.0	0.0	0.02 (1)	7.81	1- 5	0 / 1002	0.25 (1)
6- 1	-830 / 0	0.0	0.0	0.09 (1)	7.81			
6- 5	0 / 0	-343.5	-343.5	0.20 (1)	10.00			
5- 4	0 / 971	-343.5	-343.5	0.33 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 16-2-8
END DISTANCE = 6-0-0
END SPAN CARRIED = 16-2-8
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDT'L LOADS BASED ON 55 % OF GSL.

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

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

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

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

CSI: TC=0.11 (1-2:1) , BC=0.33 (4-5:1) , WB=0.30 (2-4:1) , SSI=0.40 (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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

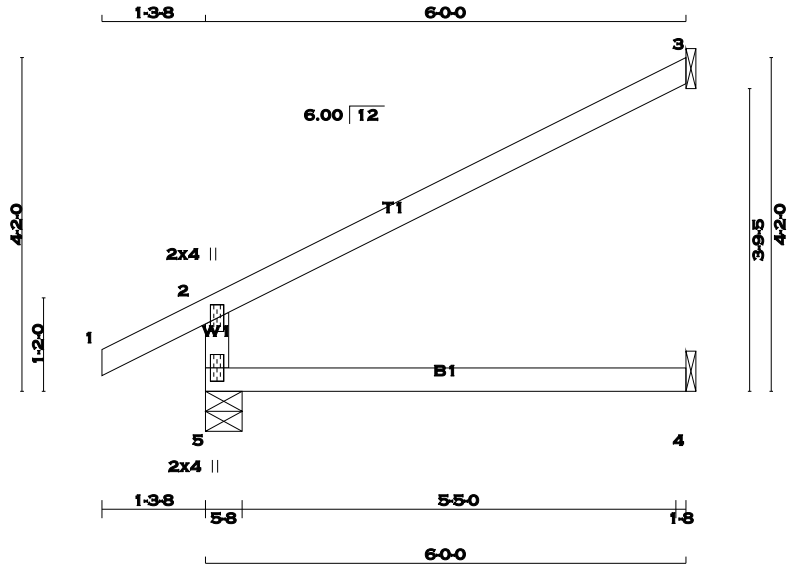
JSI GRIP= 0.90 (4) (INPUT = 0.90)
JSI METAL= 0.36 (4) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
R.M. TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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

KOTT



SCALE = 1:28.8

TOTAL WEIGHT = 22 X 17 = 376 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 VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG 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 COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	318	238 / 0	0 / 0	0 / 0	0 / 0	80 / 0	0 / 0
3	118	105 / 0	0 / 0	0 / 0	0 / 0	14 / 0	0 / 0
4	35	0 / 0	0 / 0	0 / 0	0 / 0	35 / 0	0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	WEBS MAX. UNBRAC LENGTH	MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
5- 2	-395 / 0	0.0	0.0	0.13 (3)	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 (3)	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 (4-5:3) , 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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) 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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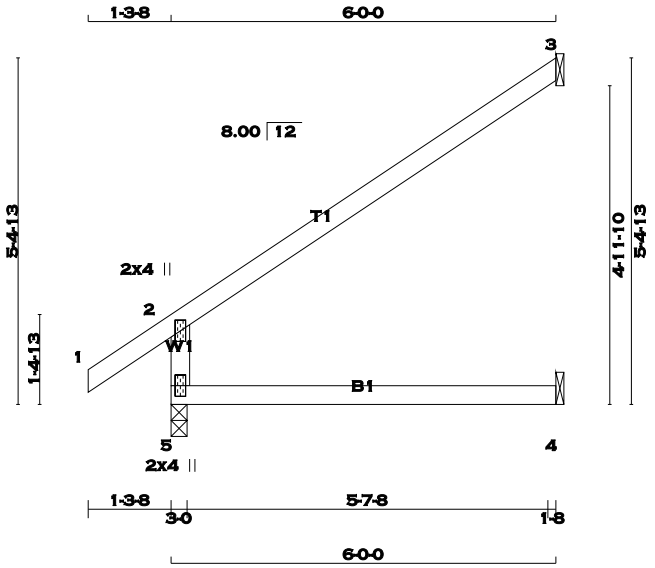
KOTT



SCALE = 1:35.9

TOTAL WEIGHT = 5 X 18 = 91 lb [M][F]

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 VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
5	457	0	457	0	0	3-0	3-0
3	174	0	174	0	0	1-8	1-8
4	44	0	49	0	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	318	239 / 0	0 / 0	0 / 0	0 / 0	80 / 0	0 / 0
3	118	105 / 0	0 / 0	0 / 0	0 / 0	14 / 0	0 / 0
4	35	0 / 0	0 / 0	0 / 0	0 / 0	35 / 0	0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
5- 2	-396 / 0	0.0	0.0	0.10 (3)	7.81			
1- 2	0 / 29	-77.3	-77.3	0.10 (1)	10.00			
2- 3	-32 / 0	-77.3	-77.3	0.36 (1)	6.25			
5- 4	0 / 0	-17.5	-17.5	0.13 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

CSI: TC=0.36 (2-3:1) , BC=0.13 (4-5:3) , WB=0.00 (n/a:0) , SSI=0.19 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.25 (2) (INPUT = 0.90)
JSI METAL= 0.10 (2) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
RAM TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

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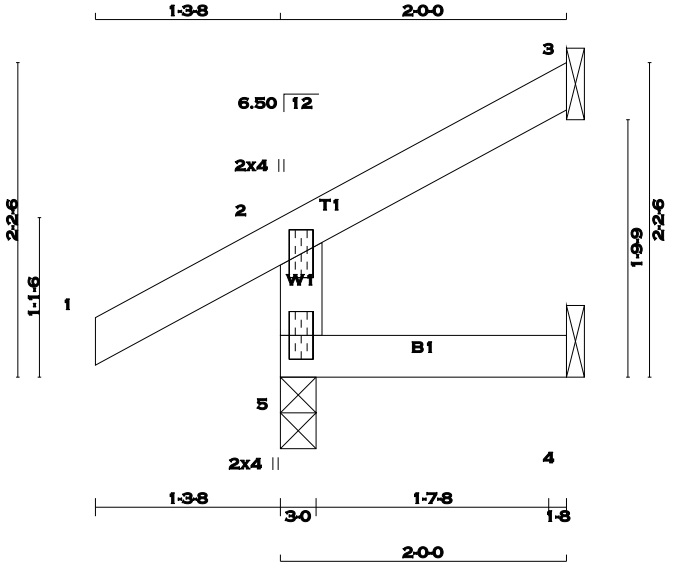
KOTT



TOTAL WEIGHT = 7 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 VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
5	221	0	221	0	0	3-0	3-0
3	58	0	58	0	0	1-8	1-8
4	16	0	17	0	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	153	121 / 0	0 / 0	0 / 0	0 / 0	31 / 0	0 / 0
3	40	35 / 0	0 / 0	0 / 0	0 / 0	5 / 0	0 / 0
4	12	0 / 0	0 / 0	0 / 0	0 / 0	12 / 0	0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	WEBS MAX. UNBRAC LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
5- 2	-202 / 0	0.0	0.0	0.01 (3)	7.81			
1- 2	0 / 25	-77.3	-77.3	0.10 (1)	10.00			
2- 3	-9 / 0	-77.3	-77.3	0.05 (1)	10.00			
5- 4	0 / 0	-17.5	-17.5	0.02 (3)	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 (4-5:3) , 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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

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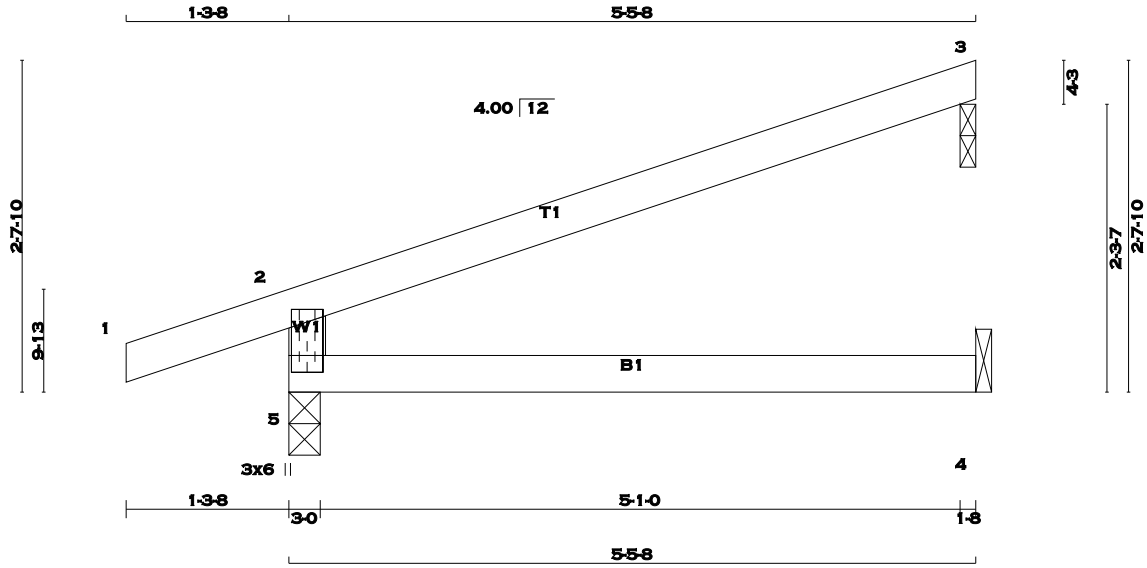
KOTT



TOTAL WEIGHT = 13 X 15 = 193 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						
5						
5	TMBMV1+p	MT20	3.0	6.0	3.50	1.50

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
5	424	0	424	0	0	3-0	3-0
3	158	0	158	0	0	1-8	1-8
4	38	0	43	0	0	1-8	1-8

BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): 3

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	295	221 / 0	0 / 0	0 / 0	0 / 0	74 / 0	0 / 0
3	108	95 / 0	0 / 0	0 / 0	0 / 0	12 / 0	0 / 0
4	31	0 / 0	0 / 0	0 / 0	0 / 0	31 / 0	0 / 0

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

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	WEBS MAX. UNBRAC LENGTH	MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
5- 2	-367 / 0	0.0	0.0	0.12 (3)	7.81			
1- 2	0 / 16	-77.3	-77.3	0.10 (1)	10.00			
2- 3	-17 / 0	-77.3	-77.3	0.39 (1)	6.25			
5- 4	0 / 0	-17.5	-17.5	0.12 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.02")

CSI: TC=0.39 (2-3:1) , BC=0.12 (4-5:3) , 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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

LICENSED PROFESSIONAL ENGINEER
RAM TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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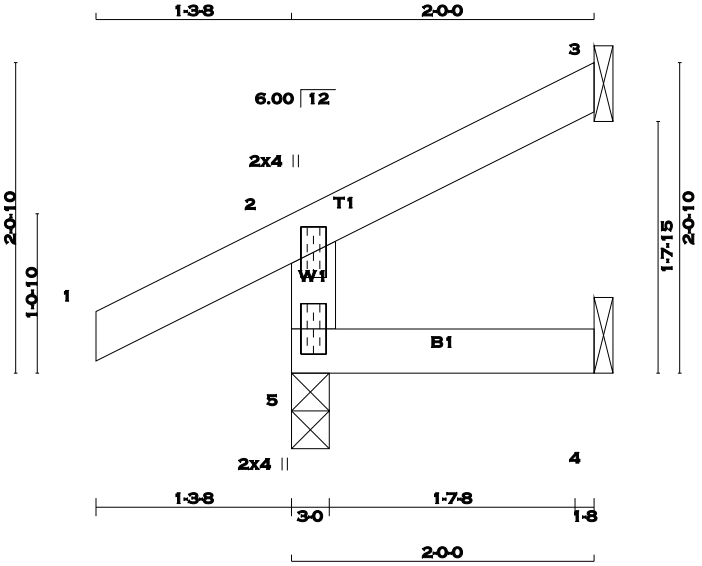
KOTT



SCALE = 1:15.2

TOTAL WEIGHT = 7 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 VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
5	221	0	221	0	0	3-0	3-0
3	58	0	58	0	0	1-8	1-8
4	15	0	17	0	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	152	121 / 0	0 / 0	0 / 0	0 / 0	31 / 0	0 / 0
3	40	35 / 0	0 / 0	0 / 0	0 / 0	5 / 0	0 / 0
4	12	0 / 0	0 / 0	0 / 0	0 / 0	12 / 0	0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
5- 2	-201 / 0	0.0	0.0	0.01 (3)	7.81			
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00			
2- 3	-8 / 0	-77.3	-77.3	0.05 (1)	10.00			
5- 4	0 / 0	-17.5	-17.5	0.02 (3)	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 (4-5:3) , 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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.12 (2) (INPUT = 0.90)
JSI METAL= 0.04 (2) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
R.M. TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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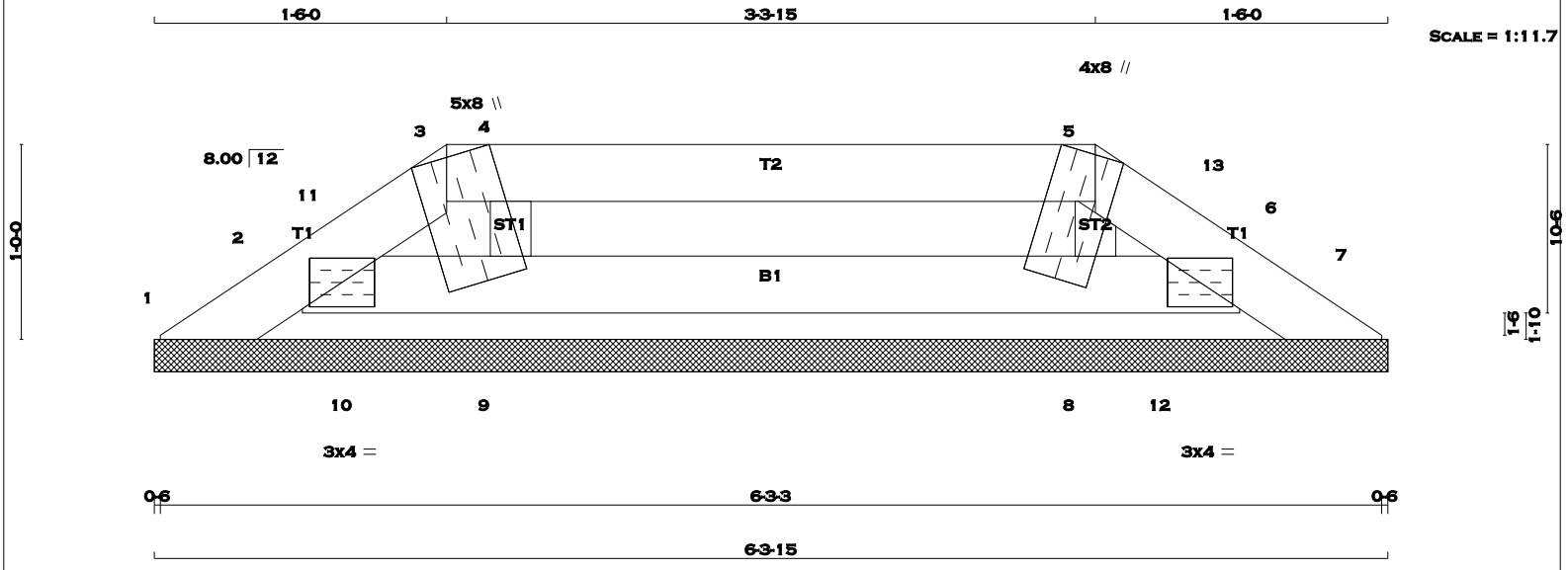
KOTT



TOTAL WEIGHT = 14 lb [M]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
5 - 7	2x4	DRY	No.2	SPF
2 - 6	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
ALL GABLE WEBS	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 3-0-0 OC.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMB1-I	MT20	3.0	4.0		
3, 4, 5, 8, 9						
3	TTBW1*+m	MT20	5.0	8.0	Edge	3.25
5	TTBW1*+m	MT20	4.0	8.0	Edge	3.75
6	TMB1-I	MT20	3.0	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

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

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

PROVIDE ANCHORAGE AT BEARING JOINT 2 FOR 150 LBS FACTORED UPLIFT
PROVIDE ANCHORAGE AT BEARING JOINT 6 FOR 150 LBS FACTORED UPLIFT
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 FROM	TO	MAX CSI (LC)	MAX UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	-6 / 0	-94.8	-94.8	0.01 (1)	10.00	8- 5	-156 / 0	0.02 (1)
2-11	0 / 48	-77.3	-77.3	0.05 (1)	10.00	9- 4	-294 / 0	0.04 (1)
11- 3	0 / 128	-77.3	-77.3	0.06 (1)	10.00	10-11	0 / 104	0.00 (1)
3- 4	0 / 80	-77.3	-77.3	0.08 (1)	10.00	12-13	-49 / 0	0.00 (1)
4- 5	0 / 73	-77.3	-77.3	0.10 (1)	10.00			
5-13	0 / 83	-77.3	-77.3	0.02 (1)	10.00			
13- 6	0 / 95	-77.3	-77.3	0.02 (1)	10.00			
6- 7	0 / 4	-94.8	-94.8	0.01 (1)	10.00			
2-10	-73 / 0	-17.5	-17.5	0.03 (1)	6.25			
10- 9	-73 / 0	-17.5	-17.5	0.03 (1)	6.25			
9- 8	-73 / 0	-17.5	-17.5	0.03 (3)	6.25			
8-12	-73 / 0	-17.5	-17.5	0.03 (3)	6.25			
12- 6	-73 / 0	-17.5	-17.5	0.01 (1)	6.25			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON 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

CSI: TC=0.10 (4-5:1) , BC=0.03 (9-10:1) , WB=0.04 (4-9:1) , SSI=0.12 (3-4:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.12 (3) (INPUT = 0.90)
JSI METAL= 0.06 (3) (INPUT = 1.00)

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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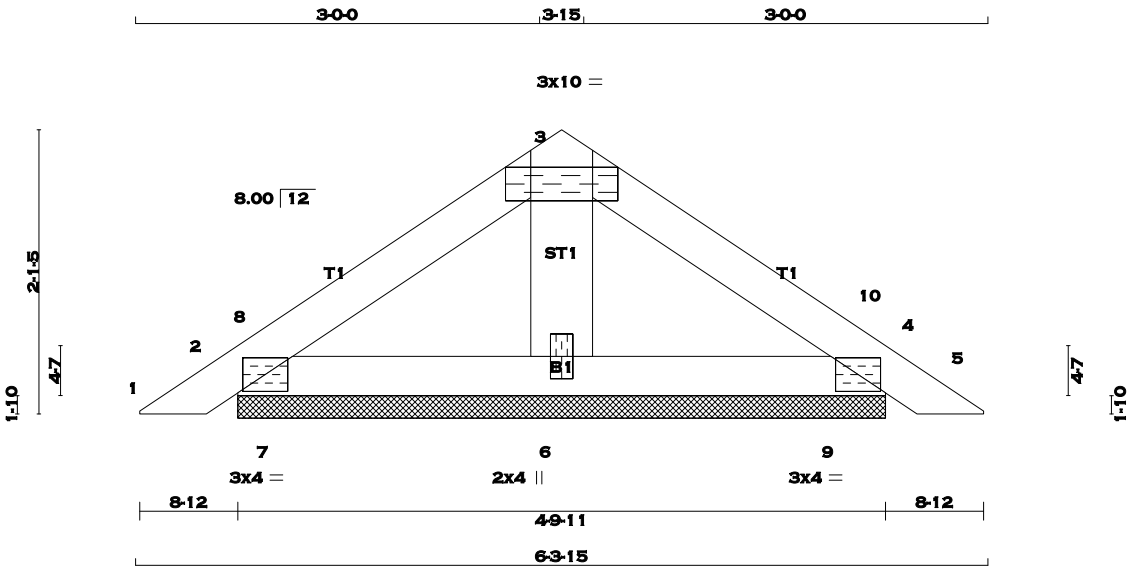
KOTT



TOTAL WEIGHT = 16 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
2 - 4	2x4	DRY	No.2	SPF
ALL WEBS	2x6	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	TTWM-p	MT20	3.0	10.0	Edge	
4	TMB1-I	MT20	3.0	4.0		
6	BMW1+w	MT20	2.0	4.0		

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

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
2	176	0	176	0	0	4-9-11	4-9-11
4	176	0	176	0	0	4-9-11	4-9-11
6	206	0	206	0	0	4-9-11	4-9-11

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
2	122	95 / 0	0 / 0	0 / 0	0 / 0	27 / 0	0 / 0
4	122	95 / 0	0 / 0	0 / 0	0 / 0	27 / 0	0 / 0
6	145	96 / 0	0 / 0	0 / 0	0 / 0	50 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 2, 4, 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 13	-77.3	-77.3	0.02 (1)	10.00	6- 3	-104 / 0	0.01 (1)
2- 8	-26 / 0	-77.3	-77.3	0.01 (1)	6.25	7- 8	-125 / 0	0.00 (1)
8- 3	-48 / 0	-77.3	-77.3	0.05 (1)	6.25	9-10	-133 / 0	0.00 (1)
3-10	-45 / 0	-77.3	-77.3	0.05 (1)	6.25			
10- 4	-20 / 0	-77.3	-77.3	0.02 (1)	6.25			
4- 5	0 / 13	-77.3	-77.3	0.02 (1)	10.00			
2- 7	0 / 37	-17.5	-17.5	0.05 (1)	10.00			
7- 6	0 / 37	-17.5	-17.5	0.05 (1)	10.00			
6- 9	0 / 35	-17.5	-17.5	0.06 (1)	10.00			
9- 4	0 / 35	-17.5	-17.5	0.06 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

CSI: TC=0.05 (3-10:1) , BC=0.06 (6-9:1) , WB=0.01 (3-6:1) , SSI=0.10 (4-9:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.14 (4) (INPUT = 0.90)
JSI METAL= 0.03 (4) (INPUT = 1.00)

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BUILDING DIVISION

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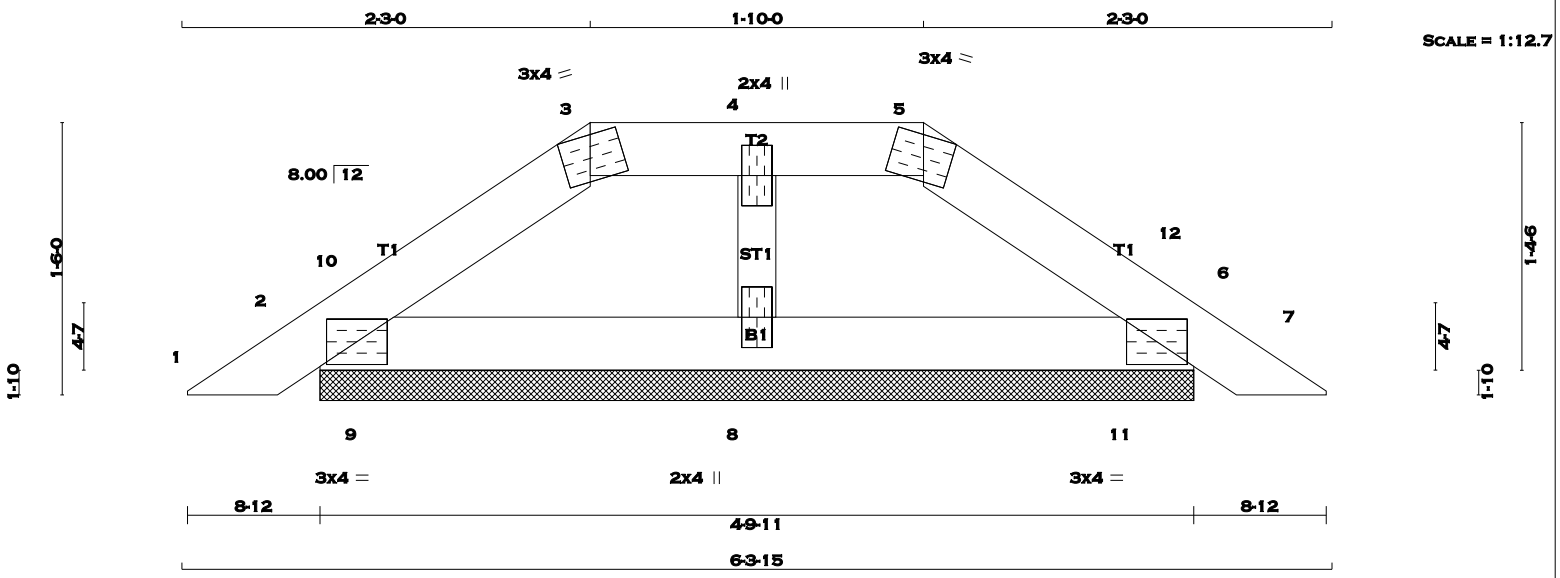
KOTT



TOTAL WEIGHT = 14 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
5 - 7	2x4	DRY	No.2	SPF
2 - 6	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMB1-I	MT20	3.0	4.0		
3	TT-m	MT20	3.0	4.0	Edge	
4	TMW+w	MT20	2.0	4.0		
5	TT-m	MT20	3.0	4.0	Edge	
6	TMB1-I	MT20	3.0	4.0		
8	BMW1+w	MT20	2.0	4.0		

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

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
2	188	0	188	0	0	4-9-11	4-9-11
6	188	0	188	0	0	4-9-11	4-9-11
8	182	0	182	0	0	4-9-11	4-9-11

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
2	130	102 / 0	0 / 0	0 / 0	0 / 0	28 / 0	0 / 0
6	130	102 / 0	0 / 0	0 / 0	0 / 0	28 / 0	0 / 0
8	129	82 / 0	0 / 0	0 / 0	0 / 0	48 / 0	0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 13	-77.3	-77.3	0.02 (1)	10.00	8- 4	-116 / 0	0.02 (1)
2-10	-119 / 0	-77.3	-77.3	0.01 (3)	6.25	9-10	-36 / 15	0.00 (1)
10- 3	-107 / 0	-77.3	-77.3	0.02 (1)	6.25	11-12	-36 / 15	0.00 (1)
3- 4	-88 / 0	-77.3	-77.3	0.03 (1)	6.25			
4- 5	-88 / 0	-77.3	-77.3	0.03 (1)	6.25			
5-12	-107 / 0	-77.3	-77.3	0.02 (1)	6.25			
12- 6	-119 / 0	-77.3	-77.3	0.01 (3)	6.25			
6- 7	0 / 13	-77.3	-77.3	0.02 (1)	10.00			
2- 9	0 / 89	-17.5	-17.5	0.03 (1)	10.00			
9- 8	0 / 89	-17.5	-17.5	0.04 (1)	10.00			
8-11	0 / 89	-17.5	-17.5	0.04 (1)	10.00			
11- 6	0 / 89	-17.5	-17.5	0.03 (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

CSI: TC=0.03 (4-5:1) , BC=0.04 (8-11:1) , WB=0.02 (4-8:1) , SSI=0.05 (3-4:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.14 (2) (INPUT = 0.90)
JSI METAL= 0.04 (2) (INPUT = 1.00)

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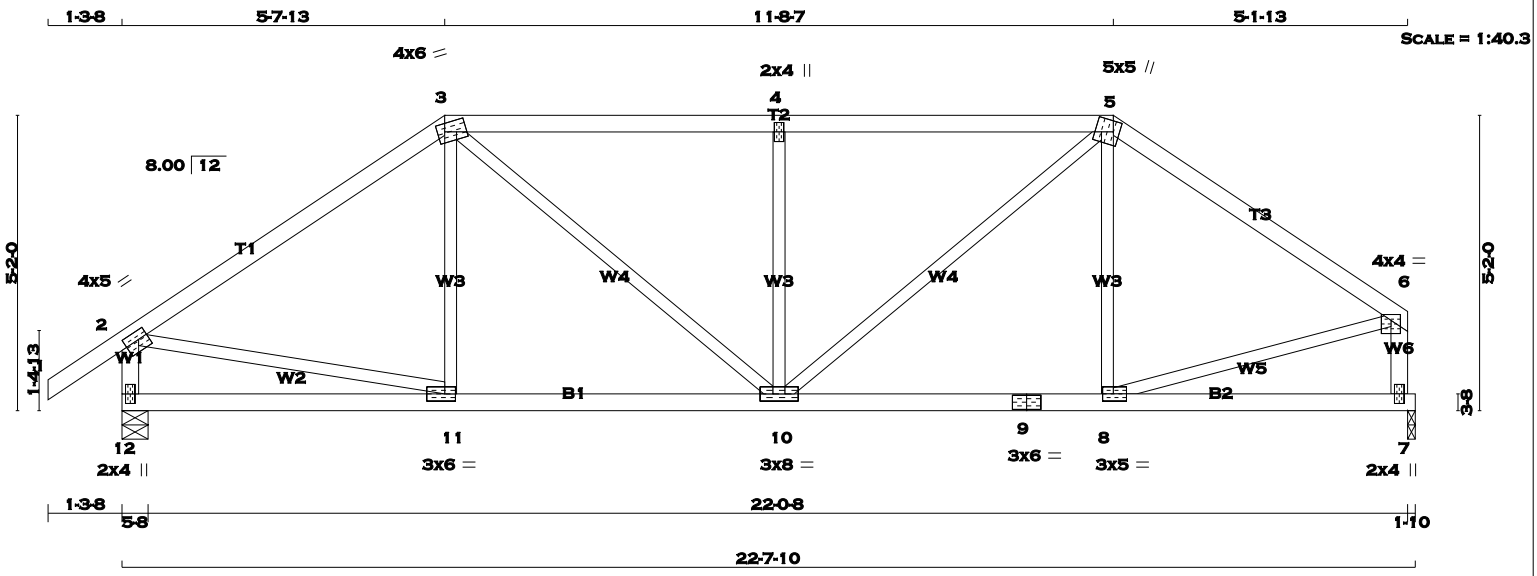
KOTT



TOTAL WEIGHT = 90 lb [M]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
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	4.0	6.0	1.75	1.50
4	TMW+w	MT20	2.0	4.0		
5	TTWW+m	MT20	5.0	5.0	2.25	1.25
6	TMVW-p	MT20	4.0	4.0	1.25	2.00
7	BMV1+p	MT20	2.0	4.0		
8	BMWW-t	MT20	3.0	5.0	1.50	2.25
9	BS-t	MT20	3.0	6.0		
10	BMWWW-t	MT20	3.0	8.0		
11	BMWW-t	MT20	3.0	6.0	1.50	2.25
12	BMV1+p	MT20	2.0	4.0		

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 VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
12	1173	0	1173	0	0	5-8	5-8
7	1067	0	1067	0	0	1-10	1-10

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
12	821	588 / 0	0 / 0	0 / 0	0 / 0	233 / 0	0 / 0
7	749	524 / 0	0 / 0	0 / 0	0 / 0	225 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.99 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	11- 3	-62 / 74	0.03 (3)
2- 3	-1135 / 0	-77.3	-77.3	0.49 (1)	5.30	3-10	0 / 469	0.11 (1)
3- 4	-1302 / 0	-77.3	-77.3	0.50 (1)	4.99	10- 4	-555 / 0	0.22 (1)
4- 5	-1302 / 0	-77.3	-77.3	0.50 (1)	4.99	10- 5	0 / 544	0.12 (1)
5- 6	-1067 / 0	-77.3	-77.3	0.40 (1)	5.57	8- 5	-129 / 49	0.05 (1)
12- 2	-1133 / 0	0.0	0.0	0.12 (1)	7.46	2-11	0 / 960	0.22 (1)
7- 6	-1031 / 0	0.0	0.0	0.11 (1)	7.73	8- 6	0 / 918	0.21 (1)
12-11	0 / 0	-17.5	-17.5	0.14 (3)	10.00			
11-10	0 / 942	-17.5	-17.5	0.23 (1)	10.00			
10- 9	0 / 884	-17.5	-17.5	0.21 (1)	10.00			
9- 8	0 / 884	-17.5	-17.5	0.21 (1)	10.00			
8- 7	0 / 0	-17.5	-17.5	0.13 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.75")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.75")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.08")

CSI: TC=0.50 (4-5:1) , BC=0.23 (10-11:1) , WB=0.22 (4-10:1) , SSI=0.22 (3-4:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

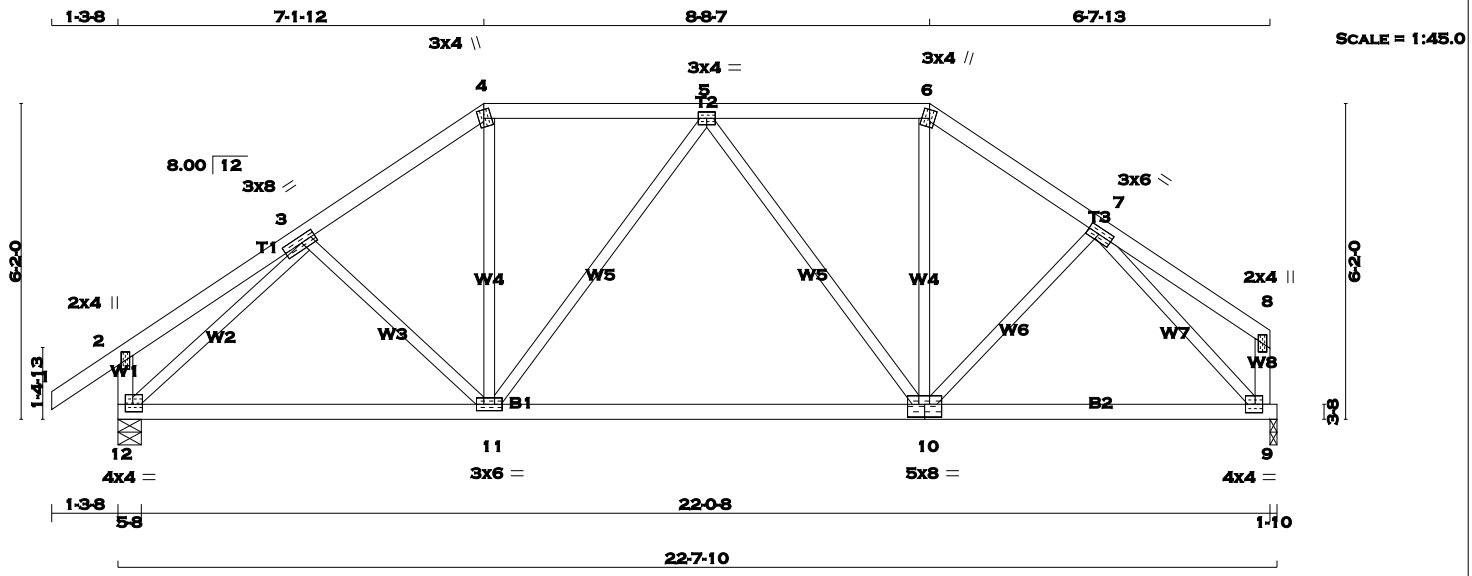
JSI GRIP= 0.89 (6) (INPUT = 0.90)
JSI METAL= 0.39 (2) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
R.M. TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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

KOTT



TOTAL WEIGHT = 95 lb
[M][F]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 8	2x4	DRY	No.2	SPF
12 - 2	2x4	DRY	No.2	SPF
9 - 8	2x4	DRY	No.2	SPF
12 - 10	2x4	DRY	No.2	SPF
10 - 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	3.50
4	TTW+m	MT20	3.0	4.0	2.00	1.25
5	TMWW-t	MT20	3.0	4.0		
6	TTW+m	MT20	3.0	4.0	2.00	1.25
7	TMWW-t	MT20	3.0	6.0	1.50	2.75
8	TMV+p	MT20	2.0	4.0		
9	BMVW1-t	MT20	4.0	4.0	2.00	1.75
10	BSWWW-l	MT20	5.0	8.0	3.00	4.00
11	BMWWW-t	MT20	3.0	6.0		
12	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

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
12	1173	0	1173	0	0	5-8	5-8
9	1067	0	1067	0	0	1-10	1-10

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
12	821	588 / 0	0 / 0	0 / 0	0 / 0	233 / 0	0 / 0
9	749	524 / 0	0 / 0	0 / 0	0 / 0	225 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 12, 9

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.90 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO						FR-TO		
1- 2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	3-11	-47 / 36	0.02 (1)
2- 3	0 / 16	-77.3	-77.3	0.15 (1)	10.00	11- 4	0 / 366	0.08 (1)
3- 4	-1105 / 0	-77.3	-77.3	0.13 (1)	5.90	11- 5	-222 / 0	0.23 (1)
4- 5	-910 / 0	-77.3	-77.3	0.19 (1)	6.24	5-10	-284 / 0	0.29 (1)
5- 6	-874 / 0	-77.3	-77.3	0.19 (1)	6.25	10- 6	0 / 350	0.08 (1)
6- 7	-1061 / 0	-77.3	-77.3	0.11 (1)	6.01	10- 7	0 / 55	0.02 (3)
7- 8	0 / 15	-77.3	-77.3	0.12 (1)	10.00	12- 3	-1307 / 0	0.51 (1)
12- 2	-214 / 0	0.0	0.0	0.02 (1)	7.81	7- 9	-1248 / 0	0.48 (1)
9- 8	-102 / 0	0.0	0.0	0.01 (1)	7.81			
12-11	0 / 938	-17.5	-17.5	0.32 (3)	10.00			
11-10	0 / 1041	-17.5	-17.5	0.33 (3)	10.00			
10- 9	0 / 843	-17.5	-17.5	0.29 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.75")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.75")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11")

CSI: TC=0.19 (4-5:1) , BC=0.33 (10-11:3) , WB=0.51 (3-12:1) , SSI=0.16 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) 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= 0.35 (12) (INPUT = 1.00)

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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KOTT

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Mon Mar 13 10:23:11 2017 Page 1
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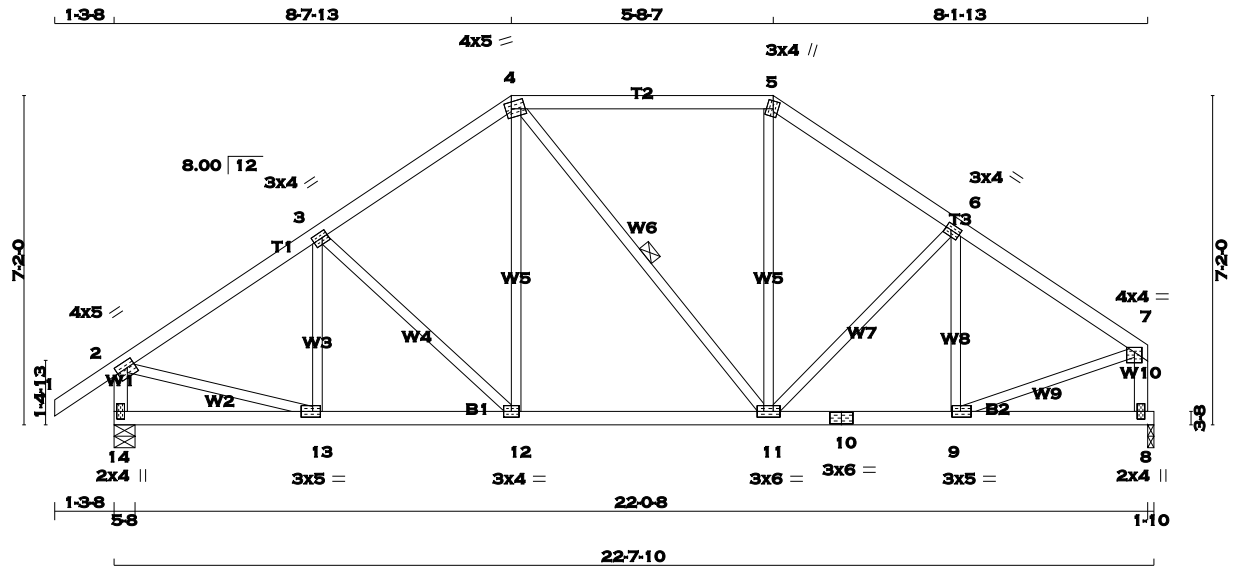

TOTAL WEIGHT = 100 lb

[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	TMWW-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	TMWW-t	MT20	3.0	4.0	1.50	1.50
7	TMVW-p	MT20	4.0	4.0	1.25	2.00
8	BMV1+p	MT20	2.0	4.0		
9	BMWW-t	MT20	3.0	5.0	1.50	2.25
10	BS-t	MT20	3.0	6.0		
11	BMWWW-t	MT20	3.0	6.0		
12	BMWW-t	MT20	3.0	4.0		
13	BMWW-t	MT20	3.0	5.0	1.50	2.00
14	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
14	1173	0	1173	0	0	5-8	5-8
8	1067	0	1067	0	0	1-10	1-10

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
14	821	588 / 0	0 / 0	0 / 0	0 / 0	233 / 0	0 / 0
8	749	524 / 0	0 / 0	0 / 0	0 / 0	225 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.69 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 4-11. DBS = 20-0-0 . CBF = 4 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"X3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

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

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	13- 3	-163 / 21	0.05 (1)
2- 3	-1167 / 0	-77.3	-77.3	0.20 (1)	5.69	3-12	-216 / 0	0.13 (1)
3- 4	-1022 / 0	-77.3	-77.3	0.19 (1)	5.98	12- 4	0 / 236	0.05 (1)
4- 5	-815 / 0	-77.3	-77.3	0.33 (1)	6.25	4-11	-30 / 0	0.02 (1)
5- 6	-998 / 0	-77.3	-77.3	0.17 (1)	6.06	11- 5	0 / 208	0.05 (1)
6- 7	-1067 / 0	-77.3	-77.3	0.17 (1)	5.91	11- 6	-134 / 0	0.08 (1)
14- 2	-1139 / 0	0.0	0.0	0.12 (1)	7.45	9- 6	-234 / 0	0.07 (1)
8- 7	-1035 / 0	0.0	0.0	0.11 (1)	7.72	2-13	0 / 1017	0.23 (1)
						9- 7	0 / 955	0.21 (1)
14-13	0 / 0	-17.5	-17.5	0.07 (3)	10.00			
13-12	0 / 988	-17.5	-17.5	0.21 (1)	10.00			
12-11	0 / 834	-17.5	-17.5	0.18 (1)	10.00			
11-10	0 / 905	-17.5	-17.5	0.20 (1)	10.00			
10- 9	0 / 905	-17.5	-17.5	0.20 (1)	10.00			
9- 8	0 / 0	-17.5	-17.5	0.06 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.75")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.75")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.06")

CSI: TC=0.33 (4-5:1) , BC=0.21 (12-13:1) , WB=0.23 (2-13:1) , SSI=0.17 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (9) (INPUT = 0.90)
JSI METAL= 0.40 (2) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
R.M. TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
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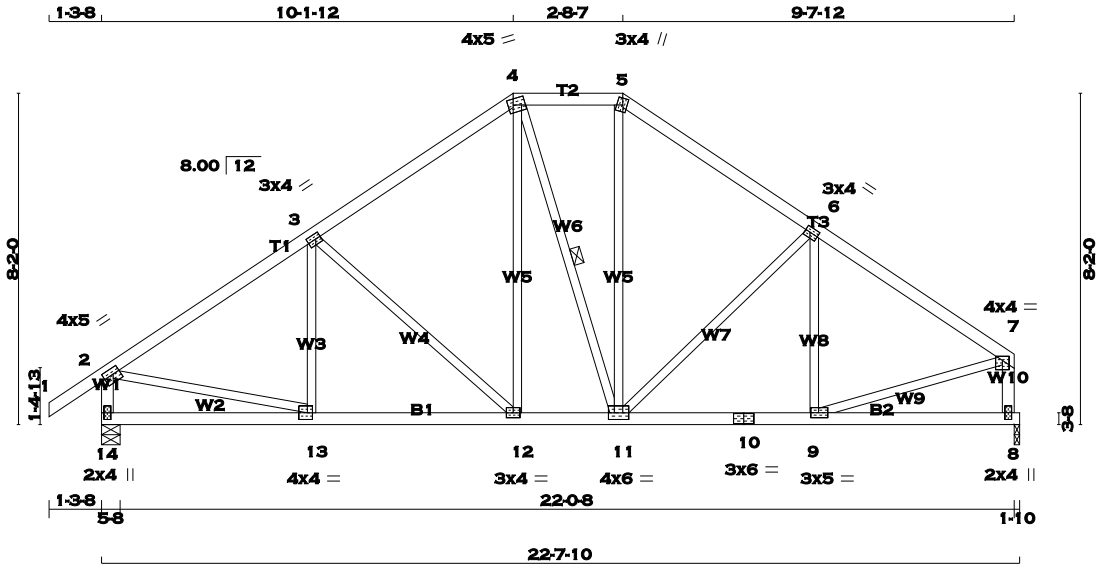
KOTT



TOTAL WEIGHT = 105 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	TMWW-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	TMWW-t	MT20	3.0	4.0	1.50	1.50
7	TMVW-p	MT20	4.0	4.0	1.25	2.00
8	BMV1+p	MT20	2.0	4.0		
9	BMWW-t	MT20	3.0	5.0	1.50	2.25
10	BS-t	MT20	3.0	6.0		
11	BMWWW-t	MT20	4.0	6.0		
12	BMWW-t	MT20	3.0	4.0		
13	BMWW-t	MT20	4.0	4.0	2.00	1.50
14	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
14	1173	0	1173	0	0	5-8	5-8
8	1067	0	1067	0	0	1-10	1-10

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
14	821	588 / 0	0 / 0	0 / 0	0 / 0	233 / 0	0 / 0
8	749	524 / 0	0 / 0	0 / 0	0 / 0	225 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.57 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 4-11. DBS = 20-0-0 . CBF = 3 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"X3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

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

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	0 / 29	-77.3	-77.3	0.10 (1)	10.00
2- 3	-1177 / 0	-77.3	-77.3	0.28 (1)	5.57
3- 4	-936 / 0	-77.3	-77.3	0.26 (1)	6.08
4- 5	-752 / 0	-77.3	-77.3	0.08 (1)	6.25
5- 6	-926 / 0	-77.3	-77.3	0.24 (1)	6.14
6- 7	-1090 / 0	-77.3	-77.3	0.25 (1)	5.77
14- 2	-1136 / 0	0.0	0.0	0.12 (1)	7.45
8- 7	-1031 / 0	0.0	0.0	0.11 (1)	7.73
14-13	0 / 0	-17.5	-17.5	0.12 (3)	10.00
13-12	0 / 1000	-17.5	-17.5	0.22 (1)	10.00
12-11	0 / 759	-17.5	-17.5	0.15 (1)	10.00
11-10	0 / 927	-17.5	-17.5	0.20 (1)	10.00
10- 9	0 / 927	-17.5	-17.5	0.20 (1)	10.00
9- 8	0 / 0	-17.5	-17.5	0.10 (3)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
13- 3	-106 / 56	0.04 (1)
3-12	-329 / 0	0.28 (1)
12- 4	0 / 278	0.06 (1)
4-11	-22 / 0	0.01 (1)
11- 5	0 / 260	0.06 (1)
11- 6	-250 / 0	0.21 (1)
9- 6	-171 / 32	0.06 (1)
2-13	0 / 1022	0.23 (1)
9- 7	0 / 965	0.22 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.75")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.75")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.06")

CSI: TC=0.28 (2-3:1) , BC=0.22 (12-13:1) , WB=0.28 (3-12:1) , SSI=0.16 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

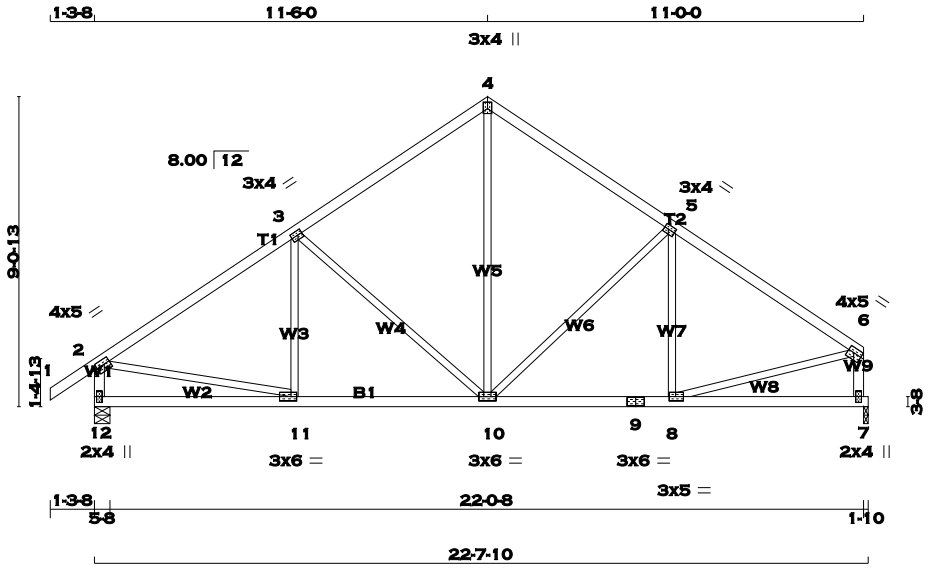
JSI GRIP= 0.90 (7) (INPUT = 0.90)
JSI METAL= 0.40 (2) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
R.M. TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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

KOTT



TOTAL WEIGHT = 97 lb

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
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	TMWW-t	MT20	3.0	4.0	1.50	1.50
4	TTW+p	MT20	3.0	4.0	2.25	1.50
5	TMWW-t	MT20	3.0	4.0	1.50	1.50
6	TMVW-t	MT20	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	2.25
9	BS-t	MT20	3.0	6.0		
10	BMWWW-t	MT20	3.0	6.0		
11	BMWW-t	MT20	3.0	6.0	1.50	2.00
12	BMV1+p	MT20	2.0	4.0		

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

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
12	1173	0	1173	0	0	5-8	5-8
7	1067	0	1067	0	0	1-10	1-10

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
12	821	588 / 0	0 / 0	0 / 0	0 / 0	233 / 0	0 / 0
7	749	524 / 0	0 / 0	0 / 0	0 / 0	225 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.46 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	11- 3	-73 / 74	0.03 (1)
2- 3	-1172 / 0	-77.3	-77.3	0.36 (1)	5.46	3-10	-413 / 0	0.47 (1)
3- 4	-860 / 0	-77.3	-77.3	0.34 (1)	6.15	10- 4	0 / 600	0.14 (1)
4- 5	-859 / 0	-77.3	-77.3	0.31 (1)	6.21	10- 5	-340 / 0	0.37 (1)
5- 6	-1097 / 0	-77.3	-77.3	0.32 (1)	5.65	8- 5	-130 / 53	0.06 (1)
12- 2	-1131 / 0	0.0	0.0	0.12 (1)	7.46	2-11	0 / 1017	0.23 (1)
7- 6	-1026 / 0	0.0	0.0	0.11 (1)	7.74	8- 6	0 / 965	0.22 (1)
12-11	0 / 0	-17.5	-17.5	0.14 (3)	10.00			
11-10	0 / 1000	-17.5	-17.5	0.23 (1)	10.00			
10- 9	0 / 936	-17.5	-17.5	0.21 (1)	10.00			
9- 8	0 / 936	-17.5	-17.5	0.21 (1)	10.00			
8- 7	0 / 0	-17.5	-17.5	0.13 (3)	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 (0.75")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.75")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.07")

CSI: TC=0.36 (2-3:1) , BC=0.23 (10-11:1) , WB=0.47 (3-10:1) , 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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) 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= 0.41 (2) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
RAM TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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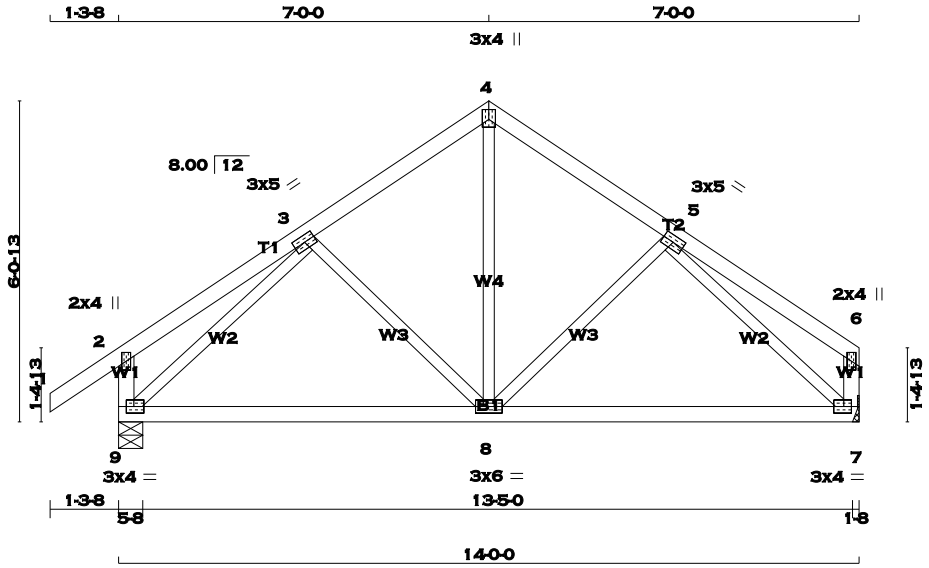
KOTT



TOTAL WEIGHT = 2 X 59 = 117 lb

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
9 - 2	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
9 - 7	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
3	TMWW-t	MT20	3.0	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		
7	BMVW1-t	MT20	3.0	4.0	1.50	1.75
8	BMWWW-t	MT20	3.0	6.0		
9	BMVW1-t	MT20	3.0	4.0	1.50	1.75

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
9	770	0	770	0	0	5-8	5-8
7	664	0	664	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 1-8	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
9	538	390 / 0	0 / 0	0 / 0	0 / 0	148 / 0	0 / 0
7	466	326 / 0	0 / 0	0 / 0	0 / 0	140 / 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	8- 4	0 / 352	0.08 (1)
2- 3	0 / 17	-77.3	-77.3	0.15 (1)	10.00	8- 5	-144 / 6	0.06 (1)
3- 4	-524 / 0	-77.3	-77.3	0.12 (1)	6.25	3- 8	-144 / 6	0.06 (1)
4- 5	-524 / 0	-77.3	-77.3	0.11 (1)	6.25	9- 3	-734 / 0	0.28 (1)
5- 6	0 / 17	-77.3	-77.3	0.15 (1)	10.00	5- 7	-734 / 0	0.28 (1)
9- 2	-211 / 0	0.0	0.0	0.02 (1)	7.81			
7- 6	-104 / 0	0.0	0.0	0.01 (1)	7.81			
9- 8	0 / 525	-17.5	-17.5	0.28 (3)	10.00			
8- 7	0 / 525	-17.5	-17.5	0.28 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

CSI: TC=0.15 (2-3:1) , BC=0.28 (8-9:3) , 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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.81 (3) (INPUT = 0.90)
JSI METAL= 0.21 (5) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
R.M. TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
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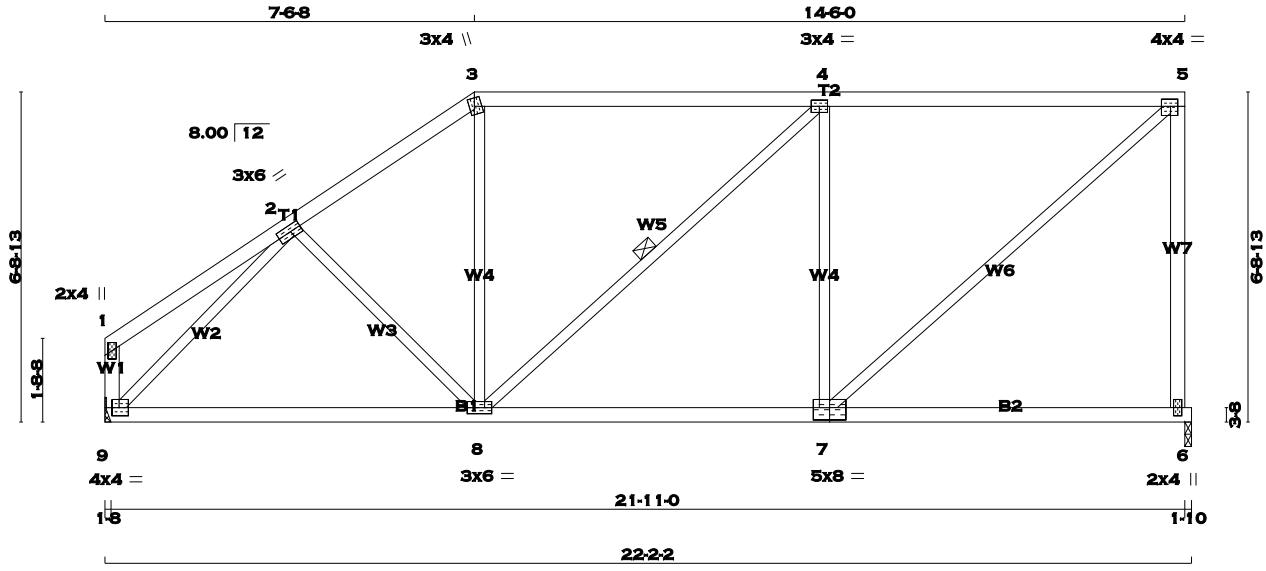
KOTT



TOTAL WEIGHT = 94 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
6 - 5	2x4	DRY	No.2	SPF
9 - 1	2x4	DRY	No.2	SPF
9 - 7	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMV+p	MT20	2.0	4.0		
2	TMWW-t	MT20	3.0	6.0	1.50	2.75
3	TTW+m	MT20	3.0	4.0	2.00	1.25
4	TMWW-t	MT20	3.0	4.0		
5	TMVW-t	MT20	4.0	4.0	1.75	1.75
6	BMV1+p	MT20	2.0	4.0		
7	BSWW-l	MT20	5.0	8.0	3.00	4.00
8	BMWWW-t	MT20	3.0	6.0		
9	BMVW1-t	MT20	4.0	4.0	2.00	1.75

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
6	1045	0	1045	0	0	1-10	1-10
9	1045	0	1045	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 1-8	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
6	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0
9	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.13 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 4-8. DBS = 20-0-0 . CBF = 11 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	0 / 18	-77.3	-77.3	0.17 (1)	10.00
2- 3	-1005 / 0	-77.3	-77.3	0.19 (1)	6.01
3- 4	-823 / 0	-77.3	-77.3	0.75 (1)	5.27
4- 5	-885 / 0	-77.3	-77.3	0.76 (1)	5.13
6- 5	-992 / 0	0.0	0.0	0.95 (1)	7.81
9- 1	-113 / 0	0.0	0.0	0.01 (1)	7.81
9- 8	0 / 848	-17.5	-17.5	0.28 (3)	10.00
8- 7	0 / 885	-17.5	-17.5	0.29 (3)	10.00
7- 6	0 / 0	-17.5	-17.5	0.21 (3)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
2- 8	-41 / 38	0.02 (1)
8- 3	0 / 228	0.05 (1)
8- 4	-85 / 0	0.05 (1)
7- 4	-640 / 0	0.48 (1)
7- 5	0 / 1177	0.26 (1)
9- 2	-1220 / 0	0.58 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.73")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11")

CSI: TC=0.95 (5-6:1) , BC=0.29 (7-8:3) , WB=0.58 (2-9:1) , SSI=0.27 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (5) (INPUT = 0.90)
JSI METAL= 0.33 (5) (INPUT = 1.00)

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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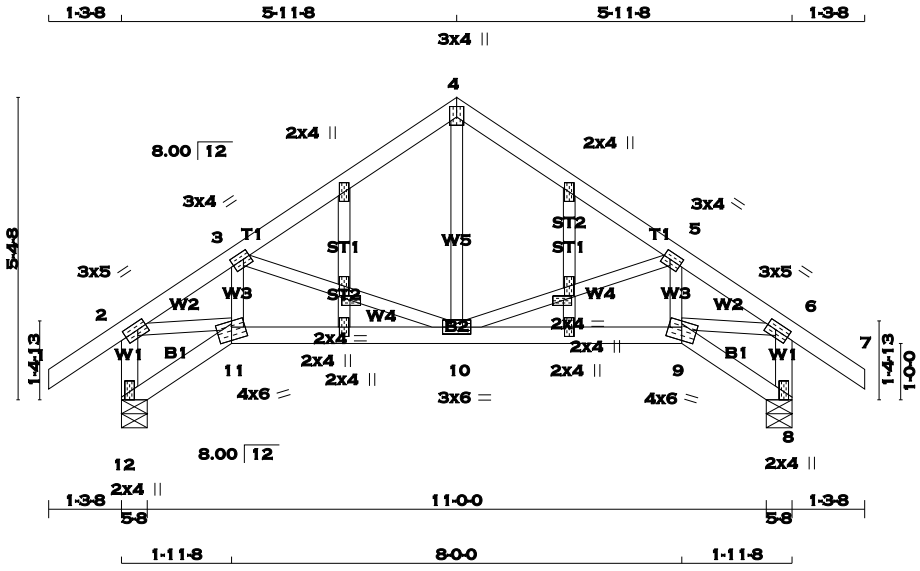
KOTT



TOTAL WEIGHT = 55 lb

[M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
12 - 2	2x4	DRY	No.2	SPF
1 - 4	2x4	DRY	No.2	SPF
4 - 7	2x4	DRY	No.2	SPF
8 - 6	2x4	DRY	No.2	SPF
12 - 11	2x4	DRY	No.2	SPF
11 - 9	2x4	DRY	No.2	SPF
9 - 8	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
ALL GABLE WEBS	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	5.0	1.50	2.00
3	TMWW-t	MT20	3.0	4.0	1.50	1.50
4	TTW+p	MT20	3.0	4.0	2.25	1.50
5	TMWW-t	MT20	3.0	4.0	1.50	1.50
6	TMVW-t	MT20	3.0	5.0	1.50	2.00
8	BMV1+p	MT20	2.0	4.0	Edge	
9	BBWW-m	MT20	4.0	6.0	2.75	2.75
10	BMWWW-t	MT20	3.0	6.0		
11	BBWW-m	MT20	4.0	6.0	2.75	2.75
12	BMV1+p	MT20	2.0	4.0	Edge	
13	NP-p	MT20	2.0	4.0	1.00	1.75
13, 14, 15, 16, 17, 18						
13	NP+w	MT20	2.0	4.0		
18	NP-p	MT20	2.0	4.0	1.00	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

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
12	671	0	671	0	0	5-8	5-8
8	671	0	671	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
12	469	341 / 0	0 / 0	0 / 0	0 / 0	127 / 0	0 / 0
8	469	341 / 0	0 / 0	0 / 0	0 / 0	127 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
12- 2	-654 / 0	0.0	0.0	0.07 (1)	7.81	10- 4	0 / 309	0.07 (1)
1- 2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	10- 5	-327 / 0	0.10 (1)
2- 3	-855 / 0	-77.3	-77.3	0.10 (1)	6.25	9- 5	0 / 43	0.01 (3)
3- 4	-522 / 0	-77.3	-77.3	0.14 (1)	6.25	9- 6	0 / 732	0.16 (1)
4- 5	-522 / 0	-77.3	-77.3	0.14 (1)	6.25	3-10	-327 / 0	0.10 (1)
5- 6	-855 / 0	-77.3	-77.3	0.10 (1)	6.25	11- 3	0 / 43	0.01 (3)
6- 7	0 / 29	-77.3	-77.3	0.10 (1)	10.00	2-11	0 / 732	0.16 (1)
8- 6	-654 / 0	0.0	0.0	0.07 (1)	7.81			
12-11	0 / 0	-17.5	-17.5	0.02 (3)	10.00			
11-10	0 / 730	-17.5	-17.5	0.16 (1)	10.00			
10- 9	0 / 730	-17.5	-17.5	0.16 (1)	10.00			
9- 8	0 / 0	-17.5	-17.5	0.02 (3)	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 (0.40")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.40")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")

CSI: TC=0.14 (4-5:1) , BC=0.16 (10-11:1) , WB=0.16 (6-9:1) , 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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (11) (INPUT = 0.90)
JSI METAL= 0.29 (6) (INPUT = 1.00)

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TOWN OF MILTON
MAR 29, 2017
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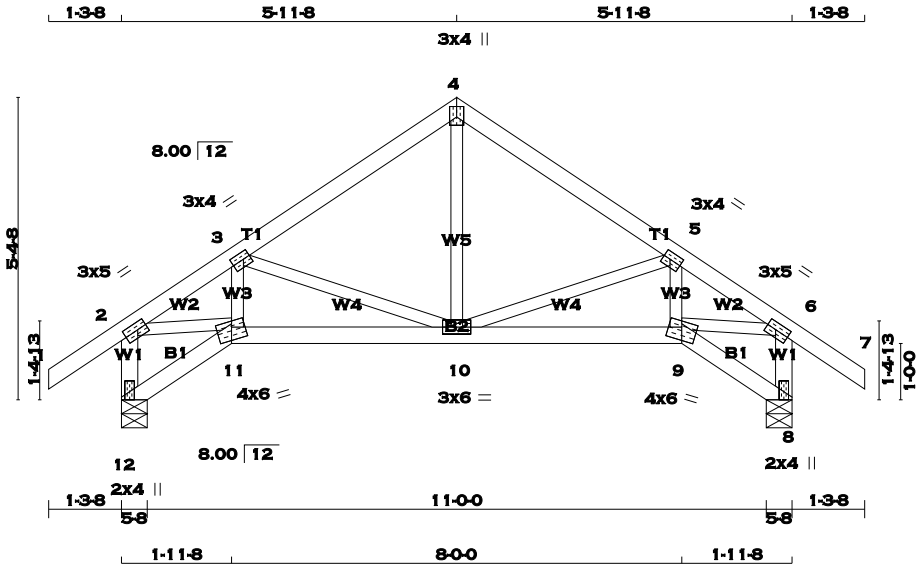
BUILDING DIVISION

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

KOTT



TOTAL WEIGHT = 52 lb
[M][F]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
12 - 2	2x4	DRY	No.2	SPF
1 - 4	2x4	DRY	No.2	SPF
4 - 7	2x4	DRY	No.2	SPF
8 - 6	2x4	DRY	No.2	SPF
12 - 11	2x4	DRY	No.2	SPF
11 - 9	2x4	DRY	No.2	SPF
9 - 8	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	5.0	1.50	2.00
3	TMWW-t	MT20	3.0	4.0	1.50	1.50
4	TTW+p	MT20	3.0	4.0	2.25	1.50
5	TMWW-t	MT20	3.0	4.0	1.50	1.50
6	TMVW-t	MT20	3.0	5.0	1.50	2.00
8	BMV1+p	MT20	2.0	4.0	Edge	
9	BBWW-m	MT20	4.0	6.0	2.75	2.75
10	BMWWW-t	MT20	3.0	6.0		
11	BBWW-m	MT20	4.0	6.0	2.75	2.75
12	BMV1+p	MT20	2.0	4.0	Edge	

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

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
12	671	0	671	0	0	5-8	5-8
8	671	0	671	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
12	469	341 / 0	0 / 0	0 / 0	0 / 0	127 / 0	0 / 0
8	469	341 / 0	0 / 0	0 / 0	0 / 0	127 / 0	0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
12- 2	-654 / 0	0.0	0.0	0.07 (1)	7.81	10- 4	0 / 309	0.07 (1)
1- 2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	10- 5	-327 / 0	0.10 (1)
2- 3	-855 / 0	-77.3	-77.3	0.10 (1)	6.25	9- 5	0 / 43	0.01 (3)
3- 4	-522 / 0	-77.3	-77.3	0.14 (1)	6.25	9- 6	0 / 732	0.16 (1)
4- 5	-522 / 0	-77.3	-77.3	0.14 (1)	6.25	3-10	-327 / 0	0.10 (1)
5- 6	-855 / 0	-77.3	-77.3	0.10 (1)	6.25	11- 3	0 / 43	0.01 (3)
6- 7	0 / 29	-77.3	-77.3	0.10 (1)	10.00	2-11	0 / 732	0.16 (1)
8- 6	-654 / 0	0.0	0.0	0.07 (1)	7.81			
12-11	0 / 0	-17.5	-17.5	0.02 (3)	10.00			
11-10	0 / 730	-17.5	-17.5	0.16 (1)	10.00			
10- 9	0 / 730	-17.5	-17.5	0.16 (1)	10.00			
9- 8	0 / 0	-17.5	-17.5	0.02 (3)	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 (0.40")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.40")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")

CSI: TC=0.14 (4-5:1) , BC=0.16 (10-11:1) , WB=0.16 (6-9:1) , 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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (11) (INPUT = 0.90)
JSI METAL= 0.29 (2) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
RAM TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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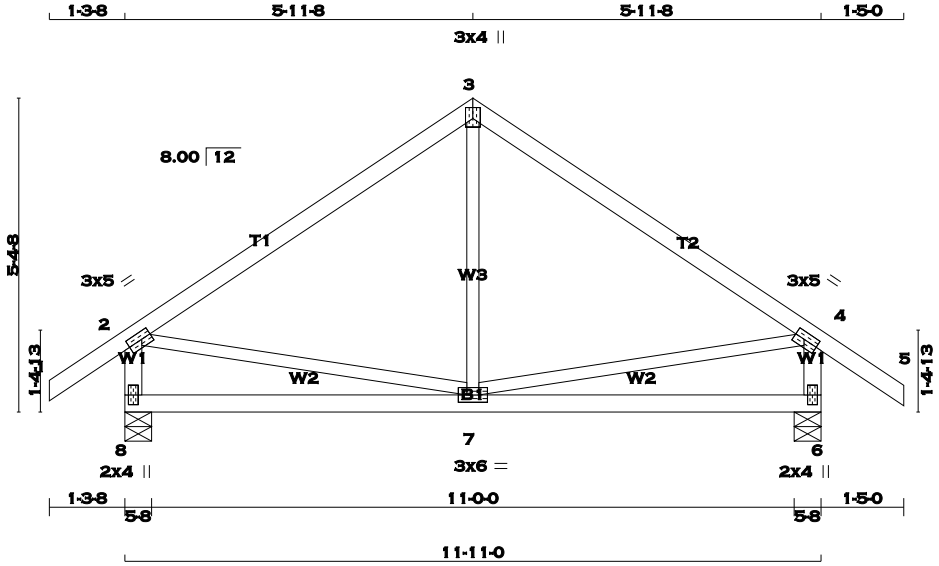
KOTT



TOTAL WEIGHT = 3 X 49 = 148 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
8 - 2	2x4	DRY	No.2	SPF
6 - 4	2x4	DRY	No.2	SPF
8 - 6	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	5.0	1.50	2.00
3	TTW+p	MT20	3.0	4.0	2.25	1.50
4	TMVW-t	MT20	3.0	5.0	1.50	2.00
6	BMV1+p	MT20	2.0	4.0		
7	BMWWW-t	MT20	3.0	6.0		
8	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
8	671	0	671	0	0	5-8	5-8
6	681	0	681	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
8	469	341 / 0	0 / 0	0 / 0	0 / 0	127 / 0	0 / 0
6	475	347 / 0	0 / 0	0 / 0	0 / 0	128 / 0	0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC	MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 29	-77.3	-77.3	0.10 (1)		10.00	7- 3	0 / 104	0.04 (3)
2- 3	-418 / 0	-77.3	-77.3	0.35 (1)		6.25	2- 7	0 / 353	0.08 (1)
3- 4	-418 / 0	-77.3	-77.3	0.35 (1)		6.25	7- 4	0 / 353	0.08 (1)
4- 5	0 / 32	-77.3	-77.3	0.12 (1)		10.00			
8- 2	-631 / 0	0.0	0.0	0.07 (1)		7.81			
6- 4	-641 / 0	0.0	0.0	0.07 (1)		7.81			
8- 7	0 / 0	-17.5	-17.5	0.18 (3)		10.00			
7- 6	0 / 0	-17.5	-17.5	0.18 (3)		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 (0.40")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.40")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")

CSI: TC=0.35 (3-4:1) , BC=0.18 (6-7:3) , WB=0.08 (2-7:1) , SSI=0.15 (3-4:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.76 (7) (INPUT = 0.90)
JSI METAL= 0.18 (4) (INPUT = 1.00)

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KOTT

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Mon Mar 13 10:23:13 2017 Page 1
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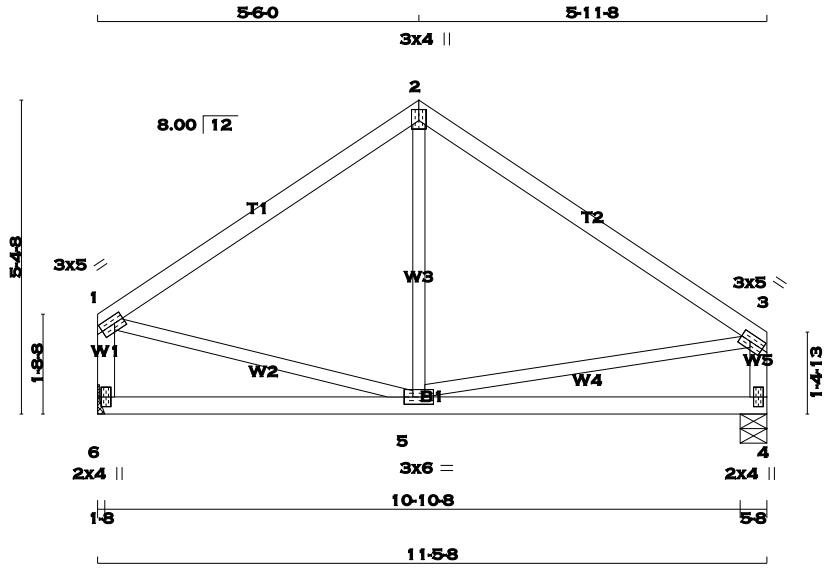

TOTAL WEIGHT = 2 X 44 = 89 lb

[M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 2	2x4	DRY	No.2	SPF
2 - 3	2x4	DRY	No.2	SPF
6 - 1	2x4	DRY	No.2	SPF
4 - 3	2x4	DRY	No.2	SPF
6 - 4	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	3.0	5.0	1.50	2.00
2	TTW+p	MT20	3.0	4.0	2.25	1.50
3	TMVW-t	MT20	3.0	5.0	1.50	2.00
4	BMV1+p	MT20	2.0	4.0		
5	BMWWW-t	MT20	3.0	6.0		
6	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
6	543	0	543	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 1-8	
4	543	0	543	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
6	381	267 / 0	0 / 0	0 / 0	0 / 0	115 / 0	0 / 0
4	381	267 / 0	0 / 0	0 / 0	0 / 0	115 / 0	0 / 0

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

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	-385 / 0	-77.3	-77.3	0.30 (1)	6.25	5- 2	-16 / 94	0.03 (3)
2- 3	-386 / 0	-77.3	-77.3	0.35 (1)	6.25	1- 5	0 / 331	0.07 (1)
6- 1	-510 / 0	0.0	0.0	0.05 (1)	7.81	5- 3	0 / 326	0.07 (1)
4- 3	-500 / 0	0.0	0.0	0.05 (1)	7.81			
6- 5	0 / 0	-17.5	-17.5	0.17 (3)	10.00			
5- 4	0 / 0	-17.5	-17.5	0.17 (3)	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 (0.38")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.38")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")

CSI: TC=0.35 (2-3:1) , BC=0.17 (5-6:3) , WB=0.07 (1-5:1) , SSI=0.15 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.70 (5) (INPUT = 0.90)
JSI METAL= 0.15 (3) (INPUT = 1.00)

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Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Mon Mar 13 10:23:13 2017 Page 1
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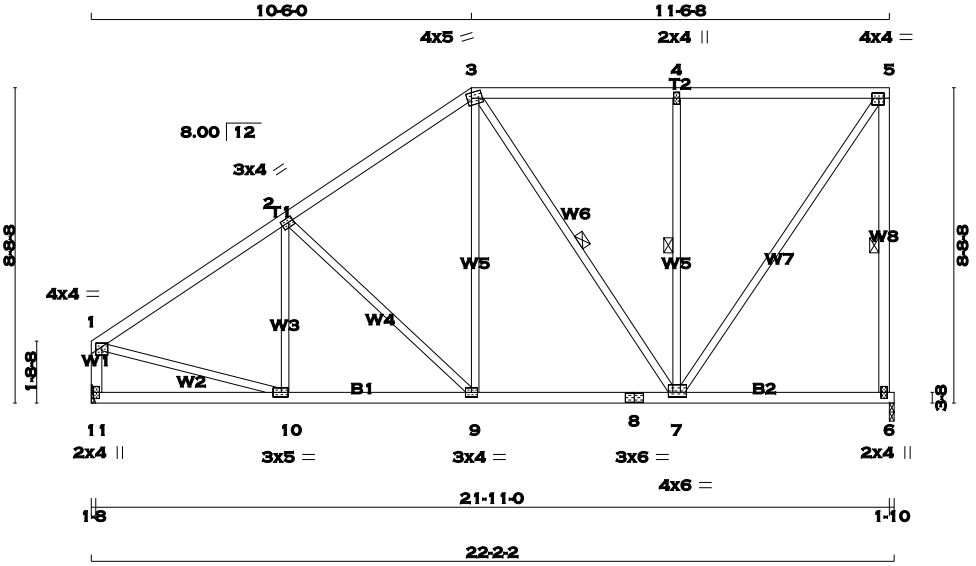

SCALE: 3/16"=1'

TOTAL WEIGHT = 107 lb [M]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
6 - 5	2x4	DRY	No.2	SPF
11 - 1	2x4	DRY	No.2	SPF
11 - 8	2x4	DRY	No.2	SPF
8 - 6	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-p	MT20	4.0	4.0	1.25	2.00
2	TMWW-t	MT20	3.0	4.0	1.50	1.50
3	TTWW-m	MT20	4.0	5.0	1.75	1.50
4	TMW+w	MT20	2.0	4.0		
5	TMVW-t	MT20	4.0	4.0	1.75	1.75
6	BMV1+p	MT20	2.0	4.0		
7	BMWWW-t	MT20	4.0	6.0	1.50	1.50
8	BS-t	MT20	3.0	6.0		
9	BMWW-t	MT20	3.0	4.0		
10	BMWW-t	MT20	3.0	5.0	1.50	2.25
11	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
6	1045	0	1045	0	0	1-10	1-10
11	1045	0	1045	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 1-8	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
6	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0
11	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.55 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 5-6. DBS = 14-0-0 . CBF = 88 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 3-7, 4-7. DBS = 20-0-0 . CBF = 69 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"X3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

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

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	-1074 / 0	-77.3	-77.3	0.40 (1)	5.55
2- 3	-852 / 0	-77.3	-77.3	0.39 (1)	6.07
3- 4	-579 / 0	-77.3	-77.3	0.45 (1)	6.25
4- 5	-579 / 0	-77.3	-77.3	0.45 (1)	6.25
6- 5	-1003 / 0	0.0	0.0	0.35 (1)	6.24
11- 1	-1006 / 0	0.0	0.0	0.11 (1)	7.80
11-10	0 / 0	-17.5	-17.5	0.12 (3)	10.00
10- 9	0 / 916	-17.5	-17.5	0.21 (1)	10.00
9- 8	0 / 689	-17.5	-17.5	0.20 (3)	10.00
8- 7	0 / 689	-17.5	-17.5	0.20 (3)	10.00
7- 6	0 / 0	-17.5	-17.5	0.14 (3)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
10- 2	-134 / 48	0.06 (1)
2- 9	-317 / 0	0.32 (1)
9- 3	0 / 307	0.07 (1)
3- 7	-197 / 0	0.14 (1)
7- 4	-553 / 0	0.27 (1)
7- 5	0 / 1011	0.23 (1)
1-10	0 / 946	0.21 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.73")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.06")

CSI: TC=0.45 (4-5:1) , BC=0.21 (9-10:1) , WB=0.32 (2-9:1) , SSI=0.22 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) 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 (1) (INPUT = 0.90)
JSI METAL= 0.32 (1) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
R.M. TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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

KOTT

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Mon Mar 13 10:23:14 2017 Page 1
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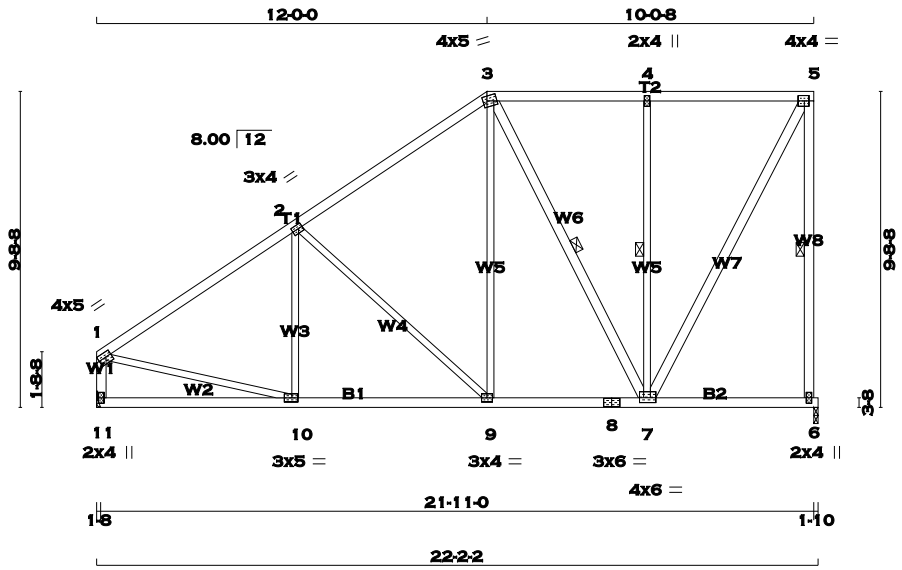

SCALE = 1:70.8

TOTAL WEIGHT = 119 lb

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
6 - 5	2x4	DRY	No.2	SPF
11 - 1	2x4	DRY	No.2	SPF
11 - 8	2x4	DRY	No.2	SPF
8 - 6	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
3 - 7	2x4	DRY	No.2	SPF
7 - 5	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	4.0	5.0	1.75	Edge
2	TMWW-t	MT20	3.0	4.0	1.50	1.50
3	TTWW-m	MT20	4.0	5.0	1.75	1.50
4	TMW+w	MT20	2.0	4.0		
5	TMVW-t	MT20	4.0	4.0	2.00	1.75
6	BMV1+p	MT20	2.0	4.0		
7	BMWWW-t	MT20	4.0	6.0	1.75	1.50
8	BS-t	MT20	3.0	6.0		
9	BMWW-t	MT20	3.0	4.0		
10	BMWW-t	MT20	3.0	5.0	1.50	2.25
11	BMV1+p	MT20	2.0	4.0		

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

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG	REQRD BRG
6	1045	0	1045	0	0	IN-SX 1-10	IN-SX 1-10
11	1045	0	1045	0	0	HANGER BY OTHERS	
						MIN. SEAT SIZE: 1-8	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
6	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0
11	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.60 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 5-6. DBS = 14-0-0 . CBF = 88 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 3-7, 4-7. DBS = 20-0-0 . CBF = 60 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	-1074 / 0	-77.3	-77.3	0.39 (1)	5.60
2- 3	-763 / 0	-77.3	-77.3	0.37 (1)	6.25
3- 4	-465 / 0	-77.3	-77.3	0.25 (1)	6.25
4- 5	-466 / 0	-77.3	-77.3	0.25 (1)	6.25
6- 5	-1008 / 0	0.0	0.0	0.45 (1)	6.24
11- 1	-1002 / 0	0.0	0.0	0.11 (1)	7.81
11-10	0 / 0	-17.5	-17.5	0.16 (3)	10.00
10- 9	0 / 919	-17.5	-17.5	0.23 (1)	10.00
9- 8	0 / 612	-17.5	-17.5	0.15 (1)	10.00
8- 7	0 / 612	-17.5	-17.5	0.15 (1)	10.00
7- 6	0 / 0	-17.5	-17.5	0.10 (3)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
10- 2	-88 / 76	0.05 (1)
2- 9	-421 / 0	0.59 (1)
9- 3	0 / 372	0.08 (1)
3- 7	-316 / 0	0.19 (1)
7- 4	-480 / 0	0.30 (1)
7- 5	0 / 974	0.16 (1)
1-10	0 / 943	0.21 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.73")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.07")

CSI: TC=0.45 (5-6:1) , BC=0.23 (9-10:1) , WB=0.59 (2-9:1) , SSI=0.19 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (5) (INPUT = 0.90)
JSI METAL= 0.36 (1) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
R.M. TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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

KOTT

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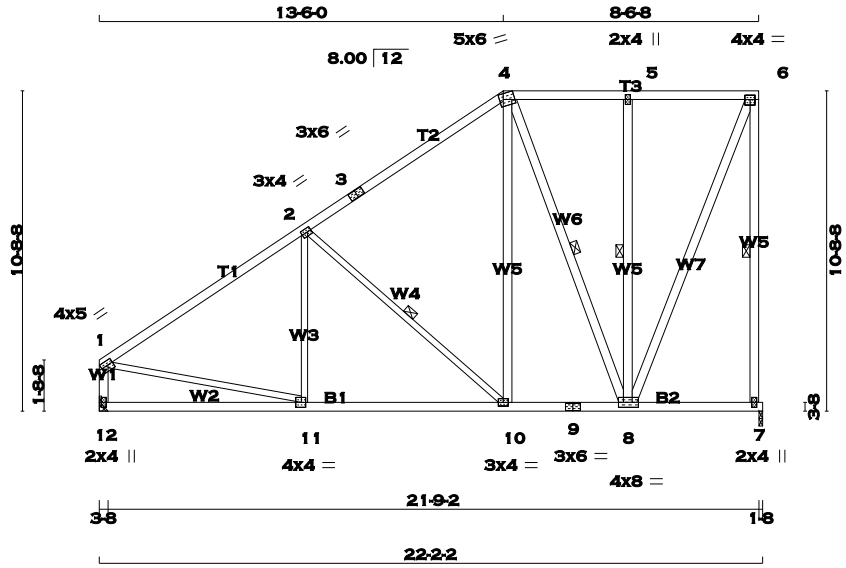

SCALE = 1:77.0

TOTAL WEIGHT = 132 lb

[M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
12 - 1	2x4	DRY	No.2	SPF
12 - 9	2x4	DRY	No.2	SPF
9 - 7	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x4	DRY	No.2	SPF
11 - 2	2x3	DRY	No.2	SPF
2 - 10	2x3	DRY	No.2	SPF
1 - 11	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	4.0	5.0	1.75	Edge
2	TMWW-t	MT20	3.0	4.0	1.50	1.50
3	TS-t	MT20	3.0	6.0		
4	TTWW-m	MT20	5.0	6.0	2.25	1.50
5	TMW+w	MT20	2.0	4.0		
6	TMVW-t	MT20	4.0	4.0	1.75	2.00
7	BMV1+p	MT20	2.0	4.0		
8	BMWWW-t	MT20	4.0	8.0	2.00	2.00
9	BS-t	MT20	3.0	6.0		
10	BMWW-t	MT20	3.0	4.0		
11	BMWW-t	MT20	4.0	4.0	2.00	1.75
12	BMV1+p	MT20	2.0	4.0		

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

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
7	1045	0	1045	0	0	1-8	1-8
12	1045	0	1045	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 3-8	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
7	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0
12	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.42 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 6-7. DBS = 14-0-0 . CBF = 89 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 2-10, 4-8, 5-8. DBS = 20-0-0 . CBF = 65 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	-1065 / 0	-77.3	-77.3	0.51 (1)	5.42	11- 2	-48 / 102	0.04 (3)
2- 3	-667 / 0	-77.3	-77.3	0.47 (1)	6.25	2-10	-521 / 0	0.29 (1)
3- 4	-667 / 0	-77.3	-77.3	0.47 (1)	6.25	10- 4	0 / 437	0.07 (1)
4- 5	-370 / 0	-77.3	-77.3	0.18 (1)	6.25	4- 8	-431 / 0	0.29 (1)
5- 6	-370 / 0	-77.3	-77.3	0.18 (1)	6.25	8- 5	-407 / 0	0.24 (1)
7- 6	-1012 / 0	0.0	0.0	0.59 (1)	6.23	8- 6	0 / 956	0.15 (1)
12- 1	-997 / 0	0.0	0.0	0.11 (1)	7.81	1-11	0 / 934	0.21 (1)
12-11	0 / 0	-17.5	-17.5	0.21 (3)	10.00			
11-10	0 / 916	-17.5	-17.5	0.27 (3)	10.00			
10- 9	0 / 530	-17.5	-17.5	0.14 (1)	10.00			
9- 8	0 / 530	-17.5	-17.5	0.14 (1)	10.00			
8- 7	0 / 0	-17.5	-17.5	0.07 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.73")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.08")

CSI: TC=0.59 (6-7:1) , BC=0.27 (10-11:3) , WB=0.29 (4-8:1) , SSI=0.21 (1-2:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (11) (INPUT = 0.90)
JSI METAL= 0.36 (1) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
RAM TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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

KOTT

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Mon Mar 13 10:23:14 2017 Page 1
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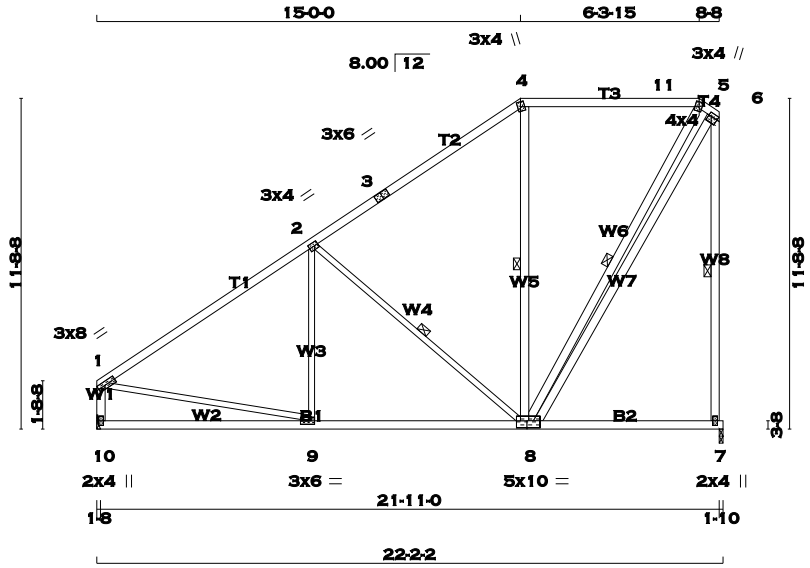

SCALE = 1:81.6

TOTAL WEIGHT = 4 X 128 = 514 lb [M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 4	2x4	DRY	No.2	SPF
4 - 5	2x4	DRY	No.2	SPF
5 - 6	2x4	DRY	No.2	SPF
10 - 1	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF
8 - 7	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x4	DRY	No.2	SPF
9 - 2	2x3	DRY	No.2	SPF
2 - 8	2x3	DRY	No.2	SPF
1 - 9	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	8.0		Edge
2	TMWW-t	MT20	3.0	4.0	1.50	1.50
3	TS-t	MT20	3.0	6.0		
4	TTW+m	MT20	3.0	4.0	2.00	1.25
5	TTW+m	MT20	3.0	4.0	2.00	1.25
6	TMVW-t	MT20	4.0	4.0	1.50	1.00
7	BMV1+p	MT20	2.0	4.0		
8	BSWWWW*-I	MT20	5.0	10.0	3.00	4.50
9	BMWW-t	MT20	3.0	6.0	1.50	2.50
10	BMV1+p	MT20	2.0	4.0		

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

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
10	1054	0	1054	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 1-8	
7	1084	0	1084	0	0	1-10	1-10

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
10	740	513 / 0	0 / 0	0 / 0	0 / 0	227 / 0	0 / 0
7	765	513 / 0	0 / 0	0 / 0	0 / 0	252 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.16 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 2-8, 4-8, 5-8. DBS = 20-0-0 . CBF = 77 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 6-7. DBS = 14-0-0 . CBF = 91 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"X3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

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

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	-1060 / 0	-77.3	-77.3	0.64 (1)	5.16
2- 3	-576 / 0	-77.3	-77.3	0.60 (1)	6.25
3- 4	-576 / 0	-77.3	-77.3	0.60 (1)	6.25
4-11	-440 / 0	-84.8	-84.8	0.58 (1)	6.25
11- 5	-440 / 0	-84.8	-84.8	0.58 (1)	6.25
5- 6	-531 / 0	-77.3	-77.3	0.01 (1)	6.25
10- 1	-1000 / 0	0.0	0.0	0.11 (1)	7.81
7- 6	-1038 / 0	0.0	0.0	0.71 (1)	6.16
10- 9	0 / 0	-17.5	-17.5	0.24 (3)	10.00
9- 8	0 / 915	-17.5	-17.5	0.31 (3)	10.00
8- 7	0 / 0	-17.5	-17.5	0.20 (3)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
9- 2	-18 / 118	0.04 (3)
2- 8	-613 / 0	0.43 (1)
8- 4	-184 / 21	0.14 (1)
8- 5	0 / 37	0.01 (3)
1- 9	0 / 930	0.21 (1)
8- 6	0 / 834	0.13 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON PIGGYBACK TRUSS WITH SLOPES OF 8.00/12 AND -8.00/12 AND RESPECTIVE WALL HEIGHTS OF 0-0 AND 0-0 AND AN ADDITIONAL DEAD LOAD OF 3.0 P.S.F.

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.73")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.10")

CSI: TC=0.71 (6-7:1) , BC=0.31 (8-9:3) , WB=0.43 (2-8:1) , SSI=0.24 (1-2:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (1) (INPUT = 0.90)
JSI METAL= 0.30 (6) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
R.M. TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

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17-5001
BUILDING DIVISION

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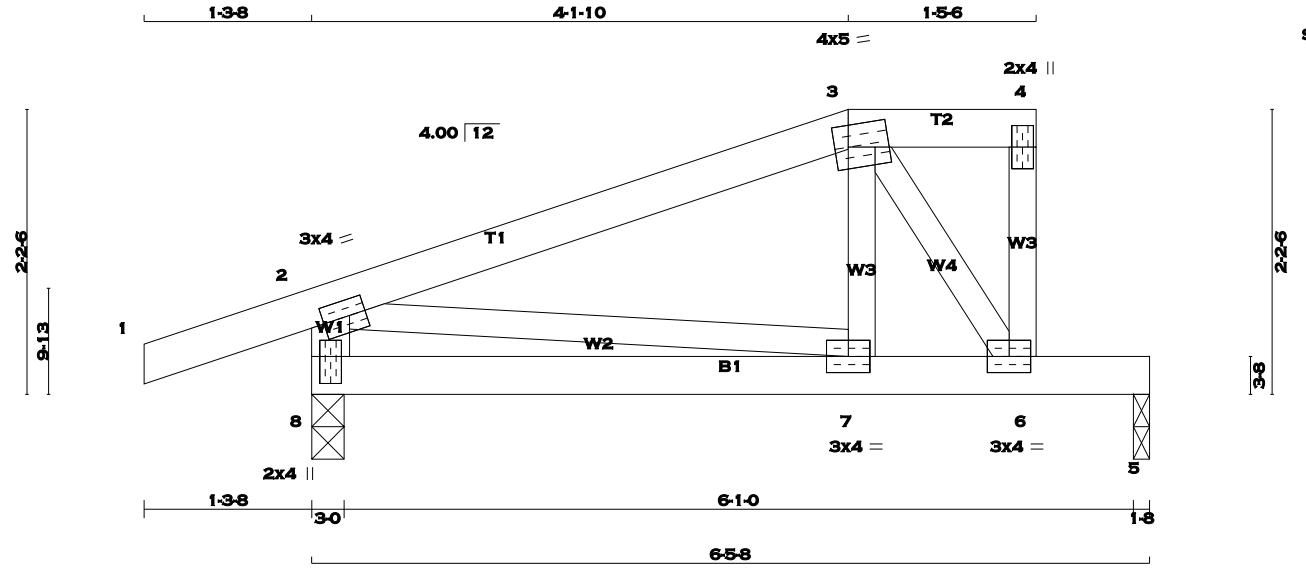
KOTT



SCALE = 1:17.8

TOTAL WEIGHT = 23 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 4	2x4	DRY	No.2	SPF
6 - 4	2x3	DRY	No.2	SPF
8 - 2	2x4	DRY	No.2	SPF
8 - 5	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

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

BEARINGS

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
8	285	213 / 0	0 / 0	0 / 0	0 / 0	73 / 0	0 / 0
5	215	150 / 0	0 / 0	0 / 0	0 / 0	65 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8, 5

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

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

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 16	-77.3	-77.3	0.10 (1)	10.00	7- 3	0 / 233	0.05 (1)
2- 3	-277 / 0	-77.3	-77.3	0.23 (1)	6.25	3- 6	-454 / 0	0.07 (1)
3- 4	0 / 0	-77.3	-77.3	0.03 (1)	10.00	2- 7	0 / 264	0.06 (1)
6- 4	-56 / 0	0.0	0.0	0.01 (1)	7.81			
8- 2	-383 / 0	0.0	0.0	0.04 (1)	7.81			
8- 7	0 / 0	-17.5	-17.5	0.08 (3)	10.00			
7- 6	0 / 275	-17.5	-17.5	0.36 (1)	10.00			
6- 5	0 / 0	-94.8	-94.8	0.32 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

CSI: TC=0.23 (2-3:1) , BC=0.36 (6-7:1) , WB=0.07 (3-6:1) , SSI=0.24 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.64 (3) (INPUT = 0.90)
JSI METAL= 0.16 (3) (INPUT = 1.00)

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KOTT

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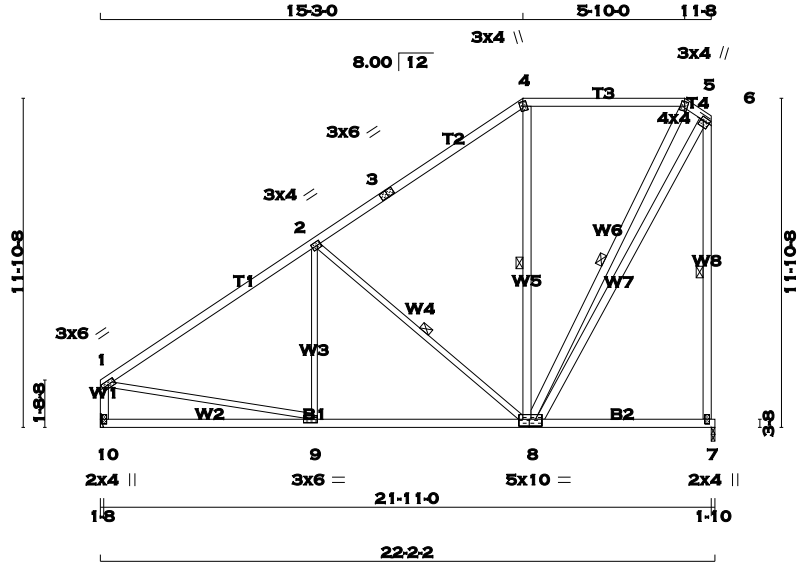

SCALE = 1:83.1

TOTAL WEIGHT = 129 lb

[M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 4	2x4	DRY	No.2	SPF
4 - 5	2x4	DRY	No.2	SPF
5 - 6	2x4	DRY	No.2	SPF
10 - 1	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF
8 - 7	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x4	DRY	No.2	SPF
9 - 2	2x3	DRY	No.2	SPF
2 - 8	2x3	DRY	No.2	SPF
1 - 9	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	6.0		
2	TMWW-t	MT20	3.0	4.0	1.50	1.50
3	TS-t	MT20	3.0	6.0		
4	TTW+m	MT20	3.0	4.0	2.00	1.25
5	TTW+m	MT20	3.0	4.0	2.00	1.25
6	TMVW-t	MT20	4.0	4.0	1.50	1.00
7	BMV1+p	MT20	2.0	4.0		
8	BSWWWW*-I	MT20	5.0	10.0	3.00	4.50
9	BMWW-t	MT20	3.0	6.0	1.50	2.50
10	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
10	1045	0	1045	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 1-8	
7	1045	0	1045	0	0	1-10	1-10

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
10	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0
7	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.14 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.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 2-8, 4-8, 5-8. DBS = 20-0-0 . CBF = 79 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 6-7. DBS = 14-0-0 . CBF = 88 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"X3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

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

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF) FROM	TO	MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	-1046 / 0	-77.3	-77.3	0.67 (1)	5.14
2- 3	-545 / 0	-77.3	-77.3	0.62 (1)	6.25
3- 4	-545 / 0	-77.3	-77.3	0.62 (1)	6.25
4- 5	-415 / 0	-77.3	-77.3	0.34 (1)	6.25
5- 6	-493 / 0	-77.3	-77.3	0.01 (1)	6.25
10- 1	-991 / 0	0.0	0.0	0.11 (1)	7.81
7- 6	-1001 / 0	0.0	0.0	0.68 (1)	6.25
10- 9	0 / 0	-17.5	-17.5	0.25 (3)	10.00
9- 8	0 / 903	-17.5	-17.5	0.32 (3)	10.00
8- 7	0 / 0	-17.5	-17.5	0.20 (3)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
9- 2	-10 / 124	0.04 (3)
2- 8	-631 / 0	0.46 (1)
8- 4	-162 / 38	0.12 (1)
8- 5	0 / 50	0.01 (3)
1- 9	0 / 918	0.21 (1)
8- 6	0 / 798	0.13 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.73")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11")

CSI: TC=0.68 (6-7:1) , BC=0.32 (8-9:3) , WB=0.46 (2-8:1) , SSI=0.24 (1-2:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (1) (INPUT = 0.90)
JSI METAL= 0.30 (1) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
RAY TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
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MAR 29, 2017
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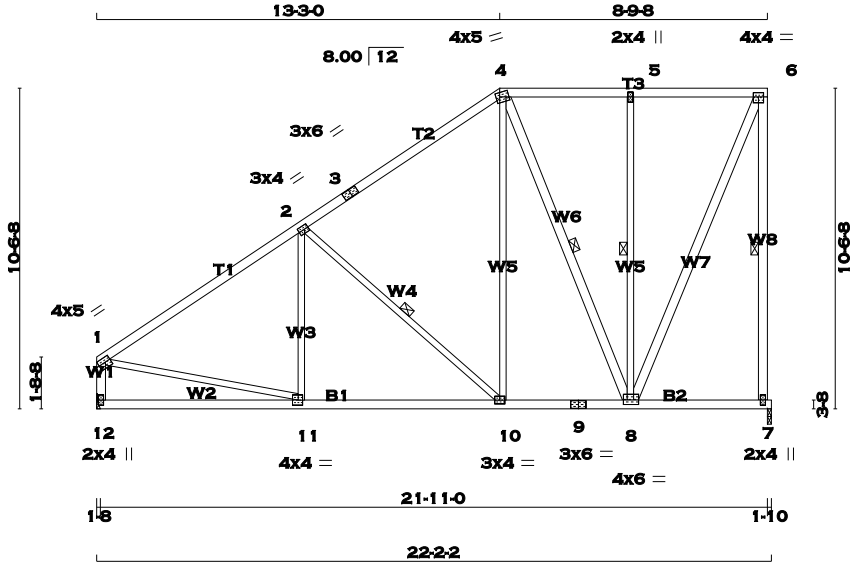

TOTAL WEIGHT = 124 lb

[M][F]

LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
7	1045	0	1045	0	0	1-10	1-10
12	1045	0	1045	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 1-8	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
7	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0
12	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.46 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 6-7. DBS = 14-0-0 . CBF = 89 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 2-10, 4-8, 5-8. DBS = 20-0-0 . CBF = 63 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	-1067 / 0	-77.3	-77.3	0.49 (1)	5.46	11- 2	-54 / 97	0.03 (3)
2- 3	-685 / 0	-77.3	-77.3	0.45 (1)	6.25	2-10	-504 / 0	0.27 (1)
3- 4	-685 / 0	-77.3	-77.3	0.45 (1)	6.25	10- 4	0 / 426	0.10 (1)
4- 5	-385 / 0	-77.3	-77.3	0.19 (1)	6.25	4- 8	-411 / 0	0.28 (1)
5- 6	-385 / 0	-77.3	-77.3	0.19 (1)	6.25	8- 5	-419 / 0	0.33 (1)
7- 6	-1012 / 0	0.0	0.0	0.56 (1)	6.23	8- 6	0 / 958	0.15 (1)
12- 1	-998 / 0	0.0	0.0	0.11 (1)	7.81	1-11	0 / 936	0.21 (1)
12-11	0 / 0	-17.5	-17.5	0.20 (3)	10.00			
11-10	0 / 917	-17.5	-17.5	0.27 (3)	10.00			
10- 9	0 / 544	-17.5	-17.5	0.14 (1)	10.00			
9- 8	0 / 544	-17.5	-17.5	0.14 (1)	10.00			
8- 7	0 / 0	-17.5	-17.5	0.07 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.73")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.08")

CSI: TC=0.56 (6-7:1) , BC=0.27 (10-11:3) , WB=0.33 (5-8:1) , SSI=0.21 (1-2:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) 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= 0.36 (1) (INPUT = 1.00)

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MAR 29, 2017
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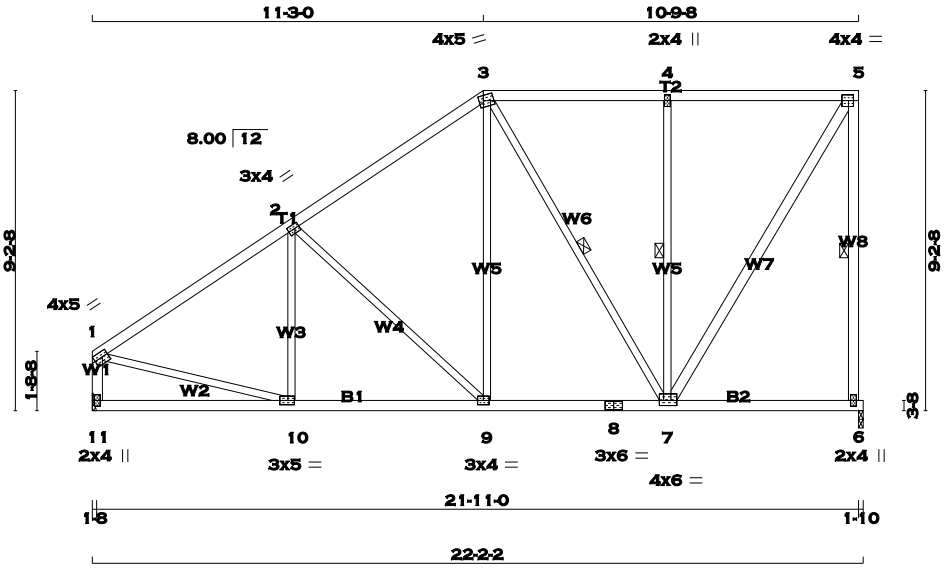
BUILDING DIVISION

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

KOTT



TOTAL WEIGHT = 113 lb
[M][F]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
6 - 5	2x4	DRY	No.2	SPF
11 - 1	2x4	DRY	No.2	SPF
11 - 8	2x4	DRY	No.2	SPF
8 - 6	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
7 - 5	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	4.0	5.0	1.75	Edge
2	TMWW-t	MT20	3.0	4.0	1.50	1.50
3	TTWW-m	MT20	4.0	5.0	1.75	1.50
4	TMW+w	MT20	2.0	4.0		
5	TMVW-t	MT20	4.0	4.0	2.00	1.75
6	BMV1+p	MT20	2.0	4.0		
7	BMWWW-t	MT20	4.0	6.0	1.75	1.50
8	BS-t	MT20	3.0	6.0		
9	BMWW-t	MT20	3.0	4.0		
10	BMWW-t	MT20	3.0	5.0	1.50	2.25
11	BMV1+p	MT20	2.0	4.0		

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

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
6	1045	0	1045	0	0	1-10	1-10
11	1045	0	1045	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 1-8	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
6	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0
11	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.67 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 5-6. DBS = 14-0-0 . CBF = 88 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 3-7, 4-7. DBS = 20-0-0 . CBF = 65 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	-1075 / 0	-77.3	-77.3	0.34 (1)	5.67
2- 3	-809 / 0	-77.3	-77.3	0.32 (1)	6.25
3- 4	-520 / 0	-77.3	-77.3	0.29 (1)	6.25
4- 5	-520 / 0	-77.3	-77.3	0.29 (1)	6.25
6- 5	-1006 / 0	0.0	0.0	0.40 (1)	6.24
11- 1	-1004 / 0	0.0	0.0	0.11 (1)	7.80
11-10	0 / 0	-17.5	-17.5	0.14 (3)	10.00
10- 9	0 / 919	-17.5	-17.5	0.22 (1)	10.00
9- 8	0 / 651	-17.5	-17.5	0.17 (3)	10.00
8- 7	0 / 651	-17.5	-17.5	0.17 (3)	10.00
7- 6	0 / 0	-17.5	-17.5	0.12 (3)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
10- 2	-110 / 62	0.05 (1)
2- 9	-370 / 0	0.44 (1)
9- 3	0 / 340	0.08 (1)
3- 7	-257 / 0	0.20 (1)
7- 4	-517 / 0	0.29 (1)
7- 5	0 / 991	0.16 (1)
1-10	0 / 945	0.21 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.73")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.06")

CSI: TC=0.40 (5-6:1) , BC=0.22 (9-10:1) , WB=0.44 (2-9:1) , SSI=0.20 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (5) (INPUT = 0.90)
JSI METAL= 0.36 (1) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
R.M. TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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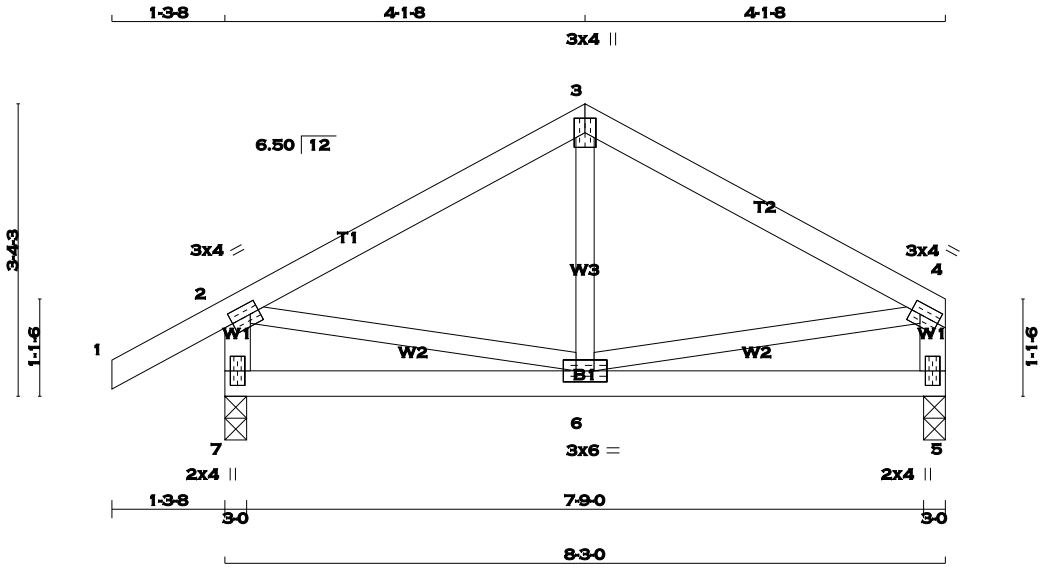
KOTT



TOTAL WEIGHT = 3 X 32 = 96 lb

LUMBER
N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	4.0	1.50	1.25
3	TTW+p	MT20	3.0	4.0		
4	TMVW-t	MT20	3.0	4.0	1.50	1.25
5	BMV1+p	MT20	2.0	4.0		
6	BMWWW-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 VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
7	497	0	497	0	0	3-0	3-0
5	391	0	391	0	0	3-0	3-0

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
7	346	255 / 0	0 / 0	0 / 0	0 / 0	91 / 0	0 / 0
5	275	192 / 0	0 / 0	0 / 0	0 / 0	83 / 0	0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC	MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 25	-77.3	-77.3	0.10 (1)		10.00	6- 3	-20 / 64	0.02 (3)
2- 3	-314 / 0	-77.3	-77.3	0.17 (1)		6.25	2- 6	0 / 281	0.06 (1)
3- 4	-314 / 0	-77.3	-77.3	0.17 (1)		6.25	6- 4	0 / 281	0.06 (1)
7- 2	-468 / 0	0.0	0.0	0.05 (1)		7.81			
5- 4	-363 / 0	0.0	0.0	0.04 (1)		7.81			
7- 6	0 / 0	-17.5	-17.5	0.08 (3)		10.00			
6- 5	0 / 0	-17.5	-17.5	0.08 (3)		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 (0.28")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.28")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.17 (3-4:1) , BC=0.08 (6-7:3) , WB=0.06 (2-6:1) , 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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.68 (2) (INPUT = 0.90)
JSI METAL= 0.16 (2) (INPUT = 1.00)

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TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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KOTT

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Mon Mar 13 10:23:16 2017 Page 1
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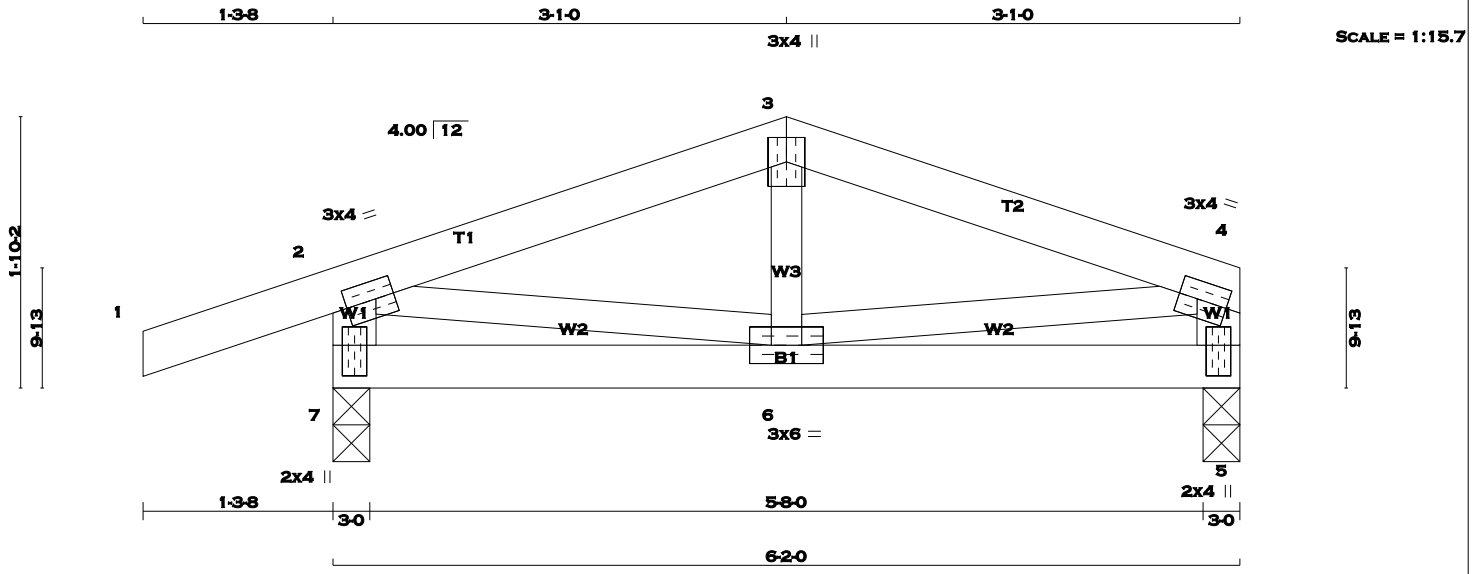

TOTAL WEIGHT = 22 lb

[M][F]

LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	4.0	1.50	1.50
3	TTW+p	MT20	3.0	4.0		
4	TMVW-t	MT20	3.0	4.0	1.50	1.50
5	BMV1+p	MT20	2.0	4.0	2.50	1.00
6	BMWWW-t	MT20	3.0	6.0		
7	BMV1+p	MT20	2.0	4.0	2.50	1.00

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
7	396	0	396	0	0	3-0	3-0
5	292	0	292	0	0	3-0	3-0

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
7	276	206 / 0	0 / 0	0 / 0	0 / 0	70 / 0	0 / 0
5	205	144 / 0	0 / 0	0 / 0	0 / 0	62 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 16	-77.3	-77.3	0.10 (1)	10.00	6- 3	-40 / 40	0.01 (3)
2- 3	-314 / 0	-77.3	-77.3	0.09 (1)	6.25	2- 6	0 / 302	0.07 (1)
3- 4	-314 / 0	-77.3	-77.3	0.09 (1)	6.25	6- 4	0 / 302	0.07 (1)
7- 2	-372 / 0	0.0	0.0	0.04 (1)	7.81			
5- 4	-269 / 0	0.0	0.0	0.03 (1)	7.81			
7- 6	0 / 0	-17.5	-17.5	0.04 (3)	10.00			
6- 5	0 / 0	-17.5	-17.5	0.04 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.21")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.21")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.10 (1-2:1) , BC=0.04 (6-7:3) , WB=0.07 (4-6:1) , SSI=0.09 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.60 (2) (INPUT = 0.90)
JSI METAL= 0.14 (2) (INPUT = 1.00)

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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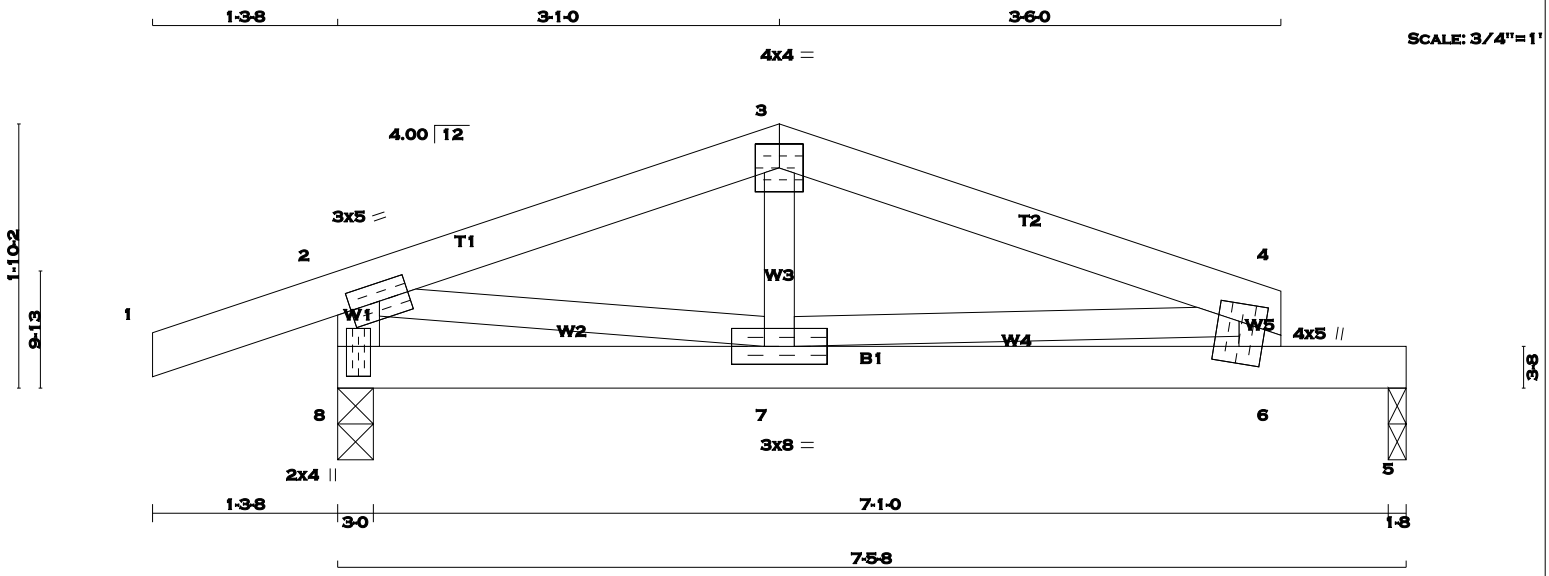
KOTT



TOTAL WEIGHT = 24 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 4	2x4	DRY	No.2	SPF
8 - 2	2x4	DRY	No.2	SPF
6 - 4	2x4	DRY	No.2	SPF
8 - 5	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	5.0		
3	TTW-p	MT20	4.0	4.0		
4						
6						
6	TMBMVW*+m	MT20	4.0	5.0	1.50	1.75
7	BMWWW-t	MT20	3.0	8.0		
8	BMV1+p	MT20	2.0	4.0	2.50	1.00

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
8	457	0	457	0	0	3-0	3-0
5	354	0	354	0	0	1-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
8	319	236 / 0	0 / 0	0 / 0	0 / 0	83 / 0	0 / 0
5	248	174 / 0	0 / 0	0 / 0	0 / 0	75 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8, 5

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

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

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 16	-77.3	-77.3	0.10 (1)	10.00	7- 3	0 / 72	0.03 (3)
2- 3	-491 / 0	-77.3	-77.3	0.13 (1)	6.25	2- 7	0 / 472	0.11 (1)
3- 4	-491 / 0	-77.3	-77.3	0.17 (1)	6.25	7- 4	0 / 468	0.11 (1)
8- 2	-456 / 0	0.0	0.0	0.05 (1)	7.81			
6- 4	-341 / 0	0.0	0.0	0.03 (1)	7.81			
8- 7	0 / 0	-17.5	-17.5	0.11 (1)	10.00			
7- 6	0 / 0	-17.5	-17.5	0.37 (1)	10.00			
6- 5	0 / 0	-94.8	-94.8	0.37 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.25")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.25")
CALCULATED VERT. DEFL.(TL) = L/ 953 (0.09")

CSI: TC=0.17 (3-4:1) , BC=0.37 (5-6:1) , WB=0.11 (2-7:1) , 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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) 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 (6) (INPUT = 0.90)
JSI METAL= 0.19 (6) (INPUT = 1.00)

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TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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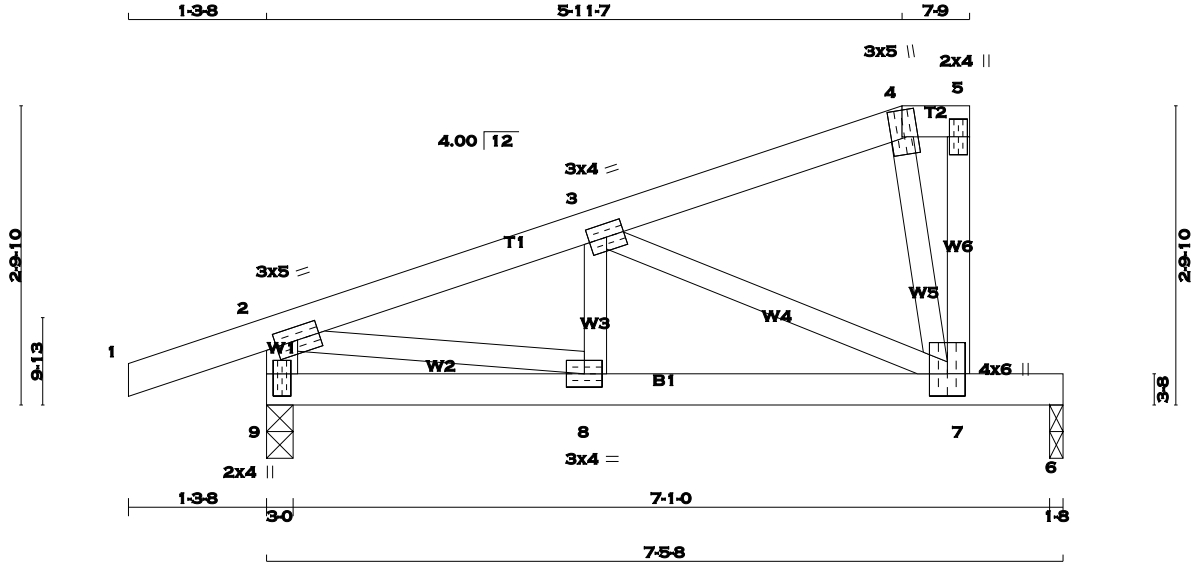
KOTT



TOTAL WEIGHT = 28 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
7 - 5	2x3	DRY	No.2	SPF
9 - 2	2x4	DRY	No.2	SPF
9 - 6	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	5.0		
3	TMWW-t	MT20	3.0	4.0		
4	TTW+m	MT20	3.0	5.0	1.25	1.50
5	TMV+p	MT20	2.0	4.0		
7	BMVWW+p	MT20	4.0	6.0	2.50	2.00
8	BMWW-t	MT20	3.0	4.0		
9	BMV1+p	MT20	2.0	4.0	2.50	1.00

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
9	457	0	457	0	0	3-0	3-0
6	354	0	354	0	0	1-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
9	319	236 / 0	0 / 0	0 / 0	0 / 0	83 / 0	0 / 0
6	248	174 / 0	0 / 0	0 / 0	0 / 0	75 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 9, 6

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

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

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 16	-77.3	-77.3	0.10 (1)	10.00	8- 3	0 / 97	0.03 (3)
2- 3	-528 / 0	-77.3	-77.3	0.09 (1)	6.25	3- 7	-526 / 0	0.13 (1)
3- 4	-35 / 0	-77.3	-77.3	0.09 (1)	6.25	4- 7	-107 / 0	0.02 (1)
4- 5	0 / 0	-77.3	-77.3	0.01 (1)	10.00	2- 8	0 / 514	0.12 (1)
7- 5	-24 / 0	0.0	0.0	0.00 (1)	7.81			
9- 2	-455 / 0	0.0	0.0	0.05 (1)	7.81			
9- 8	0 / 0	-17.5	-17.5	0.11 (1)	10.00			
8- 7	0 / 507	-17.5	-17.5	0.45 (1)	10.00			
7- 6	0 / 0	-94.8	-94.8	0.37 (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 (0.25")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.25")
CALCULATED VERT. DEFL.(TL) = L/ 940 (0.10")

CSI: TC=0.10 (1-2:1) , BC=0.45 (7-8:1) , WB=0.13 (3-7:1) , SSI=0.28 (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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

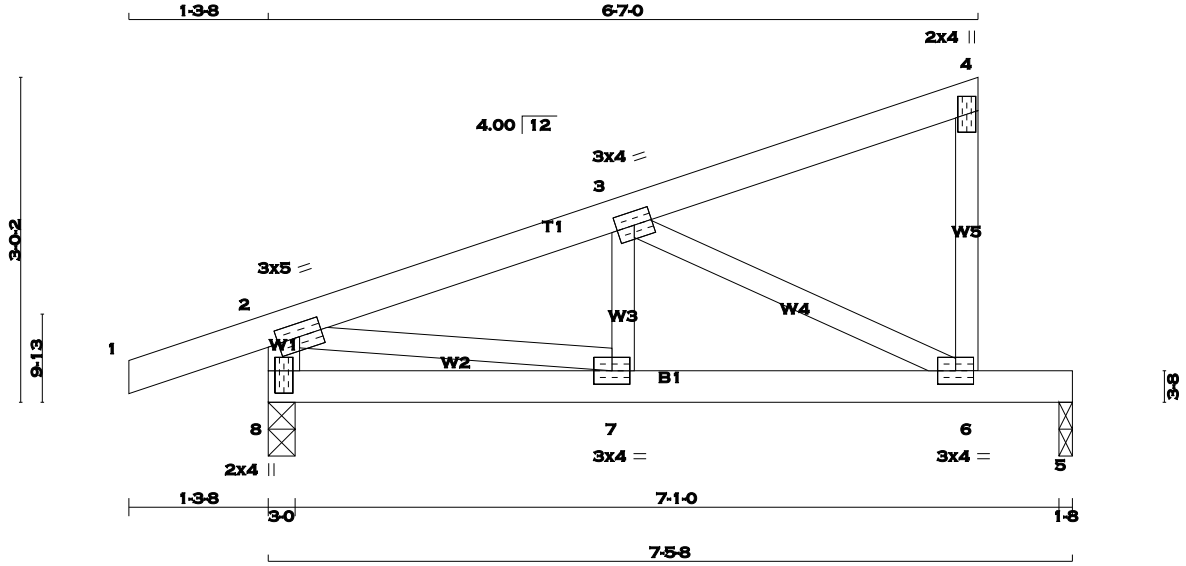
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.82 (8) (INPUT = 0.90)
JSI METAL= 0.19 (8) (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.

KOTT



SCALE = 1:21.4

TOTAL WEIGHT = 2 X 27 = 53 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
6 - 4	2x3	DRY	No.2	SPF
8 - 2	2x4	DRY	No.2	SPF
8 - 5	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
8	453	0	453	0	0	3-0	3-0
5	290	0	290	0	0	1-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
8	316	234 / 0	0 / 0	0 / 0	0 / 0	82 / 0	0 / 0
5	205	135 / 0	0 / 0	0 / 0	0 / 0	70 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8, 5

BRACING

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

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

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 16	-77.3	-77.3	0.10 (1)	10.00	7- 3	0 / 96	0.03 (3)
2- 3	-509 / 0	-77.3	-77.3	0.10 (1)	6.25	3- 6	-547 / 0	0.13 (1)
3- 4	-9 / 0	-77.3	-77.3	0.09 (1)	10.00	2- 7	0 / 497	0.11 (1)
6- 4	-100 / 0	0.0	0.0	0.02 (1)	7.81			
8- 2	-445 / 0	0.0	0.0	0.04 (1)	7.81			
8- 7	0 / 0	-17.5	-17.5	0.09 (1)	10.00			
7- 6	0 / 491	-17.5	-17.5	0.42 (1)	10.00			
6- 5	0 / 0	-17.5	-17.5	0.34 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.25")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.25")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.08")

CSI: TC=0.10 (1-2:1) , BC=0.42 (6-7:1) , WB=0.13 (3-6:1) , SSI=0.23 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.79 (7) (INPUT = 0.90)
JSI METAL= 0.18 (6) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
R.M. TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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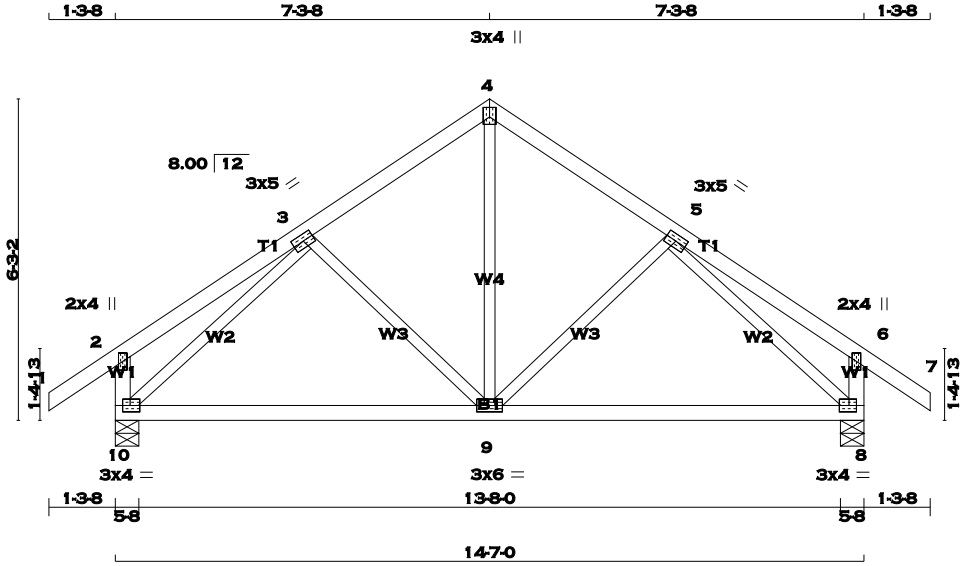
KOTT



TOTAL WEIGHT = 63 lb
[M][F]

LUMBER
N. L. G. A. RULES

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

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	BMWWW-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.

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

BEARINGS

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
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 (3)	10.00			
9- 8	0 / 554	-17.5	-17.5	0.30 (3)	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 (9-10:3) , WB=0.31 (3-10:1) , SSI=0.11 (3-4:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

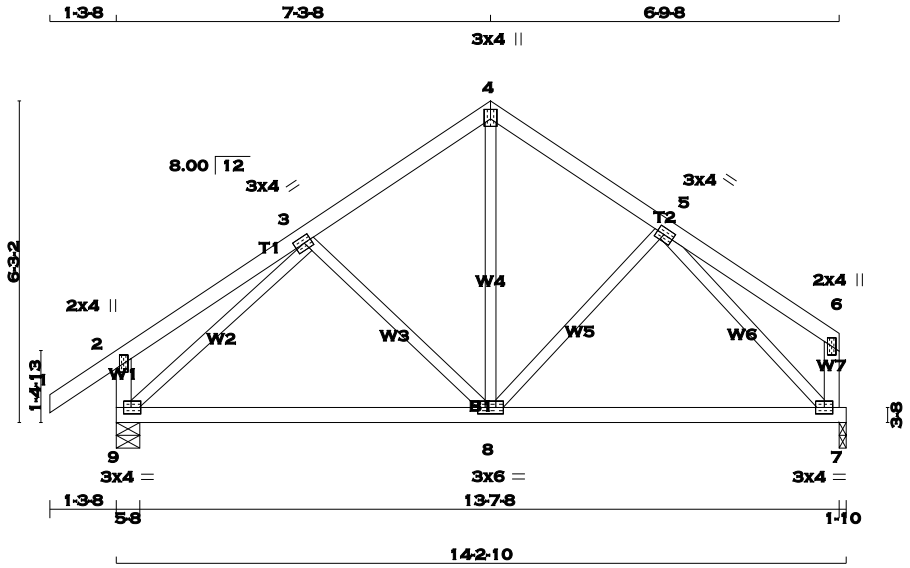
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (8) (INPUT = 0.90)
JSI METAL= 0.22 (5) (INPUT = 1.00)

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

KOTT



TOTAL WEIGHT = 3 X 60 = 180 lb

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
9 - 2	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
9 - 7	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

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

BEARINGS

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

UNFACTORED REACTIONS

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

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

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	3- 8	-161 / 3	0.07 (1)
2- 3	0 / 18	-77.3	-77.3	0.16 (1)	10.00	8- 4	0 / 339	0.08 (1)
3- 4	-514 / 0	-77.3	-77.3	0.13 (1)	6.25	8- 5	-102 / 16	0.04 (1)
4- 5	-512 / 0	-77.3	-77.3	0.11 (1)	6.25	9- 3	-735 / 0	0.30 (1)
5- 6	0 / 16	-77.3	-77.3	0.14 (1)	10.00	5- 7	-710 / 0	0.28 (1)
9- 2	-215 / 0	0.0	0.0	0.02 (1)	7.81			
7- 6	-102 / 0	0.0	0.0	0.01 (1)	7.81			
9- 8	0 / 529	-17.5	-17.5	0.28 (3)	10.00			
8- 7	0 / 482	-17.5	-17.5	0.28 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.47")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.47")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.07")

CSI: TC=0.16 (2-3:1) , BC=0.28 (8-9:3) , WB=0.30 (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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) 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= 0.26 (3) (INPUT = 1.00)

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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

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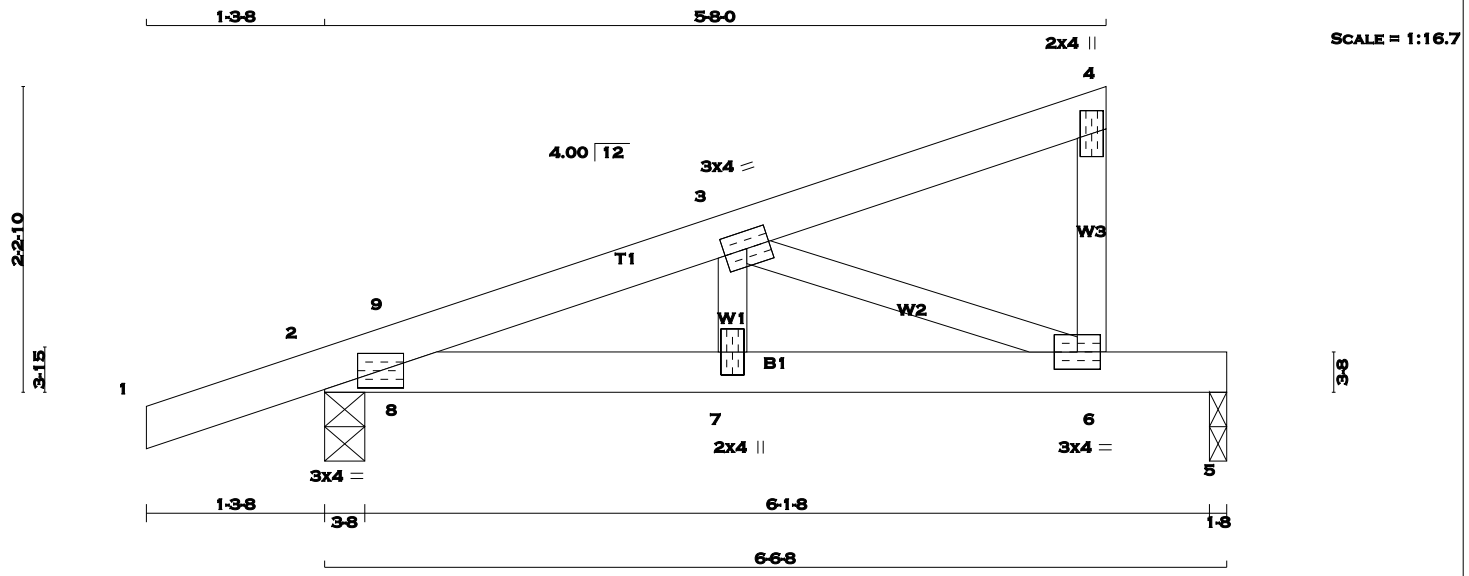

TOTAL WEIGHT = 18 X 20 = 358 lb
[M][F]

LUMBER
N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

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

BEARINGS

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

UNFACTORED REACTIONS

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

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

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

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

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 15	-77.3	-77.3	0.10 (1)	10.00	7- 3	0 / 178	0.04 (1)
2- 9	-607 / 0	-77.3	-77.3	0.01 (1)	6.25	3- 6	-606 / 0	0.11 (1)
9- 3	-593 / 0	-77.3	-77.3	0.05 (1)	6.25	8- 9	-74 / 2	0.00 (1)
3- 4	-4 / 0	-77.3	-77.3	0.06 (1)	10.00			
6- 4	-91 / 0	0.0	0.0	0.01 (1)	7.81			
2- 8	0 / 568	-17.5	-17.5	0.14 (1)	10.00			
8- 7	0 / 568	-17.5	-17.5	0.16 (1)	10.00			
7- 6	0 / 568	-17.5	-17.5	0.38 (1)	10.00			
6- 5	0 / 0	-17.5	-17.5	0.29 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.22")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.22")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.06")

CSI: TC=0.10 (1-2:1) , BC=0.38 (6-7:1) , WB=0.11 (3-6:1) , SSI=0.19 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

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TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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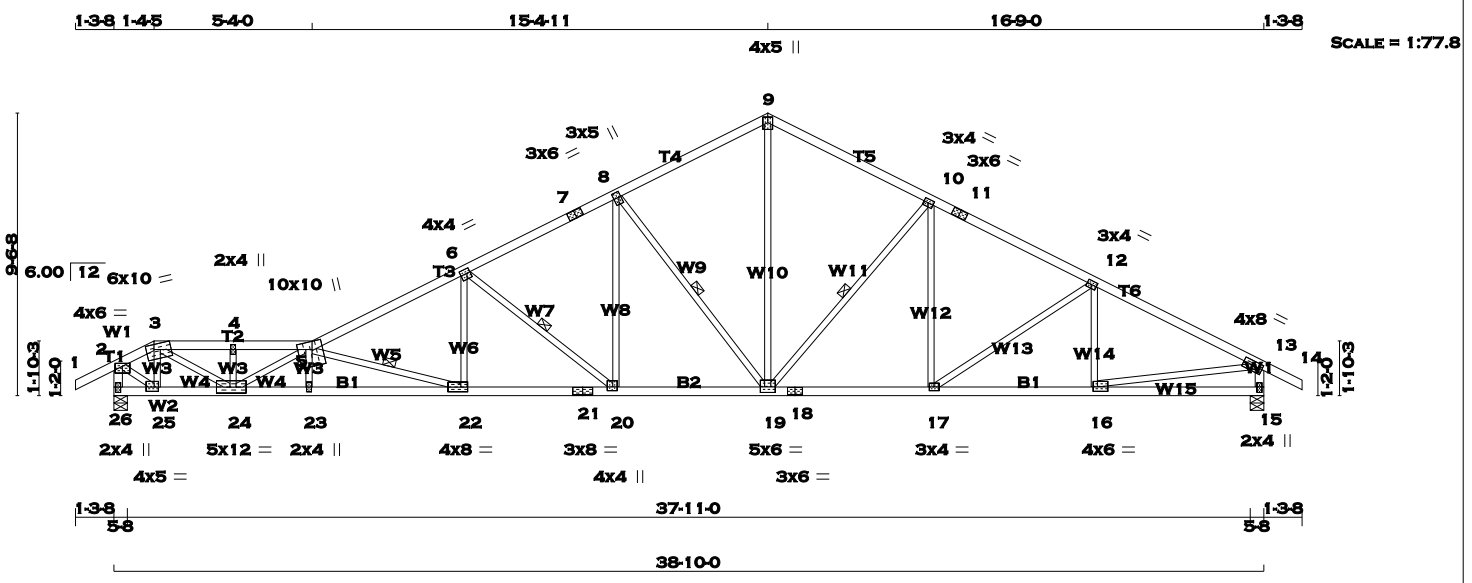
KOTT



TOTAL WEIGHT = 163 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
5 - 7	2x4	DRY	No.2	SPF
7 - 9	2x4	DRY	No.2	SPF
9 - 11	2x4	DRY	No.2	SPF
11 - 14	2x4	DRY	No.2	SPF
26 - 2	2x4	DRY	No.2	SPF
15 - 13	2x4	DRY	No.2	SPF
26 - 21	2x4	DRY	1650F 1.5E	SPF
21 - 18	2x4	DRY	1650F 1.5E	SPF
18 - 15	2x4	DRY	1650F 1.5E	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-p	MT20	4.0	6.0	1.25	3.00
3	TTWW-m	MT20	6.0	10.0	Edge	6.75
4	TMW+w	MT20	2.0	4.0		
5	TTWWW+m	MT20	10.0	10.0	3.25	4.25
6	TMWW-t	MT20	4.0	4.0	1.75	1.25
7	TS-t	MT20	3.0	6.0		
8	TMWW+t	MT20	3.0	5.0	2.25	0.75
9	TTW+p	MT20	4.0	5.0	2.25	2.00
10	TMWW-t	MT20	3.0	4.0	1.50	1.75
11	TS-t	MT20	3.0	6.0		
12	TMWW-t	MT20	3.0	4.0	1.50	1.75
13	TMVW-t	MT20	4.0	8.0	1.75	3.00
15	BMV1+p	MT20	2.0	4.0	2.25	1.00
16	BMWW-t	MT20	4.0	6.0	1.75	1.75
17	BMWW-t	MT20	3.0	4.0		
18	BS-t	MT20	3.0	6.0		
19	BMWWW-t	MT20	5.0	6.0	2.25	3.00
20	BMWW+t	MT20	4.0	4.0	1.50	1.75
21	BS-t	MT20	3.0	8.0		
22	BMWW-t	MT20	4.0	8.0	2.00	2.75
23	BMW+w	MT20	2.0	4.0		
24	BMWWW-t	MT20	5.0	12.0	2.50	5.50
25	BMWW-t	MT20	4.0	5.0	1.75	1.75
26	BMV1+p	MT20	2.0	4.0	2.25	1.00

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

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
26	1948	0	1948	0	0	5-8	5-8
15	1945	0	1945	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
26	1365	968 / 0	0 / 0	0 / 0	0 / 0	397 / 0	0 / 0
15	1363	966 / 0	0 / 0	0 / 0	0 / 0	396 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 26, 15

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.13 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 5-22. DBS = 4-0-0 . CBF = 71 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 6-20. DBS = 10-0-0 . CBF = 86 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 8-19. DBS = 12-0-0 . CBF = 94 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 10-19. DBS = 20-0-0 . CBF = 78 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00	25- 3	-850 / 0	0.12 (1)
2- 3	-1823 / 0	-77.3	-77.3	0.11 (1)	4.88	3-24	0 / 3080	0.69 (1)
3- 4	-4212 / 0	-77.3	-77.3	0.27 (1)	3.27	24- 4	-182 / 0	0.03 (1)
4- 5	-4212 / 0	-77.3	-77.3	0.27 (1)	3.27	24- 5	-2616 / 0	0.50 (1)
5- 6	-4162 / 0	-77.3	-77.3	0.52 (1)	3.13	23- 5	-3 / 61	0.02 (3)
6- 7	-2977 / 0	-77.3	-77.3	0.35 (1)	3.80	5-22	-2857 / 0	0.66 (1)
7- 8	-2977 / 0	-77.3	-77.3	0.35 (1)	3.80	22- 6	0 / 961	0.22 (1)
8- 9	-2144 / 0	-77.3	-77.3	0.30 (1)	4.39	6-20	-1379 / 0	0.41 (1)
9-10	-2145 / 0	-77.3	-77.3	0.35 (1)	4.34	20- 8	0 / 934	0.21 (1)
10-11	-2579 / 0	-77.3	-77.3	0.36 (1)	4.02	8-19	-1247 / 0	0.60 (1)
11-12	-2579 / 0	-77.3	-77.3	0.36 (1)	4.02	19- 9	0 / 1568	0.35 (1)
12-13	-2758 / 0	-77.3	-77.3	0.44 (1)	3.83	19-10	-624 / 0	0.31 (1)
13-14	0 / 23	-77.3	-77.3	0.10 (1)	10.00	17-10	0 / 211	0.05 (3)
26- 2	-1962 / 0	0.0	0.0	0.20 (1)	6.01	17-12	-212 / 0	0.17 (1)
15-13	-1900 / 0	0.0	0.0	0.19 (1)	6.10	16-12	-268 / 13	0.07 (1)
						2-25	0 / 1860	0.42 (1)
26-25	0 / 0	-17.5	-17.5	0.04 (1)	10.00	16-13	0 / 2510	0.56 (1)
25-24	0 / 1548	-17.5	-17.5	0.22 (1)	10.00			
24-23	0 / 6475	-17.5	-17.5	0.90 (1)	10.00			
23-22	0 / 6475	-17.5	-17.5	0.90 (1)	10.00			
22-21	0 / 3740	-17.5	-17.5	0.51 (1)	10.00			
21-20	0 / 3740	-17.5	-17.5	0.51 (1)	10.00			
20-19	0 / 2663	-17.5	-17.5	0.37 (1)	10.00			
19-18	0 / 2307	-17.5	-17.5	0.33 (1)	10.00			
18-17	0 / 2307	-17.5	-17.5	0.33 (1)	10.00			
17-16	0 / 2307	-17.5	-17.5	0.33 (1)	10.00			
16-15	0 / 0	-17.5	-17.5	0.10 (3)	10.00			

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

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.29")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.40")
ALLOWABLE DEFL.(TL)= L/360 (1.29")
CALCULATED VERT. DEFL.(TL) = L/ 653 (0.71")

CSI: TC=0.52 (5-6:1) , BC=0.90 (22-23:1) , WB=0.69 (3-24:1) , SSI=0.18 (12-13:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

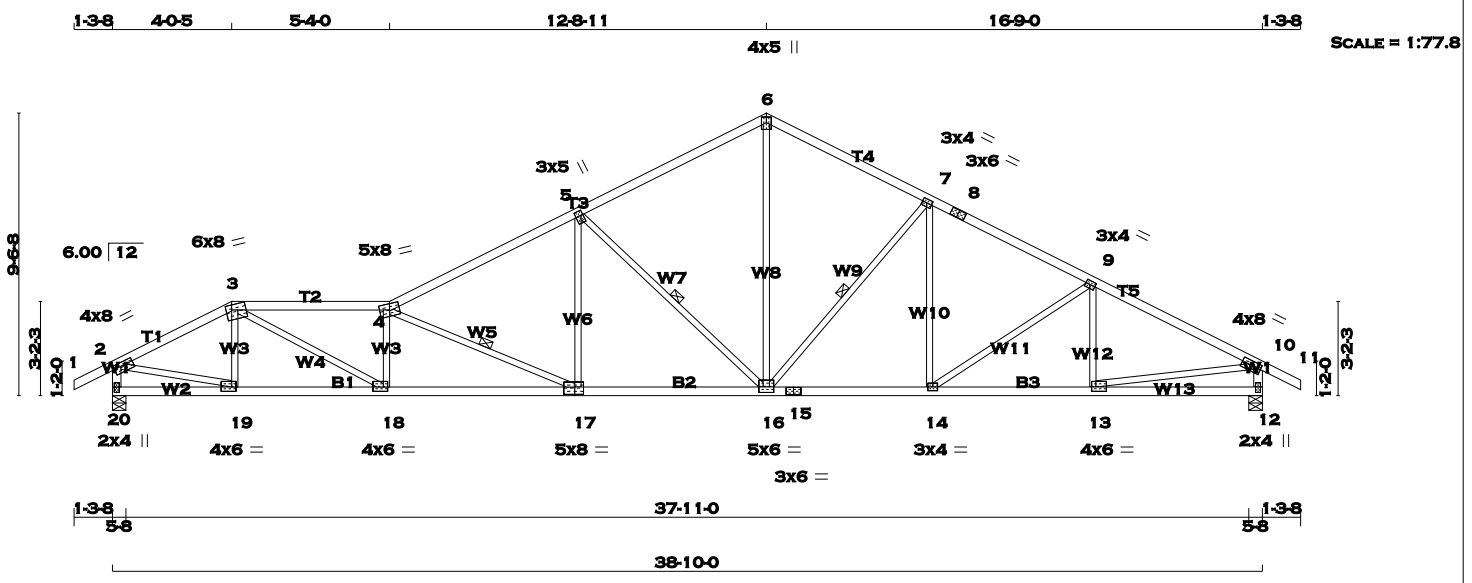
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (20) (INPUT = 0.90)
JSI METAL= 0.96 (21) (INPUT = 1.00)

KOTT

CONTINUED ON PAGE 2



TOTAL WEIGHT = 159 lb
[M][F]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 8	2x4	DRY	No.2	SPF
8 - 11	2x4	DRY	No.2	SPF
20 - 2	2x4	DRY	No.2	SPF
12 - 10	2x4	DRY	No.2	SPF
20 - 17	2x4	DRY	No.2	SPF
17 - 15	2x4	DRY	No.2	SPF
15 - 12	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	8.0	1.50	3.00
3	TTWW-m	MT20	6.0	8.0	2.00	2.25
4	TTWW-m	MT20	5.0	8.0		
5	TMWW+t	MT20	3.0	5.0	2.00	0.75
6	TTW+p	MT20	4.0	5.0	2.25	2.00
7	TMWW-t	MT20	3.0	4.0	1.50	1.75
8	TS-t	MT20	3.0	6.0		
9	TMWW-t	MT20	3.0	4.0	1.50	1.75
10	TMVW-t	MT20	4.0	8.0	1.75	3.00
12	BMV1+p	MT20	2.0	4.0	2.25	1.00
13, 18, 19						
13	BMWW-t	MT20	4.0	6.0	1.75	1.75
14	BMWW-t	MT20	3.0	4.0		
15	BS-t	MT20	3.0	6.0		
16	BMWWW-t	MT20	5.0	6.0	2.25	3.00
17	BSWW-l	MT20	5.0	8.0	3.00	3.50
20	BMV1+p	MT20	2.0	4.0	2.25	1.00

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
20	1947	0	1947	0	0	5-8	5-8
12	1947	0	1947	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
20	1364	967 / 0	0 / 0	0 / 0	0 / 0	396 / 0	0 / 0
12	1364	967 / 0	0 / 0	0 / 0	0 / 0	396 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.89 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 4-17. DBS = 8-0-0 . CBF = 89 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 5-16. DBS = 10-0-0 . CBF = 87 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 7-16. DBS = 20-0-0 . CBF = 78 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00
2- 3	-2616 / 0	-77.3	-77.3	0.25 (1)	4.08
3- 4	-4497 / 0	-77.3	-77.3	0.58 (1)	2.89
4- 5	-3236 / 0	-77.3	-77.3	0.64 (1)	3.37
5- 6	-2157 / 0	-77.3	-77.3	0.51 (1)	4.14
6- 7	-2149 / 0	-77.3	-77.3	0.35 (1)	4.34
7- 8	-2583 / 0	-77.3	-77.3	0.36 (1)	4.02
8- 9	-2583 / 0	-77.3	-77.3	0.36 (1)	4.02
9-10	-2761 / 0	-77.3	-77.3	0.44 (1)	3.83
10-11	0 / 23	-77.3	-77.3	0.10 (1)	10.00
20- 2	-1920 / 0	0.0	0.0	0.19 (1)	6.07
12-10	-1902 / 0	0.0	0.0	0.19 (1)	6.09
20-19	0 / 0	-17.5	-17.5	0.08 (3)	10.00
19-18	0 / 2324	-17.5	-17.5	0.43 (1)	10.00
18-17	0 / 4538	-17.5	-17.5	0.82 (1)	10.00
17-16	0 / 2919	-17.5	-17.5	0.55 (1)	10.00
16-15	0 / 2310	-17.5	-17.5	0.44 (1)	10.00
15-14	0 / 2310	-17.5	-17.5	0.44 (1)	10.00
14-13	0 / 2485	-17.5	-17.5	0.45 (1)	10.00
13-12	0 / 0	-17.5	-17.5	0.12 (3)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
19- 3	-385 / 0	0.07 (1)
3-18	0 / 2481	0.56 (1)
18- 4	-1117 / 0	0.21 (1)
4-17	-1776 / 0	0.60 (1)
17- 5	0 / 857	0.19 (1)
5-16	-1399 / 0	0.74 (1)
16- 6	0 / 1546	0.35 (1)
16- 7	-623 / 0	0.31 (1)
14- 7	0 / 211	0.05 (3)
14- 9	-212 / 0	0.17 (1)
13- 9	-268 / 13	0.07 (1)
2-19	0 / 2388	0.54 (1)
13-10	0 / 2513	0.57 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.29")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.31")
ALLOWABLE DEFL.(TL)= L/360 (1.29")
CALCULATED VERT. DEFL.(TL) = L/ 832 (0.56")

CSI: TC=0.64 (4-5:1) , BC=0.82 (17-18:1) , WB=0.74 (5-16:1) , SSI=0.21 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

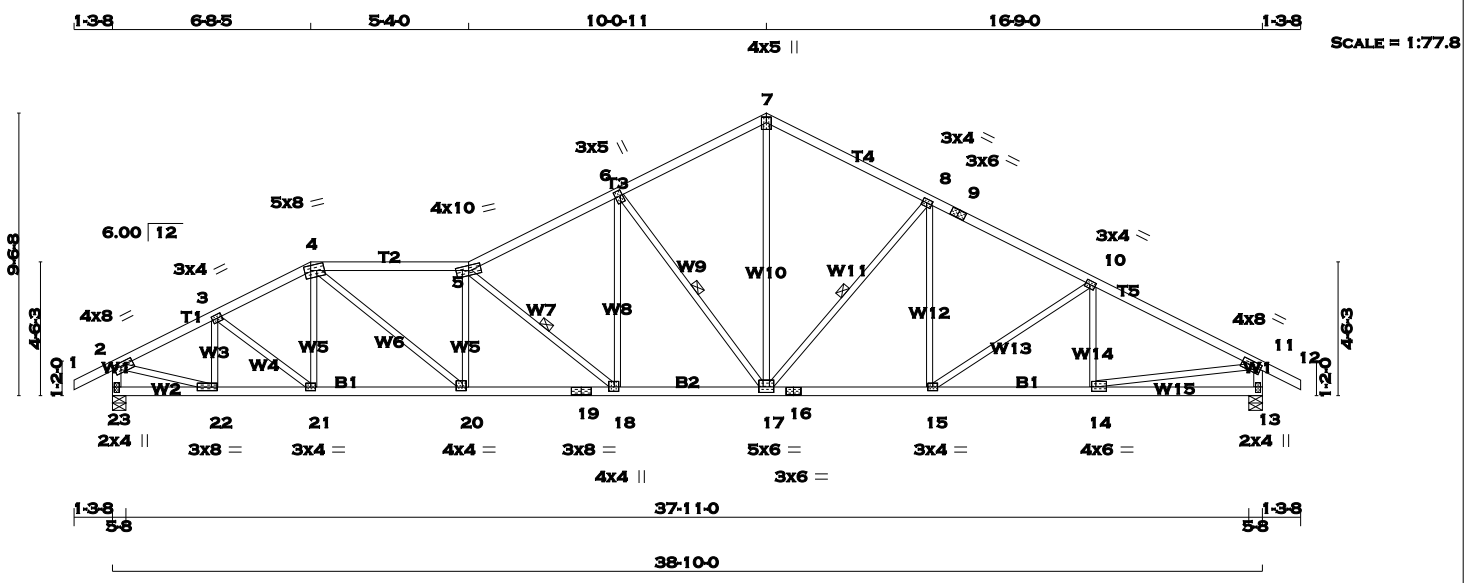
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (19) (INPUT = 0.90)
JSI METAL= 0.93 (17) (INPUT = 1.00)

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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

KOTT



TOTAL WEIGHT = 166 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
7 - 9	2x4	DRY	No.2	SPF
9 - 12	2x4	DRY	No.2	SPF
23 - 2	2x4	DRY	No.2	SPF
13 - 11	2x4	DRY	No.2	SPF
23 - 19	2x4	DRY	No.2	SPF
19 - 16	2x4	DRY	No.2	SPF
16 - 13	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 3, 8, 10	TMVW-t	MT20	4.0	8.0	1.50	3.00
3	TMWW-t	MT20	3.0	4.0	1.50	1.75
4	TTWW-m	MT20	5.0	8.0	2.00	2.50
5	TTWW-m	MT20	4.0	10.0		
6	TMWW+t	MT20	3.0	5.0	2.25	0.75
7	TTW+p	MT20	4.0	5.0	2.25	2.00
9	TS-t	MT20	3.0	6.0		
11	TMVW-t	MT20	4.0	8.0	1.75	3.00
13	BMV1+p	MT20	2.0	4.0	2.25	1.00
14	BMWW-t	MT20	4.0	6.0	1.75	1.75
15	BMWW-t	MT20	3.0	4.0		
16	BS-t	MT20	3.0	6.0		
17	BMWWW-t	MT20	5.0	6.0	2.25	3.00
18	BMWW+t	MT20	4.0	4.0	1.75	1.75
19	BS-t	MT20	3.0	8.0		
20	BMWW-t	MT20	4.0	4.0	1.50	1.50
21	BMWW-t	MT20	3.0	4.0		
22	BMWW-t	MT20	3.0	8.0	1.50	2.25
23	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

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
23	1947	0	1947	0	0	5-8	5-8
13	1947	0	1947	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
23	1364	967 / 0	0 / 0	0 / 0	0 / 0	396 / 0	0 / 0
13	1364	967 / 0	0 / 0	0 / 0	0 / 0	396 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 23, 13

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.33 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 5-18, 6-17. DBS = 10-0-0 . CBF = 79 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 8-17. DBS = 20-0-0 . CBF = 78 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC	MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	0 / 23	-77.3	-77.3	0.10 (1)		10.00
2- 3	-2522 / 0	-77.3	-77.3	0.18 (1)		4.22
3- 4	-2734 / 0	-77.3	-77.3	0.17 (1)		4.08
4- 5	-3608 / 0	-77.3	-77.3	0.48 (1)		3.33
5- 6	-2950 / 0	-77.3	-77.3	0.38 (1)		3.77
6- 7	-2150 / 0	-77.3	-77.3	0.31 (1)		4.37
7- 8	-2148 / 0	-77.3	-77.3	0.35 (1)		4.34
8- 9	-2583 / 0	-77.3	-77.3	0.36 (1)		4.02
9-10	-2583 / 0	-77.3	-77.3	0.36 (1)		4.02
10-11	-2761 / 0	-77.3	-77.3	0.44 (1)		3.83
11-12	0 / 23	-77.3	-77.3	0.10 (1)		10.00
23- 2	-1911 / 0	0.0	0.0	0.19 (1)		6.08
13-11	-1902 / 0	0.0	0.0	0.19 (1)		6.09
23-22	0 / 0	-17.5	-17.5	0.05 (3)		10.00
22-21	0 / 2264	-17.5	-17.5	0.42 (1)		10.00
21-20	0 / 2432	-17.5	-17.5	0.45 (1)		10.00
20-19	0 / 3630	-17.5	-17.5	0.64 (1)		10.00
19-18	0 / 3630	-17.5	-17.5	0.64 (1)		10.00
18-17	0 / 2659	-17.5	-17.5	0.49 (1)		10.00
17-16	0 / 2310	-17.5	-17.5	0.44 (1)		10.00
16-15	0 / 2310	-17.5	-17.5	0.44 (1)		10.00
15-14	0 / 2485	-17.5	-17.5	0.45 (1)		10.00
14-13	0 / 0	-17.5	-17.5	0.12 (3)		10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
22- 3	-526 / 0	0.09 (1)
3-21	0 / 213	0.05 (1)
21- 4	-33 / 46	0.02 (3)
4-20	0 / 1510	0.34 (1)
20- 5	-867 / 0	0.26 (1)
5-18	-1267 / 0	0.38 (1)
18- 6	0 / 900	0.20 (1)
6-17	-1258 / 0	0.60 (1)
17- 7	0 / 1583	0.36 (1)
17- 8	-625 / 0	0.31 (1)
15- 8	0 / 212	0.05 (3)
15-10	-211 / 0	0.17 (1)
14-10	-269 / 13	0.07 (1)
2-22	0 / 2333	0.53 (1)
14-11	0 / 2513	0.57 (1)

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

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.29")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.24")
ALLOWABLE DEFL.(TL)= L/360 (1.29")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.43")

CSI: TC=0.48 (4-5:1) , BC=0.64 (18-20:1) , WB=0.60 (6-17:1) , SSI=0.18 (10-11:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

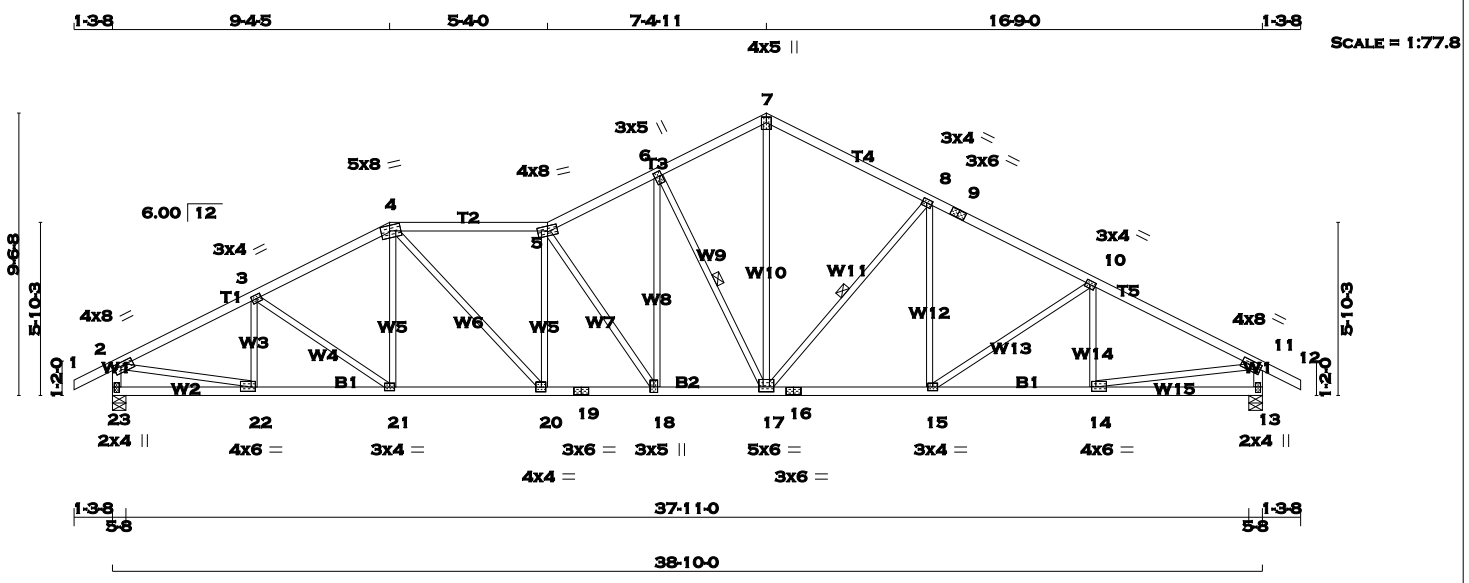
PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (20) (INPUT = 0.90)
JSI METAL= 0.95 (19) (INPUT = 1.00)

KOTT



TOTAL WEIGHT = 172 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
7 - 9	2x4	DRY	No.2	SPF
9 - 12	2x4	DRY	No.2	SPF
23 - 2	2x4	DRY	No.2	SPF
13 - 11	2x4	DRY	No.2	SPF
23 - 19	2x4	DRY	No.2	SPF
19 - 16	2x4	DRY	No.2	SPF
16 - 13	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	8.0	1.50	3.00
3, 8, 10						
3	TMWW-t	MT20	3.0	4.0	1.50	1.75
4	TTWW-m	MT20	5.0	8.0	2.25	3.50
5	TTWW-m	MT20	4.0	8.0		
6	TMWW+t	MT20	3.0	5.0	2.00	0.75
7	TTW+p	MT20	4.0	5.0	2.25	2.00
9	TS-t	MT20	3.0	6.0		
11	TMVW-t	MT20	4.0	8.0	1.75	3.00
13	BMV1+p	MT20	2.0	4.0	2.25	1.00
14	BMWW-t	MT20	4.0	6.0	1.75	1.75
15	BMWW-t	MT20	3.0	4.0		
16	BS-t	MT20	3.0	6.0		
17	BMWWW-t	MT20	5.0	6.0	2.00	3.00
18	BMWW+t	MT20	3.0	5.0	2.25	1.50
19	BS-t	MT20	3.0	6.0		
20	BMWW-t	MT20	4.0	4.0	2.00	1.75
21	BMWW-t	MT20	3.0	4.0		
22	BMWW-t	MT20	4.0	6.0	1.75	1.75
23	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

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
23	1947	0	1947	0	0	5-8	5-8
13	1947	0	1947	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
23	1364	967 / 0	0 / 0	0 / 0	0 / 0	396 / 0	0 / 0
13	1364	967 / 0	0 / 0	0 / 0	0 / 0	396 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 23, 13

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.67 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 6-17. DBS = 12-0-0 . CBF = 88 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 8-17. DBS = 20-0-0 . CBF = 78 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00
2- 3	-2706 / 0	-77.3	-77.3	0.31 (1)	3.98
3- 4	-2663 / 0	-77.3	-77.3	0.29 (1)	4.02
4- 5	-3023 / 0	-77.3	-77.3	0.42 (1)	3.67
5- 6	-2698 / 0	-77.3	-77.3	0.21 (1)	4.07
6- 7	-2144 / 0	-77.3	-77.3	0.17 (1)	4.52
7- 8	-2148 / 0	-77.3	-77.3	0.35 (1)	4.34
8- 9	-2583 / 0	-77.3	-77.3	0.36 (1)	4.02
9-10	-2583 / 0	-77.3	-77.3	0.36 (1)	4.02
10-11	-2761 / 0	-77.3	-77.3	0.44 (1)	3.83
11-12	0 / 23	-77.3	-77.3	0.10 (1)	10.00
23- 2	-1906 / 0	0.0	0.0	0.19 (1)	6.09
13-11	-1902 / 0	0.0	0.0	0.19 (1)	6.09
23-22	0 / 0	-17.5	-17.5	0.08 (3)	10.00
22-21	0 / 2436	-17.5	-17.5	0.45 (1)	10.00
21-20	0 / 2367	-17.5	-17.5	0.44 (1)	10.00
20-19	0 / 3034	-17.5	-17.5	0.53 (1)	10.00
19-18	0 / 3034	-17.5	-17.5	0.53 (1)	10.00
18-17	0 / 2428	-17.5	-17.5	0.46 (1)	10.00
17-16	0 / 2310	-17.5	-17.5	0.44 (1)	10.00
16-15	0 / 2310	-17.5	-17.5	0.44 (1)	10.00
15-14	0 / 2485	-17.5	-17.5	0.45 (1)	10.00
14-13	0 / 0	-17.5	-17.5	0.12 (3)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
22- 3	-359 / 0	0.08 (1)
3-21	-87 / 0	0.05 (1)
21- 4	0 / 148	0.04 (3)
4-20	0 / 956	0.22 (1)
20- 5	-616 / 0	0.32 (1)
5-18	-1095 / 0	0.89 (1)
18- 6	0 / 953	0.21 (1)
6-17	-1167 / 0	0.54 (1)
17- 7	0 / 1620	0.36 (1)
17- 8	-624 / 0	0.31 (1)
15- 8	0 / 212	0.05 (3)
15-10	-212 / 0	0.17 (1)
14-10	-268 / 13	0.07 (1)
2-22	0 / 2475	0.56 (1)
14-11	0 / 2513	0.57 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.29")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.22")
ALLOWABLE DEFL.(TL)= L/360 (1.29")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.39")

CSI: TC=0.44 (10-11:1) , BC=0.53 (18-20:1) , WB=0.89 (5-18:1) , SSI=0.18 (10-11:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

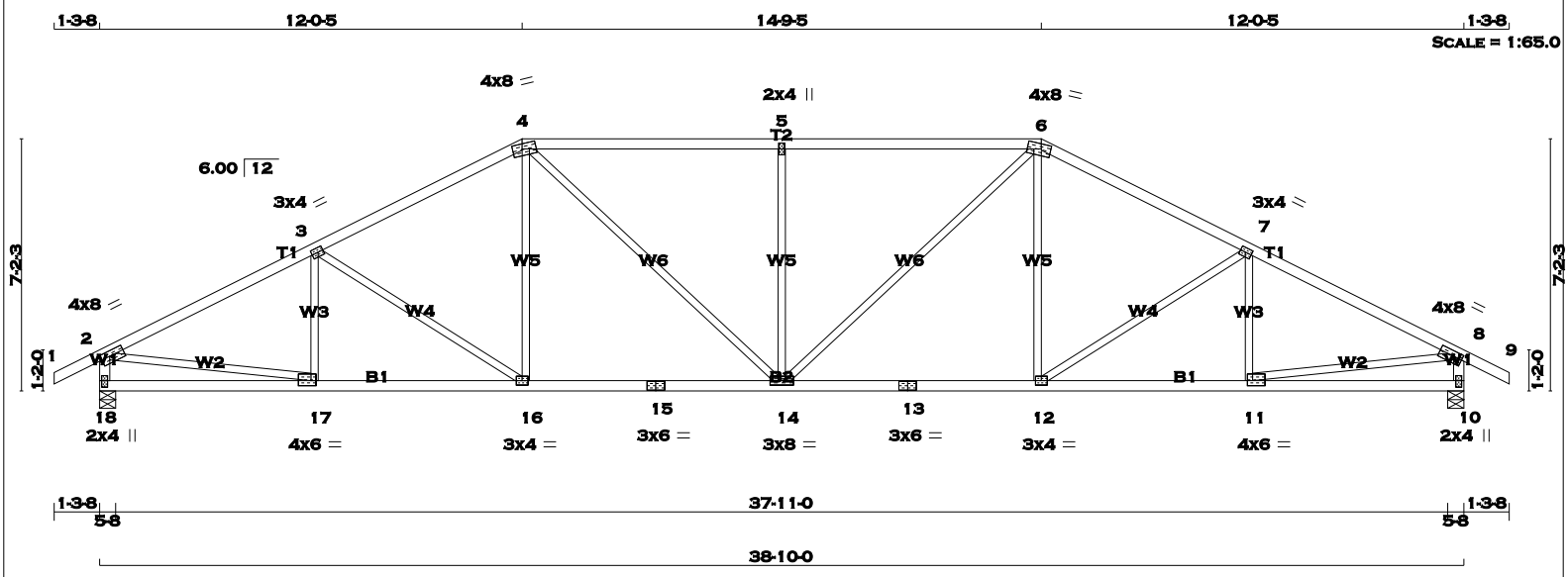
JSI GRIP= 0.90 (5) (INPUT = 0.90)
JSI METAL= 0.80 (19) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
R.M. TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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

KOTT



TOTAL WEIGHT = 155 lb [M][F]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 9	2x4	DRY	No.2	SPF
18 - 2	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF
18 - 15	2x4	DRY	No.2	SPF
15 - 13	2x4	DRY	No.2	SPF
13 - 10	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	8.0	1.75	3.00
3	TMWW-t	MT20	3.0	4.0	1.50	1.75
4	TTWW-m	MT20	4.0	8.0	1.75	3.25
5	TMW+w	MT20	2.0	4.0		
6	TTWW-m	MT20	4.0	8.0	1.75	3.25
7	TMWW-t	MT20	3.0	4.0	1.50	1.75
8	TMVW-t	MT20	4.0	8.0	1.75	3.00
10	BMV1+p	MT20	2.0	4.0	2.25	1.00
11	BMWW-t	MT20	4.0	6.0	1.75	1.75
12	BMWW-t	MT20	3.0	4.0		
13	BS-t	MT20	3.0	6.0		
14	BMWWW-t	MT20	3.0	8.0		
15	BS-t	MT20	3.0	6.0		
16	BMWW-t	MT20	3.0	4.0		
17	BMWW-t	MT20	4.0	6.0	1.75	1.75
18	BMV1+p	MT20	2.0	4.0	2.25	1.00

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
18	1947	0	1947	0	0	5-8	5-8
10	1947	0	1947	0	0	5-8	5-8

UNFACTORED REACTIONS

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

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.47 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00
2- 3	-2789 / 0	-77.3	-77.3	0.52 (1)	3.73
3- 4	-2517 / 0	-77.3	-77.3	0.47 (1)	3.93
4- 5	-2680 / 0	-77.3	-77.3	0.73 (1)	3.47
5- 6	-2680 / 0	-77.3	-77.3	0.73 (1)	3.47
6- 7	-2517 / 0	-77.3	-77.3	0.47 (1)	3.93
7- 8	-2789 / 0	-77.3	-77.3	0.52 (1)	3.73
8- 9	0 / 23	-77.3	-77.3	0.10 (1)	10.00
18- 2	-1899 / 0	0.0	0.0	0.19 (1)	6.10
10- 8	-1899 / 0	0.0	0.0	0.19 (1)	6.10
18-17	0 / 0	-17.5	-17.5	0.14 (3)	10.00
17-16	0 / 2515	-17.5	-17.5	0.49 (1)	10.00
16-15	0 / 2233	-17.5	-17.5	0.46 (1)	10.00
15-14	0 / 2233	-17.5	-17.5	0.46 (1)	10.00
14-13	0 / 2233	-17.5	-17.5	0.46 (1)	10.00
13-12	0 / 2233	-17.5	-17.5	0.46 (1)	10.00
12-11	0 / 2515	-17.5	-17.5	0.49 (1)	10.00
11-10	0 / 0	-17.5	-17.5	0.14 (3)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
17- 3	-246 / 25	0.07 (1)
3-16	-343 / 0	0.34 (1)
16- 4	0 / 308	0.07 (1)
4-14	0 / 611	0.14 (1)
14- 5	-704 / 0	0.63 (1)
14- 6	0 / 611	0.14 (1)
12- 6	0 / 308	0.07 (1)
12- 7	-343 / 0	0.34 (1)
11- 7	-246 / 25	0.07 (1)
2-17	0 / 2540	0.57 (1)
11- 8	0 / 2540	0.57 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.29")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.18")
ALLOWABLE DEFL.(TL)= L/360 (1.29")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.33")

CSI: TC=0.73 (4-5:1) , BC=0.49 (11-12:1) , WB=0.63 (5-14:1) , SSI=0.28 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (8) (INPUT = 0.90)
JSI METAL= 0.66 (13) (INPUT = 1.00)

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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KOTT

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Mon Mar 13 10:23:20 2017 Page 1
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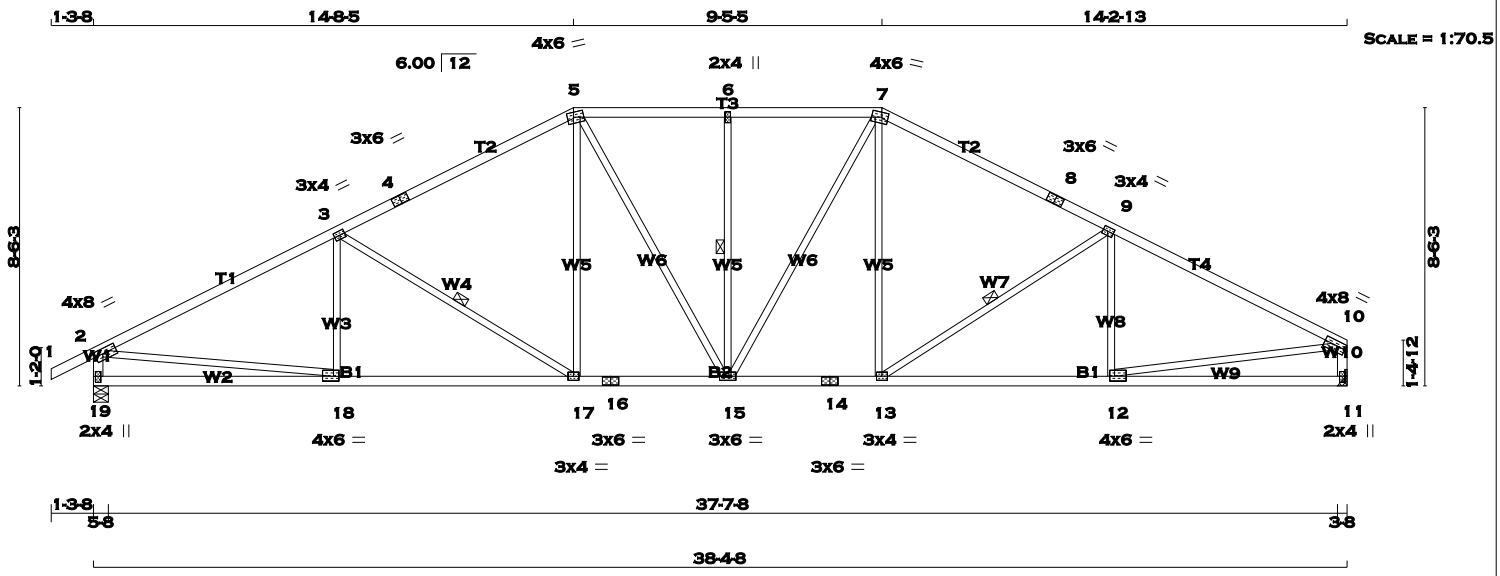


TOTAL WEIGHT = 161 lb [M][F]

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
7 - 8	2x4	DRY	No.2	SPF
8 - 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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	8.0	1.75	3.00
3	TMWW-t	MT20	3.0	4.0	1.50	1.75
4	TS-t	MT20	3.0	6.0		
5	TTWW-m	MT20	4.0	6.0	1.75	2.25
6	TMW+w	MT20	2.0	4.0		
7	TTWW-m	MT20	4.0	6.0	1.75	2.25
8	TS-t	MT20	3.0	6.0		
9	TMWW-t	MT20	3.0	4.0	1.50	1.75
10	TMVW-t	MT20	4.0	8.0	1.75	Edge
11	BMV1+p	MT20	2.0	4.0	2.25	1.00
12	BMWW-t	MT20	4.0	6.0	1.75	1.75
13	BMWW-t	MT20	3.0	4.0		
14	BS-t	MT20	3.0	6.0		
15	BMWWW-t	MT20	3.0	6.0		
16	BS-t	MT20	3.0	6.0		
17	BMWW-t	MT20	3.0	4.0		
18	BMWW-t	MT20	4.0	6.0	1.75	2.00
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.

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
19	1925	0	1925	0	0	5-8	5-8
11	1820	0	1820	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 3-8	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	SNOW	MAX./MIN. COMPONENT REACTIONS LIVE	PERM.LIVE	WIND	DEAD	SOIL
19	1349	957 / 0	0 / 0	0 / 0	0 / 0	392 / 0	0 / 0
11	1277	893 / 0	0 / 0	0 / 0	0 / 0	384 / 0	0 / 0

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

BRACING

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

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 3-17, 6-15, 9-13. DBS = 20-0-0 . CBF = 74 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FROM	FACTORED VERT. LOAD LC1 (PLF) TO	MAX CSI (LC)	WEBS MAX. UNBRAC LENGTH	MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00	18- 3	-146 / 82	0.05 (1)
2- 3	-2777 / 0	-77.3	-77.3	0.82 (1)	3.39	3-17	-589 / 0	0.30 (1)
3- 4	-2281 / 0	-77.3	-77.3	0.71 (1)	3.79	17- 5	0 / 423	0.10 (1)
4- 5	-2281 / 0	-77.3	-77.3	0.71 (1)	3.79	5-15	0 / 266	0.06 (1)
5- 6	-2149 / 0	-77.3	-77.3	0.27 (1)	4.40	15- 6	-443 / 0	0.20 (1)
6- 7	-2149 / 0	-77.3	-77.3	0.27 (1)	4.40	15- 7	0 / 317	0.07 (1)
7- 8	-2252 / 0	-77.3	-77.3	0.65 (1)	3.88	13- 7	0 / 373	0.08 (1)
8- 9	-2252 / 0	-77.3	-77.3	0.65 (1)	3.88	13- 9	-480 / 0	0.24 (1)
9-10	-2640 / 0	-77.3	-77.3	0.74 (1)	3.56	12- 9	-220 / 56	0.08 (1)
19- 2	-1870 / 0	0.0	0.0	0.19 (1)	6.13	2-18	0 / 2528	0.57 (1)
11-10	-1767 / 0	0.0	0.0	0.18 (1)	6.27	12-10	0 / 2414	0.54 (1)
19-18	0 / 0	-17.5	-17.5	0.23 (3)	10.00			
18-17	0 / 2511	-17.5	-17.5	0.51 (1)	10.00			
17-16	0 / 2017	-17.5	-17.5	0.40 (1)	10.00			
16-15	0 / 2017	-17.5	-17.5	0.40 (1)	10.00			
15-14	0 / 1991	-17.5	-17.5	0.39 (1)	10.00			
14-13	0 / 1991	-17.5	-17.5	0.39 (1)	10.00			
13-12	0 / 2388	-17.5	-17.5	0.49 (1)	10.00			
12-11	0 / 0	-17.5	-17.5	0.22 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.28")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.15")
ALLOWABLE DEFL.(TL)= L/360 (1.28")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.29")

CSI: TC=0.82 (2-3:1) , BC=0.51 (17-18:1) , WB=0.57 (2-18:1) , SSI=0.25 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

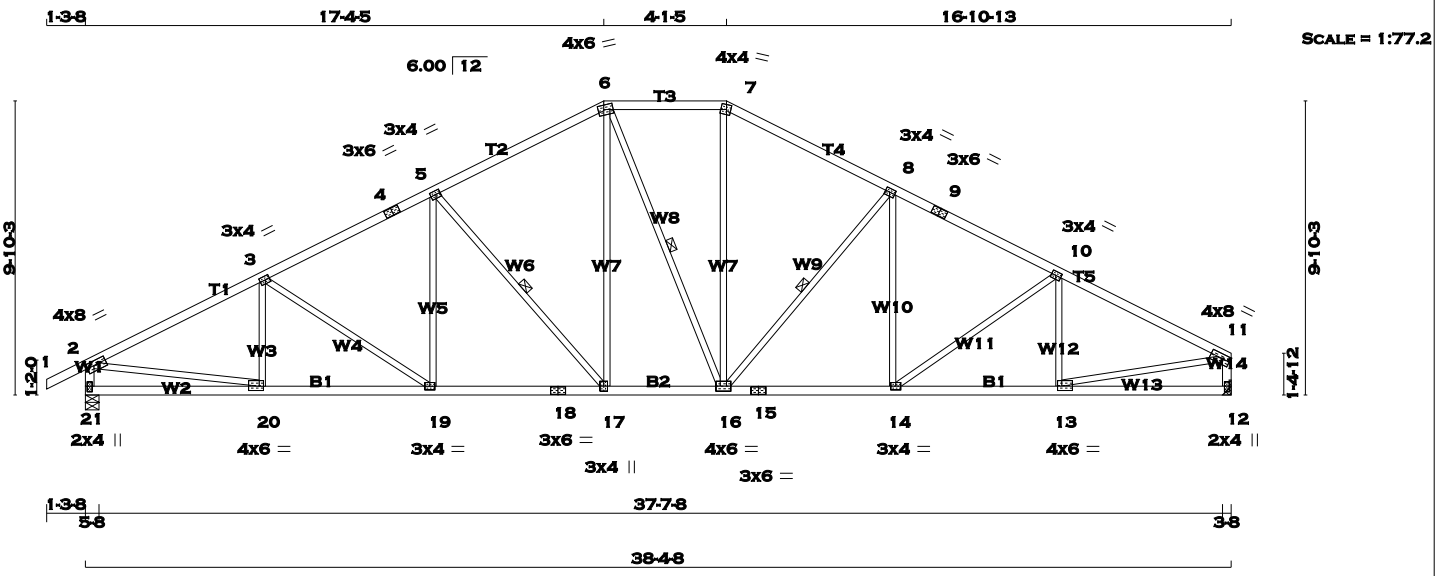
JSI GRIP= 0.90 (18) (INPUT = 0.90)
JSI METAL= 0.63 (18) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
RAY TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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

KOTT



TOTAL WEIGHT = 169 lb
[M][F]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 7	2x4	DRY	No.2	SPF
7 - 9	2x4	DRY	No.2	SPF
9 - 11	2x4	DRY	No.2	SPF
21 - 2	2x4	DRY	No.2	SPF
12 - 11	2x4	DRY	No.2	SPF
21 - 18	2x4	DRY	No.2	SPF
18 - 15	2x4	DRY	No.2	SPF
15 - 12	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
21	1925	0	1925	0	0	5-8	5-8
12	1820	0	1820	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 3-8	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	SNOW	MAX./MIN. COMPONENT REACTIONS LIVE	PERM.LIVE	WIND	DEAD	SOIL
21	1349	957 / 0	0 / 0	0 / 0	0 / 0	392 / 0	0 / 0
12	1277	893 / 0	0 / 0	0 / 0	0 / 0	384 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.81 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 5-17, 6-16, 8-16. DBS = 20-0-0 . 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00
2- 3	-2732 / 0	-77.3	-77.3	0.47 (1)	3.81
3- 4	-2519 / 0	-77.3	-77.3	0.39 (1)	4.05
4- 5	-2519 / 0	-77.3	-77.3	0.39 (1)	4.05
5- 6	-2043 / 0	-77.3	-77.3	0.37 (1)	4.41
6- 7	-1808 / 0	-77.3	-77.3	0.21 (1)	4.79
7- 8	-2034 / 0	-77.3	-77.3	0.35 (1)	4.44
8- 9	-2450 / 0	-77.3	-77.3	0.36 (1)	4.11
9-10	-2450 / 0	-77.3	-77.3	0.36 (1)	4.11
10-11	-2569 / 0	-77.3	-77.3	0.43 (1)	3.96
21- 2	-1879 / 0	0.0	0.0	0.19 (1)	6.12
12-11	-1776 / 0	0.0	0.0	0.18 (1)	6.26
21-20	0 / 0	-17.5	-17.5	0.13 (3)	10.00
20-19	0 / 2460	-17.5	-17.5	0.45 (1)	10.00
19-18	0 / 2253	-17.5	-17.5	0.42 (1)	10.00
18-17	0 / 2253	-17.5	-17.5	0.42 (1)	10.00
17-16	0 / 1816	-17.5	-17.5	0.35 (1)	10.00
16-15	0 / 2191	-17.5	-17.5	0.41 (1)	10.00
15-14	0 / 2191	-17.5	-17.5	0.41 (1)	10.00
14-13	0 / 2314	-17.5	-17.5	0.42 (1)	10.00
13-12	0 / 0	-17.5	-17.5	0.12 (3)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
20- 3	-249 / 21	0.06 (1)
3-19	-249 / 0	0.22 (1)
19- 5	0 / 243	0.05 (1)
5-17	-675 / 0	0.37 (1)
17- 6	0 / 589	0.13 (1)
6-16	-21 / 0	0.02 (1)
16- 7	0 / 571	0.13 (1)
16- 8	-607 / 0	0.32 (1)
8-16	0 / 185	0.05 (3)
14-10	-151 / 0	0.13 (1)
13-10	-330 / 0	0.09 (1)
2-20	0 / 2485	0.56 (1)
13-11	0 / 2355	0.53 (1)

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MAR 29, 2017
17-5001
BUILDING DIVISION

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DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.28")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.15")
ALLOWABLE DEFL.(TL)= L/360 (1.28")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.28")

CSI: TC=0.47 (2-3:1) , BC=0.45 (19-20:1) , WB=0.56 (2-20:1) , 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

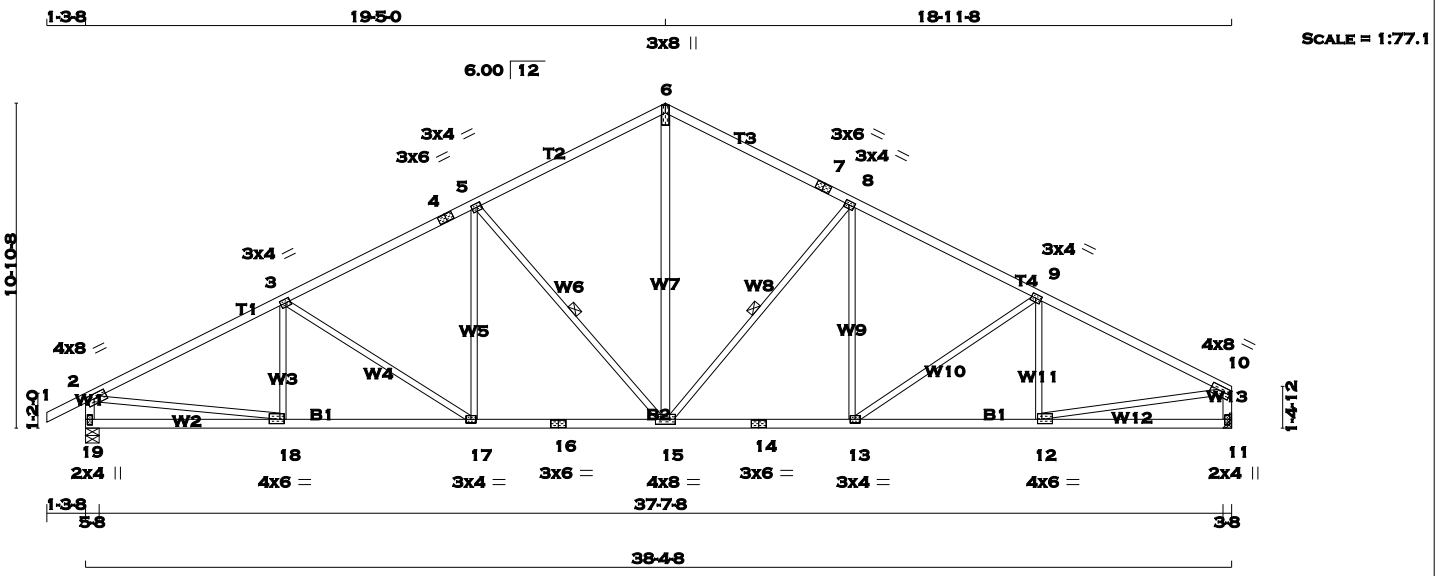
PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (7) (INPUT = 0.90)
JSI METAL= 0.62 (18) (INPUT = 1.00)

KOTT



TOTAL WEIGHT = 6 X 164 = 982 lb [M][F]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 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, 9						
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	8.0	Edge	
7	TS-t	MT20	3.0	6.0		
10	TMVW-t	MT20	4.0	8.0	1.75	Edge
11	BMV1+p	MT20	2.0	4.0	2.25	1.00
12	BMWW-t	MT20	4.0	6.0	1.75	1.75
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	6.0	1.75	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.

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
19	1925	0	1925	0	0	5-8	5-8
11	1820	0	1820	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 3-8	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	SNOW	MAX./MIN. COMPONENT REACTIONS LIVE	PERM.LIVE	WIND	DEAD	SOIL
19	1349	957 / 0	0 / 0	0 / 0	0 / 0	392 / 0	0 / 0
11	1277	893 / 0	0 / 0	0 / 0	0 / 0	384 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.69 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 5-15. DBS = 18-0-0 . CBF = 88 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 8-15. DBS = 20-0-0 . CBF = 91 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"X3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

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

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF) FROM	TO	MAX CSI (LC)	WEBS MAX. UNBRAC LENGTH	MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00	18- 3	-199 / 48	0.06 (1)
2- 3	-2751 / 0	-77.3	-77.3	0.60 (1)	3.69	3-17	-365 / 0	0.43 (1)
3- 4	-2430 / 0	-77.3	-77.3	0.48 (1)	4.02	17- 5	0 / 308	0.07 (1)
4- 5	-2430 / 0	-77.3	-77.3	0.48 (1)	4.02	5-15	-785 / 0	0.53 (1)
5- 6	-1875 / 0	-77.3	-77.3	0.46 (1)	4.46	15- 6	0 / 1264	0.20 (1)
6- 7	-1875 / 0	-77.3	-77.3	0.43 (1)	4.49	15- 8	-724 / 0	0.49 (1)
7- 8	-1875 / 0	-77.3	-77.3	0.43 (1)	4.49	13- 8	0 / 258	0.06 (1)
8- 9	-2375 / 0	-77.3	-77.3	0.45 (1)	4.08	13- 9	-270 / 0	0.31 (1)
9-10	-2603 / 0	-77.3	-77.3	0.55 (1)	3.82	12- 9	-274 / 24	0.09 (1)
19- 2	-1875 / 0	0.0	0.0	0.19 (1)	6.13	2-18	0 / 2500	0.56 (1)
11-10	-1772 / 0	0.0	0.0	0.18 (1)	6.27	12-10	0 / 2379	0.54 (1)
19-18	0 / 0	-17.5	-17.5	0.17 (3)	10.00			
18-17	0 / 2480	-17.5	-17.5	0.47 (1)	10.00			
17-16	0 / 2174	-17.5	-17.5	0.44 (1)	10.00			
16-15	0 / 2174	-17.5	-17.5	0.44 (1)	10.00			
15-14	0 / 2124	-17.5	-17.5	0.43 (1)	10.00			
14-13	0 / 2124	-17.5	-17.5	0.43 (1)	10.00			
13-12	0 / 2346	-17.5	-17.5	0.45 (1)	10.00			
12-11	0 / 0	-17.5	-17.5	0.16 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.28")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.16")
ALLOWABLE DEFL.(TL)= L/360 (1.28")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.29")

CSI: TC=0.60 (2-3:1) , BC=0.47 (17-18:1) , WB=0.56 (2-18:1) , 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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (5) (INPUT = 0.90)
JSI METAL= 0.62 (18) (INPUT = 1.00)

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MAR 29, 2017
17-5001
BUILDING DIVISION

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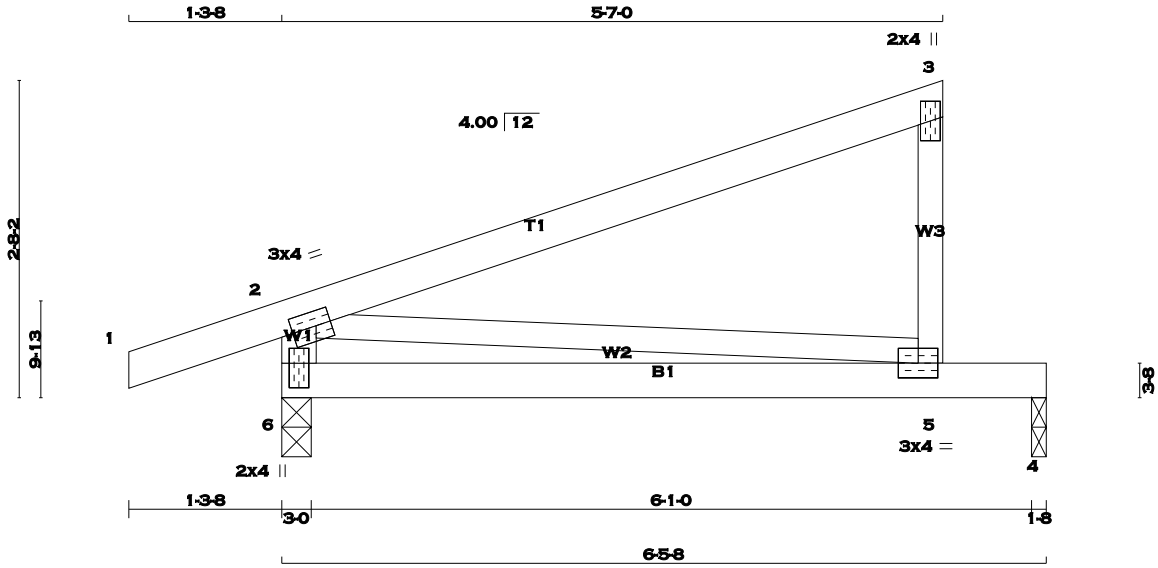
KOTT



SCALE = 1:19.5

TOTAL WEIGHT = 6 X 22 = 132 lb

[M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
5 - 3	2x3	DRY	No.2	SPF
6 - 2	2x4	DRY	No.2	SPF
6 - 4	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

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

BEARINGS

	FACTORED 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	SOIL
6	282	210 / 0	0 / 0	0 / 0	0 / 0	72 / 0	0 / 0
4	172	112 / 0	0 / 0	0 / 0	0 / 0	60 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC	MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 16	-77.3	-77.3	0.10 (1)		10.00	2- 5	0 / 0	0.00 (1)
2- 3	0 / 0	-77.3	-77.3	0.41 (1)		10.00			
5- 3	-216 / 0	0.0	0.0	0.04 (1)		7.81			
6- 2	-319 / 0	0.0	0.0	0.03 (1)		7.81			
6- 5	0 / 0	-17.5	-17.5	0.29 (1)		10.00			
5- 4	0 / 0	-17.5	-17.5	0.28 (1)		10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.22")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (0.22")
CALCULATED VERT. DEFL.(TL) = L/ 444 (0.17")

CSI: TC=0.41 (2-3:1) , BC=0.29 (5-6:1) , WB=0.00 (2-5:1) , SSI=0.19 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI)		SHEAR (PLI)		SECTION (PLI)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

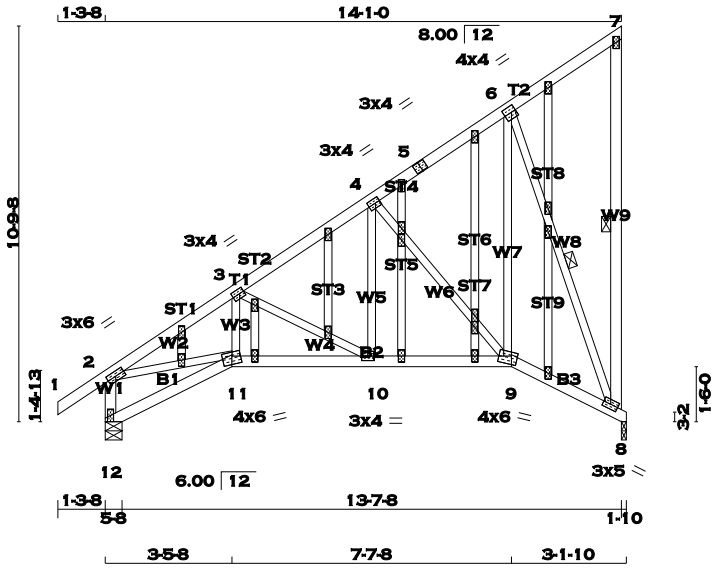
JSI GRIP= 0.29 (2) (INPUT = 0.90)
JSI METAL= 0.06 (6) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
R.M. TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT



SCALE = 1:62.9

TOTAL WEIGHT = 98 lb

[M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 5	2x4	DRY	No.2	SPF
5 - 7	2x4	DRY	No.2	SPF
8 - 7	2x4	DRY	No.2	SPF
12 - 2	2x4	DRY	No.2	SPF
12 - 11	2x4	DRY	No.2	SPF
11 - 9	2x4	DRY	No.2	SPF
9 - 8	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
ALL GABLE WEBS	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	6.0		
3	TMWW-t	MT20	3.0	4.0	1.50	1.50
4	TMWW-t	MT20	3.0	4.0	1.50	1.50
5	TS-t	MT20	3.0	4.0		
6	TMWW-t	MT20	4.0	4.0	2.00	1.50
7	TMV+p	MT20	2.0	4.0		
8	BMVW1-t	MT20	3.0	5.0		
9	BBWW-m	MT20	4.0	6.0	2.75	2.00
10	BMWW-t	MT20	3.0	4.0		
11	BBWW-m	MT20	4.0	6.0	2.75	2.75
12	BMV1+p	MT20	2.0	4.0		
13, 14, 15, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27						
13	NP+w	MT20	2.0	4.0		
18	NP+w	MT20	2.0	4.0	2.00	1.00
21	NP+w	MT20	2.0	4.0	2.00	1.00

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG	REQRD BRG
12	774	0	774	0	0	IN-SX 5-8	IN-SX 5-8
8	668	0	668	0	0	1-10	1-10

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
12	541	392 / 0	0 / 0	0 / 0	0 / 0	149 / 0	0 / 0
8	469	328 / 0	0 / 0	0 / 0	0 / 0	141 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 12, 8

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.82 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 7-8, 6-8. DBS = 20-0-0 . CBF = 90 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"X3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FORCE (LBS)	FACTORED MAX CSI (LC)
1- 2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	11- 3	0 / 179	0.04 (1)
2- 3	-1146 / 0	-77.3	-77.3	0.12 (1)	5.82	3-10	-452 / 0	0.13 (1)
3- 4	-667 / 0	-77.3	-77.3	0.09 (1)	6.25	10- 4	0 / 287	0.06 (1)
4- 5	-289 / 0	-77.3	-77.3	0.09 (1)	6.25	4- 9	-480 / 0	0.27 (1)
5- 6	-289 / 0	-77.3	-77.3	0.09 (1)	6.25	9- 6	0 / 542	0.12 (1)
6- 7	-15 / 0	-77.3	-77.3	0.09 (1)	6.25	6- 8	-718 / 0	0.38 (1)
8- 7	-92 / 0	0.0	0.0	0.05 (1)	6.25	2-11	0 / 972	0.22 (1)
12- 2	-744 / 0	0.0	0.0	0.08 (1)	7.81			
12-11	0 / 0	-17.5	-17.5	0.06 (3)	10.00			
11-10	0 / 955	-17.5	-17.5	0.19 (1)	10.00			
10- 9	0 / 555	-17.5	-17.5	0.12 (1)	10.00			
9- 8	0 / 278	-17.5	-17.5	0.07 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	33.3	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.47")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.47")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.05")

CSI: TC=0.12 (2-3:1) , BC=0.19 (10-11:1) , WB=0.38 (6-8:1) , SSI=0.10 (2-3:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE RIGHT HEEL ONLY

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI)		SHEAR (PLI)		SECTION (PLI)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (8) (INPUT = 0.90)
JSI METAL= 0.32 (2) (INPUT = 1.00)

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BUILDING DIVISION

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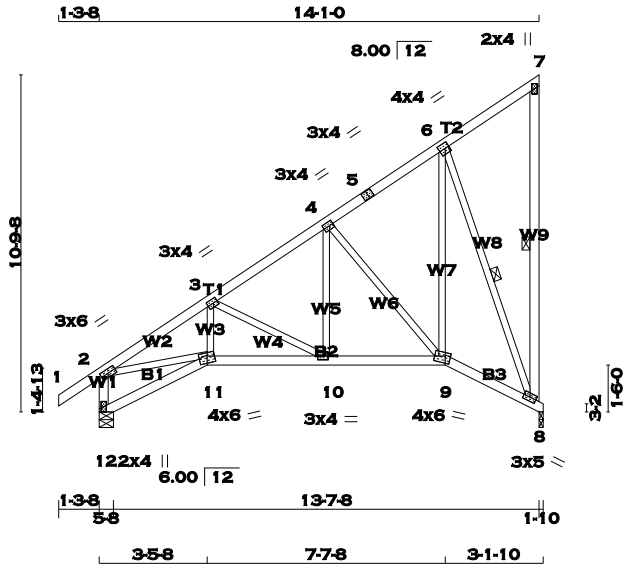
KOTT



SCALE = 1:73.8

TOTAL WEIGHT = 79 lb

[M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 5	2x4	DRY	No.2	SPF
5 - 7	2x4	DRY	No.2	SPF
8 - 7	2x4	DRY	No.2	SPF
12 - 2	2x4	DRY	No.2	SPF
12 - 11	2x4	DRY	No.2	SPF
11 - 9	2x4	DRY	No.2	SPF
9 - 8	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	6.0		
3	TMWW-t	MT20	3.0	4.0	1.50	1.50
4	TMWW-t	MT20	3.0	4.0	1.50	1.50
5	TS-t	MT20	3.0	4.0		
6	TMWW-t	MT20	4.0	4.0	2.00	1.50
7	TMV+p	MT20	2.0	4.0		
8	BMVW1-t	MT20	3.0	5.0		
9	BBWW-m	MT20	4.0	6.0	2.75	2.00
10	BMWW-t	MT20	3.0	4.0		
11	BBWW-m	MT20	4.0	6.0	2.75	2.75
12	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
12	774	0	774	0	0	5-8	5-8
8	668	0	668	0	0	1-10	1-10

UNFACTORED REACTIONS

	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
12	541	392 / 0	0 / 0	0 / 0	0 / 0	149 / 0	0 / 0
8	469	328 / 0	0 / 0	0 / 0	0 / 0	141 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 12, 8

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.82 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 7-8, 6-8. DBS = 20-0-0 . CBF = 90 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"X3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	11- 3	0 / 179	0.04 (1)
2- 3	-1146 / 0	-77.3	-77.3	0.12 (1)	5.82	3-10	-452 / 0	0.13 (1)
3- 4	-667 / 0	-77.3	-77.3	0.09 (1)	6.25	10- 4	0 / 287	0.06 (1)
4- 5	-289 / 0	-77.3	-77.3	0.09 (1)	6.25	4- 9	-480 / 0	0.27 (1)
5- 6	-289 / 0	-77.3	-77.3	0.09 (1)	6.25	9- 6	0 / 542	0.12 (1)
6- 7	-15 / 0	-77.3	-77.3	0.09 (1)	6.25	6- 8	-718 / 0	0.38 (1)
8- 7	-92 / 0	0.0	0.0	0.05 (1)	6.25	2-11	0 / 972	0.22 (1)
12- 2	-744 / 0	0.0	0.0	0.08 (1)	7.81			
12-11	0 / 0	-17.5	-17.5	0.06 (3)	10.00			
11-10	0 / 955	-17.5	-17.5	0.19 (1)	10.00			
10- 9	0 / 555	-17.5	-17.5	0.12 (1)	10.00			
9- 8	0 / 278	-17.5	-17.5	0.07 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP	CH.	LL =	23.3	PSF
		DL =	3.0	PSF
BOT	CH.	LL =	0.0	PSF
		DL =	7.0	PSF
TOTAL	LOAD	=	33.3	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.47")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.47")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.05")

CSI: TC=0.12 (2-3:1) , BC=0.19 (10-11:1) , WB=0.38 (6-8:1) , SSI=0.10 (2-3:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE RIGHT HEEL ONLY

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI)		SHEAR (PLI)		SECTION (PLI)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (8) (INPUT = 0.90)
JSI METAL= 0.32 (2) (INPUT = 1.00)

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TOWN OF MILTON
MAR 29, 2017
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BUILDING DIVISION

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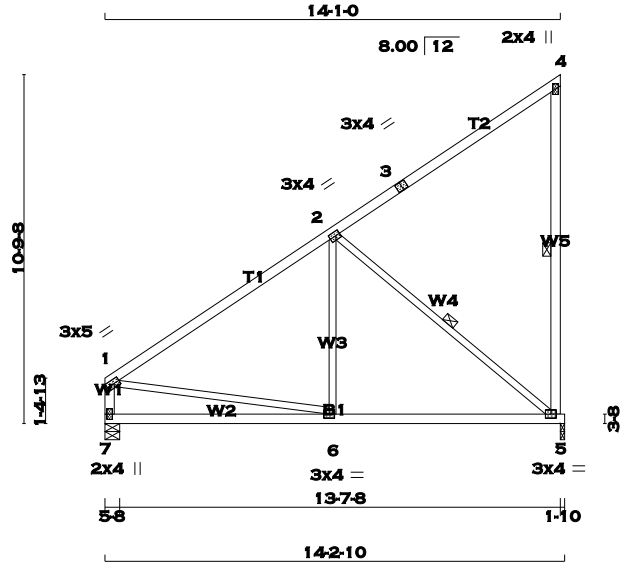
KOTT



SCALE = 1:71.3

TOTAL WEIGHT = 8 X 65 = 523 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
5 - 4	2x4	DRY	No.2	SPF
7 - 1	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
1	TMVW-t	MT20	3.0	5.0	1.50	2.00
2	TMWW-t	MT20	3.0	4.0	1.50	1.50
3	TS-t	MT20	3.0	4.0		
4	TMV+p	MT20	2.0	4.0		
5	BMVW1-t	MT20	3.0	4.0		
6	BMWW-t	MT20	3.0	4.0		
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 VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
5	668	0	668	0	0	1-10	1-10
7	668	0	668	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	469	328 / 0	0 / 0	0 / 0	0 / 0	141 / 0	0 / 0
7	469	328 / 0	0 / 0	0 / 0	0 / 0	141 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 5, 7

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 4-5, 2-5. DBS = 20-0-0 . CBF = 82 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"X3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	-572 / 0	-77.3	-77.3	0.52 (1)	6.25	6- 2	0 / 149	0.05 (3)
2- 3	-37 / 0	-77.3	-77.3	0.51 (1)	6.25	2- 5	-656 / 0	0.37 (1)
3- 4	-37 / 0	-77.3	-77.3	0.51 (1)	6.25	1- 6	0 / 513	0.12 (1)
5- 4	-205 / 0	0.0	0.0	0.12 (1)	6.25			
7- 1	-621 / 0	0.0	0.0	0.06 (1)	7.81			
7- 6	0 / 0	-17.5	-17.5	0.25 (3)	10.00			
6- 5	0 / 507	-17.5	-17.5	0.29 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	23.3	PSF
	DL =	3.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.0	PSF
TOTAL LOAD	=	33.3	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.47")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.47")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.06")

CSI: TC=0.52 (1-2:1) , BC=0.29 (5-6:3) , WB=0.37 (2-5:1) , SSI=0.22 (1-2:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (6) (INPUT = 0.90)
JSI METAL= 0.22 (1) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
RAM TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Mon Mar 13 10:23:22 2017 Page 1
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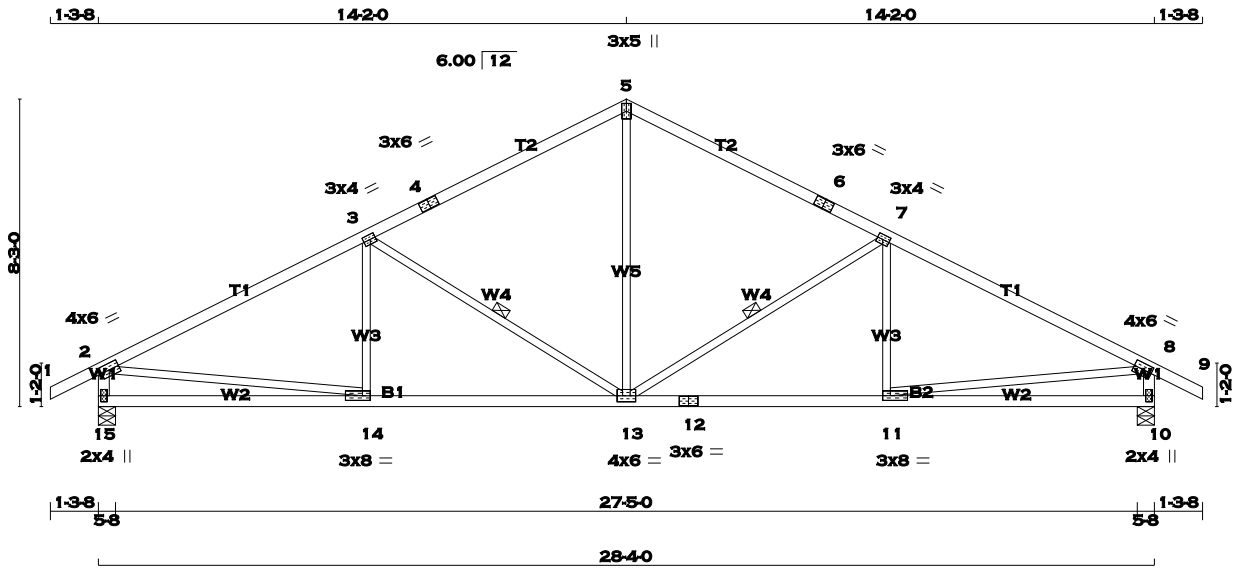


TOTAL WEIGHT = 3 X 111 = 332 lb

[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 - 6	2x4	DRY	No.2	SPF
6 - 9	2x4	DRY	No.2	SPF
15 - 2	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF
15 - 12	2x4	DRY	No.2	SPF
12 - 10	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	6.0	2.00	2.75
3	TMWW-t	MT20	3.0	4.0	1.50	1.75
4	TS-t	MT20	3.0	6.0		
5	TTW+p	MT20	3.0	5.0		
6	TS-t	MT20	3.0	6.0		
7	TMWW-t	MT20	3.0	4.0	1.50	1.75
8	TMVW-t	MT20	4.0	6.0	2.00	2.75
10	BMV1+p	MT20	2.0	4.0		
11	BMWW-t	MT20	3.0	8.0	1.50	2.50
12	BS-t	MT20	3.0	6.0		
13	BMWWW-t	MT20	4.0	6.0		
14	BMWW-t	MT20	3.0	8.0	1.50	2.50
15	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
15	1449	0	1449	0	0	5-8	5-8
10	1449	0	1449	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
15	1014	723 / 0	0 / 0	0 / 0	0 / 0	291 / 0	0 / 0
10	1014	723 / 0	0 / 0	0 / 0	0 / 0	291 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 15, 10

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 7-13, 3-13. DBS = 20-0-0 . CBF = 79 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"X3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD FROM	TO	LC1 MAX (PLF) CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00	13- 5	0 / 801	0.18 (1)
2- 3	-1917 / 0	-77.3	-77.3	0.62 (1)	4.17	13- 7	-633 / 0	0.30 (1)
3- 4	-1379 / 0	-77.3	-77.3	0.55 (1)	4.84	11- 7	-72 / 96	0.03 (3)
4- 5	-1379 / 0	-77.3	-77.3	0.55 (1)	4.84	3-13	-633 / 0	0.30 (1)
5- 6	-1379 / 0	-77.3	-77.3	0.55 (1)	4.84	14- 3	-72 / 96	0.03 (3)
6- 7	-1379 / 0	-77.3	-77.3	0.55 (1)	4.84	2-14	0 / 1753	0.39 (1)
7- 8	-1917 / 0	-77.3	-77.3	0.62 (1)	4.17	11- 8	0 / 1753	0.39 (1)
8- 9	0 / 23	-77.3	-77.3	0.10 (1)	10.00			
15- 2	-1396 / 0	0.0	0.0	0.14 (1)	6.89			
10- 8	-1396 / 0	0.0	0.0	0.14 (1)	6.89			
15-14	0 / 0	-17.5	-17.5	0.21 (3)	10.00			
14-13	0 / 1741	-17.5	-17.5	0.38 (1)	10.00			
13-12	0 / 1741	-17.5	-17.5	0.38 (1)	10.00			
12-11	0 / 1741	-17.5	-17.5	0.38 (1)	10.00			
11-10	0 / 0	-17.5	-17.5	0.21 (3)	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 (0.94")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.09")
ALLOWABLE DEFL.(TL)= L/360 (0.94")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.17")

CSI: TC=0.62 (2-3:1) , BC=0.38 (13-14:1) , WB=0.39 (2-14:1) , SSI=0.24 (2-3:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

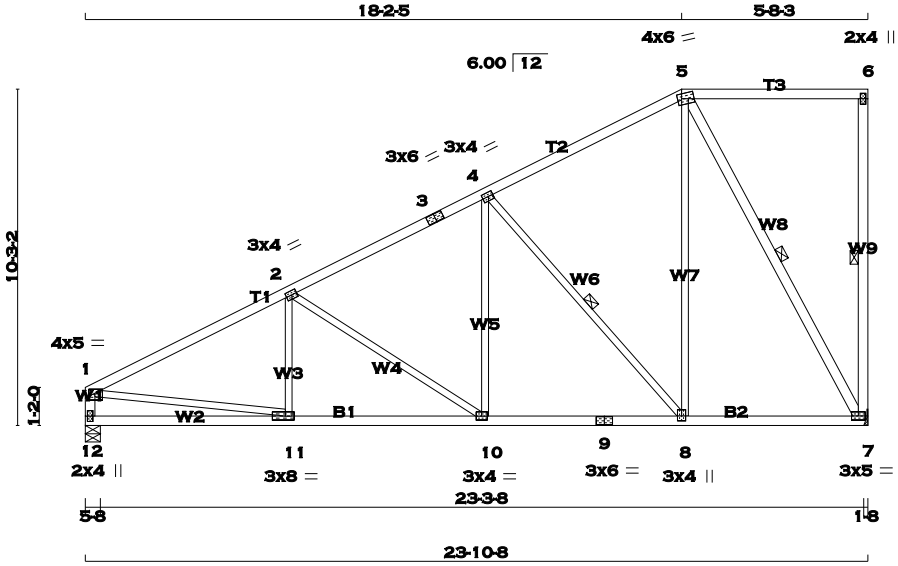
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (14) (INPUT = 0.90)
JSI METAL= 0.52 (8) (INPUT = 1.00)

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT



TOTAL WEIGHT = 115 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
5 - 6	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
12 - 1	2x4	DRY	No.2	SPF
12 - 9	2x4	DRY	No.2	SPF
9 - 7	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
5 - 7	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-p	MT20	4.0	5.0	1.50	2.25
2	TMWW-t	MT20	3.0	4.0	1.50	1.75
3	TS-t	MT20	3.0	6.0		
4	TMWW-t	MT20	3.0	4.0	1.50	1.75
5	TTWW-m	MT20	4.0	6.0	1.75	1.50
6	TMV+p	MT20	2.0	4.0		
7	BMVW1-t	MT20	3.0	5.0		
8	BMWW+t	MT20	3.0	4.0	1.75	1.50
9	BS-t	MT20	3.0	6.0		
10	BMWW-t	MT20	3.0	4.0		
11	BMWW-t	MT20	3.0	8.0	1.50	3.25
12	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
7	1132	0	1132	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 1-8	
12	1132	0	1132	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
7	795	556 / 0	0 / 0	0 / 0	0 / 0	239 / 0	0 / 0
12	795	556 / 0	0 / 0	0 / 0	0 / 0	239 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 12

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.88 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 = 20-0-0 . CBF = 27 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 4-8. DBS = 18-0-0 . CBF = 90 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 5-7. DBS = 14-0-0 . CBF = 88 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"X3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	-1542 / 0	-77.3	-77.3	0.40 (1)	4.88
2- 3	-1137 / 0	-77.3	-77.3	0.32 (1)	5.59
3- 4	-1137 / 0	-77.3	-77.3	0.32 (1)	5.59
4- 5	-570 / 0	-77.3	-77.3	0.32 (1)	6.25
5- 6	0 / 0	-77.3	-77.3	0.43 (1)	10.00
7- 6	-220 / 0	0.0	0.0	0.11 (1)	6.25
12- 1	-1087 / 0	0.0	0.0	0.11 (1)	7.58
12-11	0 / 0	-17.5	-17.5	0.15 (3)	10.00
11-10	0 / 1397	-17.5	-17.5	0.30 (1)	10.00
10- 9	0 / 1016	-17.5	-17.5	0.24 (1)	10.00
9- 8	0 / 1016	-17.5	-17.5	0.24 (1)	10.00
8- 7	0 / 499	-17.5	-17.5	0.18 (3)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
11- 2	-76 / 78	0.03 (3)
2-10	-456 / 0	0.45 (1)
10- 4	0 / 353	0.08 (1)
4- 8	-797 / 0	0.48 (1)
8- 5	0 / 714	0.16 (1)
5- 7	-1006 / 0	0.72 (1)
1-11	0 / 1410	0.32 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	33.3	PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.80")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.80")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11")

CSI: TC=0.43 (5-6:1) , BC=0.30 (10-11:1) , WB=0.72 (5-7:1) , SSI=0.20 (1-2:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

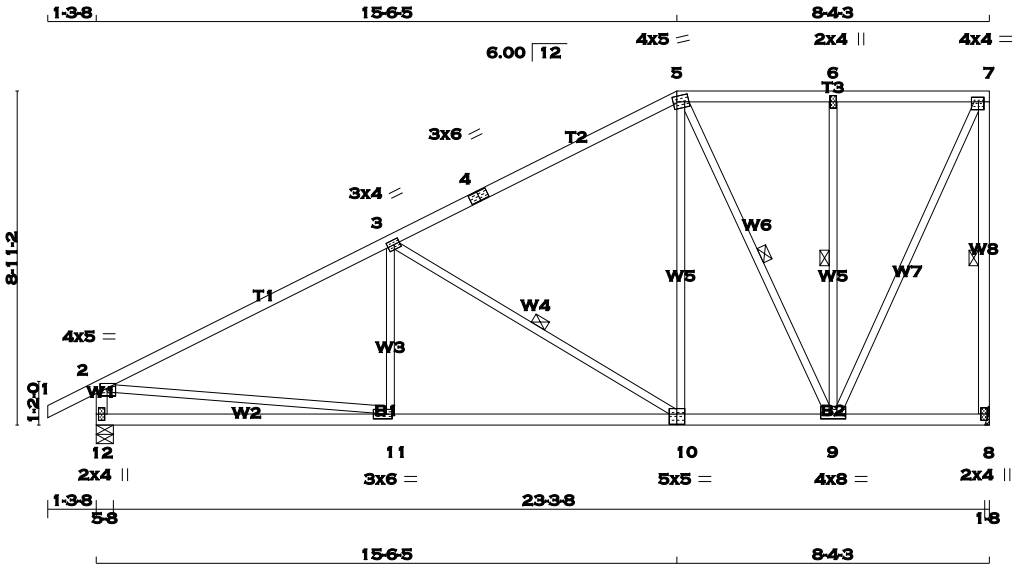
JSI GRIP= 0.89 (7) (INPUT = 0.90)
JSI METAL= 0.39 (1) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
R.M. TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT



TOTAL WEIGHT = 114 lb [M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 5	2x4	DRY	No.2	SPF
5 - 7	2x4	DRY	No.2	SPF
8 - 7	2x4	DRY	No.2	SPF
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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-p	MT20	4.0	5.0	1.50	2.25
3	TMWW-t	MT20	3.0	4.0	1.50	1.75
4	TS-t	MT20	3.0	6.0		
5	TTWW-m	MT20	4.0	5.0	1.75	1.25
6	TMW+w	MT20	2.0	4.0		
7	TMVW-t	MT20	4.0	4.0	1.50	1.75
8	BMV1+p	MT20	2.0	4.0		
9	BMWWW-t	MT20	4.0	8.0	1.50	4.00
10	BSWW-l	MT20	5.0	5.0	3.25	2.50
11	BMWW-t	MT20	3.0	6.0	1.50	1.75
12	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
8	1132	0	1132	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 1-8	
12	1237	0	1237	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
8	795	556 / 0	0 / 0	0 / 0	0 / 0	239 / 0	0 / 0
12	866	619 / 0	0 / 0	0 / 0	0 / 0	247 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 12

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.37 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 7-8. DBS = 12-0-0 . CBF = 82 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 3-10. DBS = 18-0-0 . CBF = 89 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 5-9, 6-9. DBS = 20-0-0 . CBF = 71 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00
2- 3	-1519 / 0	-77.3	-77.3	0.72 (1)	4.37
3- 4	-831 / 0	-77.3	-77.3	0.64 (1)	5.63
4- 5	-831 / 0	-77.3	-77.3	0.64 (1)	5.63
5- 6	-472 / 0	-77.3	-77.3	0.17 (1)	6.25
6- 7	-472 / 0	-77.3	-77.3	0.17 (1)	6.25
8- 7	-1100 / 0	0.0	0.0	0.40 (1)	6.04
12- 2	-1182 / 0	0.0	0.0	0.12 (1)	7.34
12-11	0 / 0	-17.5	-17.5	0.27 (3)	10.00
11-10	0 / 1387	-17.5	-17.5	0.37 (3)	10.00
10- 9	0 / 719	-17.5	-17.5	0.19 (1)	10.00
9- 8	0 / 0	-17.5	-17.5	0.06 (3)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
11- 3	0 / 134	0.05 (3)
3-10	-792 / 0	0.46 (1)
10- 5	0 / 523	0.12 (1)
5- 9	-569 / 0	0.37 (1)
9- 6	-397 / 0	0.20 (1)
9- 7	0 / 1084	0.24 (1)
2-11	0 / 1395	0.31 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	33.3	PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.80")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.80")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.14")

CSI: TC=0.72 (2-3:1) , BC=0.37 (10-11:3) , WB=0.46 (3-10:1) , SSI=0.26 (2-3:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

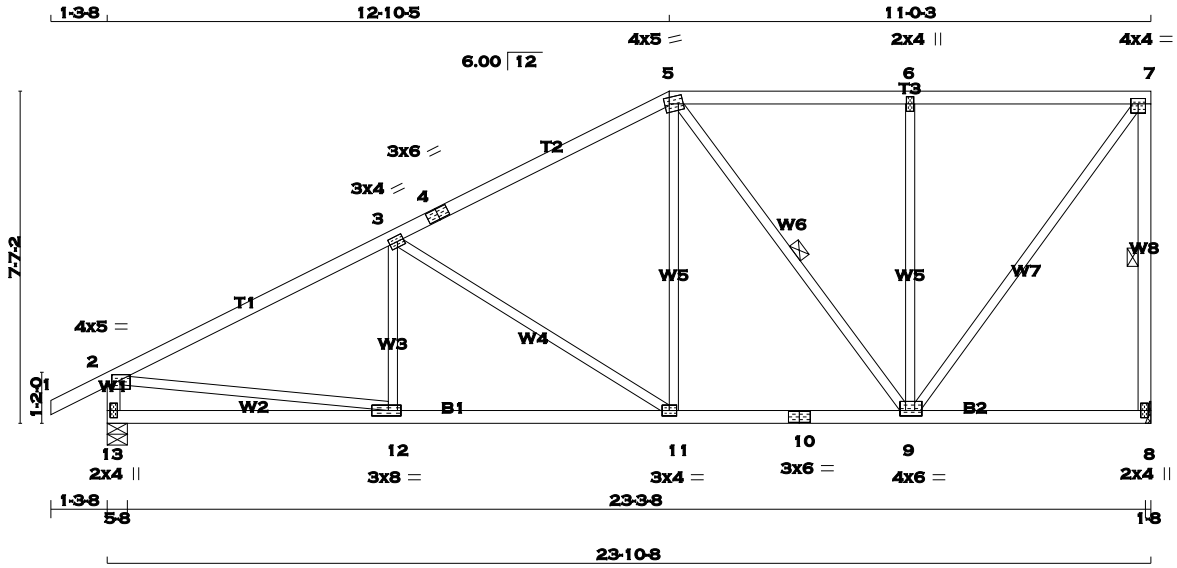
JSI GRIP= 0.90 (11) (INPUT = 0.90)
JSI METAL= 0.40 (2) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
R.M. TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT



TOTAL WEIGHT = 107 lb [M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 5	2x4	DRY	No.2	SPF
5 - 7	2x4	DRY	No.2	SPF
8 - 7	2x4	DRY	No.2	SPF
13 - 2	2x4	DRY	No.2	SPF
13 - 10	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-p	MT20	4.0	5.0	1.50	2.25
3	TMWW-t	MT20	3.0	4.0	1.50	1.75
4	TS-t	MT20	3.0	6.0		
5	TTWW-m	MT20	4.0	5.0	1.75	1.25
6	TMW+w	MT20	2.0	4.0		
7	TMVW-t	MT20	4.0	4.0	1.50	2.00
8	BMV1+p	MT20	2.0	4.0		
9	BMWWW-t	MT20	4.0	6.0	1.50	1.50
10	BS-t	MT20	3.0	6.0		
11	BMWW-t	MT20	3.0	4.0		
12	BMWW-t	MT20	3.0	8.0	1.50	3.50
13	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
8	1132	0	1132	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 1-8	
13	1237	0	1237	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
8	795	556 / 0	0 / 0	0 / 0	0 / 0	239 / 0	0 / 0
13	866	619 / 0	0 / 0	0 / 0	0 / 0	247 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 13

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.75 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 7-8. DBS = 12-0-0 . CBF = 82 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 5-9. DBS = 20-0-0 . CBF = 47 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"X3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00	12- 3	-59 / 91	0.03 (3)
2- 3	-1552 / 0	-77.3	-77.3	0.47 (1)	4.75	3-11	-582 / 0	0.69 (1)
3- 4	-1058 / 0	-77.3	-77.3	0.43 (1)	5.56	11- 5	0 / 415	0.09 (1)
4- 5	-1058 / 0	-77.3	-77.3	0.43 (1)	5.56	5- 9	-375 / 0	0.21 (1)
5- 6	-702 / 0	-77.3	-77.3	0.30 (1)	6.25	9- 6	-528 / 0	0.56 (1)
6- 7	-702 / 0	-77.3	-77.3	0.30 (1)	6.25	9- 7	0 / 1166	0.26 (1)
8- 7	-1092 / 0	0.0	0.0	0.28 (1)	6.05	2-12	0 / 1424	0.32 (1)
13- 2	-1190 / 0	0.0	0.0	0.12 (1)	7.32			
13-12	0 / 0	-17.5	-17.5	0.18 (3)	10.00			
12-11	0 / 1411	-17.5	-17.5	0.31 (1)	10.00			
11-10	0 / 928	-17.5	-17.5	0.21 (1)	10.00			
10- 9	0 / 928	-17.5	-17.5	0.21 (1)	10.00			
9- 8	0 / 0	-17.5	-17.5	0.12 (3)	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 (0.80")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.80")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11")

CSI: TC=0.47 (2-3:1) , BC=0.31 (11-12:1) , WB=0.69 (3-11:1) , SSI=0.22 (2-3:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

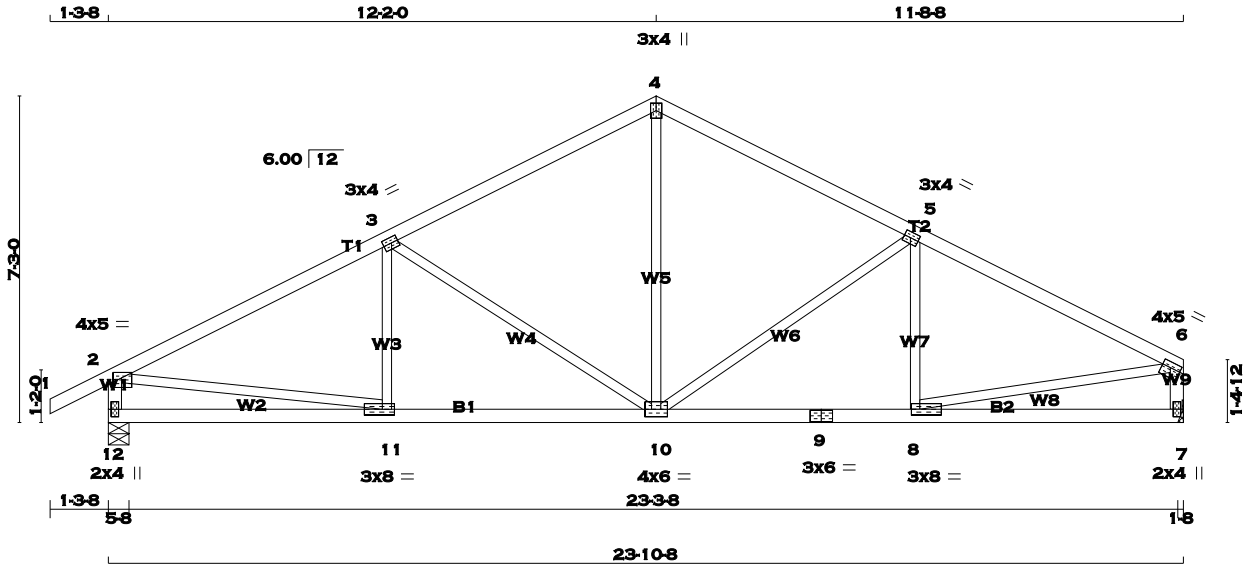
JSI GRIP= 0.90 (7) (INPUT = 0.90)
JSI METAL= 0.40 (2) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
R.M. TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT



TOTAL WEIGHT = 2 X 93 = 187 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
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-p	MT20	4.0	5.0	1.50	2.25
3	TMWW-t	MT20	3.0	4.0	1.50	1.75
4	TTW+p	MT20	3.0	4.0		
5	TMWW-t	MT20	3.0	4.0	1.50	1.75
6	TMVW-t	MT20	4.0	5.0	1.50	2.25
7	BMV1+p	MT20	2.0	4.0		
8	BMWW-t	MT20	3.0	8.0	1.50	2.25
9	BS-t	MT20	3.0	6.0		
10	BMWWW-t	MT20	4.0	6.0		
11	BMWW-t	MT20	3.0	8.0	1.50	3.25
12	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
12	1237	0	1237	0	0	5-8	5-8
7	1132	0	1132	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 1-8	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
12	866	619 / 0	0 / 0	0 / 0	0 / 0	247 / 0	0 / 0
7	795	556 / 0	0 / 0	0 / 0	0 / 0	239 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 12

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.83 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00	11- 3	-80 / 78	0.03 (3)
2- 3	-1555 / 0	-77.3	-77.3	0.42 (1)	4.83	3-10	-519 / 0	0.51 (1)
3- 4	-1121 / 0	-77.3	-77.3	0.38 (1)	5.51	10- 4	0 / 638	0.14 (1)
4- 5	-1120 / 0	-77.3	-77.3	0.36 (1)	5.56	10- 5	-434 / 0	0.41 (1)
5- 6	-1468 / 0	-77.3	-77.3	0.38 (1)	4.99	8- 5	-133 / 58	0.04 (1)
12- 2	-1191 / 0	0.0	0.0	0.12 (1)	7.32	2-11	0 / 1426	0.32 (1)
7- 6	-1088 / 0	0.0	0.0	0.11 (1)	7.58	8- 6	0 / 1357	0.31 (1)
12-11	0 / 0	-17.5	-17.5	0.15 (3)	10.00			
11-10	0 / 1413	-17.5	-17.5	0.30 (1)	10.00			
10- 9	0 / 1334	-17.5	-17.5	0.28 (1)	10.00			
9- 8	0 / 1334	-17.5	-17.5	0.28 (1)	10.00			
8- 7	0 / 0	-17.5	-17.5	0.14 (3)	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 (0.80")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.80")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11")

CSI: TC=0.42 (2-3:1) , BC=0.30 (10-11:1) , WB=0.51 (3-10:1) , SSI=0.21 (2-3:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

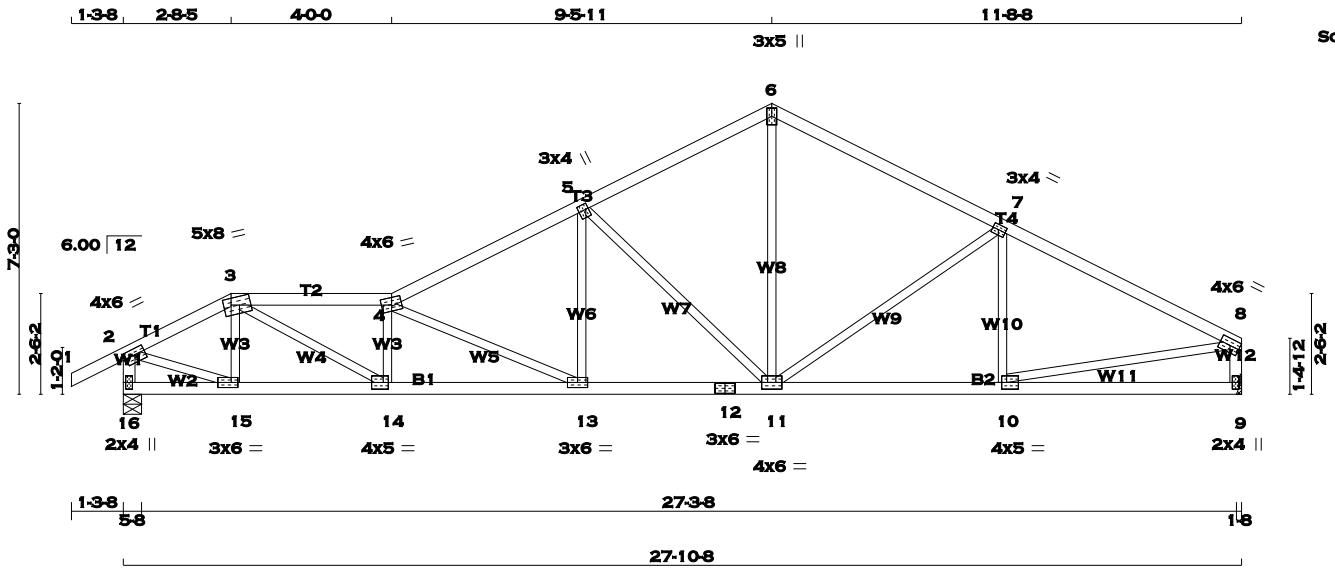
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (8) (INPUT = 0.90)
JSI METAL= 0.47 (6) (INPUT = 1.00)

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT



TOTAL WEIGHT = 111 lb
[M][F]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 8	2x4	DRY	No.2	SPF
16 - 2	2x4	DRY	No.2	SPF
9 - 8	2x4	DRY	No.2	SPF
16 - 12	2x4	DRY	No.2	SPF
12 - 9	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	6.0	1.75	3.00
3	TTWW-m	MT20	5.0	8.0	2.00	2.25
4	TTWW-m	MT20	4.0	6.0	2.25	3.00
5	TMWW+t	MT20	3.0	4.0	1.75	0.75
6	TTW+p	MT20	3.0	5.0		
7	TMWW-t	MT20	3.0	4.0	1.50	1.75
8	TMVW-t	MT20	4.0	6.0		Edge
9	BMV1+p	MT20	2.0	4.0		
10	BMWW-t	MT20	4.0	5.0	2.00	1.50
11	BMWWW-t	MT20	4.0	6.0		
12	BS-t	MT20	3.0	6.0		
13	BMWW-t	MT20	3.0	6.0		
14	BMWW-t	MT20	4.0	5.0	2.00	1.50
15	BMWW-t	MT20	3.0	6.0	1.50	2.00
16	BMV1+p	MT20	2.0	4.0		

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
16	1427	0	1427	0	0	5-8	5-8
9	1322	0	1322	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 1-8	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	SNOW	MAX./MIN. COMPONENT REACTIONS LIVE	PERM.LIVE	WIND	DEAD	SOIL
16	999	712 / 0	0 / 0	0 / 0	0 / 0	287 / 0	0 / 0
9	928	649 / 0	0 / 0	0 / 0	0 / 0	279 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 16

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.83 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF) FROM	TO	MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00
2- 3	-1662 / 0	-77.3	-77.3	0.10 (1)	5.07
3- 4	-2988 / 0	-77.3	-77.3	0.26 (1)	3.83
4- 5	-2216 / 0	-77.3	-77.3	0.29 (1)	4.34
5- 6	-1472 / 0	-77.3	-77.3	0.24 (1)	5.15
6- 7	-1477 / 0	-77.3	-77.3	0.37 (1)	4.99
7- 8	-1778 / 0	-77.3	-77.3	0.40 (1)	4.61
16- 2	-1412 / 0	0.0	0.0	0.14 (1)	6.86
9- 8	-1278 / 0	0.0	0.0	0.13 (1)	7.13
16-15	0 / 0	-17.5	-17.5	0.04 (3)	10.00
15-14	0 / 1467	-17.5	-17.5	0.28 (1)	10.00
14-13	0 / 3027	-17.5	-17.5	0.56 (1)	10.00
13-12	0 / 2000	-17.5	-17.5	0.38 (1)	10.00
12-11	0 / 2000	-17.5	-17.5	0.38 (1)	10.00
11-10	0 / 1611	-17.5	-17.5	0.32 (1)	10.00
10- 9	0 / 0	-17.5	-17.5	0.14 (3)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
15- 3	-376 / 0	0.06 (1)
3-14	0 / 1749	0.39 (1)
14- 4	-814 / 0	0.13 (1)
4-13	-1132 / 0	0.53 (1)
13- 5	0 / 572	0.13 (1)
5-11	-975 / 0	0.77 (1)
11- 6	0 / 991	0.22 (1)
11- 7	-383 / 0	0.36 (1)
10- 7	-182 / 44	0.05 (1)
2-15	0 / 1553	0.35 (1)
10- 8	0 / 1638	0.37 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	33.3	PSF

SPACING = 24.0 IN. C/C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.93")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.14")
ALLOWABLE DEFL.(TL)= L/360 (0.93")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.26")

CSI: TC=0.40 (7-8:1) , BC=0.56 (13-14:1) , WB=0.77 (5-11:1) , SSI=0.20 (7-8:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

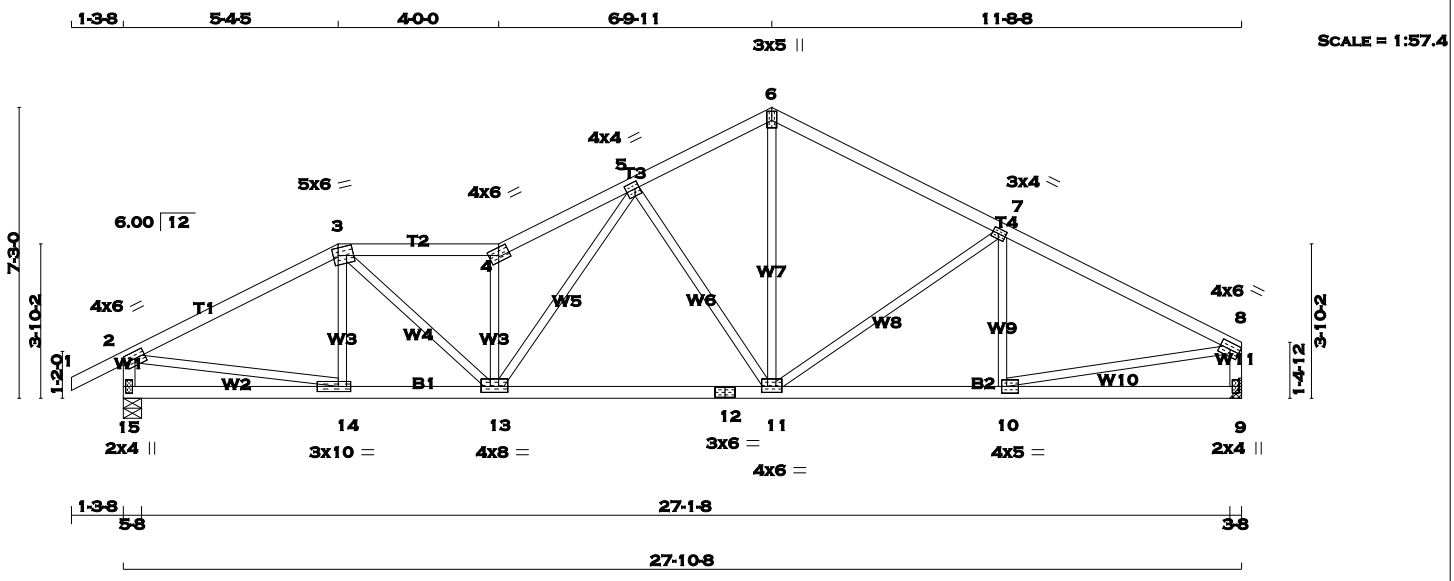
JSI GRIP= 0.89 (10) (INPUT = 0.90)
JSI METAL= 0.49 (12) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
RAM TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT



TOTAL WEIGHT = 112 lb
[M][F]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 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 EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	6.0	2.00	3.00
3	TTWW-m	MT20	5.0	6.0	2.25	1.50
4	TTW-h	MT20	4.0	6.0	2.25	3.25
5	TMWW-t	MT20	4.0	4.0	2.00	1.25
6	TTW+p	MT20	3.0	5.0	2.75	1.50
7	TMWW-t	MT20	3.0	4.0	1.50	1.75
8	TMVW-t	MT20	4.0	6.0		Edge
9	BMV1+p	MT20	2.0	4.0		
10	BMWW-t	MT20	4.0	5.0	2.00	1.50
11	BMWWW-t	MT20	4.0	6.0	1.75	3.00
12	BS-t	MT20	3.0	6.0		
13	BMWWW-t	MT20	4.0	8.0	1.75	4.00
14	BMWW-t	MT20	3.0	10.0	1.50	3.75
15	BMV1+p	MT20	2.0	4.0		

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
15	1427	0	1427	0	0	5-8	5-8
9	1322	0	1322	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 3-8	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
15	999	712 / 0	0 / 0	0 / 0	0 / 0	287 / 0	0 / 0
9	928	649 / 0	0 / 0	0 / 0	0 / 0	279 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 15

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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF) FROM	TO	MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00
2- 3	-1823 / 0	-77.3	-77.3	0.34 (1)	4.63
3- 4	-2306 / 0	-77.3	-77.3	0.22 (1)	4.33
4- 5	-2608 / 0	-77.3	-77.3	0.19 (1)	4.14
5- 6	-1472 / 0	-77.3	-77.3	0.14 (1)	5.27
6- 7	-1482 / 0	-77.3	-77.3	0.37 (1)	4.98
7- 8	-1776 / 0	-77.3	-77.3	0.40 (1)	4.61
15- 2	-1385 / 0	0.0	0.0	0.14 (1)	6.91
9- 8	-1276 / 0	0.0	0.0	0.13 (1)	7.13
15-14	0 / 0	-17.5	-17.5	0.11 (3)	10.00
14-13	0 / 1624	-17.5	-17.5	0.31 (1)	10.00
13-12	0 / 1755	-17.5	-17.5	0.38 (1)	10.00
12-11	0 / 1755	-17.5	-17.5	0.38 (1)	10.00
11-10	0 / 1610	-17.5	-17.5	0.36 (1)	10.00
10- 9	0 / 0	-17.5	-17.5	0.13 (3)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
14- 3	-165 / 21	0.04 (1)
3-13	0 / 922	0.21 (1)
13- 4	-1423 / 0	0.33 (1)
13- 5	0 / 1065	0.24 (1)
5-11	-829 / 0	0.57 (1)
11- 6	0 / 1035	0.23 (1)
11- 7	-375 / 0	0.35 (1)
10- 7	-190 / 37	0.05 (1)
2-14	0 / 1649	0.37 (1)
10- 8	0 / 1636	0.37 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	33.3	PSF

SPACING = 24.0 IN. C/C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.93")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.12")
ALLOWABLE DEFL.(TL)= L/360 (0.93")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.24")

CSI: TC=0.40 (7-8:1) , BC=0.38 (11-13:1) , WB=0.57 (5-11:1) , SSI=0.20 (7-8:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) 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 (10) (INPUT = 0.90)
JSI METAL= 0.52 (4) (INPUT = 1.00)

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17-5001
BUILDING DIVISION

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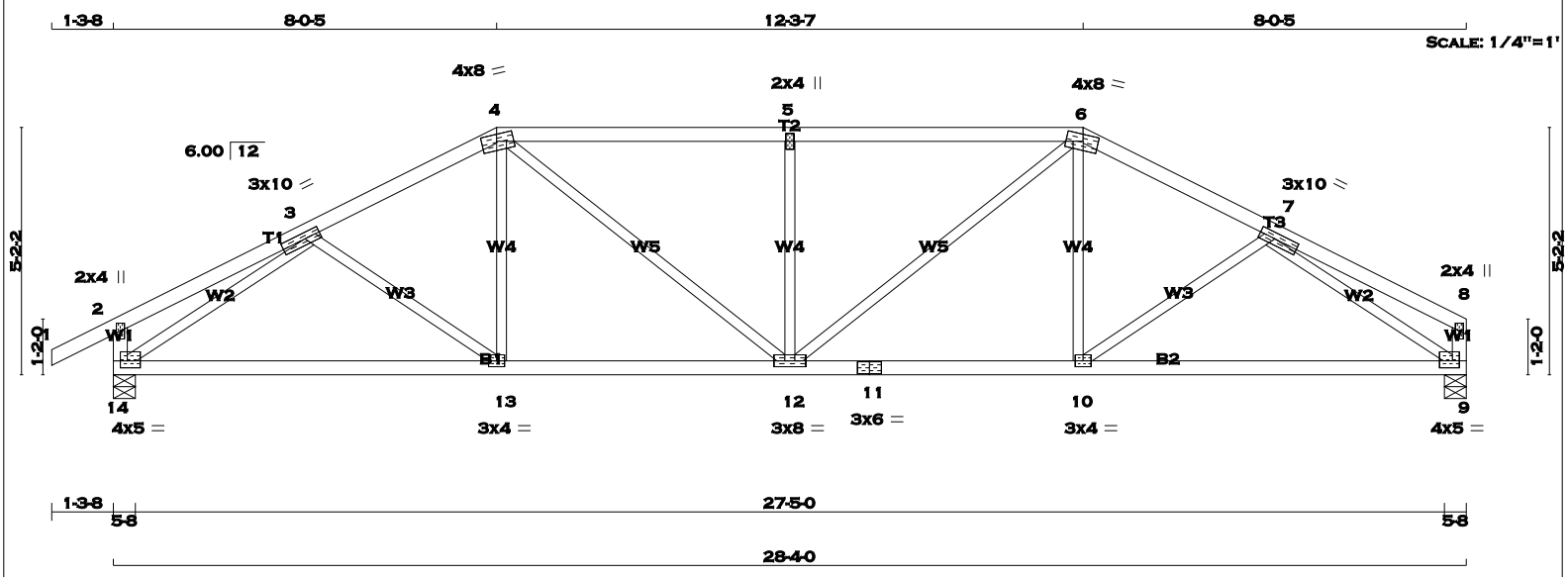
KOTT



TOTAL WEIGHT = 109 lb

[M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 8	2x4	DRY	No.2	SPF
14 - 2	2x4	DRY	No.2	SPF
9 - 8	2x4	DRY	No.2	SPF
14 - 11	2x4	DRY	No.2	SPF
11 - 9	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

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	10.0	1.50	4.00
4	TTWW-m	MT20	4.0	8.0	1.75	3.75
5	TMV+w	MT20	2.0	4.0		
6	TTWW-m	MT20	4.0	8.0	1.75	3.75
7	TMWW-t	MT20	3.0	10.0	1.50	4.00
8	TMV+p	MT20	2.0	4.0		
9	BMVW1-t	MT20	4.0	5.0	1.75	1.75
10	BMWW-t	MT20	3.0	4.0		
11	BS-t	MT20	3.0	6.0		
12	BMWWW-t	MT20	3.0	8.0		
13	BMWW-t	MT20	3.0	4.0		
14	BMVW1-t	MT20	4.0	5.0	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

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG	REQRD BRG
14	1449	0	1449	0	0	IN-SX 5-8	IN-SX 5-8
9	1344	0	1344	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
14	1014	723 / 0	0 / 0	0 / 0	0 / 0	291 / 0	0 / 0
9	943	660 / 0	0 / 0	0 / 0	0 / 0	283 / 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 = 4.32 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.

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD FROM	TO	LC1 MAX (PLF) CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00	3-13	-31 / 56	0.02 (3)
2- 3	0 / 14	-77.3	-77.3	0.18 (1)	10.00	13- 4	0 / 169	0.05 (3)
3- 4	-1808 / 0	-77.3	-77.3	0.18 (1)	4.83	4-12	0 / 530	0.12 (1)
4- 5	-2022 / 0	-77.3	-77.3	0.44 (1)	4.32	12- 5	-583 / 0	0.23 (1)
5- 6	-2022 / 0	-77.3	-77.3	0.44 (1)	4.32	12- 6	0 / 530	0.12 (1)
6- 7	-1808 / 0	-77.3	-77.3	0.18 (1)	4.83	10- 6	0 / 169	0.05 (3)
7- 8	0 / 14	-77.3	-77.3	0.18 (1)	10.00	10- 7	-31 / 56	0.02 (3)
14- 2	-229 / 0	0.0	0.0	0.02 (1)	7.81	14- 3	-2000 / 0	0.79 (1)
9- 8	-124 / 0	0.0	0.0	0.01 (1)	7.81	7- 9	-2000 / 0	0.79 (1)
14-13	0 / 1628	-17.5	-17.5	0.40 (1)	10.00			
13-12	0 / 1607	-17.5	-17.5	0.40 (1)	10.00			
12-11	0 / 1607	-17.5	-17.5	0.40 (1)	10.00			
11-10	0 / 1607	-17.5	-17.5	0.40 (1)	10.00			
10- 9	0 / 1628	-17.5	-17.5	0.40 (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 (0.94")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.10")
ALLOWABLE DEFL.(TL)= L/360 (0.94")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.18")

CSI: TC=0.44 (4-5:1) , BC=0.40 (13-14:1) , WB=0.79 (3-14:1) , SSI=0.23 (4-5:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (7) (INPUT = 0.90)
JSI METAL= 0.49 (14) (INPUT = 1.00)

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BUILDING DIVISION

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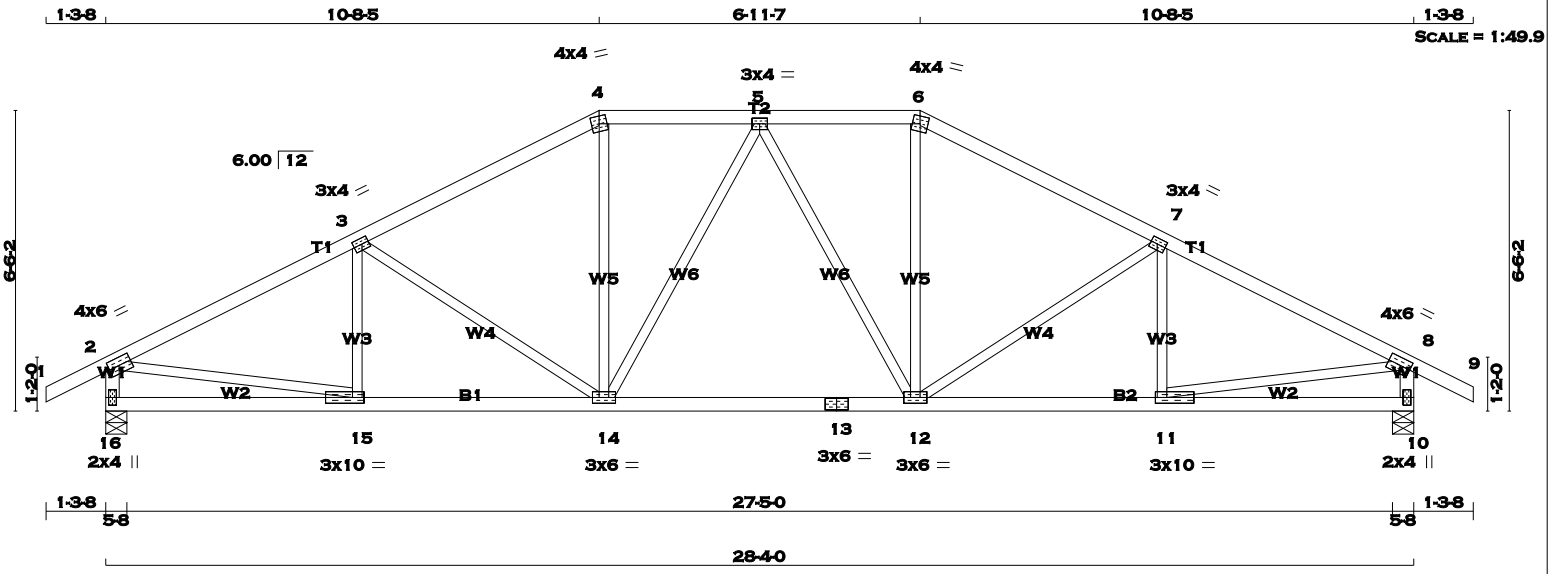
KOTT



TOTAL WEIGHT = 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
6 - 9	2x4	DRY	No.2	SPF
16 - 2	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF
16 - 13	2x4	DRY	No.2	SPF
13 - 10	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	6.0	2.00	2.75
3	TMWW-t	MT20	3.0	4.0	1.50	1.75
4	TTW-m	MT20	4.0	4.0		
5	TMWW-t	MT20	3.0	4.0		
6	TTW-m	MT20	4.0	4.0		
7	TMWW-t	MT20	3.0	4.0	1.50	1.75
8	TMVW-t	MT20	4.0	6.0	2.00	2.75
10	BMV1+p	MT20	2.0	4.0		
11	BMWW-t	MT20	3.0	10.0	1.50	3.00
12	BMWWW-t	MT20	3.0	6.0		
13	BS-t	MT20	3.0	6.0		
14	BMWWW-t	MT20	3.0	6.0		
15	BMWW-t	MT20	3.0	10.0	1.50	3.00
16	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 VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
16	1449	0	1449	0	0	5-8	5-8
10	1449	0	1449	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
16	1014	723 / 0	0 / 0	0 / 0	0 / 0	291 / 0	0 / 0
10	1014	723 / 0	0 / 0	0 / 0	0 / 0	291 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 16, 10

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.55 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00	15- 3	-178 / 32	0.04 (1)
2- 3	-1913 / 0	-77.3	-77.3	0.34 (1)	4.55	3-14	-343 / 0	0.26 (1)
3- 4	-1638 / 0	-77.3	-77.3	0.31 (1)	4.86	14- 4	0 / 462	0.10 (1)
4- 5	-1453 / 0	-77.3	-77.3	0.13 (1)	5.31	14- 5	-182 / 0	0.17 (1)
5- 6	-1453 / 0	-77.3	-77.3	0.13 (1)	5.31	5-12	-182 / 0	0.17 (1)
6- 7	-1638 / 0	-77.3	-77.3	0.31 (1)	4.86	12- 6	0 / 462	0.10 (1)
7- 8	-1913 / 0	-77.3	-77.3	0.34 (1)	4.55	12- 7	-343 / 0	0.26 (1)
8- 9	0 / 23	-77.3	-77.3	0.10 (1)	10.00	11- 7	-178 / 32	0.04 (1)
16- 2	-1406 / 0	0.0	0.0	0.14 (1)	6.87	2-15	0 / 1751	0.39 (1)
10- 8	-1406 / 0	0.0	0.0	0.14 (1)	6.87	11- 8	0 / 1751	0.39 (1)
16-15	0 / 0	-17.5	-17.5	0.11 (3)	10.00			
15-14	0 / 1730	-17.5	-17.5	0.35 (1)	10.00			
14-13	0 / 1539	-17.5	-17.5	0.32 (1)	10.00			
13-12	0 / 1539	-17.5	-17.5	0.32 (1)	10.00			
12-11	0 / 1730	-17.5	-17.5	0.35 (1)	10.00			
11-10	0 / 0	-17.5	-17.5	0.11 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	33.3	PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.94")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.08")
ALLOWABLE DEFL.(TL)= L/360 (0.94")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.17")

CSI: TC=0.34 (2-3:1) , BC=0.35 (14-15:1) , WB=0.39 (2-15:1) , SSI=0.18 (2-3:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (11) (INPUT = 0.90)
JSI METAL= 0.51 (2) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
R.M. TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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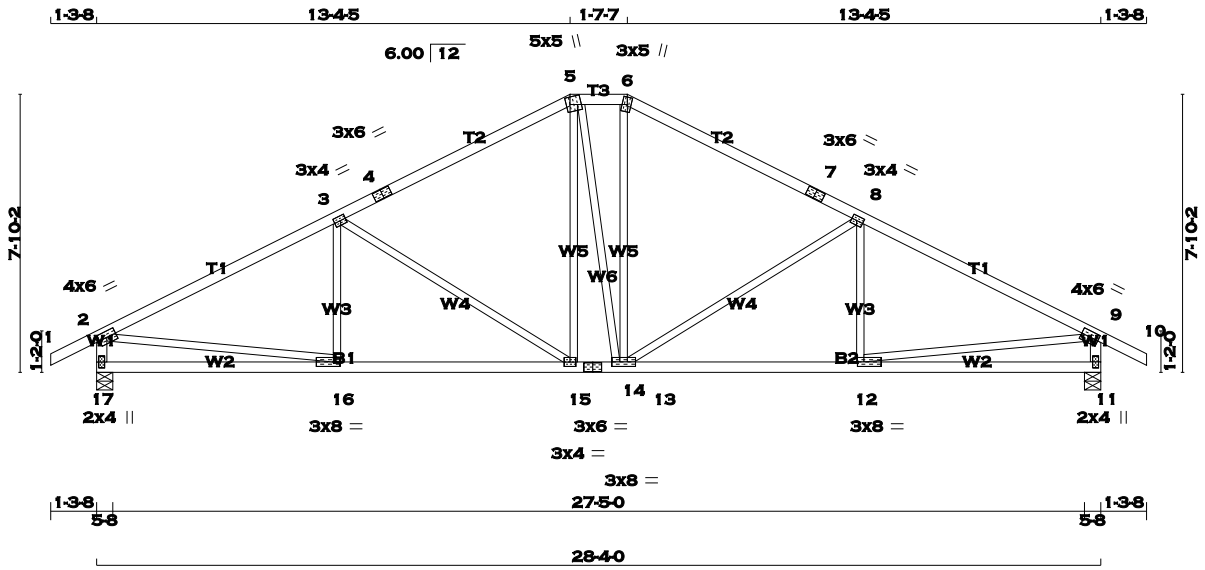
KOTT



TOTAL WEIGHT = 121 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 - 6	2x4	DRY	No.2	SPF
6 - 7	2x4	DRY	No.2	SPF
7 - 10	2x4	DRY	No.2	SPF
17 - 2	2x4	DRY	No.2	SPF
11 - 9	2x4	DRY	No.2	SPF
17 - 14	2x4	DRY	No.2	SPF
14 - 11	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	6.0	2.00	2.75
3	TMWW-t	MT20	3.0	4.0	1.50	1.75
4	TS-t	MT20	3.0	6.0		
5	TTWW+m	MT20	5.0	5.0	2.50	1.25
6	TTW+m	MT20	3.0	5.0	2.50	1.25
7	TS-t	MT20	3.0	6.0		
8	TMWW-t	MT20	3.0	4.0	1.50	1.75
9	TMVW-t	MT20	4.0	6.0	2.00	2.75
11	BMV1+p	MT20	2.0	4.0		
12	BMWW-t	MT20	3.0	8.0	1.50	2.25
13	BMWWW-t	MT20	3.0	8.0		
14	BS-t	MT20	3.0	6.0		
15	BMWW-t	MT20	3.0	4.0		
16	BMWW-t	MT20	3.0	8.0	1.50	2.25
17	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 VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
17	1449	0	1449	0	0	5-8	5-8
11	1449	0	1449	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
17	1014	723 / 0	0 / 0	0 / 0	0 / 0	291 / 0	0 / 0
11	1014	723 / 0	0 / 0	0 / 0	0 / 0	291 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 17, 11

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.28 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00	16- 3	-88 / 88	0.03 (3)
2- 3	-1924 / 0	-77.3	-77.3	0.55 (1)	4.28	3-15	-579 / 0	0.75 (1)
3- 4	-1434 / 0	-77.3	-77.3	0.49 (1)	4.87	15- 5	0 / 364	0.08 (1)
4- 5	-1434 / 0	-77.3	-77.3	0.49 (1)	4.87	5-13	0 / 12	0.00 (1)
5- 6	-1265 / 0	-77.3	-77.3	0.04 (1)	5.69	13- 6	0 / 378	0.08 (1)
6- 7	-1437 / 0	-77.3	-77.3	0.49 (1)	4.87	13- 8	-575 / 0	0.75 (1)
7- 8	-1437 / 0	-77.3	-77.3	0.49 (1)	4.87	12- 8	-91 / 87	0.03 (3)
8- 9	-1923 / 0	-77.3	-77.3	0.55 (1)	4.28	2-16	0 / 1759	0.40 (1)
9-10	0 / 23	-77.3	-77.3	0.10 (1)	10.00	12- 9	0 / 1758	0.40 (1)
17- 2	-1400 / 0	0.0	0.0	0.14 (1)	6.88			
11- 9	-1399 / 0	0.0	0.0	0.14 (1)	6.88			
17-16	0 / 0	-17.5	-17.5	0.20 (3)	10.00			
16-15	0 / 1745	-17.5	-17.5	0.38 (1)	10.00			
15-14	0 / 1262	-17.5	-17.5	0.28 (1)	10.00			
14-13	0 / 1262	-17.5	-17.5	0.28 (1)	10.00			
13-12	0 / 1744	-17.5	-17.5	0.37 (1)	10.00			
12-11	0 / 0	-17.5	-17.5	0.19 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	33.3	PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.94")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.09")
ALLOWABLE DEFL.(TL)= L/360 (0.94")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.17")

CSI: TC=0.55 (2-3:1) , BC=0.38 (15-16:1) , WB=0.75 (3-15:1) , SSI=0.23 (2-3:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

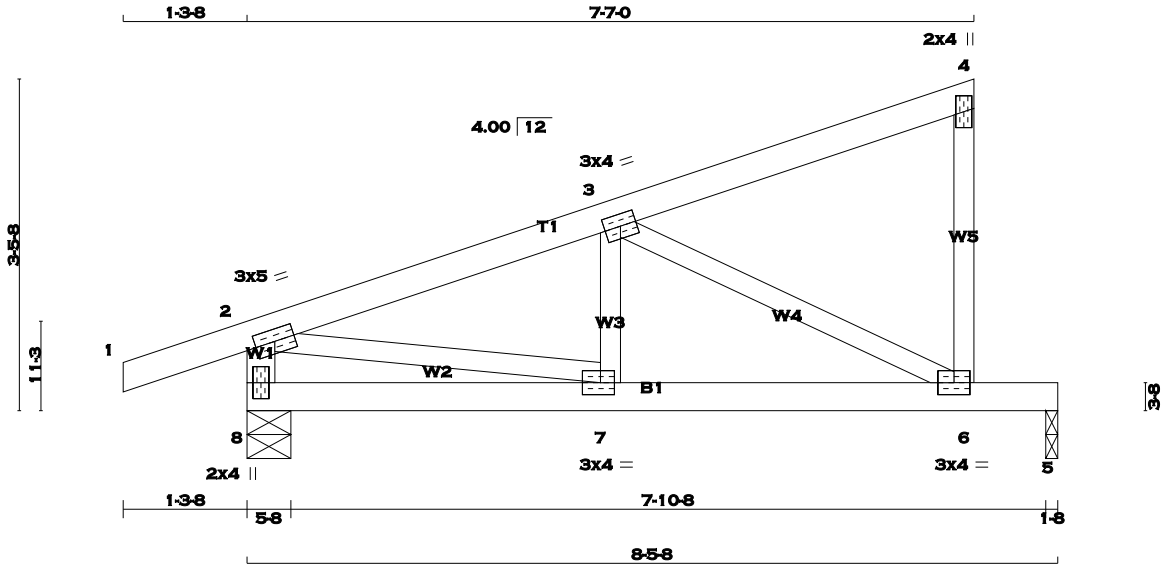
JSI GRIP= 0.89 (16) (INPUT = 0.90)
JSI METAL= 0.52 (2) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
R.M. TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT



SCALE: 1/2"=1'

TOTAL WEIGHT = 8 X 30 = 244 lb

[M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
6 - 4	2x3	DRY	No.2	SPF
8 - 2	2x4	DRY	No.2	SPF
8 - 5	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	5.0		
3	TMWW-t	MT20	3.0	4.0		
4	TMV+p	MT20	2.0	4.0		
6	BMVW-t	MT20	3.0	4.0		
7	BMWW-t	MT20	3.0	4.0	1.50	1.75
8	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
8	501	0	501	0	0	5-8	5-8
5	337	0	337	0	0	1-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
8	349	257 / 0	0 / 0	0 / 0	0 / 0	92 / 0	0 / 0
5	238	158 / 0	0 / 0	0 / 0	0 / 0	80 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8, 5

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	0 / 16	-77.3	-77.3	0.10 (1)	10.00
2- 3	-565 / 0	-77.3	-77.3	0.13 (1)	6.25
3- 4	-10 / 0	-77.3	-77.3	0.13 (1)	6.25
6- 4	-114 / 0	0.0	0.0	0.03 (1)	7.81
8- 2	-491 / 0	0.0	0.0	0.05 (1)	7.81
8- 7	0 / 0	-17.5	-17.5	0.12 (1)	10.00
7- 6	0 / 546	-17.5	-17.5	0.48 (1)	10.00
6- 5	0 / 0	-17.5	-17.5	0.39 (1)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
7- 3	0 / 98	0.03 (3)
3- 6	-610 / 0	0.18 (1)
2- 7	0 / 554	0.12 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	33.3	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.28")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.28")
CALCULATED VERT. DEFL.(TL) = L/ 896 (0.11")

CSI: TC=0.13 (2-3:1) , BC=0.48 (6-7:1) , WB=0.18 (3-6:1) , SSI=0.26 (5-6:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.83 (6) (INPUT = 0.90)
JSI METAL= 0.20 (6) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
RAM TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
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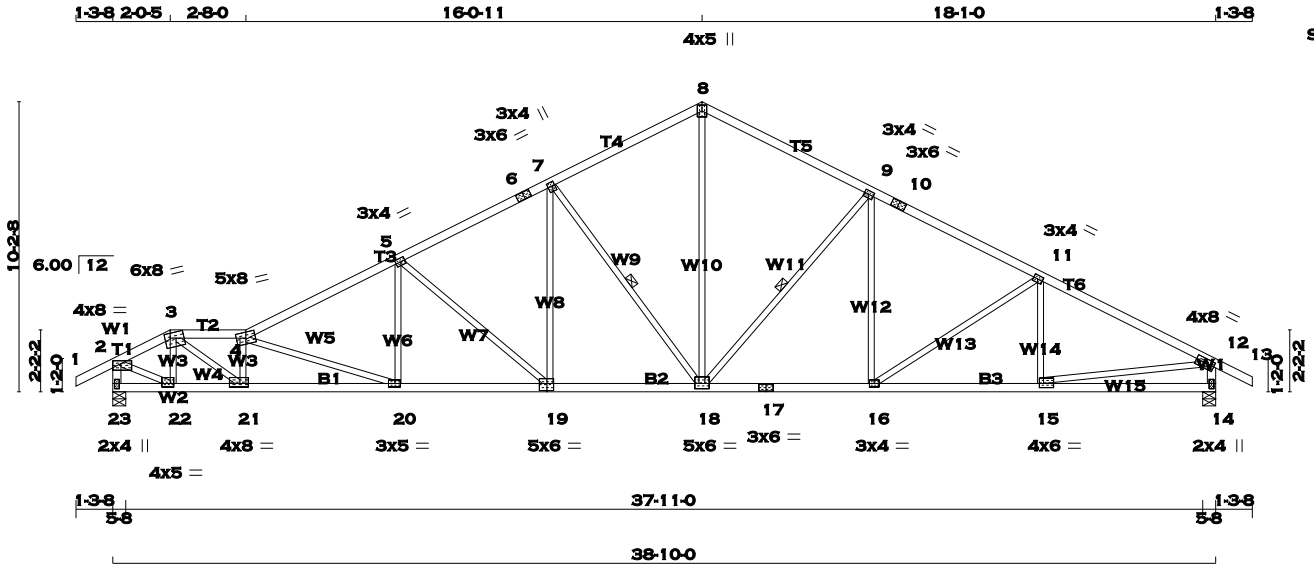
READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT



TOTAL WEIGHT = 165 lb

[M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 8	2x4	DRY	No.2	SPF
8 - 10	2x4	DRY	No.2	SPF
10 - 13	2x4	DRY	No.2	SPF
23 - 2	2x4	DRY	No.2	SPF
14 - 12	2x4	DRY	No.2	SPF
23 - 19	2x4	DRY	No.2	SPF
19 - 17	2x4	DRY	No.2	SPF
17 - 14	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-p	MT20	4.0	8.0	1.25	3.50
3	TTWW-m	MT20	6.0	8.0	2.00	2.25
4	TTWW-m	MT20	5.0	8.0		
5, 9, 11						
5	TMWW-t	MT20	3.0	4.0	1.50	1.75
6	TS-t	MT20	3.0	6.0		
7	TMWW+t	MT20	3.0	4.0	1.75	0.75
8	TTW+p	MT20	4.0	5.0		
10	TS-t	MT20	3.0	6.0		
12	TMVW-t	MT20	4.0	8.0	1.75	3.00
14	BMV1+p	MT20	2.0	4.0	2.25	1.00
15	BMWW-t	MT20	4.0	6.0	1.75	1.75
16	BMWW-t	MT20	3.0	4.0		
17	BS-t	MT20	3.0	6.0		
18	BMWWW-t	MT20	5.0	6.0	2.25	3.00
19	BSWW-l	MT20	5.0	6.0	3.00	2.75
20	BMWW-t	MT20	3.0	5.0	1.50	2.25
21	BMWW-t	MT20	4.0	8.0	1.50	3.50
22	BMWW-t	MT20	4.0	5.0	1.50	1.50
23	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

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
23	1947	0	1947	0	0	5-8	5-8
14	1947	0	1947	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
23	1364	967 / 0	0 / 0	0 / 0	0 / 0	396 / 0	0 / 0
14	1364	967 / 0	0 / 0	0 / 0	0 / 0	396 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 23, 14

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.41 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.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 7-18. DBS = 14-0-0 . CBF = 88 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 9-18. DBS = 20-0-0 . CBF = 88 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"X3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00
2- 3	-2165 / 0	-77.3	-77.3	0.09 (1)	4.58
3- 4	-3934 / 0	-77.3	-77.3	0.23 (1)	3.41
4- 5	-3416 / 0	-77.3	-77.3	0.46 (1)	3.48
5- 6	-2685 / 0	-77.3	-77.3	0.35 (1)	3.97
6- 7	-2685 / 0	-77.3	-77.3	0.35 (1)	3.97
7- 8	-2034 / 0	-77.3	-77.3	0.32 (1)	4.46
8- 9	-2036 / 0	-77.3	-77.3	0.40 (1)	4.38
9-10	-2530 / 0	-77.3	-77.3	0.42 (1)	4.00
10-11	-2530 / 0	-77.3	-77.3	0.42 (1)	4.00
11-12	-2779 / 0	-77.3	-77.3	0.52 (1)	3.75
12-13	0 / 23	-77.3	-77.3	0.10 (1)	10.00
23- 2	-1937 / 0	0.0	0.0	0.20 (1)	6.04
14-12	-1900 / 0	0.0	0.0	0.19 (1)	6.10
23-22	0 / 0	-17.5	-17.5	0.03 (1)	10.00
22-21	0 / 1895	-17.5	-17.5	0.37 (1)	10.00
21-20	0 / 4016	-17.5	-17.5	0.75 (1)	10.00
20-19	0 / 3072	-17.5	-17.5	0.56 (1)	10.00
19-18	0 / 2402	-17.5	-17.5	0.46 (1)	10.00
18-17	0 / 2263	-17.5	-17.5	0.44 (1)	10.00
17-16	0 / 2263	-17.5	-17.5	0.44 (1)	10.00
16-15	0 / 2502	-17.5	-17.5	0.46 (1)	10.00
15-14	0 / 0	-17.5	-17.5	0.14 (3)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
22- 3	-702 / 0	0.11 (1)
3-21	0 / 2529	0.57 (1)
21- 4	-1474 / 0	0.22 (1)
4-20	-1000 / 0	0.57 (1)
20- 5	0 / 448	0.10 (1)
5-19	-880 / 0	0.82 (1)
19- 7	0 / 653	0.15 (1)
7-18	-1005 / 0	0.56 (1)
18- 8	0 / 1449	0.33 (1)
18- 9	-705 / 0	0.41 (1)
16- 9	0 / 260	0.06 (1)
16-11	-287 / 0	0.28 (1)
15-11	-235 / 30	0.06 (1)
2-22	0 / 2085	0.47 (1)
15-12	0 / 2527	0.57 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	23.3	PSF
	DL =	3.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.0	PSF
TOTAL LOAD	=	33.3	PSF

SPACING = 24.0 IN. C/C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.29")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.23")
ALLOWABLE DEFL.(TL)= L/360 (1.29")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.41")

CSI: TC=0.52 (11-12:1) , BC=0.75 (20-21:1) , WB=0.82 (5-19:1) , SSI=0.20 (11-12:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (5) (INPUT = 0.90)
JSI METAL= 0.63 (15) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
RAM TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
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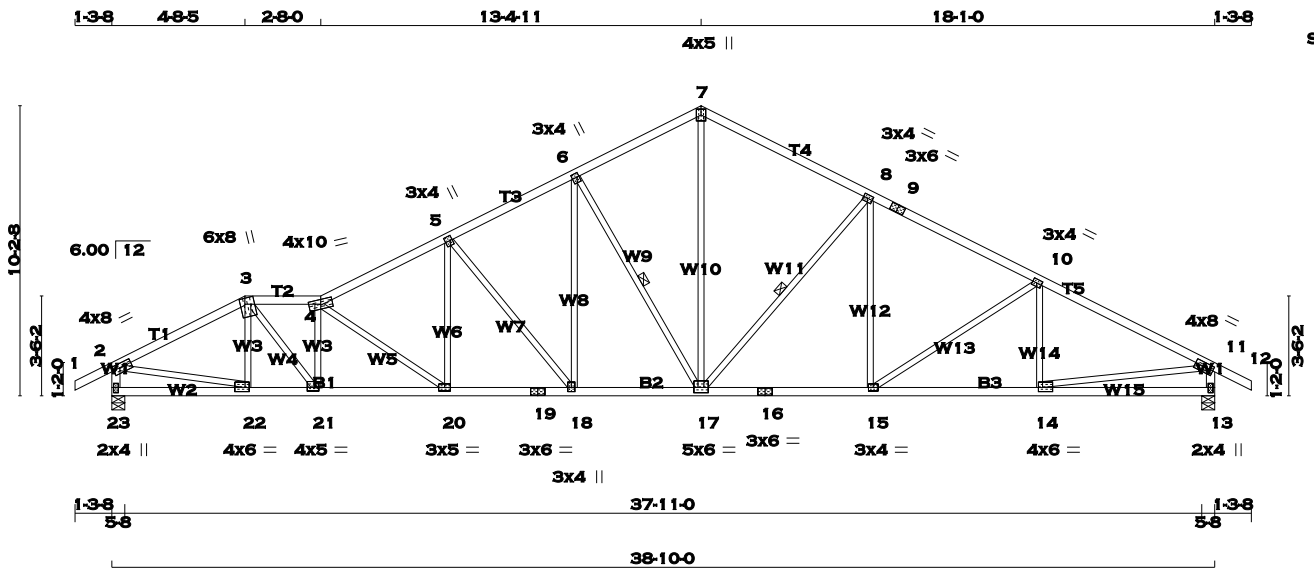
KOTT



TOTAL WEIGHT = 171 lb
[M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 4	2x4	DRY	No.2	SPF
4 - 7	2x4	DRY	No.2	SPF
7 - 9	2x4	DRY	No.2	SPF
9 - 12	2x4	DRY	No.2	SPF
23 - 2	2x4	DRY	No.2	SPF
13 - 11	2x4	DRY	No.2	SPF
23 - 19	2x4	DRY	No.2	SPF
19 - 16	2x4	DRY	No.2	SPF
16 - 13	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	8.0	1.75	3.00
3	TTWW+m	MT20	6.0	8.0	2.50	2.00
4	TTWW-m	MT20	4.0	10.0		
5	TMWW+t	MT20	3.0	4.0	2.00	0.75
6	TMWW+t	MT20	3.0	4.0	1.75	0.75
7	TTW+p	MT20	4.0	5.0		
8	TMWW-t	MT20	3.0	4.0	1.50	1.75
9	TS-t	MT20	3.0	6.0		
10	TMWW-t	MT20	3.0	4.0	1.50	1.75
11	TMVW-t	MT20	4.0	8.0	1.75	3.00
13	BMV1+p	MT20	2.0	4.0	2.25	1.00
14	BMWW-t	MT20	4.0	6.0	1.75	1.75
15	BMWW-t	MT20	3.0	4.0		
16	BS-t	MT20	3.0	6.0		
17	BMWWW-t	MT20	5.0	6.0	2.25	3.00
18	BMWW+t	MT20	3.0	4.0	1.75	1.50
19	BS-t	MT20	3.0	6.0		
20	BMWW-t	MT20	3.0	5.0		
21	BMWW-t	MT20	4.0	5.0	1.50	1.75
22	BMWW-t	MT20	4.0	6.0	1.75	1.75
23	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

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
23	1947	0	1947	0	0	5-8	5-8
13	1947	0	1947	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
23	1364	967 / 0	0 / 0	0 / 0	0 / 0	396 / 0	0 / 0
13	1364	967 / 0	0 / 0	0 / 0	0 / 0	396 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 23, 13

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.70 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 6-17. DBS = 14-0-0 . CBF = 85 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 8-17. DBS = 20-0-0 . CBF = 88 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"X3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC	MAX CSI	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI
1- 2	0 / 23	-77.3	-77.3	1	0.10	10.00	22- 3	-342 / 0	0.07
2- 3	-2667 / 0	-77.3	-77.3	1	0.32	3.98	3-21	0 / 1603	0.36
3- 4	-3373 / 0	-77.3	-77.3	1	0.19	3.70	21- 4	-1219 / 0	0.25
4- 5	-3133 / 0	-77.3	-77.3	1	0.31	3.74	4-20	-734 / 0	0.38
5- 6	-2561 / 0	-77.3	-77.3	1	0.24	4.14	20- 5	0 / 521	0.12
6- 7	-2030 / 0	-77.3	-77.3	1	0.23	4.57	5-18	-829 / 0	0.78
7- 8	-2035 / 0	-77.3	-77.3	1	0.40	4.38	18- 6	0 / 706	0.16
8- 9	-2531 / 0	-77.3	-77.3	1	0.42	4.00	6-17	-970 / 0	0.53
9-10	-2531 / 0	-77.3	-77.3	1	0.42	4.00	17- 7	0 / 1475	0.33
10-11	-2778 / 0	-77.3	-77.3	1	0.52	3.75	17- 8	-706 / 0	0.41
11-12	0 / 23	-77.3	-77.3	1	0.10	10.00	15- 8	0 / 261	0.06
23- 2	-1909 / 0	0.0	0.0	1	0.19	6.08	15-10	-287 / 0	0.28
13-11	-1900 / 0	0.0	0.0	1	0.19	6.10	14-10	-235 / 30	0.06
							2-22	0 / 2422	0.54
23-22	0 / 0	-17.5	-17.5	3	0.08	10.00	14-11	0 / 2526	0.57
22-21	0 / 2373	-17.5	-17.5	1	0.41	10.00			
21-20	0 / 3412	-17.5	-17.5	1	0.61	10.00			
20-19	0 / 2817	-17.5	-17.5	1	0.49	10.00			
19-18	0 / 2817	-17.5	-17.5	1	0.49	10.00			
18-17	0 / 2291	-17.5	-17.5	1	0.44	10.00			
17-16	0 / 2263	-17.5	-17.5	1	0.43	10.00			
16-15	0 / 2263	-17.5	-17.5	1	0.43	10.00			
15-14	0 / 2502	-17.5	-17.5	1	0.46	10.00			
14-13	0 / 0	-17.5	-17.5	1	0.14	10.00			

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	33.3	PSF

SPACING = 24.0 IN. C/C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.29")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.21")
ALLOWABLE DEFL.(TL)= L/360 (1.29")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.38")

CSI: TC=0.52 (10-11:1) , BC=0.61 (20-21:1) , WB=0.78 (5-18:1) , SSI=0.20 (10-11:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

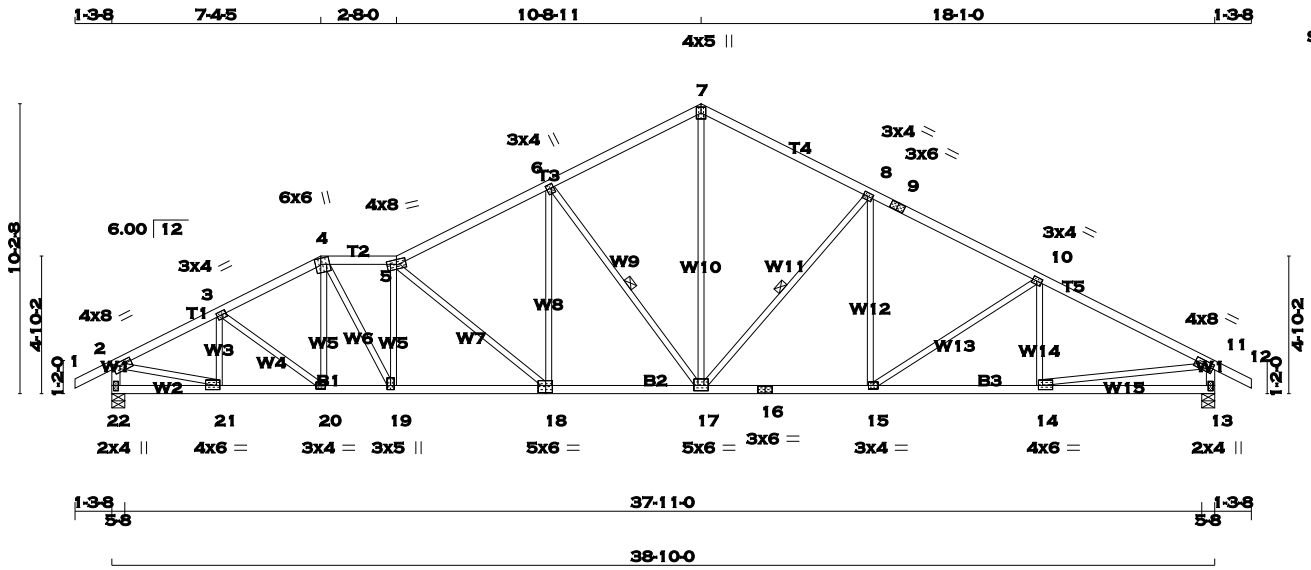
PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (21) (INPUT = 0.90)
JSI METAL= 0.74 (19) (INPUT = 1.00)

KOTT



TOTAL WEIGHT = 170 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
7 - 9	2x4	DRY	No.2	SPF
9 - 12	2x4	DRY	No.2	SPF
22 - 2	2x4	DRY	No.2	SPF
13 - 11	2x4	DRY	No.2	SPF
22 - 18	2x4	DRY	No.2	SPF
18 - 16	2x4	DRY	No.2	SPF
16 - 13	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	8.0	1.50	3.00
3, 8, 10						
3	TMWW-t	MT20	3.0	4.0	1.50	1.75
4	TTWW+m	MT20	6.0	6.0	2.50	2.25
5	TTWW-m	MT20	4.0	8.0		
6	TMWW+t	MT20	3.0	4.0	1.75	0.75
7	TTW+p	MT20	4.0	5.0		
9	TS-t	MT20	3.0	6.0		
11	TMVW-t	MT20	4.0	8.0	1.75	3.00
13	BMV1+p	MT20	2.0	4.0	2.25	1.00
14	BMWW-t	MT20	4.0	6.0	1.75	1.75
15	BMWW-t	MT20	3.0	4.0		
16	BS-t	MT20	3.0	6.0		
17	BMWWW-t	MT20	5.0	6.0	2.25	3.00
18	BSWW-l	MT20	5.0	6.0	3.00	2.75
19	BMWW+t	MT20	3.0	5.0	1.75	1.50
20	BMWW-t	MT20	3.0	4.0		
21	BMWW-t	MT20	4.0	6.0	1.75	1.50
22	BMV1+p	MT20	2.0	4.0	2.25	1.00

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 VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
22	1947	0	1947	0	0	5-8	5-8
13	1947	0	1947	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
22	1364	967 / 0	0 / 0	0 / 0	0 / 0	396 / 0	0 / 0
13	1364	967 / 0	0 / 0	0 / 0	0 / 0	396 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 22, 13

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.75 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 6-17. DBS = 14-0-0 . CBF = 89 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 8-17. DBS = 20-0-0 . CBF = 88 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"X3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD FROM	TO	LC1 (PLF)	MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00	21- 3	-471 / 0	0.09 (1)	
2- 3	-2583 / 0	-77.3	-77.3	0.20 (1)	4.16	3-20	0 / 126	0.03 (1)	
3- 4	-2723 / 0	-77.3	-77.3	0.19 (1)	4.07	20- 4	-8 / 28	0.01 (3)	
4- 5	-2992 / 0	-77.3	-77.3	0.16 (1)	3.92	4-19	0 / 1161	0.26 (1)	
5- 6	-2672 / 0	-77.3	-77.3	0.40 (1)	3.91	19- 5	-953 / 0	0.33 (1)	
6- 7	-2038 / 0	-77.3	-77.3	0.35 (1)	4.43	5-18	-790 / 0	0.75 (1)	
7- 8	-2035 / 0	-77.3	-77.3	0.40 (1)	4.38	18- 6	0 / 606	0.14 (1)	
8- 9	-2530 / 0	-77.3	-77.3	0.42 (1)	4.00	6-17	-1020 / 0	0.57 (1)	
9-10	-2530 / 0	-77.3	-77.3	0.42 (1)	4.00	17- 7	0 / 1458	0.33 (1)	
10-11	-2778 / 0	-77.3	-77.3	0.52 (1)	3.75	17- 8	-705 / 0	0.41 (1)	
11-12	0 / 23	-77.3	-77.3	0.10 (1)	10.00	15- 8	0 / 260	0.06 (1)	
22- 2	-1911 / 0	0.0	0.0	0.19 (1)	6.08	15-10	-287 / 0	0.28 (1)	
13-11	-1900 / 0	0.0	0.0	0.19 (1)	6.10	14-10	-235 / 30	0.06 (1)	
						2-21	0 / 2380	0.54 (1)	
22-21	0 / 0	-17.5	-17.5	0.05 (3)	10.00	14-11	0 / 2526	0.57 (1)	
21-20	0 / 2321	-17.5	-17.5	0.41 (1)	10.00				
20-19	0 / 2422	-17.5	-17.5	0.42 (1)	10.00				
19-18	0 / 3014	-17.5	-17.5	0.55 (1)	10.00				
18-17	0 / 2411	-17.5	-17.5	0.46 (1)	10.00				
17-16	0 / 2263	-17.5	-17.5	0.44 (1)	10.00				
16-15	0 / 2263	-17.5	-17.5	0.44 (1)	10.00				
15-14	0 / 2502	-17.5	-17.5	0.46 (1)	10.00				
14-13	0 / 0	-17.5	-17.5	0.14 (3)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	23.3	PSF	
	DL =	3.0	PSF	
BOT CH.	LL =	0.0	PSF	
	DL =	7.0	PSF	
TOTAL LOAD	=	33.3	PSF	

SPACING = 24.0 IN. C/C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.29")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.20")
ALLOWABLE DEFL.(TL)= L/360 (1.29")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.35")

CSI: TC=0.52 (10-11:1) , BC=0.55 (18-19:1) , WB=0.75 (5-18:1) , SSI=0.20 (10-11:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (5) (INPUT = 0.90)
JSI METAL= 0.63 (14) (INPUT = 1.00)

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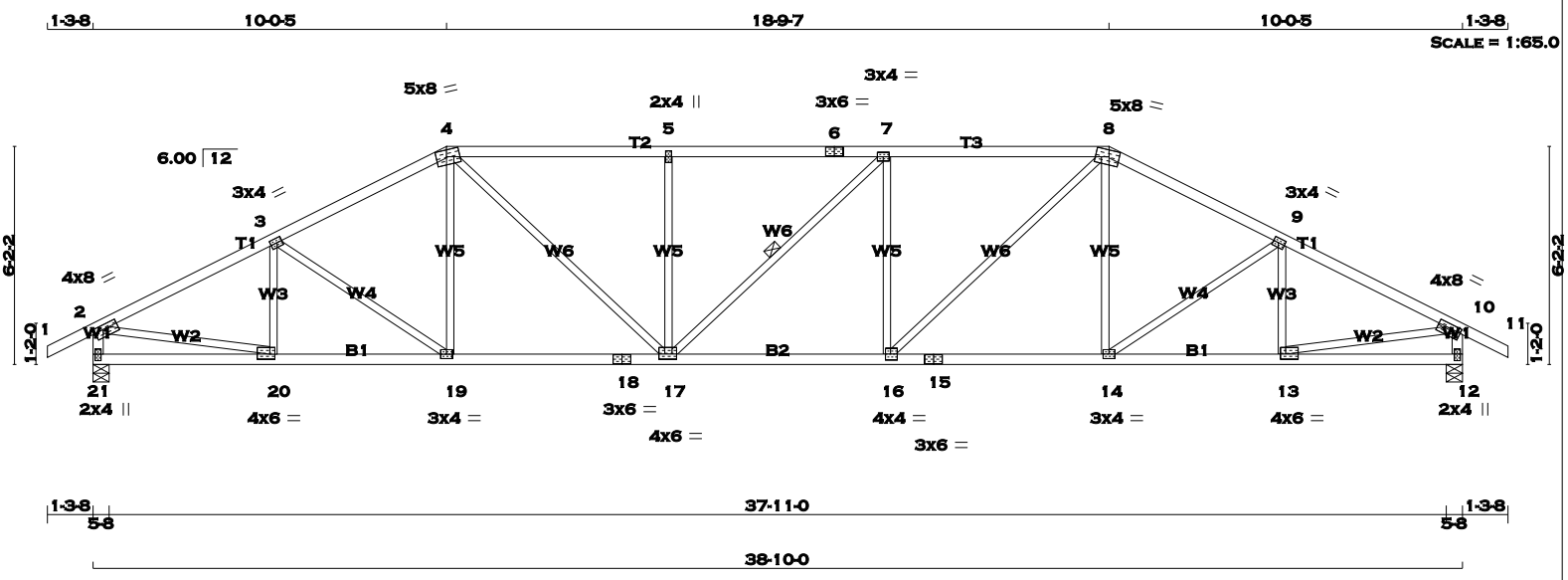
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT



TOTAL WEIGHT = 157 lb [M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 8	2x4	DRY	No.2	SPF
8 - 11	2x4	DRY	No.2	SPF
21 - 2	2x4	DRY	No.2	SPF
12 - 10	2x4	DRY	No.2	SPF
21 - 18	2x4	DRY	No.2	SPF
18 - 15	2x4	DRY	No.2	SPF
15 - 12	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	8.0	1.50	3.00
3	TMWW-t	MT20	3.0	4.0	1.50	1.75
4	TTWW-m	MT20	5.0	8.0	2.25	3.50
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	8.0	2.25	3.50
9	TMWW-t	MT20	3.0	4.0	1.50	1.75
10	TMVW-t	MT20	4.0	8.0	1.50	3.00
12	BMV1+p	MT20	2.0	4.0	2.25	1.00
13	BMWW-t	MT20	4.0	6.0	1.75	1.75
14	BMWW-t	MT20	3.0	4.0		
15	BS-t	MT20	3.0	6.0		
16	BMWW-t	MT20	4.0	4.0	2.00	1.75
17	BMWWW-t	MT20	4.0	6.0	1.75	2.00
18	BS-t	MT20	3.0	6.0		
19	BMWW-t	MT20	3.0	4.0		
20	BMWW-t	MT20	4.0	6.0	1.75	1.75
21	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

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
21	1947	0	1947	0	0	5-8	5-8
12	1947	0	1947	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
21	1364	967 / 0	0 / 0	0 / 0	0 / 0	396 / 0	0 / 0
12	1364	967 / 0	0 / 0	0 / 0	0 / 0	396 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 21, 12

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.58 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 7-17. DBS = 20-0-0 . CBF = 0 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00
2- 3	-2734 / 0	-77.3	-77.3	0.35 (1)	3.92
3- 4	-2633 / 0	-77.3	-77.3	0.33 (1)	4.00
4- 5	-3016 / 0	-77.3	-77.3	0.53 (1)	3.58
5- 6	-3016 / 0	-77.3	-77.3	0.48 (1)	3.64
6- 7	-3016 / 0	-77.3	-77.3	0.48 (1)	3.64
7- 8	-3017 / 0	-77.3	-77.3	0.53 (1)	3.58
8- 9	-2633 / 0	-77.3	-77.3	0.33 (1)	4.00
9-10	-2734 / 0	-77.3	-77.3	0.35 (1)	3.92
10-11	0 / 23	-77.3	-77.3	0.10 (1)	10.00
21- 2	-1904 / 0	0.0	0.0	0.19 (1)	6.09
12-10	-1905 / 0	0.0	0.0	0.19 (1)	6.09
21-20	0 / 0	-17.5	-17.5	0.09 (3)	10.00
20-19	0 / 2462	-17.5	-17.5	0.46 (1)	10.00
19-18	0 / 2339	-17.5	-17.5	0.44 (1)	10.00
18-17	0 / 2339	-17.5	-17.5	0.44 (1)	10.00
17-16	0 / 3017	-17.5	-17.5	0.55 (1)	10.00
16-15	0 / 2339	-17.5	-17.5	0.44 (1)	10.00
15-14	0 / 2339	-17.5	-17.5	0.44 (1)	10.00
14-13	0 / 2462	-17.5	-17.5	0.46 (1)	10.00
13-12	0 / 0	-17.5	-17.5	0.09 (3)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
20- 3	-329 / 0	0.07 (1)
19- 4	-152 / 0	0.10 (1)
19- 4	0 / 192	0.05 (3)
4-17	0 / 926	0.21 (1)
17- 5	-524 / 0	0.32 (1)
17- 7	-2 / 0	0.00 (1)
16- 7	-524 / 0	0.32 (1)
16- 8	0 / 928	0.21 (1)
14- 8	0 / 191	0.04 (3)
14- 9	-153 / 0	0.10 (1)
13- 9	-328 / 0	0.07 (1)
2-20	0 / 2496	0.56 (1)
13-10	0 / 2496	0.56 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	33.3	PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.29")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.21")
ALLOWABLE DEFL.(TL)= L/360 (1.29")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.38")

CSI: TC=0.53 (7-8:1) , BC=0.55 (16-17:1) , WB=0.56 (10-13:1) , SSI=0.23 (7-8:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

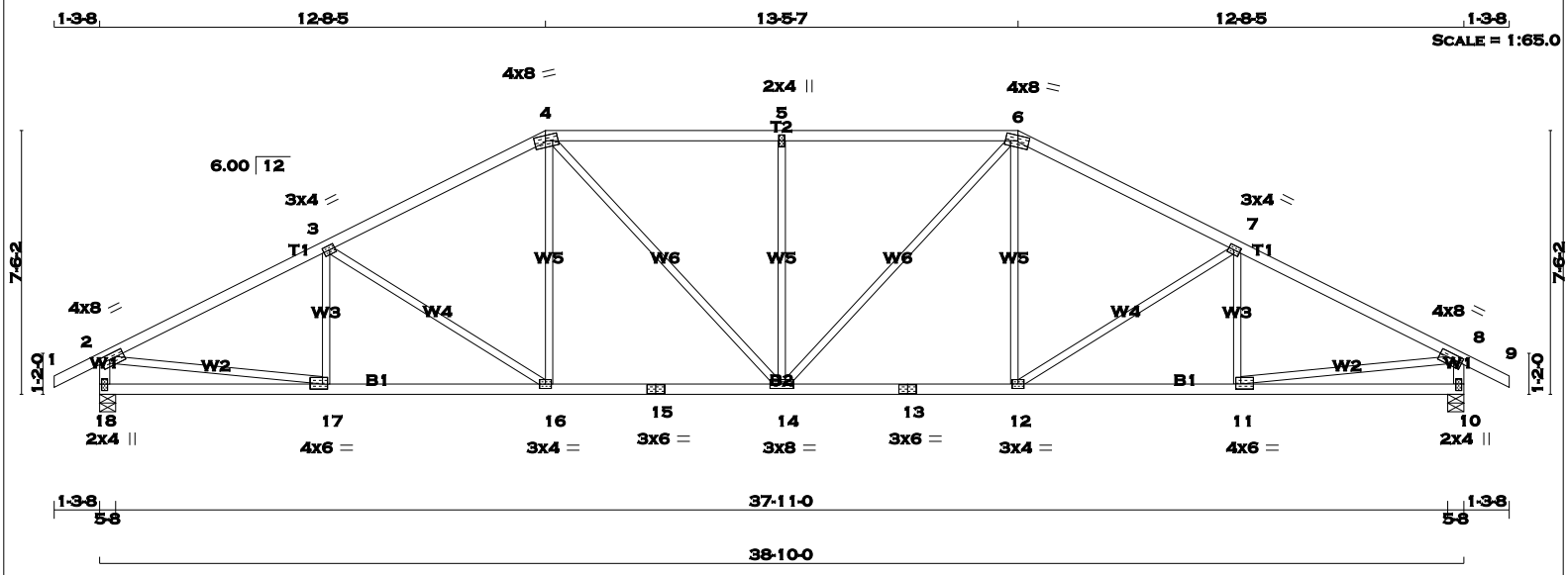
JSI GRIP= 0.89 (13) (INPUT = 0.90)
JSI METAL= 0.61 (13) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
R.M. TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT



TOTAL WEIGHT = 157 lb [M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 9	2x4	DRY	No.2	SPF
18 - 2	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF
18 - 15	2x4	DRY	No.2	SPF
15 - 13	2x4	DRY	No.2	SPF
13 - 10	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	8.0	1.75	3.00
3	TMWW-t	MT20	3.0	4.0	1.50	1.75
4	TTWW-m	MT20	4.0	8.0	1.75	3.75
5	TMW+w	MT20	2.0	4.0		
6	TTWW-m	MT20	4.0	8.0	1.75	3.75
7	TMWW-t	MT20	3.0	4.0	1.50	1.75
8	TMVW-t	MT20	4.0	8.0	1.75	3.00
10	BMV1+p	MT20	2.0	4.0	2.25	1.00
11	BMWW-t	MT20	4.0	6.0	1.75	1.75
12	BMWW-t	MT20	3.0	4.0		
13	BS-t	MT20	3.0	6.0		
14	BMWWW-t	MT20	3.0	8.0		
15	BS-t	MT20	3.0	6.0		
16	BMWW-t	MT20	3.0	4.0		
17	BMWW-t	MT20	4.0	6.0	1.75	1.75
18	BMV1+p	MT20	2.0	4.0	2.25	1.00

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
18	1947	0	1947	0	0	5-8	5-8
10	1947	0	1947	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
18	1364	967 / 0	0 / 0	0 / 0	0 / 0	396 / 0	0 / 0
10	1364	967 / 0	0 / 0	0 / 0	0 / 0	396 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 18, 10

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.65 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00
2- 3	-2800 / 0	-77.3	-77.3	0.58 (1)	3.65
3- 4	-2472 / 0	-77.3	-77.3	0.52 (1)	3.91
4- 5	-2542 / 0	-77.3	-77.3	0.58 (1)	3.76
5- 6	-2542 / 0	-77.3	-77.3	0.58 (1)	3.76
6- 7	-2472 / 0	-77.3	-77.3	0.52 (1)	3.91
7- 8	-2800 / 0	-77.3	-77.3	0.58 (1)	3.65
8- 9	0 / 23	-77.3	-77.3	0.10 (1)	10.00
18- 2	-1897 / 0	0.0	0.0	0.19 (1)	6.10
10- 8	-1897 / 0	0.0	0.0	0.19 (1)	6.10
18-17	0 / 0	-17.5	-17.5	0.16 (3)	10.00
17-16	0 / 2527	-17.5	-17.5	0.49 (1)	10.00
16-15	0 / 2191	-17.5	-17.5	0.43 (1)	10.00
15-14	0 / 2191	-17.5	-17.5	0.43 (1)	10.00
14-13	0 / 2191	-17.5	-17.5	0.43 (1)	10.00
13-12	0 / 2191	-17.5	-17.5	0.43 (1)	10.00
12-11	0 / 2527	-17.5	-17.5	0.49 (1)	10.00
11-10	0 / 0	-17.5	-17.5	0.16 (3)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
17- 3	-219 / 40	0.06 (1)
16- 3	-405 / 0	0.46 (1)
16- 4	0 / 336	0.08 (1)
14- 4	0 / 515	0.12 (1)
14- 5	-639 / 0	0.65 (1)
14- 6	0 / 515	0.12 (1)
12- 6	0 / 336	0.08 (1)
12- 7	-405 / 0	0.46 (1)
11- 7	-219 / 40	0.06 (1)
2-17	0 / 2549	0.57 (1)
11- 8	0 / 2549	0.57 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	33.3	PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.29")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.17")
ALLOWABLE DEFL.(TL)= L/360 (1.29")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.32")

CSI: TC=0.58 (7-8:1) , BC=0.49 (11-12:1) , WB=0.65 (5-14:1) , SSI=0.25 (4-5:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (6) (INPUT = 0.90)
JSI METAL= 0.63 (17) (INPUT = 1.00)

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Mon Mar 13 10:23:27 2017 Page 1
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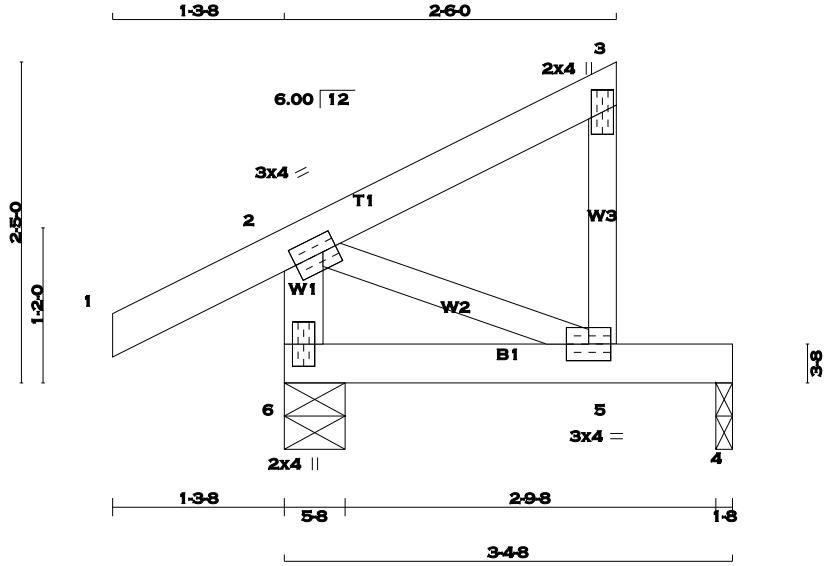

TOTAL WEIGHT = 12 X 13 = 154 lb [M]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
5 - 3	2x3	DRY	No.2	SPF
6 - 2	2x4	DRY	No.2	SPF
6 - 4	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	4.0	1.50	1.25
3	TMV+p	MT20	2.0	4.0		
5	BMVW-t	MT20	3.0	4.0		
6	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
6	256	0	256	0	0	5-8	5-8
4	101	0	101	0	0	1-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
6	178	136 / 0	0 / 0	0 / 0	0 / 0	41 / 0	0 / 0
4	72	43 / 0	0 / 0	0 / 0	0 / 0	29 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6, 4

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 FROM	TO	MAX (PLF) CSI (LC)	MAX. UNBRAC LENGTH
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00
2- 3	0 / 0	-77.3	-77.3	0.08 (1)	10.00
5- 3	-97 / 0	0.0	0.0	0.02 (1)	7.81
6- 2	-202 / 0	0.0	0.0	0.02 (1)	7.81
6- 5	0 / 0	-17.5	-17.5	0.11 (1)	10.00
5- 4	0 / 0	-17.5	-17.5	0.11 (1)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
2- 5	0 / 0	0.00 (1)

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	33.3	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.02")

CSI: TC=0.10 (1-2:1) , BC=0.11 (5-6:1) , WB=0.00 (2-5:1) , SSI=0.08 (4-5:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (2) (INPUT = 0.90)
JSI METAL= 0.04 (6) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
RAM TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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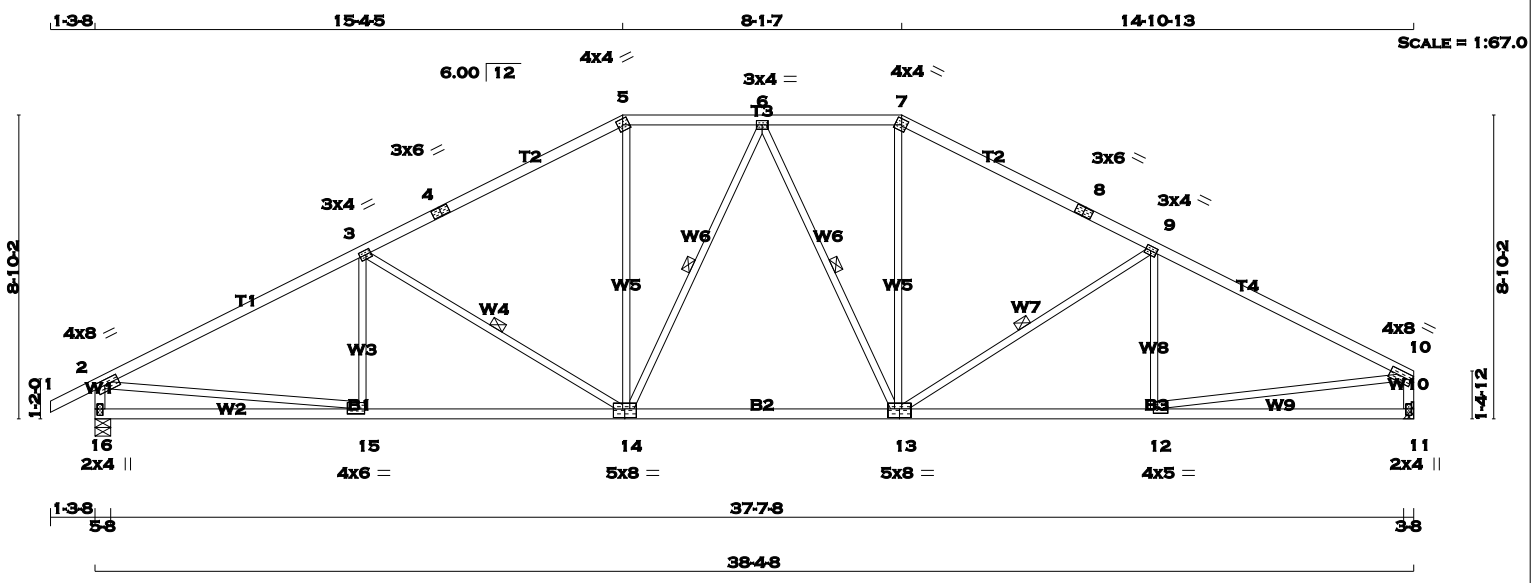
KOTT



TOTAL WEIGHT = 2 X 157 = 314 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
7 - 8	2x4	DRY	No.2	SPF
8 - 10	2x4	DRY	No.2	SPF
16 - 2	2x4	DRY	No.2	SPF
11 - 10	2x4	DRY	No.2	SPF
16 - 14	2x4	DRY	No.2	SPF
14 - 13	2x4	DRY	No.2	SPF
13 - 11	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	8.0	1.75	3.00
3	TMWW-t	MT20	3.0	4.0	1.50	1.75
4	TS-t	MT20	3.0	6.0		
5	TTW-h	MT20	4.0	4.0	2.00	1.75
6	TMWW-t	MT20	3.0	4.0		
7	TTW-h	MT20	4.0	4.0	2.00	1.75
8	TS-t	MT20	3.0	6.0		
9	TMWW-t	MT20	3.0	4.0	1.50	1.75
10	TMVW-t	MT20	4.0	8.0	1.75	Edge
11	BMV1+p	MT20	2.0	4.0	2.25	1.00
12	BMWW-t	MT20	4.0	5.0	1.50	1.50
13	BSWWW-l	MT20	5.0	8.0	3.00	4.00
14	BSWWW-l	MT20	5.0	8.0	3.00	4.00
15	BMWW-t	MT20	4.0	6.0	1.75	2.00
16	BMV1+p	MT20	2.0	4.0	2.25	1.00

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
16	1925	0	1925	0	0	5-8	5-8
11	1820	0	1820	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 3-8	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	SNOW	MAX./MIN. COMPONENT REACTIONS LIVE	PERM.LIVE	WIND	DEAD	SOIL
16	1349	957 / 0	0 / 0	0 / 0	0 / 0	392 / 0	0 / 0
11	1277	893 / 0	0 / 0	0 / 0	0 / 0	384 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 16

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.27 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 3-14, 6-14, 6-13, 9-13. DBS = 20-0-0 . CBF = 80 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: (3)

CHORDS MEMB. FR-TO	FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF) FROM	TO	MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00
2- 3	-2776 / 0	-77.3	-77.3	0.92 (1)	3.27
3- 4	-2235 / 0	-77.3	-77.3	0.78 (1)	3.71
4- 5	-2235 / 0	-77.3	-77.3	0.78 (1)	3.71
5- 6	-1974 / 0	-77.3	-77.3	0.19 (1)	4.64
6- 7	-1953 / 0	-77.3	-77.3	0.19 (1)	4.66
7- 8	-2211 / 0	-77.3	-77.3	0.72 (1)	3.81
8- 9	-2211 / 0	-77.3	-77.3	0.72 (1)	3.81
9-10	-2645 / 0	-77.3	-77.3	0.82 (1)	3.45
16- 2	-1868 / 0	0.0	0.0	0.19 (1)	6.13
11-10	-1764 / 0	0.0	0.0	0.18 (1)	6.28
16-15	0 / 0	-17.5	-17.5	0.24 (3)	10.00
15-14	0 / 2511	-17.5	-17.5	0.52 (1)	10.00
14-13	0 / 2051	-17.5	-17.5	0.45 (1)	10.00
13-12	0 / 2393	-17.5	-17.5	0.50 (1)	10.00
12-11	0 / 0	-17.5	-17.5	0.22 (3)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
15- 3	-131 / 87	0.05 (1)
3-14	-638 / 0	0.36 (1)
14- 5	0 / 640	0.14 (1)
14- 6	-182 / 0	0.11 (1)
6-13	-231 / 0	0.15 (1)
13- 7	0 / 636	0.14 (1)
13- 9	-532 / 0	0.29 (1)
12- 9	-203 / 62	0.08 (1)
2-15	0 / 2526	0.57 (1)
12-10	0 / 2417	0.54 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	33.3	PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.28")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.15")
ALLOWABLE DEFL.(TL)= L/360 (1.28")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.32")

CSI: TC=0.92 (2-3:1) , BC=0.52 (14-15:1) , WB=0.57 (2-15:1) , SSI=0.26 (2-3:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

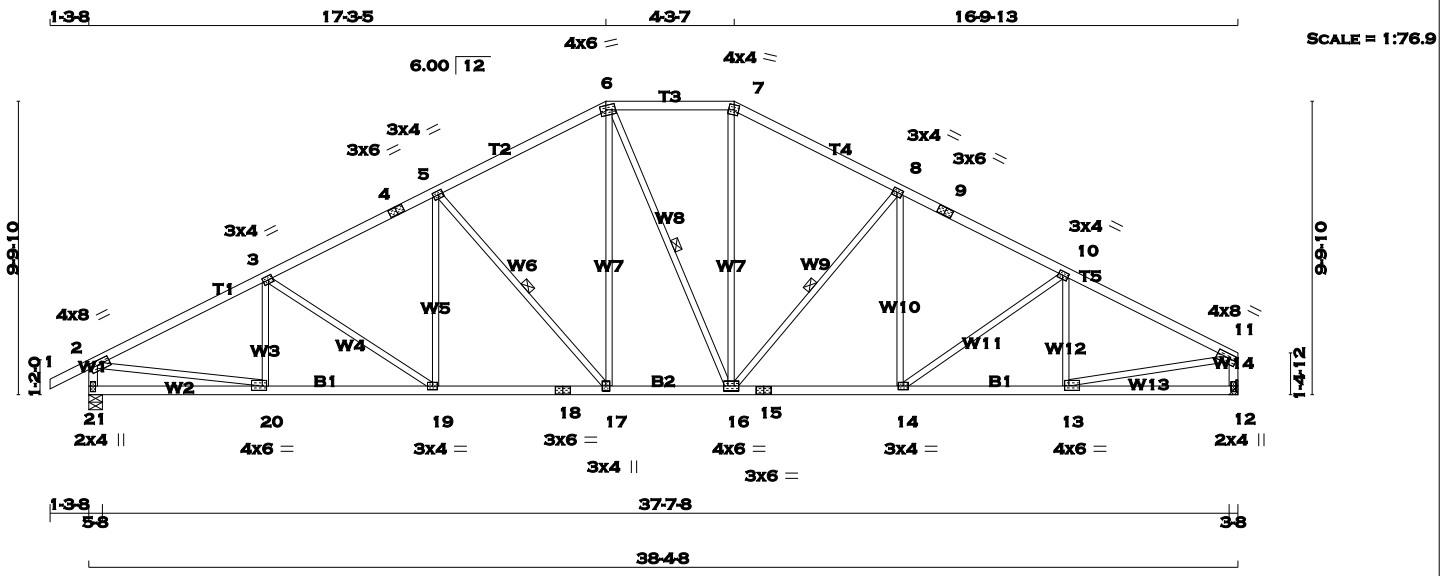
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (12) (INPUT = 0.90)
JSI METAL= 0.72 (12) (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.

KOTT



TOTAL WEIGHT = 169 lb
[M][F]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 7	2x4	DRY	No.2	SPF
7 - 9	2x4	DRY	No.2	SPF
9 - 11	2x4	DRY	No.2	SPF
21 - 2	2x4	DRY	No.2	SPF
12 - 11	2x4	DRY	No.2	SPF
21 - 18	2x4	DRY	No.2	SPF
18 - 15	2x4	DRY	No.2	SPF
15 - 12	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	8.0	1.75	3.00
3, 5, 8, 10						
3	TMWW-t	MT20	3.0	4.0	1.50	1.75
4	TS-t	MT20	3.0	6.0		
6	TTWW-m	MT20	4.0	6.0	1.75	2.25
7	TTW-m	MT20	4.0	4.0	2.00	1.75
9	TS-t	MT20	3.0	6.0		
11	TMVW-t	MT20	4.0	8.0	1.75	Edge
12	BMV1+p	MT20	2.0	4.0	2.25	1.00
13	BMWW-t	MT20	4.0	6.0	1.75	1.75
14	BMWW-t	MT20	3.0	4.0		
15	BS-t	MT20	3.0	6.0		
16	BMWWW-t	MT20	4.0	6.0		
17	BMWW+t	MT20	3.0	4.0		
18	BS-t	MT20	3.0	6.0		
19	BMWW-t	MT20	3.0	4.0		
20	BMWW-t	MT20	4.0	6.0	1.75	1.75
21	BMV1+p	MT20	2.0	4.0	2.25	1.00

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
21	1925	0	1925	0	0	5-8	5-8
12	1820	0	1820	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 3-8	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	SNOW	MAX./MIN. COMPONENT REACTIONS LIVE	PERM.LIVE	WIND	DEAD	SOIL
21	1349	957 / 0	0 / 0	0 / 0	0 / 0	392 / 0	0 / 0
12	1277	893 / 0	0 / 0	0 / 0	0 / 0	384 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 21

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.82 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 5-17, 6-16, 8-16. DBS = 20-0-0 . 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00
2- 3	-2731 / 0	-77.3	-77.3	0.47 (1)	3.82
3- 4	-2522 / 0	-77.3	-77.3	0.38 (1)	4.05
4- 5	-2522 / 0	-77.3	-77.3	0.38 (1)	4.05
5- 6	-2051 / 0	-77.3	-77.3	0.37 (1)	4.40
6- 7	-1814 / 0	-77.3	-77.3	0.22 (1)	4.77
7- 8	-2041 / 0	-77.3	-77.3	0.35 (1)	4.43
8- 9	-2453 / 0	-77.3	-77.3	0.36 (1)	4.11
9-10	-2453 / 0	-77.3	-77.3	0.36 (1)	4.11
10-11	-2567 / 0	-77.3	-77.3	0.43 (1)	3.96
21- 2	-1879 / 0	0.0	0.0	0.19 (1)	6.12
12-11	-1776 / 0	0.0	0.0	0.18 (1)	6.26
21-20	0 / 0	-17.5	-17.5	0.13 (3)	10.00
20-19	0 / 2459	-17.5	-17.5	0.45 (1)	10.00
19-18	0 / 2256	-17.5	-17.5	0.42 (1)	10.00
18-17	0 / 2256	-17.5	-17.5	0.42 (1)	10.00
17-16	0 / 1822	-17.5	-17.5	0.35 (1)	10.00
16-15	0 / 2194	-17.5	-17.5	0.41 (1)	10.00
15-14	0 / 2194	-17.5	-17.5	0.41 (1)	10.00
14-13	0 / 2312	-17.5	-17.5	0.42 (1)	10.00
13-12	0 / 0	-17.5	-17.5	0.12 (3)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
20- 3	-252 / 20	0.06 (1)
3-19	-244 / 0	0.21 (1)
19- 5	0 / 240	0.05 (1)
5-17	-670 / 0	0.36 (1)
17- 6	0 / 587	0.13 (1)
6-16	-21 / 0	0.02 (1)
16- 7	0 / 568	0.13 (1)
16- 8	-601 / 0	0.32 (1)
14- 8	0 / 182	0.05 (3)
14-10	-145 / 0	0.13 (1)
13-10	-333 / 0	0.09 (1)
2-20	0 / 2484	0.56 (1)
13-11	0 / 2353	0.53 (1)

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	33.3	PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.28")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.15")
ALLOWABLE DEFL.(TL)= L/360 (1.28")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.28")

CSI: TC=0.47 (2-3:1) , BC=0.45 (19-20:1) , WB=0.56 (2-20:1) , 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

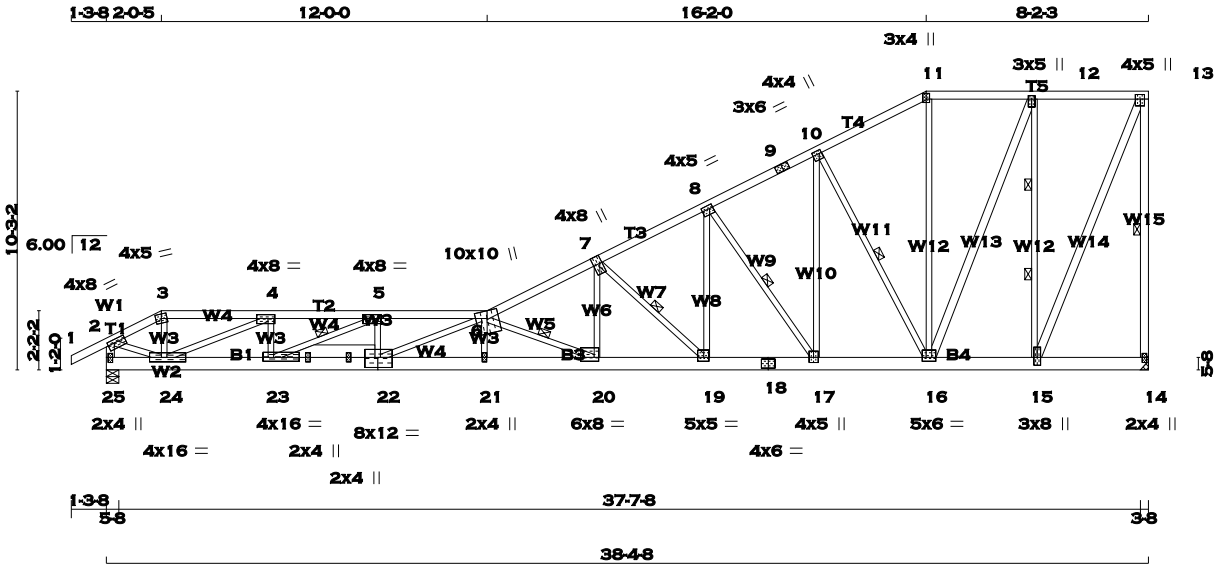
PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (7) (INPUT = 0.90)
JSI METAL= 0.61 (20) (INPUT = 1.00)

KOTT



TOTAL WEIGHT = 223 lb [M]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	1650F 1.5E	SPF
3 - 6	2x4	DRY	1650F 1.5E	SPF
6 - 9	2x4	DRY	1650F 1.5E	SPF
9 - 11	2x4	DRY	1650F 1.5E	SPF
11 - 13	2x4	DRY	1650F 1.5E	SPF
14 - 13	2x4	DRY	No.2	SPF
25 - 2	2x4	DRY	No.2	SPF
25 - 22	2x6	DRY	2100F 1.8E	SPF
23 - 22	2x6	DRY	2100F 1.8E	SPF
22 - 18	2x6	DRY	2100F 1.8E	SPF
18 - 14	2x6	DRY	2100F 1.8E	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
16 - 12	2x4	DRY	No.2	SPF
15 - 13	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	8.0	1.50	3.00
3	TTW-m	MT20	4.0	5.0		
4	TMWW-t	MT20	4.0	8.0	1.75	3.00
5	TMWW-t	MT20	4.0	8.0	1.75	2.75
6	TTWWW+m	MT20	10.0	10.0	3.50	5.00
7	TMWW+t	MT20	4.0	8.0	Edge	1.00
8	TMWW-t	MT20	4.0	5.0	1.50	1.50
9	TS-t	MT20	3.0	6.0		
10	TMWW+t	MT20	4.0	4.0	1.50	1.00
11	TTW+p	MT20	3.0	4.0	2.50	1.50
12	TMWW+t	MT20	3.0	5.0	1.50	1.50
13	TMVW+p	MT20	4.0	5.0	2.00	1.75
14	BMV1+p	MT20	2.0	4.0	2.25	1.00
15	BMWW+t	MT20	3.0	8.0	3.50	1.50
16	BMWWW-t	MT20	5.0	6.0	1.75	3.00
17	BMWW+t	MT20	4.0	5.0	2.25	2.00
18	BS-t	MT20	4.0	6.0		
19	BMWW-t	MT20	5.0	5.0	1.75	2.25
20	BMWW-t	MT20	6.0	8.0	1.75	2.00
21	BMW+w	MT20	2.0	4.0		
22	BSBWW*-l	MT20	8.0	12.0	3.50	5.75
22	QP+t	MT20	2.0	4.0		
22	QP+t	MT20	2.0	4.0		
23	BMQWW-t	MT20	4.0	16.0	1.75	4.75
24	BMWWW-t	MT20	4.0	16.0	2.00	5.25
25	BMV1+p	MT20	2.0	4.0	2.25	1.00

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
14	1820	0	1820	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 3-8	
25	1925	0	1925	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	SNOW	MAX./MIN. COMPONENT REACTIONS LIVE	PERM.LIVE	WIND	DEAD	SOIL
14	1277	893 / 0	0 / 0	0 / 0	0 / 0	384 / 0	0 / 0
25	1349	957 / 0	0 / 0	0 / 0	0 / 0	392 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 25

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.55 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 13-14, 8-17, 10-16. DBS = 8-0-0 . CBF = 90 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 5-23. DBS = 4-0-0 . CBF = 84 LBS.
1 - 2x4 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 6-20. DBS = 6-0-0 . CBF = 175 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 7-19. DBS = 6-0-0 . CBF = 85 LBS.
2 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 3 LENGTH OF 12-15. DBS = 8-0-0 . CBF = 79 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"X3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC	MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	0 / 23	-77.3	-77.3	0.08 (1)	10.00	
2- 3	-2300 / 0	-77.3	-77.3	0.07 (1)	5.03	
3- 4	-2101 / 0	-77.3	-77.3	0.15 (1)	5.11	
4- 5	-5035 / 0	-77.3	-77.3	0.26 (1)	3.50	
5- 6	-8206 / 0	-77.3	-77.3	0.54 (1)	2.55	
6- 7	-5118 / 0	-77.3	-77.3	0.31 (1)	3.45	
7- 8	-3284 / 0	-77.3	-77.3	0.21 (1)	4.24	
8- 9	-2169 / 0	-77.3	-77.3	0.19 (1)	5.00	
9-10	-2169 / 0	-77.3	-77.3	0.19 (1)	5.00	
10-11	-1325 / 0	-77.3	-77.3	0.17 (1)	6.04	
11-12	-1174 / 0	-77.3	-77.3	0.17 (1)	6.25	
12-13	-705 / 0	-77.3	-77.3	0.16 (1)	6.25	
14-13	-1791 / 0	0.0	0.0	0.89 (1)	4.99	
25- 2	-1966 / 0	0.0	0.0	0.20 (1)	6.01	
25-24	0 / 0	-17.5	-17.5	0.05 (1)	10.00	
24-23	0 / 5035	-17.5	-17.5	0.35 (1)	10.00	
23-22	0 / 8110	-17.5	-17.5	0.29 (1)	10.00	
22-21	0 / 8834	-17.5	-17.5	0.66 (1)	10.00	
21-20	0 / 8849	-17.5	-17.5	0.54 (1)	10.00	
20-19	0 / 4593	-17.5	-17.5	0.24 (1)	10.00	
19-18	0 / 2024	-17.5	-17.5	0.16 (1)	10.00	
18-17			5	0.16 (1)	10.00	
17-16			5	0.11 (1)	10.00	
16-15			5	0.05 (1)	10.00	
15-14			5	0.03 (3)	10.00	

WEBS FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
24- 3	0 / 824	0.19 (1)
24- 4	-3227 / 0	0.99 (1)
23- 4	0 / 996	0.22 (1)
23- 5	-3375 / 0	0.61 (1)
22- 5	0 / 1136	0.26 (1)
22- 6	-665 / 0	0.20 (1)
21- 6	-443 / 0	0.07 (1)
6-20	-4657 / 0	0.87 (1)
20- 7	0 / 2031	0.46 (1)
7-19	-2279 / 0	0.52 (1)
19- 8	0 / 1630	0.37 (1)
8-17	-1734 / 0	0.58 (1)
17-10	0 / 1493	0.34 (1)
10-16	-1659 / 0	0.89 (1)
16-11	0 / 343	0.08 (1)
16-12	0 / 1283	0.21 (1)
15-12	-1576 / 0	1.00 (1)
15-13	0 / 1805	0.29 (1)
2-24	0 / 2185	0.49 (1)

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	33.3	PSF

SPACING = 24.0 IN. C/C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.28")
CALCULATED VERT. DEFL.(LL) = L/ 722 (0.64")
ALLOWABLE DEFL.(TL)= L/360 (1.28")
CALCULATED VERT. DEFL.(TL) = L/ 408 (1.13")

CSI: TC=0.89 (13-14:1) , BC=0.66 (21-22:1) , WB=1.00 (12-15:1) , SSI=0.15 (12-13:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

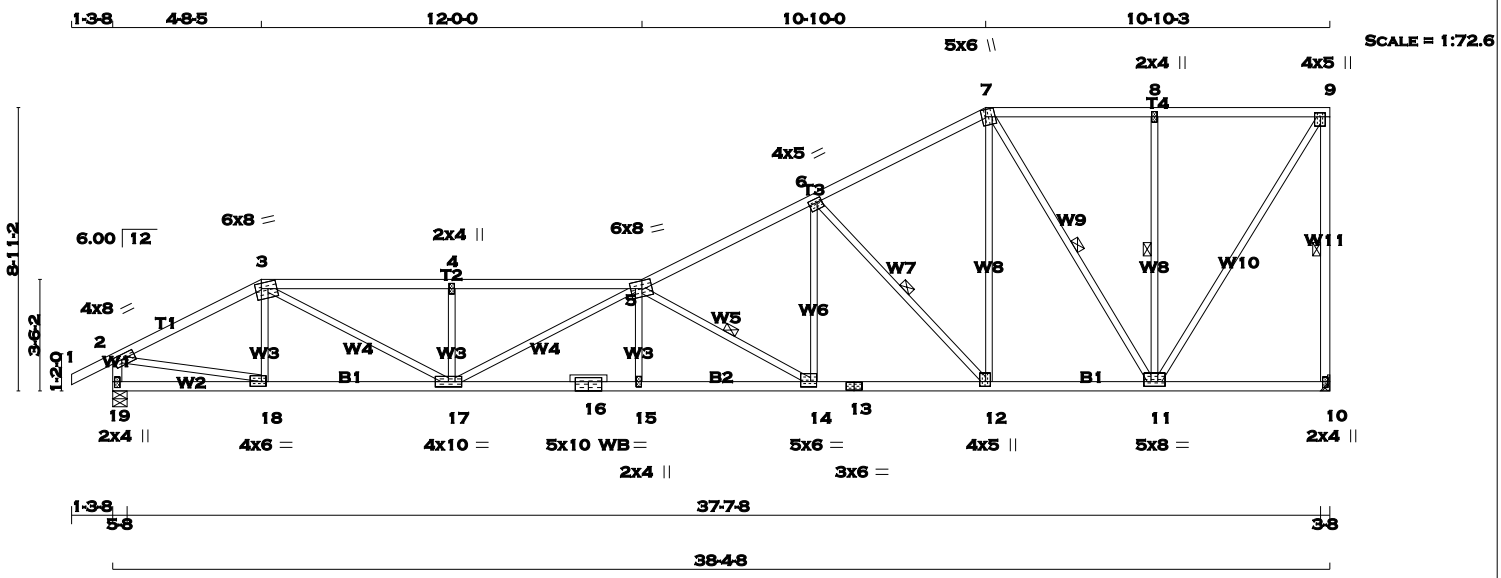
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (15) (INPUT = 0.90)
JSI METAL= 0.86 (22) (INPUT = 1.00)

KOTT

CONTINUED ON PAGE 2



TOTAL WEIGHT = 169 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
5 - 7	2x4	DRY	No.2	SPF
7 - 9	2x4	DRY	No.2	SPF
10 - 9	2x4	DRY	No.2	SPF
19 - 2	2x4	DRY	No.2	SPF
19 - 16	2x4	DRY	No.2	SPF
16 - 13	2x4	DRY	No.2	SPF
13 - 10	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	8.0	1.75	3.00
3	TTWW-m	MT20	6.0	8.0	2.00	2.25
4	TMW+w	MT20	2.0	4.0		
5	TTWWW-m	MT20	6.0	8.0	3.00	3.75
6	TMWW-t	MT20	4.0	5.0	1.50	1.75
7	TTWW+m	MT20	5.0	6.0	Edge	3.50
8	TMW+w	MT20	2.0	4.0		
9	TMVW+p	MT20	4.0	5.0	1.50	1.75
10	BMV1+p	MT20	2.0	4.0	2.25	1.00
11	BMWWW-t	MT20	5.0	8.0	1.75	4.00
12	BMWW+t	MT20	4.0	5.0	1.75	1.75
13	BS-t	MT20	3.0	6.0		
14	BMWW-t	MT20	5.0	6.0	2.00	2.25
15	BMW+w	MT20	2.0	4.0		
16	BS-t	MT20	5.0	10.0		
17	BMWWW-t	MT20	4.0	10.0		
18	BMWW-t	MT20	4.0	6.0	1.75	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.

WB - INDICATES BLOCKING REQUIRED

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
10	1820	0	1820	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 3-8	
19	1925	0	1925	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
10	1277	893 / 0	0 / 0	0 / 0	0 / 0	384 / 0	0 / 0
19	1349	957 / 0	0 / 0	0 / 0	0 / 0	392 / 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 = 2.61 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 9-10. DBS = 8-0-0 . CBF = 89 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 5-14. DBS = 4-0-0 . CBF = 70 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 6-12. DBS = 6-0-0 . CBF = 72 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 7-11. DBS = 12-0-0 . CBF = 87 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 8-11. DBS = 20-0-0 . CBF = 65 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC	MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00	
2- 3	-2640 / 0	-77.3	-77.3	0.44 (1)	3.86	
3- 4	-4463 / 0	-77.3	-77.3	0.94 (1)	2.61	
4- 5	-4463 / 0	-77.3	-77.3	0.94 (1)	2.61	
5- 6	-3260 / 0	-77.3	-77.3	0.66 (1)	3.34	
6- 7	-1843 / 0	-77.3	-77.3	0.48 (1)	4.43	
7- 8	-1035 / 0	-77.3	-77.3	0.41 (1)	5.59	
8- 9	-1035 / 0	-77.3	-77.3	0.41 (1)	5.59	
10- 9	-1781 / 0	0.0	0.0	0.66 (1)	5.00	
19- 2	-1892 / 0	0.0	0.0	0.19 (1)	6.10	
19-18	0 / 0	-17.5	-17.5	0.11 (3)	10.00	
18-17	0 / 2349	-17.5	-17.5	0.44 (1)	10.00	
17-16	0 / 5344	-17.5	-17.5	0.95 (1)	10.00	
16-15	0 / 5344	-17.5	-17.5	0.95 (1)	10.00	
15-14	0 / 5342	-17.5	-17.5	0.93 (1)	10.00	
14-13	0 / 2937	-17.5	-17.5	0.53 (1)	10.00	
13-12	0 / 2937	-17.5	-17.5	0.53 (1)	10.00	
12-11	0 / 1646	-17.5	-17.5	0.33 (1)	10.00	
11-10	0 / 0	-17.5	-17.5	0.13 (3)	10.00	

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
18- 3	-316 / 0	0.07 (1)
3-17	0 / 2397	0.54 (1)
17- 4	-554 / 0	0.11 (1)
17- 5	-1000 / 0	0.83 (1)
15- 5	0 / 107	0.04 (3)
5-14	-2795 / 0	0.79 (1)
14- 6	0 / 1531	0.34 (1)
6-12	-1919 / 0	0.85 (1)
12- 7	0 / 1491	0.34 (1)
7-11	-1164 / 0	0.86 (1)
11- 8	-519 / 0	0.27 (1)
11- 9	0 / 1919	0.43 (1)
2-18	0 / 2397	0.54 (1)

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TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	33.3	PSF

SPACING = 24.0 IN. C/C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.28")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.44")
ALLOWABLE DEFL.(TL)= L/360 (1.28")
CALCULATED VERT. DEFL.(TL) = L/ 590 (0.78")

CSI: TC=0.94 (4-5:1) , BC=0.95 (15-17:1) , WB=0.86 (7-11:1) , SSI=0.22 (4-5:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

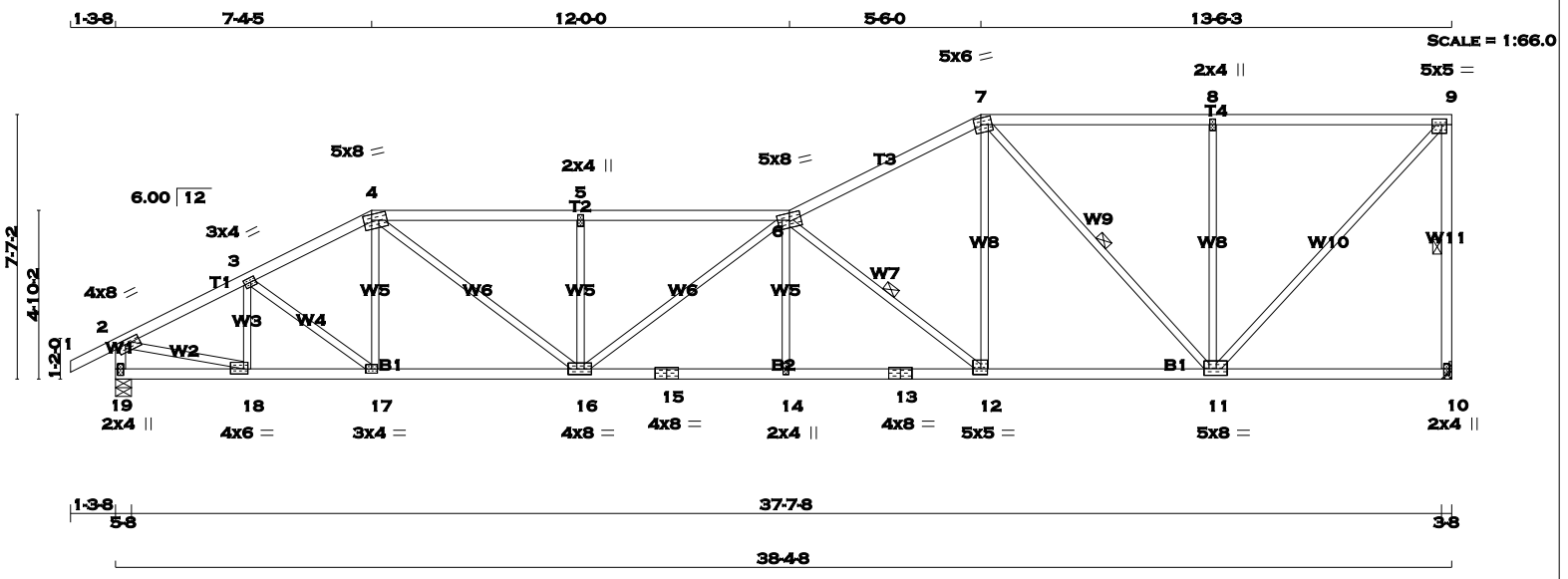
PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (17) (INPUT = 0.90)
JSI METAL= 0.99 (16) (INPUT = 1.00)

KOTT



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
7 - 9	2x4	DRY	No.2	SPF
10 - 9	2x4	DRY	No.2	SPF
19 - 2	2x4	DRY	No.2	SPF
19 - 15	2x4	DRY	No.2	SPF
15 - 13	2x4	DRY	No.2	SPF
13 - 10	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	8.0	1.50	3.00
3	TMWW-t	MT20	3.0	4.0	1.50	1.75
4	TTWW-m	MT20	5.0	8.0	2.00	2.75
5	TMW+w	MT20	2.0	4.0		
6	TTWWW-m	MT20	5.0	8.0		
7	TTWW-m	MT20	5.0	6.0	2.25	2.25
8	TMW+w	MT20	2.0	4.0		
9	TMVW-t	MT20	5.0	5.0	2.00	1.75
10	BMV1+p	MT20	2.0	4.0	2.25	1.00
11	BMWWW-t	MT20	5.0	8.0	2.25	1.75
12	BMWW-t	MT20	5.0	5.0	2.00	2.25
13	BS-t	MT20	4.0	8.0		
14	BMW+w	MT20	2.0	4.0		
15	BS-t	MT20	4.0	8.0		
16	BMWWW-t	MT20	4.0	8.0	2.00	3.00
17	BMWW-t	MT20	3.0	4.0		
18	BMWW-t	MT20	4.0	6.0	1.75	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

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
10	1820	0	1820	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 3-8	
19	1925	0	1925	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	SNOW	MAX./MIN. COMPONENT REACTIONS LIVE	PERM.LIVE	WIND	DEAD	SOIL
10	1277	893 / 0	0 / 0	0 / 0	0 / 0	384 / 0	0 / 0
19	1349	957 / 0	0 / 0	0 / 0	0 / 0	392 / 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 = 3.03 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 9-10. DBS = 8-0-0 . CBF = 89 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 6-12. DBS = 6-0-0 . CBF = 81 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 7-11. DBS = 14-0-0 . CBF = 93 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00
2- 3	-2547 / 0	-77.3	-77.3	0.23 (1)	4.14
3- 4	-2689 / 0	-77.3	-77.3	0.23 (1)	4.03
4- 5	-3559 / 0	-77.3	-77.3	0.80 (1)	3.03
5- 6	-3559 / 0	-77.3	-77.3	0.80 (1)	3.03
6- 7	-2426 / 0	-77.3	-77.3	0.59 (1)	3.84
7- 8	-1474 / 0	-77.3	-77.3	0.71 (1)	4.39
8- 9	-1474 / 0	-77.3	-77.3	0.72 (1)	4.39
10- 9	-1771 / 0	0.0	0.0	0.46 (1)	5.02
19- 2	-1888 / 0	0.0	0.0	0.19 (1)	6.11
19-18	0 / 0	-17.5	-17.5	0.06 (3)	10.00
18-17	0 / 2289	-17.5	-17.5	0.43 (1)	10.00
17-16	0 / 2392	-17.5	-17.5	0.44 (1)	10.00
16-15	0 / 3847	-17.5	-17.5	0.68 (1)	10.00
15-14	0 / 3847	-17.5	-17.5	0.68 (1)	10.00
14-13	0 / 3845	-17.5	-17.5	0.68 (1)	10.00
13-12	0 / 3845	-17.5	-17.5	0.68 (1)	10.00
12-11	0 / 2191	-17.5	-17.5	0.46 (1)	10.00
11-10	0 / 0	-17.5	-17.5	0.20 (3)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
18- 3	-473 / 0	0.09 (1)
3-17	0 / 128	0.03 (1)
17- 4	0 / 70	0.02 (3)
4-16	0 / 1464	0.33 (1)
16- 5	-562 / 0	0.19 (1)
16- 6	-361 / 0	0.39 (1)
14- 6	0 / 110	0.04 (3)
6-12	-2156 / 0	0.77 (1)
12- 7	0 / 1464	0.33 (1)
7-11	-1064 / 0	0.73 (1)
11- 8	-648 / 0	0.68 (1)
11- 9	0 / 2152	0.48 (1)
2-18	0 / 2347	0.53 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	23.3	PSF
	DL =	3.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.0	PSF
TOTAL LOAD	=	33.3	PSF

SPACING = 24.0 IN. C/C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.28")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.28")
ALLOWABLE DEFL.(TL)= L/360 (1.28")
CALCULATED VERT. DEFL.(TL) = L/ 925 (0.50")

CSI: TC=0.80 (4-5:1) , BC=0.68 (14-16:1) , WB=0.77 (6-12:1) , SSI=0.26 (8-9:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) 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= 0.77 (15) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
RAM TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Mon Mar 13 10:23:30 2017 Page 1
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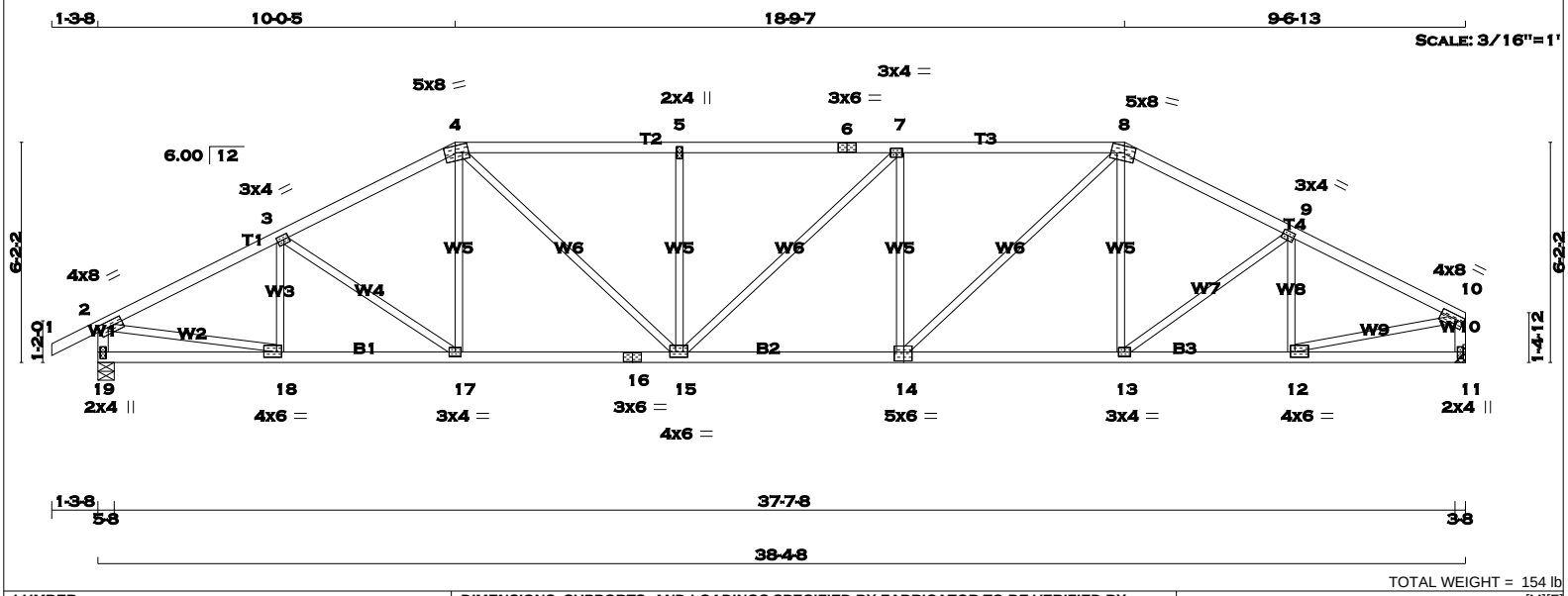

TOTAL WEIGHT = 154 lb [M][F]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 8	2x4	DRY	No.2	SPF
8 - 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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	8.0	1.75	3.00
3	TMWW-t	MT20	3.0	4.0	1.50	1.75
4	TTWW-m	MT20	5.0	8.0	2.25	3.50
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	8.0	2.25	3.50
9	TMWW-t	MT20	3.0	4.0	1.50	1.75
10	TMVW-t	MT20	4.0	8.0	1.50	3.00
11	BMV1+p	MT20	2.0	4.0	2.25	1.00
12	BMWW-t	MT20	4.0	6.0	1.75	1.50
13	BMWW-t	MT20	3.0	4.0		
14	BSWW-l	MT20	5.0	6.0	3.00	2.75
15	BMWWW-t	MT20	4.0	6.0	1.75	2.00
16	BS-t	MT20	3.0	6.0		
17	BMWW-t	MT20	3.0	4.0		
18	BMWW-t	MT20	4.0	6.0	1.75	1.75
19	BMV1+p	MT20	2.0	4.0	2.25	1.00

A SIZE FOR SIZE SUBSTITUTION OF 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 VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
19	1925	0	1925	0	0	5-8	5-8
11	1820	0	1820	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 3-8	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	SNOW	MAX./MIN. COMPONENT REACTIONS LIVE	PERM.LIVE	WIND	DEAD	SOIL
19	1349	957 / 0	0 / 0	0 / 0	0 / 0	392 / 0	0 / 0
11	1277	893 / 0	0 / 0	0 / 0	0 / 0	384 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 19

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.62 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF) FROM	TO	MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00	18- 3	-323 / 0	0.07 (1)
2- 3	-2697 / 0	-77.3	-77.3	0.35 (1)	3.94	3-17	-158 / 0	0.10 (1)
3- 4	-2592 / 0	-77.3	-77.3	0.33 (1)	4.03	17- 4	0 / 195	0.05 (3)
4- 5	-2956 / 0	-77.3	-77.3	0.52 (1)	3.62	4-15	0 / 894	0.20 (1)
5- 6	-2956 / 0	-77.3	-77.3	0.47 (1)	3.68	15- 5	-524 / 0	0.32 (1)
6- 7	-2956 / 0	-77.3	-77.3	0.47 (1)	3.68	15- 7	0 / 30	0.01 (1)
7- 8	-2934 / 0	-77.3	-77.3	0.52 (1)	3.64	14- 7	-546 / 0	0.33 (1)
8- 9	-2514 / 0	-77.3	-77.3	0.30 (1)	4.11	14- 8	0 / 960	0.22 (1)
9-10	-2506 / 0	-77.3	-77.3	0.31 (1)	4.11	13- 8	0 / 124	0.04 (3)
19- 2	-1883 / 0	0.0	0.0	0.19 (1)	6.12	13- 9	-34 / 0	0.02 (1)
11-10	-1780 / 0	0.0	0.0	0.18 (1)	6.26	12- 9	-422 / 0	0.10 (1)
						2-18	0 / 2463	0.55 (1)
19-18	0 / 0	-17.5	-17.5	0.09 (3)	10.00	12-10	0 / 2313	0.52 (1)
18-17	0 / 2429	-17.5	-17.5	0.46 (1)	10.00			
17-16	0 / 2302	-17.5	-17.5	0.44 (1)	10.00			
16-15	0 / 2302	-17.5	-17.5	0.44 (1)	10.00			
15-14	0 / 2934	-17.5	-17.5	0.54 (1)	10.00			
14-13	0 / 2232	-17.5	-17.5	0.42 (1)	10.00			
13-12	0 / 2258	-17.5	-17.5	0.43 (1)	10.00			
12-11	0 / 0	-17.5	-17.5	0.09 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	23.3	PSF
	DL =	3.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.0	PSF
TOTAL LOAD	=	33.3	PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.28")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.20")
ALLOWABLE DEFL.(TL)= L/360 (1.28")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.36")

CSI: TC=0.52 (4-5:1) , BC=0.54 (14-15:1) , WB=0.55 (2-18:1) , SSI=0.23 (7-8:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (2) (INPUT = 0.90)
JSI METAL= 0.61 (18) (INPUT = 1.00)

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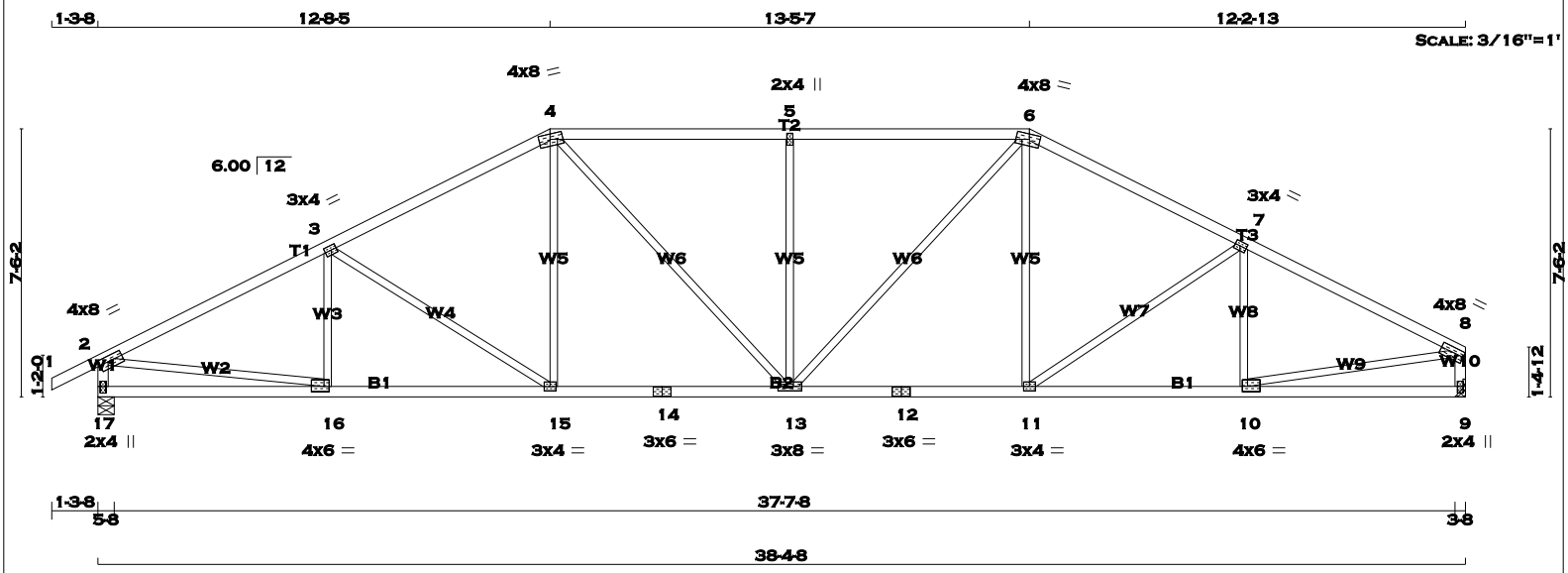
KOTT



TOTAL WEIGHT = 155 lb [M][F]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 8	2x4	DRY	No.2	SPF
17 - 2	2x4	DRY	No.2	SPF
9 - 8	2x4	DRY	No.2	SPF
17 - 14	2x4	DRY	No.2	SPF
14 - 12	2x4	DRY	No.2	SPF
12 - 9	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	8.0	1.75	3.00
3	TMWW-t	MT20	3.0	4.0	1.50	1.75
4	TTWW-m	MT20	4.0	8.0	1.75	3.75
5	TMW+w	MT20	2.0	4.0		
6	TTWW-m	MT20	4.0	8.0	1.75	3.50
7	TMWW-t	MT20	3.0	4.0	1.50	1.75
8	TMVW-t	MT20	4.0	8.0	1.75	Edge
9	BMV1+p	MT20	2.0	4.0	2.25	1.00
10	BMWW-t	MT20	4.0	6.0	1.75	1.75
11	BMWW-t	MT20	3.0	4.0		
12	BS-t	MT20	3.0	6.0		
13	BMWWW-t	MT20	3.0	8.0		
14	BS-t	MT20	3.0	6.0		
15	BMWW-t	MT20	3.0	4.0		
16	BMWW-t	MT20	4.0	6.0	1.75	1.75
17	BMV1+p	MT20	2.0	4.0	2.25	1.00

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
17	1925	0	1925	0	0	5-8	5-8
9	1820	0	1820	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 3-8	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	SNOW	MAX./MIN. COMPONENT REACTIONS LIVE	PERM.LIVE	WIND	DEAD	SOIL
17	1349	957 / 0	0 / 0	0 / 0	0 / 0	392 / 0	0 / 0
9	1277	893 / 0	0 / 0	0 / 0	0 / 0	384 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 17

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.68 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00	16- 3	-214 / 42	0.06 (1)
2- 3	-2762 / 0	-77.3	-77.3	0.58 (1)	3.68	3-15	-410 / 0	0.47 (1)
3- 4	-2429 / 0	-77.3	-77.3	0.52 (1)	3.94	15- 4	0 / 338	0.08 (1)
4- 5	-2484 / 0	-77.3	-77.3	0.57 (1)	3.80	4-13	0 / 486	0.11 (1)
5- 6	-2484 / 0	-77.3	-77.3	0.57 (1)	3.80	13- 5	-639 / 0	0.65 (1)
6- 7	-2383 / 0	-77.3	-77.3	0.47 (1)	4.02	13- 6	0 / 546	0.12 (1)
7- 8	-2605 / 0	-77.3	-77.3	0.52 (1)	3.83	11- 6	0 / 281	0.06 (1)
17- 2	-1876 / 0	0.0	0.0	0.19 (1)	6.13	11- 7	-295 / 0	0.32 (1)
9- 8	-1773 / 0	0.0	0.0	0.18 (1)	6.27	10- 7	-298 / 13	0.09 (1)
						2-16	0 / 2515	0.57 (1)
17-16	0 / 0	-17.5	-17.5	0.16 (3)	10.00	10- 8	0 / 2387	0.54 (1)
16-15	0 / 2493	-17.5	-17.5	0.48 (1)	10.00			
15-14	0 / 2153	-17.5	-17.5	0.43 (1)	10.00			
14-13	0 / 2153	-17.5	-17.5	0.43 (1)	10.00			
13-12	0 / 2112	-17.5	-17.5	0.42 (1)	10.00			
12-11	0 / 2112	-17.5	-17.5	0.42 (1)	10.00			
11-10	0 / 2351	-17.5	-17.5	0.46 (1)	10.00			
10- 9	0 / 0	-17.5	-17.5	0.15 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	33.3	PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.28")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.16")
ALLOWABLE DEFL.(TL)= L/360 (1.28")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.30")

CSI: TC=0.58 (2-3:1) , BC=0.48 (15-16:1) , WB=0.65 (5-13:1) , SSI=0.25 (4-5:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (8) (INPUT = 0.90)
JSI METAL= 0.62 (16) (INPUT = 1.00)

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TOWN OF MILTON
MAR 29, 2017
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BUILDING DIVISION

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KOTT

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Mon Mar 13 10:23:30 2017 Page 1
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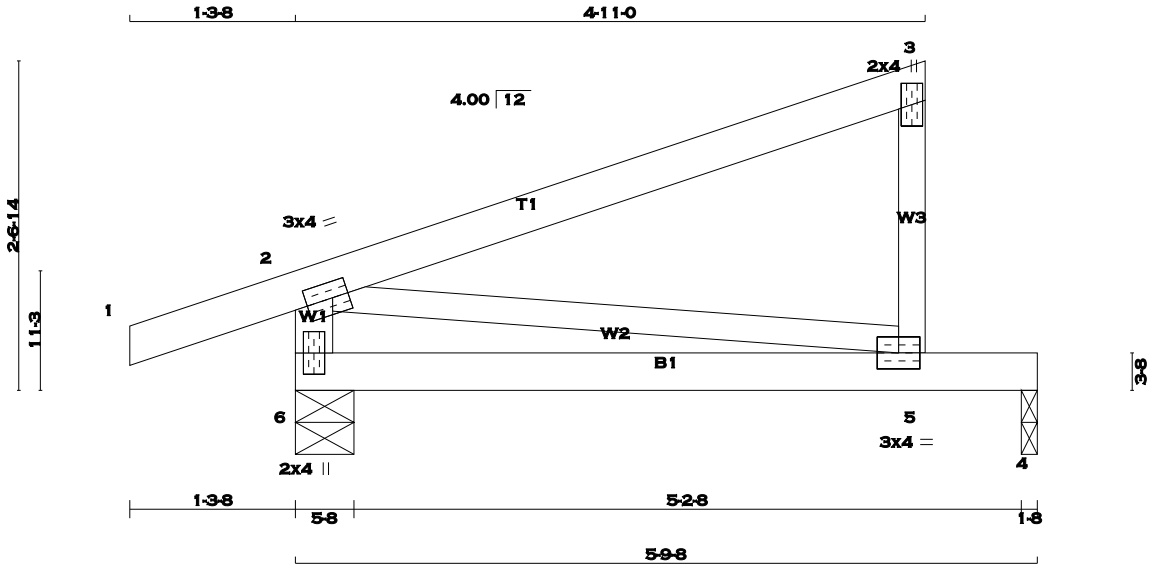

TOTAL WEIGHT = 14 X 20 = 278 lb [M]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
5 - 3	2x3	DRY	No.2	SPF
6 - 2	2x4	DRY	No.2	SPF
6 - 4	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	4.0	1.50	1.50
3	TMV+p	MT20	2.0	4.0		
5	BMVW-t	MT20	3.0	4.0		
6	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
6	373	0	373	0	0	5-8	5-8
4	212	0	212	0	0	1-8	1-8

UNFACTORED REACTIONS

	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
6	260	194 / 0	0 / 0	0 / 0	0 / 0	66 / 0	0 / 0
4	150	97 / 0	0 / 0	0 / 0	0 / 0	53 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6, 4

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC	MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 16	-77.3	-77.3	0.10 (1)		10.00	2- 5	0 / 0	0.00 (1)
2- 3	0 / 0	-77.3	-77.3	0.32 (1)		10.00			
5- 3	-190 / 0	0.0	0.0	0.03 (1)		7.81			
6- 2	-294 / 0	0.0	0.0	0.03 (1)		7.81			
6- 5	0 / 0	-17.5	-17.5	0.25 (1)		10.00			
5- 4	0 / 0	-17.5	-17.5	0.24 (1)		10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP	CH.	LL =	23.3	PSF
		DL =	3.0	PSF
BOT	CH.	LL =	0.0	PSF
		DL =	7.0	PSF
TOTAL	LOAD	=	33.3	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 586 (0.12")

CSI: TC=0.32 (2-3:1) , BC=0.25 (5-6:1) , WB=0.00 (2-5:1) , SSI=0.17 (4-5:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI)		SHEAR (PLI)		SECTION (PLI)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.27 (2) (INPUT = 0.90)
JSI METAL= 0.05 (6) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
R.M. TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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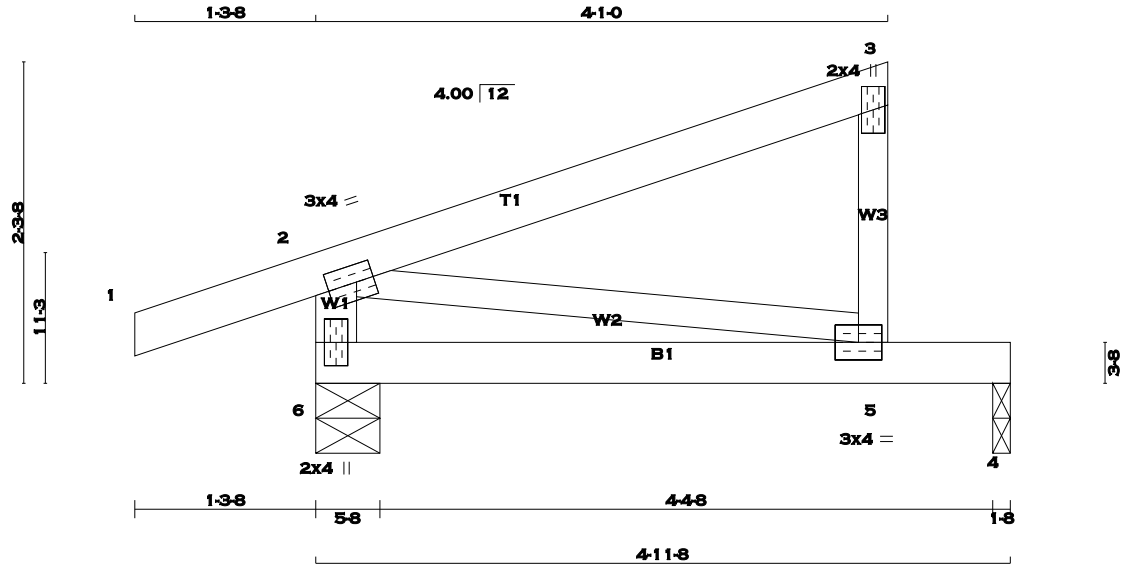
KOTT



TOTAL WEIGHT = 5 X 17 = 85 lb [M]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
5 - 3	2x3	DRY	No.2	SPF
6 - 2	2x4	DRY	No.2	SPF
6 - 4	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	4.0	1.50	1.50
3	TMV+p	MT20	2.0	4.0		
5	BMVW-t	MT20	3.0	4.0		
6	BMV1+p	MT20	2.0	4.0		

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 VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
6	333	0	333	0	0	5-8	5-8
4	173	0	173	0	0	1-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
6	231	174 / 0	0 / 0	0 / 0	0 / 0	57 / 0	0 / 0
4	123	78 / 0	0 / 0	0 / 0	0 / 0	45 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6, 4

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 16	-77.3	-77.3	0.10 (1)	10.00	2- 5	0 / 0	0.00 (1)
2- 3	0 / 0	-77.3	-77.3	0.22 (1)	10.00			
5- 3	-158 / 0	0.0	0.0	0.03 (1)	7.81			
6- 2	-261 / 0	0.0	0.0	0.03 (1)	7.81			
6- 5	0 / 0	-17.5	-17.5	0.20 (1)	10.00			
5- 4	0 / 0	-17.5	-17.5	0.20 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	33.3	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 872 (0.07")

CSI: TC=0.22 (2-3:1) , BC=0.20 (5-6:1) , WB=0.00 (2-5:1) , SSI=0.14 (4-5:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.24 (2) (INPUT = 0.90)
JSI METAL= 0.05 (6) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
RAM TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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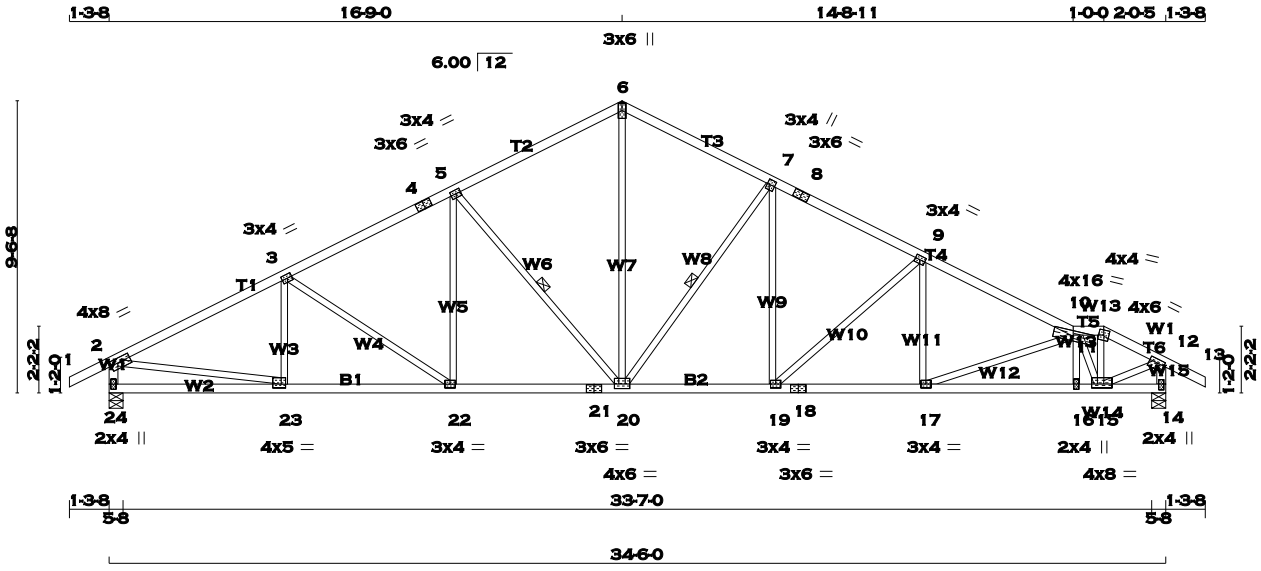
KOTT



TOTAL WEIGHT = 150 lb [M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 8	2x4	DRY	No.2	SPF
8 - 10	2x4	DRY	No.2	SPF
10 - 11	2x4	DRY	No.2	SPF
11 - 13	2x4	DRY	No.2	SPF
24 - 2	2x4	DRY	No.2	SPF
14 - 12	2x4	DRY	No.2	SPF
24 - 21	2x4	DRY	No.2	SPF
21 - 18	2x4	DRY	No.2	SPF
18 - 14	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	8.0	1.75	3.00
3, 5, 9						
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	6.0		
7	TMWW+t	MT20	3.0	4.0	2.00	0.75
8	TS-t	MT20	3.0	6.0		
10	TTWWW-m	MT20	4.0	16.0	1.75	7.75
11	TTW-m	MT20	4.0	4.0		
12	TMVW-t	MT20	4.0	6.0	1.50	3.00
14	BMV1+p	MT20	2.0	4.0	2.25	1.00
15	BMWWW-t	MT20	4.0	8.0	1.50	2.25
16	BMW+w	MT20	2.0	4.0		
17, 19, 22						
17	BMWW-t	MT20	3.0	4.0		
18	BS-t	MT20	3.0	6.0		
20	BMWWW-t	MT20	4.0	6.0	1.75	3.00
21	BS-t	MT20	3.0	6.0		
23	BMWW-t	MT20	4.0	5.0	1.50	1.75
24	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 VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
24	1741	0	1741	0	0	5-8	5-8
14	1741	0	1741	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
24	1220	866 / 0	0 / 0	0 / 0	0 / 0	353 / 0	0 / 0
14	1220	866 / 0	0 / 0	0 / 0	0 / 0	353 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 24, 14

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.03 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 5-20. DBS = 20-0-0 . CBF = 81 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 7-20. DBS = 18-0-0 . 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC	MAX CSI	MAX. UNBRAC LENGTH
1- 2	0 / 23	-77.3	-77.3	0.10 (1)		10.00
2- 3	-2409 / 0	-77.3	-77.3	0.41 (1)		4.08
3- 4	-2185 / 0	-77.3	-77.3	0.33 (1)		4.34
4- 5	-2185 / 0	-77.3	-77.3	0.33 (1)		4.34
5- 6	-1731 / 0	-77.3	-77.3	0.32 (1)		4.76
6- 7	-1729 / 0	-77.3	-77.3	0.25 (1)		4.83
7- 8	-2207 / 0	-77.3	-77.3	0.26 (1)		4.38
8- 9	-2207 / 0	-77.3	-77.3	0.26 (1)		4.38
9-10	-2621 / 0	-77.3	-77.3	0.32 (1)		4.03
10-11	-1737 / 0	-77.3	-77.3	0.04 (1)		5.05
11-12	-1900 / 0	-77.3	-77.3	0.08 (1)		4.83
12-13	0 / 23	-77.3	-77.3	0.10 (1)		10.00
24- 2	-1697 / 0	0.0	0.0	0.17 (1)		6.38
14-12	-1722 / 0	0.0	0.0	0.17 (1)		6.34
24-23	0 / 0	-17.5	-17.5	0.12 (3)		10.00
23-22	0 / 2171	-17.5	-17.5	0.40 (1)		10.00
22-21	0 / 1954	-17.5	-17.5	0.38 (1)		10.00
21-20	0 / 1954	-17.5	-17.5	0.38 (1)		10.00
20-19	0 / 1975	-17.5	-17.5	0.38 (1)		10.00
19-18	0 / 2360	-17.5	-17.5	0.43 (1)		10.00
18-17	0 / 2360	-17.5	-17.5	0.43 (1)		10.00
17-16	0 / 2391	-17.5	-17.5	0.45 (1)		10.00
16-15	0 / 2392	-17.5	-17.5	0.41 (1)		10.00
15-14	0 / 0	-17.5	-17.5	0.02 (3)		10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI
23- 3	-221 / 27	0.06 (1)
3-22	-261 / 0	0.21 (1)
22- 5	0 / 240	0.05 (1)
5-20	-651 / 0	0.32 (1)
20- 6	0 / 1205	0.27 (1)
20- 7	-755 / 0	0.36 (1)
19- 7	0 / 416	0.09 (1)
19- 9	-513 / 0	0.40 (1)
17- 9	0 / 113	0.04 (3)
17-10	-34 / 0	0.02 (1)
16-10	0 / 69	0.02 (3)
10-15	-1523 / 0	0.23 (1)
15-11	0 / 739	0.17 (1)
2-23	0 / 2195	0.49 (1)
15-12	0 / 1829	0.41 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	23.3	PSF
	DL =	3.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.0	PSF
TOTAL LOAD	=	33.3	PSF

SPACING = 24.0 IN. C/C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.15")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.14")
ALLOWABLE DEFL.(TL)= L/360 (1.15")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.24")

CSI: TC=0.41 (2-3:1) , BC=0.45 (16-17:1) , WB=0.49 (2-23:1) , 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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

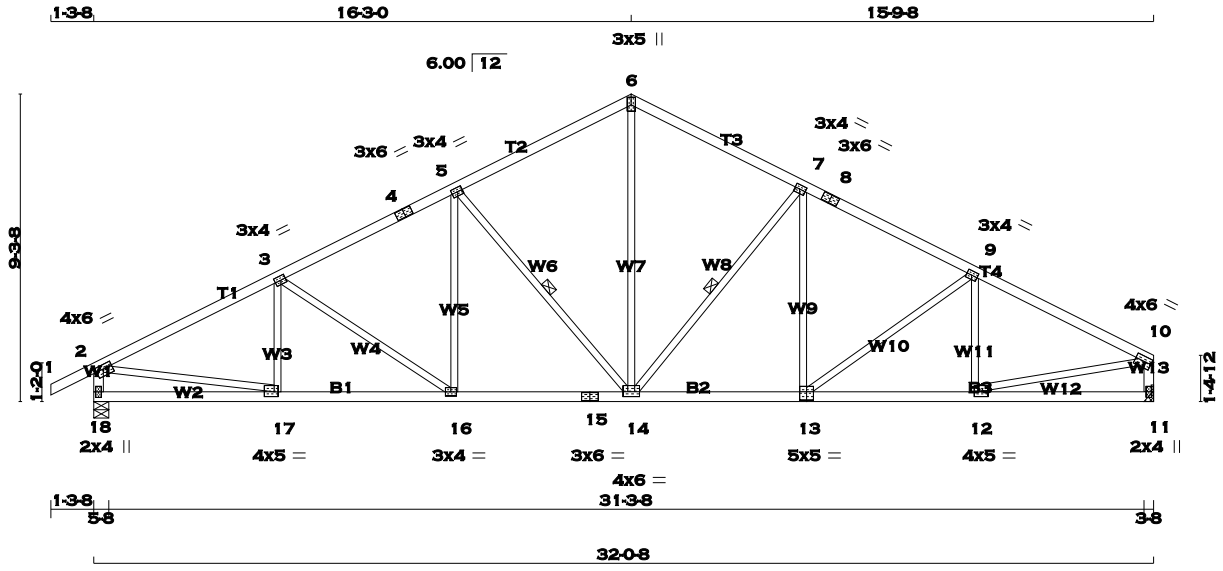
JSI GRIP= 0.90 (20) (INPUT = 0.90)
JSI METAL= 0.83 (10) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
RAM TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT



TOTAL WEIGHT = 3 X 135 = 405 lb [M][F]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 8	2x4	DRY	No.2	SPF
8 - 10	2x4	DRY	No.2	SPF
18 - 2	2x4	DRY	No.2	SPF
11 - 10	2x4	DRY	No.2	SPF
18 - 15	2x4	DRY	No.2	SPF
15 - 13	2x4	DRY	No.2	SPF
13 - 11	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 3, 5, 7, 9	TMVW-t	MT20	4.0	6.0	1.50	2.75
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
8	TS-t	MT20	3.0	6.0		
10	TMVW-t	MT20	4.0	6.0	1.75	2.75
11	BMV1+p	MT20	2.0	4.0		
12	BMWW-t	MT20	4.0	5.0	1.75	1.50
13	BSWW-l	MT20	5.0	5.0	3.00	2.50
14	BMWWW-t	MT20	4.0	6.0	1.75	3.00
15	BS-t	MT20	3.0	6.0		
16	BMWW-t	MT20	3.0	4.0		
17	BMWW-t	MT20	4.0	5.0	1.75	1.50
18	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
18	1624	0	1624	0	0	5-8	5-8
11	1520	0	1520	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 3-8	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	SNOW	MAX./MIN. COMPONENT REACTIONS LIVE	PERM.LIVE	WIND	DEAD	SOIL
18	1138	809 / 0	0 / 0	0 / 0	0 / 0	329 / 0	0 / 0
11	1066	746 / 0	0 / 0	0 / 0	0 / 0	320 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 18

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.28 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 5-14, 7-14. DBS = 20-0-0 . CBF = 79 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"X3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF) FROM	TO	MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00	17- 3	-205 / 29	0.05 (1)
2- 3	-2205 / 0	-77.3	-77.3	0.36 (1)	4.28	3-16	-262 / 0	0.20 (1)
3- 4	-1980 / 0	-77.3	-77.3	0.30 (1)	4.55	16- 5	0 / 238	0.05 (1)
4- 5	-1980 / 0	-77.3	-77.3	0.30 (1)	4.55	5-14	-636 / 0	0.29 (1)
5- 6	-1538 / 0	-77.3	-77.3	0.29 (1)	5.02	14- 6	0 / 1029	0.23 (1)
6- 7	-1537 / 0	-77.3	-77.3	0.27 (1)	5.04	14- 7	-576 / 0	0.26 (1)
7- 8	-1927 / 0	-77.3	-77.3	0.28 (1)	4.61	13- 7	0 / 190	0.04 (3)
8- 9	-1927 / 0	-77.3	-77.3	0.28 (1)	4.61	13- 9	-175 / 0	0.13 (1)
9-10	-2067 / 0	-77.3	-77.3	0.33 (1)	4.43	12- 9	-275 / 6	0.07 (1)
18- 2	-1582 / 0	0.0	0.0	0.16 (1)	6.56	2-17	0 / 2011	0.45 (1)
11-10	-1478 / 0	0.0	0.0	0.15 (1)	6.74	12-10	0 / 1902	0.43 (1)
18-17	0 / 0	-17.5	-17.5	0.12 (3)	10.00			
17-16	0 / 1987	-17.5	-17.5	0.36 (1)	10.00			
16-15	0 / 1771	-17.5	-17.5	0.35 (1)	10.00			
15-14	0 / 1771	-17.5	-17.5	0.35 (1)	10.00			
14-13	0 / 1723	-17.5	-17.5	0.34 (1)	10.00			
13-12	0 / 1864	-17.5	-17.5	0.35 (1)	10.00			
12-11	0 / 0	-17.5	-17.5	0.11 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	23.3	PSF	
	DL =	3.0	PSF	
BOT CH.	LL =	0.0	PSF	
	DL =	7.0	PSF	
TOTAL LOAD	=	33.3	PSF	

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.07")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.10")
ALLOWABLE DEFL.(TL)= L/360 (1.07")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.19")

CSI: TC=0.36 (2-3:1) , BC=0.36 (16-17:1) , WB=0.45 (2-17:1) , SSI=0.18 (2-3:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (12) (INPUT = 0.90)
JSI METAL= 0.60 (17) (INPUT = 1.00)

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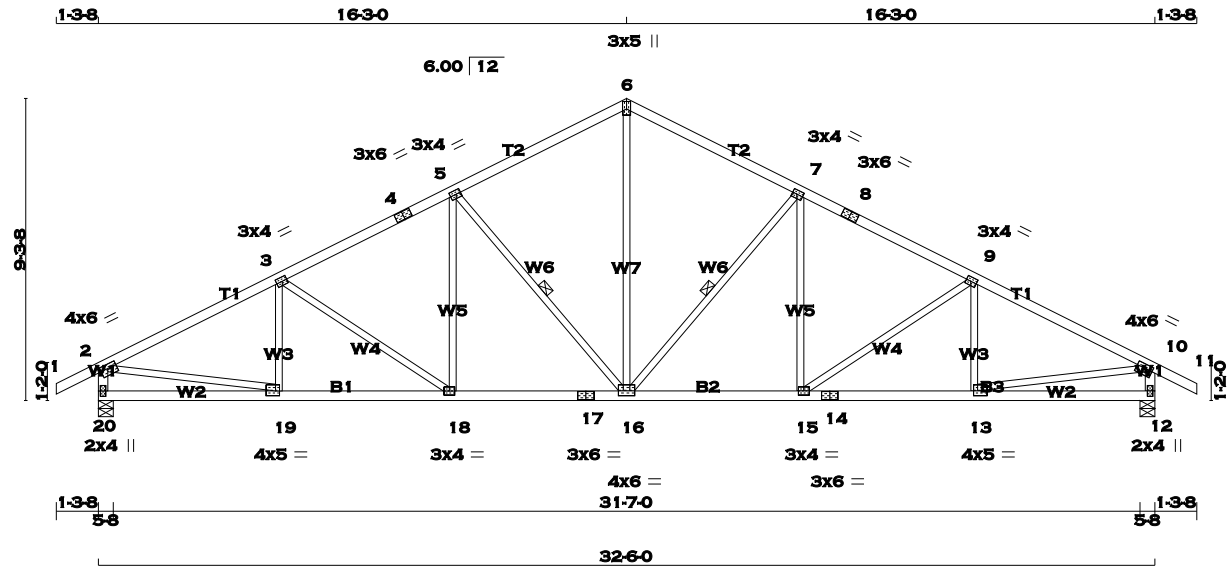
KOTT



TOTAL WEIGHT = 15 X 138 = 2063 lb [M][F]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 8	2x4	DRY	No.2	SPF
8 - 11	2x4	DRY	No.2	SPF
20 - 2	2x4	DRY	No.2	SPF
12 - 10	2x4	DRY	No.2	SPF
20 - 17	2x4	DRY	No.2	SPF
17 - 14	2x4	DRY	No.2	SPF
14 - 12	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2 3, 5, 7, 9	TMVW-t	MT20	4.0	6.0	1.50	2.75
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
8	TS-t	MT20	3.0	6.0		
10	TMVW-t	MT20	4.0	6.0	1.50	2.75
12	BMV1+p	MT20	2.0	4.0		
13	BMWW-t	MT20	4.0	5.0	1.75	1.50
14	BS-t	MT20	3.0	6.0		
15	BMWW-t	MT20	3.0	4.0		
16	BMWWW-t	MT20	4.0	6.0	1.75	3.00
17	BS-t	MT20	3.0	6.0		
18	BMWW-t	MT20	3.0	4.0		
19	BMWW-t	MT20	4.0	5.0	1.75	1.50
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

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
20	1646	0	1646	0	0	5-8	5-8
12	1646	0	1646	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
20	1153	820 / 0	0 / 0	0 / 0	0 / 0	333 / 0	0 / 0
12	1153	820 / 0	0 / 0	0 / 0	0 / 0	333 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 20, 12

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 7-16, 5-16. DBS = 20-0-0 . CBF = 79 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"X3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00
2- 3	-2242 / 0	-77.3	-77.3	0.37 (1)	4.25
3- 4	-2022 / 0	-77.3	-77.3	0.30 (1)	4.50
4- 5	-2022 / 0	-77.3	-77.3	0.30 (1)	4.50
5- 6	-1582 / 0	-77.3	-77.3	0.29 (1)	4.96
6- 7	-1582 / 0	-77.3	-77.3	0.29 (1)	4.96
7- 8	-2022 / 0	-77.3	-77.3	0.30 (1)	4.50
8- 9	-2022 / 0	-77.3	-77.3	0.30 (1)	4.50
9-10	-2242 / 0	-77.3	-77.3	0.37 (1)	4.25
10-11	0 / 23	-77.3	-77.3	0.10 (1)	10.00
20- 2	-1604 / 0	0.0	0.0	0.16 (1)	6.52
12-10	-1604 / 0	0.0	0.0	0.16 (1)	6.52
20-19	0 / 0	-17.5	-17.5	0.12 (3)	10.00
19-18	0 / 2021	-17.5	-17.5	0.37 (1)	10.00
18-17	0 / 1808	-17.5	-17.5	0.35 (1)	10.00
17-16	0 / 1808	-17.5	-17.5	0.35 (1)	10.00
16-15	0 / 1808	-17.5	-17.5	0.35 (1)	10.00
15-14	0 / 2021	-17.5	-17.5	0.37 (1)	10.00
14-13	0 / 2021	-17.5	-17.5	0.37 (1)	10.00
13-12	0 / 0	-17.5	-17.5	0.12 (3)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
16- 6	0 / 1064	0.24 (1)
16- 7	-633 / 0	0.29 (1)
15- 7	0 / 235	0.05 (1)
15- 9	-257 / 0	0.19 (1)
13- 9	-210 / 28	0.05 (1)
5-16	-633 / 0	0.29 (1)
18- 5	0 / 235	0.05 (1)
3-18	-257 / 0	0.19 (1)
19- 3	-210 / 28	0.05 (1)
2-19	0 / 2044	0.46 (1)
13-10	0 / 2044	0.46 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	33.3	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.08")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.11")
ALLOWABLE DEFL.(TL)= L/360 (1.08")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.20")

CSI: TC=0.37 (2-3:1) , BC=0.37 (18-19:1) , WB=0.46 (2-19:1) , 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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) 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 (19) (INPUT = 0.90)
JSI METAL= 0.61 (19) (INPUT = 1.00)

RECEIVED
TOWN OF MILTON
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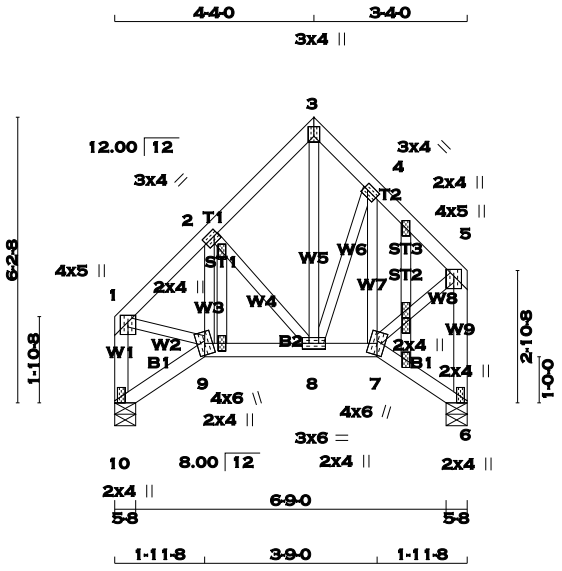
BUILDING DIVISION

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT



TOTAL WEIGHT = 2 X 49 = 98 lb
[M][F]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
10 - 1	2x4	DRY	No.2	SPF
6 - 5	2x4	DRY	No.2	SPF
10 - 9	2x4	DRY	No.2	SPF
9 - 7	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
ALL GABLE WEBS	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW+p	MT20	4.0	5.0	1.75	2.00
2	TMWW-t	MT20	3.0	4.0	1.50	1.00
3	TTW+p	MT20	3.0	4.0	Edge	
4	TMWW-t	MT20	3.0	4.0	1.50	1.00
5	TMVW+p	MT20	4.0	5.0	1.75	2.00
6	BMV1+p	MT20	2.0	4.0	Edge	
7	BBWW+m	MT20	4.0	6.0		
8	BMWWW-t	MT20	3.0	6.0		
9	BBWW+m	MT20	4.0	6.0		
10	BMV1+p	MT20	2.0	4.0	Edge	
11, 12, 13, 14, 15						
11	NP+w	MT20	2.0	4.0		
15	NP+w	MT20	2.0	4.0	1.25	1.00

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
10	364	0	364	0	0	5-8	5-8
6	364	0	364	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
10	255	178 / 0	0 / 0	0 / 0	0 / 0	77 / 0	0 / 0
6	255	178 / 0	0 / 0	0 / 0	0 / 0	77 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 10, 6

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC	MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	-307 / 0	-77.3	-77.3	0.04 (1)	6.25	
2- 3	-213 / 0	-77.3	-77.3	0.04 (1)	6.25	
3- 4	-214 / 0	-77.3	-77.3	0.02 (1)	6.25	
4- 5	-214 / 0	-77.3	-77.3	0.04 (1)	6.25	
10- 1	-346 / 0	0.0	0.0	0.04 (1)	7.81	
6- 5	-346 / 0	0.0	0.0	0.06 (1)	7.81	
10- 9	0 / 0	-17.5	-17.5	0.02 (3)	10.00	
9- 8	0 / 228	-17.5	-17.5	0.05 (1)	10.00	
8- 7	0 / 160	-17.5	-17.5	0.03 (1)	10.00	
7- 6	0 / 0	-17.5	-17.5	0.02 (3)	10.00	

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
9- 2	-21 / 22	0.01 (3)
8- 2	-130 / 0	0.03 (1)
8- 3	0 / 182	0.04 (1)
8- 4	-53 / 0	0.01 (1)
7- 4	-93 / 0	0.02 (1)
1- 9	0 / 234	0.05 (1)
7- 5	0 / 198	0.04 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	33.3	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.26")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.26")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.06 (5-6:1) , BC=0.05 (8-9:1) , WB=0.05 (1-9:1) , SSI=0.06 (2-3:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.58 (3) (INPUT = 0.90)
JSI METAL= 0.08 (10) (INPUT = 1.00)

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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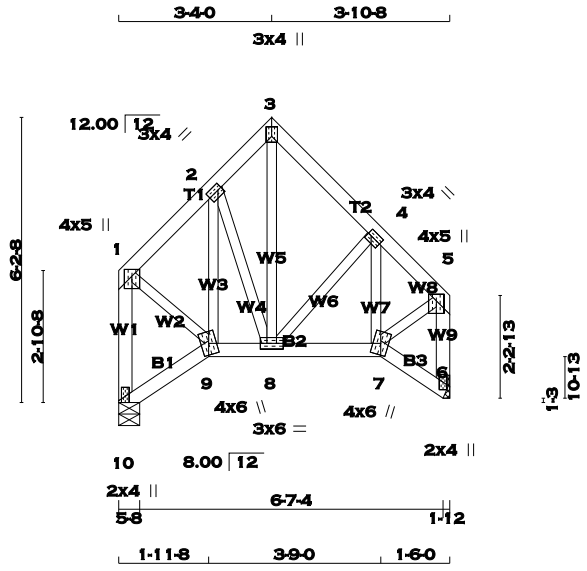
KOTT



TOTAL WEIGHT = 2 X 43 = 87 lb
[M][F]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
10 - 1	2x4	DRY	No.2	SPF
6 - 5	2x4	DRY	No.2	SPF
10 - 9	2x4	DRY	No.2	SPF
9 - 7	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW+p	MT20	4.0	5.0	1.75	2.00
2	TMWW-t	MT20	3.0	4.0	1.50	1.00
3	TTW+p	MT20	3.0	4.0	Edge	
4	TMWW-t	MT20	3.0	4.0	1.50	1.00
5	TMVW+p	MT20	4.0	5.0	1.75	2.00
6	BMV1+p	MT20	2.0	4.0		
7	BBWW+m	MT20	4.0	6.0		
8	BMWWW-t	MT20	3.0	6.0		
9	BBWW+m	MT20	4.0	6.0		
10	BMV1+p	MT20	2.0	4.0	Edge	

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
10	342	0	342	0	0	5-8	5-8
6	342	0	342	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 1-12	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
10	240	168 / 0	0 / 0	0 / 0	0 / 0	72 / 0	0 / 0
6	240	168 / 0	0 / 0	0 / 0	0 / 0	72 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 10

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	-197 / 0	-77.3	-77.3	0.04 (1)	6.25
2- 3	-193 / 0	-77.3	-77.3	0.03 (1)	6.25
3- 4	-190 / 0	-77.3	-77.3	0.04 (1)	6.25
4- 5	-233 / 0	-77.3	-77.3	0.04 (1)	6.25
10- 1	-325 / 0	0.0	0.0	0.06 (1)	7.81
6- 5	-329 / 0	0.0	0.0	0.04 (1)	7.81
10- 9	0 / 0	-17.5	-17.5	0.02 (3)	10.00
9- 8	0 / 147	-17.5	-17.5	0.03 (1)	10.00
8- 7	0 / 178	-17.5	-17.5	0.04 (1)	10.00
7- 6	0 / 0	-17.5	-17.5	0.01 (3)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
9- 2	-84 / 0	0.02 (1)
2- 8	-61 / 0	0.02 (1)
8- 3	0 / 151	0.03 (1)
8- 4	-78 / 0	0.02 (1)
7- 4	-80 / 3	0.01 (1)
1- 9	0 / 183	0.04 (1)
7- 5	0 / 208	0.05 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	33.3	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.24")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.24")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.06 (1-10:1) , BC=0.04 (7-8:1) , WB=0.05 (5-7:1) , SSI=0.06 (3-4:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.48 (3) (INPUT = 0.90)
JSI METAL= 0.08 (6) (INPUT = 1.00)

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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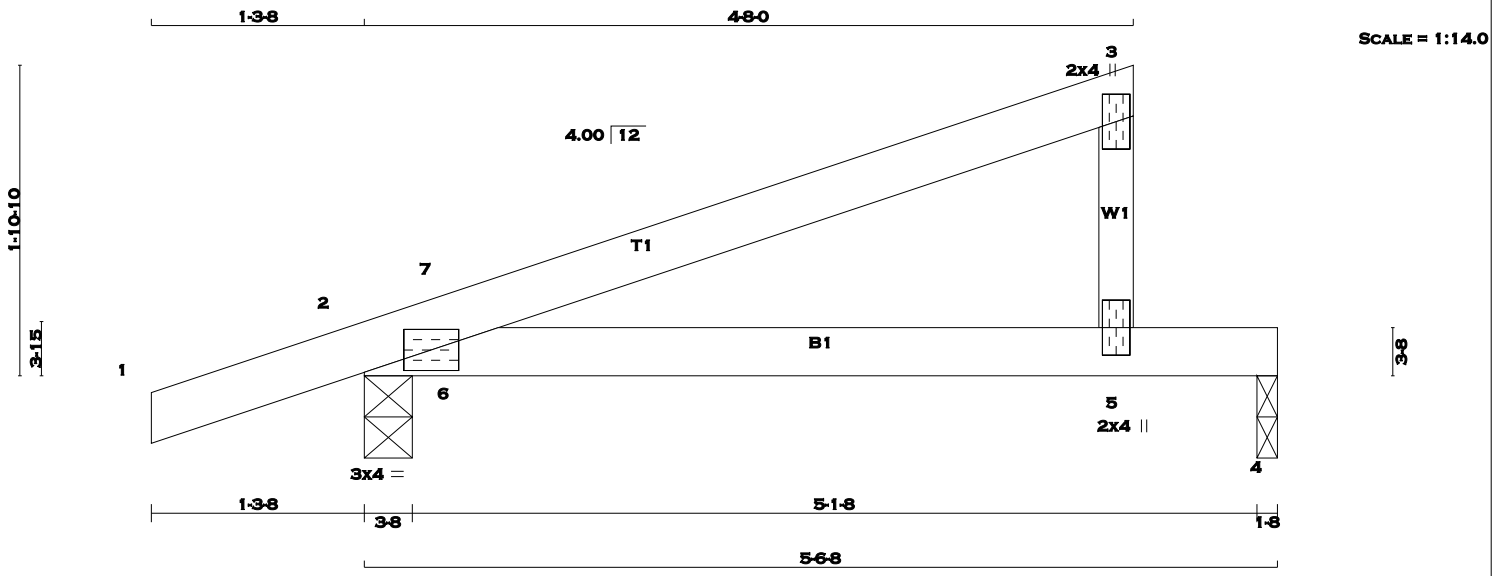
KOTT



TOTAL WEIGHT = 2 X 15 = 29 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
5 - 3	2x3	DRY	No.2	SPF
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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
2	361	0	361	0	0	3-8	3-8
4	200	0	200	0	0	1-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
2	251	188 / 0	0 / 0	0 / 0	0 / 0	63 / 0	0 / 0
4	142	91 / 0	0 / 0	0 / 0	0 / 0	51 / 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 15	-77.3	-77.3	0.10 (1)	10.00	6- 7	-91 / 58	0.00 (1)
2- 7	-28 / 0	-77.3	-77.3	0.09 (3)	6.25			
7- 3	0 / 4	-77.3	-77.3	0.25 (1)	10.00			
5- 3	-169 / 0	0.0	0.0	0.03 (1)	7.81			
2- 6	0 / 0	-17.5	-17.5	0.13 (1)	10.00			
6- 5	0 / 0	-17.5	-17.5	0.24 (1)	10.00			
5- 4	0 / 0	-17.5	-17.5	0.23 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	33.3	PSF

SPACING = 24.0 IN. C/C

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 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 556 (0.12")

CSI: TC=0.25 (3-7:1) , BC=0.24 (5-6:1) , WB=0.00 (6-7:1) , SSI=0.16 (4-5:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (2) (INPUT = 0.90)
JSI METAL= 0.05 (2) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
R.M. TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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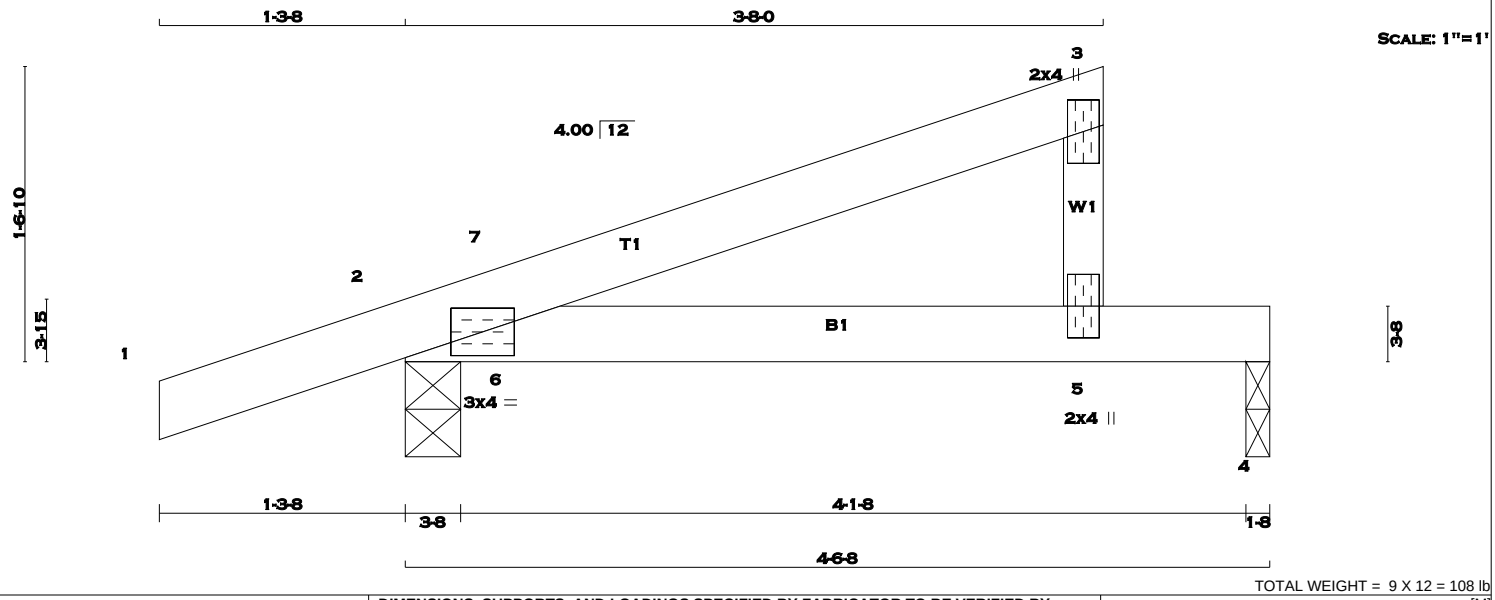
KOTT



TOTAL WEIGHT = 9 X 12 = 108 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
5 - 3	2x3	DRY	No.2	SPF
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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
2	312	0	312	0	0	3-8	3-8
4	154	0	154	0	0	1-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
2	217	164 / 0	0 / 0	0 / 0	0 / 0	53 / 0	0 / 0
4	110	69 / 0	0 / 0	0 / 0	0 / 0	41 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 2, 4

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC	MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 15	-77.3	-77.3	0.10 (1)		10.00	6- 7	-46 / 43	0.00 (1)
2- 7	-28 / 0	-77.3	-77.3	0.07 (1)		6.25			
7- 3	0 / 5	-77.3	-77.3	0.16 (1)		10.00			
5- 3	-134 / 0	0.0	0.0	0.02 (1)		7.81			
2- 6	0 / 0	-17.5	-17.5	0.08 (1)		10.00			
6- 5	0 / 0	-17.5	-17.5	0.18 (1)		10.00			
5- 4	0 / 0	-17.5	-17.5	0.17 (1)		10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	33.3	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 978 (0.06")

CSI: TC=0.16 (3-7:1) , BC=0.18 (5-6:1) , WB=0.00 (6-7:1) , SSI=0.12 (4-5:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.15 (2) (INPUT = 0.90)
JSI METAL= 0.05 (2) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
RAM TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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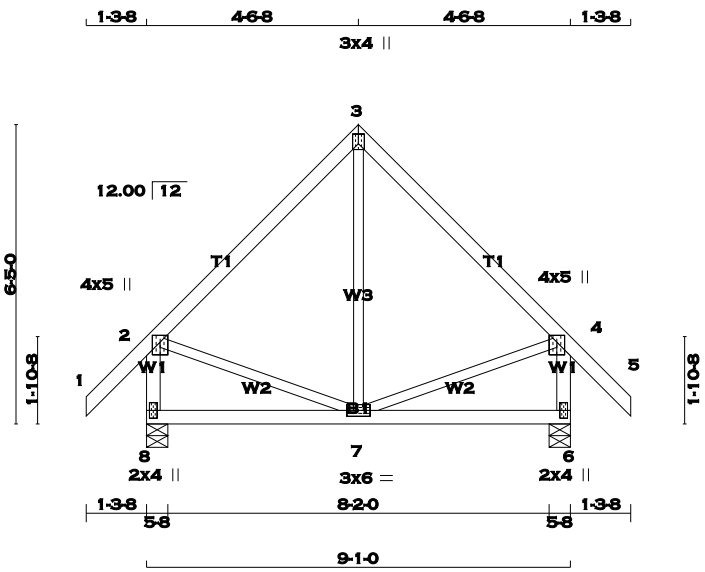
KOTT



TOTAL WEIGHT = 6 X 45 = 270 lb

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
8 - 2	2x4	DRY	No.2	SPF
6 - 4	2x4	DRY	No.2	SPF
8 - 6	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW+p	MT20	4.0	5.0	1.75	2.00
3	TTW+p	MT20	3.0	4.0	Edge	
4	TMVW+p	MT20	4.0	5.0	1.75	2.00
6	BMV1+p	MT20	2.0	4.0		
7	BMWWW-t	MT20	3.0	6.0		
8	BMV1+p	MT20	2.0	4.0		

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
8	539	0	539	0	0	5-8	5-8
6	539	0	539	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
8	376	276 / 0	0 / 0	0 / 0	0 / 0	99 / 0	0 / 0
6	376	276 / 0	0 / 0	0 / 0	0 / 0	99 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8, 6

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 38	-77.3	-77.3	0.11 (1)	10.00	7- 3	-15 / 73	0.03 (3)
2- 3	-238 / 0	-77.3	-77.3	0.20 (1)	6.25	2- 7	0 / 177	0.04 (1)
3- 4	-238 / 0	-77.3	-77.3	0.20 (1)	6.25	7- 4	0 / 177	0.04 (1)
4- 5	0 / 38	-77.3	-77.3	0.11 (1)	10.00			
8- 2	-508 / 0	0.0	0.0	0.06 (1)	7.81			
6- 4	-508 / 0	0.0	0.0	0.06 (1)	7.81			
8- 7	0 / 0	-17.5	-17.5	0.10 (3)	10.00			
7- 6	0 / 0	-17.5	-17.5	0.10 (3)	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 (0.30")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.30")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.20 (2-3:1) , BC=0.10 (6-7:3) , WB=0.04 (4-7:1) , 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

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.36 (3) (INPUT = 0.90)
JSI METAL= 0.09 (6) (INPUT = 1.00)

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BUILDING DIVISION

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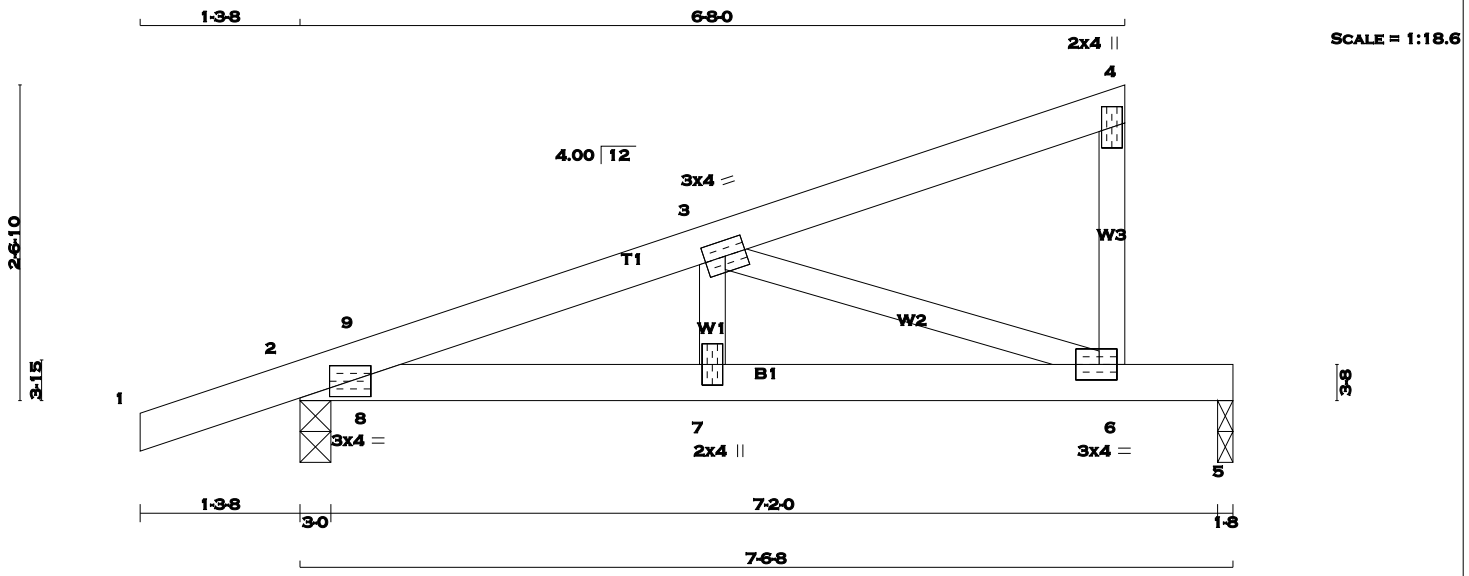

TOTAL WEIGHT = 6 X 23 = 139 lb
[M][F]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
6 - 4	2x3	DRY	No.2	SPF
2 - 5	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMB1-I	MT20	3.0	4.0		
3	TMWW-t	MT20	3.0	4.0		
4	TMV+p	MT20	2.0	4.0		
6	BMVW-t	MT20	3.0	4.0	1.50	1.75
7	BMW+w	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
2	457	0	457	0	0	3-0	3-0
5	294	0	294	0	0	1-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
2	319	236 / 0	0 / 0	0 / 0	0 / 0	83 / 0	0 / 0
5	208	137 / 0	0 / 0	0 / 0	0 / 0	70 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 2, 5

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 15	-77.3	-77.3	0.10 (1)	10.00	7- 3	0 / 190	0.04 (1)
2- 9	-732 / 0	-77.3	-77.3	0.01 (1)	6.25	3- 6	-726 / 0	0.16 (1)
9- 3	-717 / 0	-77.3	-77.3	0.07 (1)	6.25	8- 9	-84 / 2	0.00 (1)
3- 4	-6 / 0	-77.3	-77.3	0.10 (1)	10.00			
6- 4	-110 / 0	0.0	0.0	0.02 (1)	7.81			
2- 8	0 / 687	-17.5	-17.5	0.17 (1)	10.00			
8- 7	0 / 687	-17.5	-17.5	0.20 (1)	10.00			
7- 6	0 / 687	-17.5	-17.5	0.45 (1)	10.00			
6- 5	0 / 0	-17.5	-17.5	0.34 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	33.3	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.25")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.25")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.09")

CSI: TC=0.10 (3-4:1) , BC=0.45 (6-7:1) , WB=0.16 (3-6:1) , SSI=0.23 (5-6:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (6) (INPUT = 0.90)
JSI METAL= 0.26 (6) (INPUT = 1.00)

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BUILDING DIVISION

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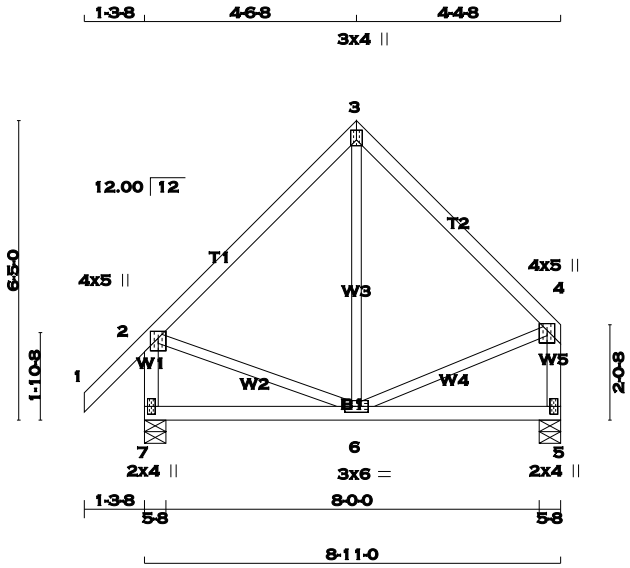

TOTAL WEIGHT = 4 X 43 = 170 lb

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 4	2x4	DRY	No.2	SPF
7 - 2	2x4	DRY	No.2	SPF
5 - 4	2x4	DRY	No.2	SPF
7 - 5	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW+p	MT20	4.0	5.0	1.75	2.00
3	TTW+p	MT20	3.0	4.0	Edge	
4	TMVW+p	MT20	4.0	5.0	1.75	2.00
5	BMV1+p	MT20	2.0	4.0		
6	BMWWW-t	MT20	3.0	6.0		
7	BMV1+p	MT20	2.0	4.0		

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
7	531	0	531	0	0	5-8	5-8
5	423	0	423	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
7	370	273 / 0	0 / 0	0 / 0	0 / 0	98 / 0	0 / 0
5	297	208 / 0	0 / 0	0 / 0	0 / 0	89 / 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 38	-77.3	-77.3	0.11 (1)	10.00	6- 3	-21 / 70	0.02 (3)
2- 3	-229 / 0	-77.3	-77.3	0.20 (1)	6.25	2- 6	0 / 171	0.04 (1)
3- 4	-229 / 0	-77.3	-77.3	0.19 (1)	6.25	6- 4	0 / 174	0.04 (1)
7- 2	-500 / 0	0.0	0.0	0.06 (1)	7.81			
5- 4	-394 / 0	0.0	0.0	0.05 (1)	7.81			
7- 6	0 / 0	-17.5	-17.5	0.10 (3)	10.00			
6- 5	0 / 0	-17.5	-17.5	0.10 (3)	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 (0.30")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.30")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.20 (2-3:1) , BC=0.10 (6-7:3) , WB=0.04 (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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.35 (2) (INPUT = 0.90)
JSI METAL= 0.09 (7) (INPUT = 1.00)

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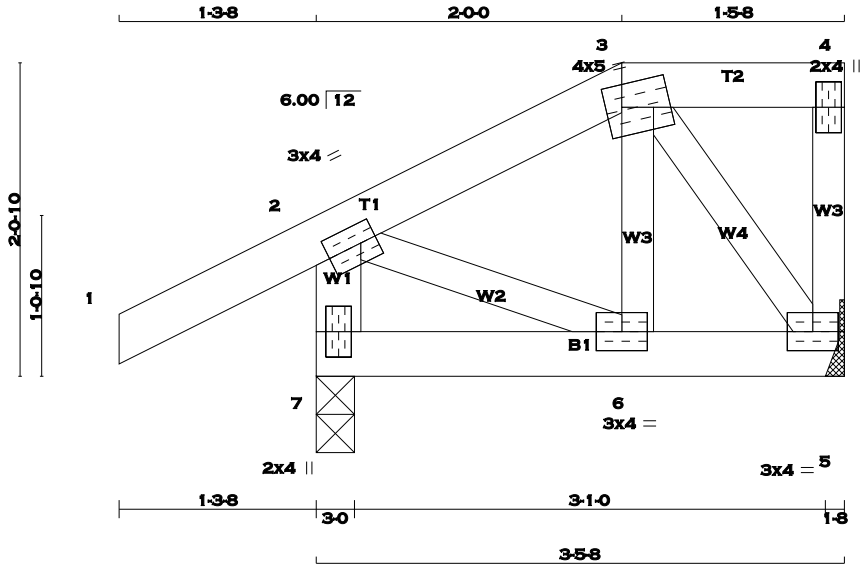

TOTAL WEIGHT = 16 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 4	2x4	DRY	No.2	SPF
5 - 4	2x3	DRY	No.2	SPF
7 - 2	2x4	DRY	No.2	SPF
7 - 5	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	4.0	1.50	1.25
3	TTWW-m	MT20	4.0	5.0	1.75	1.25
4	TMV+p	MT20	2.0	4.0		
5	BMVW1-t	MT20	3.0	4.0		
6	BMWW-t	MT20	3.0	4.0		
7	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
5	164	0	164	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 1-8	
7	269	0	269	0	0	3-0	3-0

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	115	81 / 0	0 / 0	0 / 0	0 / 0	35 / 0	0 / 0
7	186	144 / 0	0 / 0	0 / 0	0 / 0	43 / 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 MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00	6- 3	0 / 32	0.01 (3)
2- 3	-91 / 0	-77.3	-77.3	0.05 (1)	6.25	3- 5	-127 / 0	0.02 (1)
3- 4	0 / 0	-77.3	-77.3	0.03 (1)	10.00	2- 6	0 / 86	0.02 (1)
5- 4	-56 / 0	0.0	0.0	0.01 (1)	7.81			
7- 2	-252 / 0	0.0	0.0	0.03 (1)	7.81			
7- 6	0 / 0	-17.5	-17.5	0.02 (3)	10.00			
6- 5	0 / 81	-17.5	-17.5	0.02 (3)	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

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 (0.19")
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 (5-6:3) , WB=0.02 (3-5:1) , SSI=0.07 (1-2:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) 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= 0.06 (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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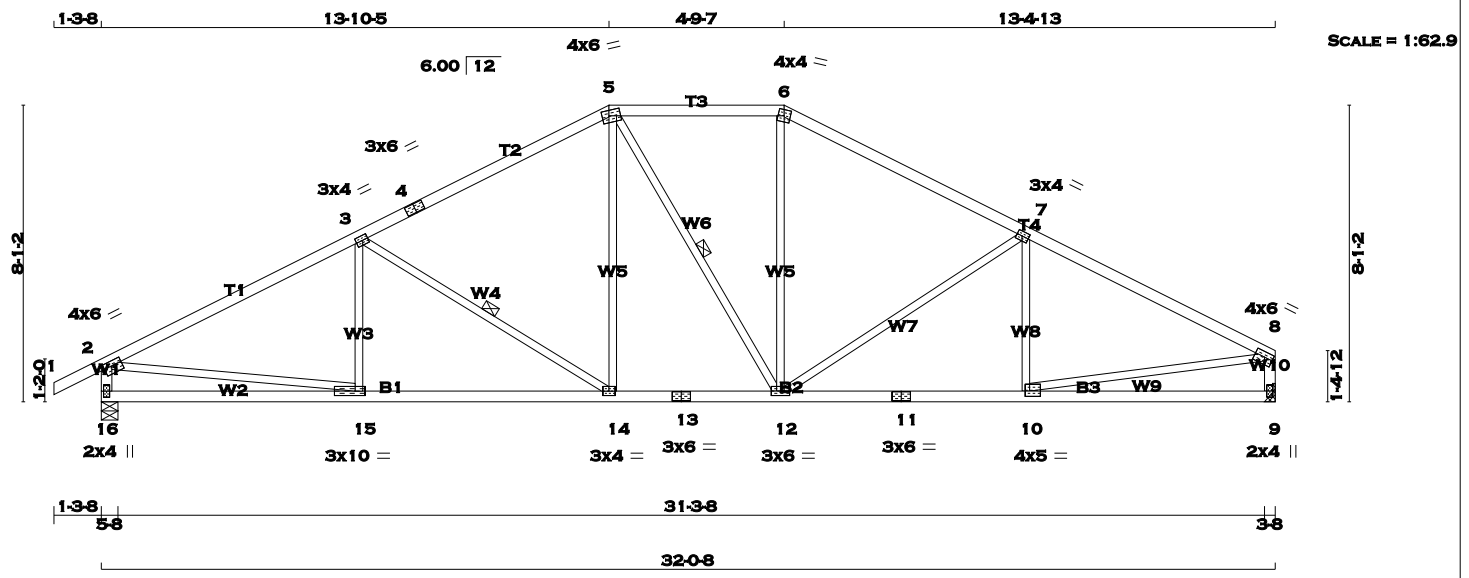

TOTAL WEIGHT = 130 lb
[M][F]

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 - 6	2x4	DRY	No.2	SPF
6 - 8	2x4	DRY	No.2	SPF
16 - 2	2x4	DRY	No.2	SPF
9 - 8	2x4	DRY	No.2	SPF
16 - 13	2x4	DRY	No.2	SPF
13 - 11	2x4	DRY	No.2	SPF
11 - 9	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	6.0	1.50	2.75
3	TMWW-t	MT20	3.0	4.0	1.50	1.75
4	TS-t	MT20	3.0	6.0		
5	TTWW-m	MT20	4.0	6.0	1.75	2.25
6	TTW-m	MT20	4.0	4.0		
7	TMWW-t	MT20	3.0	4.0	1.50	1.75
8	TMVW-t	MT20	4.0	6.0	1.75	2.75
9	BMV1+p	MT20	2.0	4.0		
10	BMWW-t	MT20	4.0	5.0	1.75	1.50
11	BS-t	MT20	3.0	6.0		
12	BMWWW-t	MT20	3.0	6.0		
13	BS-t	MT20	3.0	6.0		
14	BMWW-t	MT20	3.0	4.0		
15	BMWW-t	MT20	3.0	10.0	1.50	3.25
16	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 VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
16	1624	0	1624	0	0	5-8	5-8
9	1520	0	1520	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 3-8	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
16	1138	809 / 0	0 / 0	0 / 0	0 / 0	329 / 0	0 / 0
9	1066	746 / 0	0 / 0	0 / 0	0 / 0	320 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 16

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.93 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 3-14, 5-12. DBS = 20-0-0 . CBF = 73 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"X3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00	15- 3	-110 / 86	0.04 (1)
2- 3	-2236 / 0	-77.3	-77.3	0.63 (1)	3.93	3-14	-582 / 0	0.27 (1)
3- 4	-1745 / 0	-77.3	-77.3	0.56 (1)	4.42	14- 5	0 / 407	0.09 (1)
4- 5	-1745 / 0	-77.3	-77.3	0.56 (1)	4.42	5-12	-25 / 0	0.01 (1)
5- 6	-1526 / 0	-77.3	-77.3	0.26 (1)	5.06	12- 6	0 / 386	0.09 (1)
6- 7	-1730 / 0	-77.3	-77.3	0.51 (1)	4.50	12- 7	-483 / 0	0.66 (1)
7- 8	-2122 / 0	-77.3	-77.3	0.57 (1)	4.09	10- 7	-175 / 63	0.06 (1)
16- 2	-1573 / 0	0.0	0.0	0.16 (1)	6.58	2-15	0 / 2041	0.46 (1)
9- 8	-1470 / 0	0.0	0.0	0.15 (1)	6.75	10- 8	0 / 1946	0.44 (1)
16-15	0 / 0	-17.5	-17.5	0.21 (3)	10.00			
15-14	0 / 2026	-17.5	-17.5	0.43 (1)	10.00			
14-13	0 / 1539	-17.5	-17.5	0.31 (1)	10.00			
13-12	0 / 1539	-17.5	-17.5	0.31 (1)	10.00			
12-11	0 / 1922	-17.5	-17.5	0.40 (1)	10.00			
11-10	0 / 1922	-17.5	-17.5	0.40 (1)	10.00			
10- 9	0 / 0	-17.5	-17.5	0.20 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	33.3	PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.07")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.10")
ALLOWABLE DEFL.(TL)= L/360 (1.07")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.21")

CSI: TC=0.63 (2-3:1) , BC=0.43 (14-15:1) , WB=0.66 (7-12:1) , SSI=0.23 (2-3:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (15) (INPUT = 0.90)
JSI METAL= 0.60 (2) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
RAM TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Mon Mar 13 10:23:34 2017 Page 1
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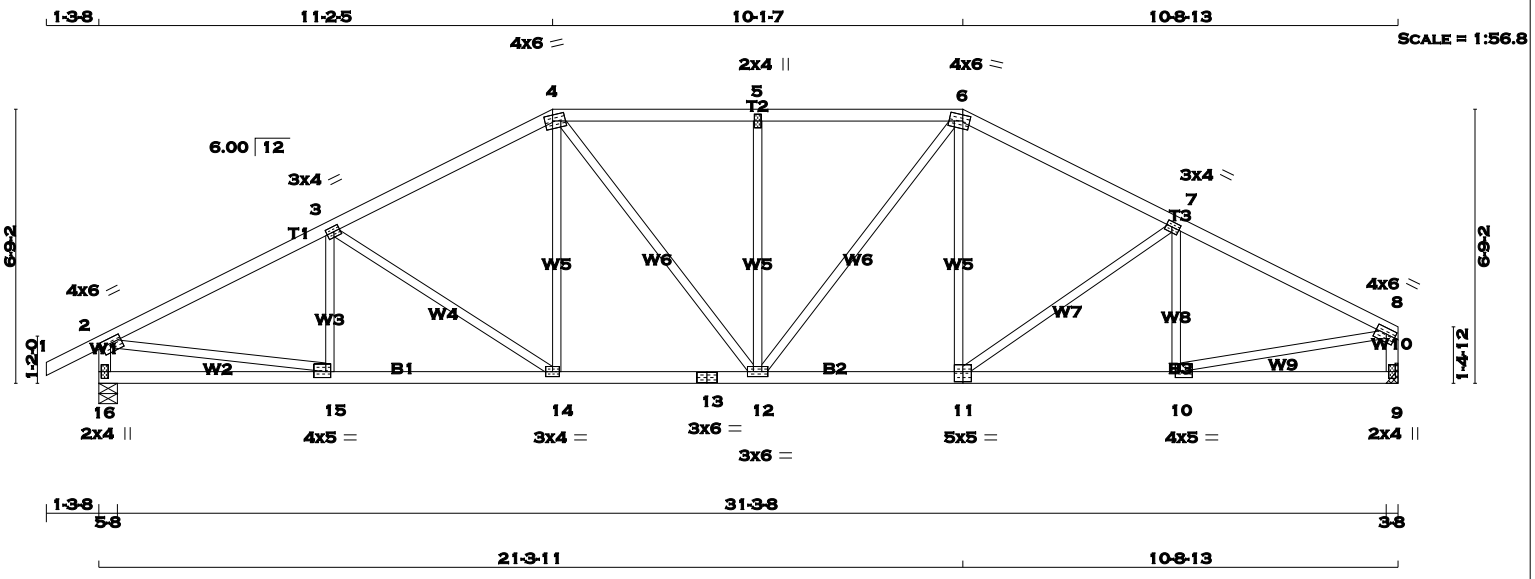

TOTAL WEIGHT = 132 lb

[M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 8	2x4	DRY	No.2	SPF
16 - 2	2x4	DRY	No.2	SPF
9 - 8	2x4	DRY	No.2	SPF
16 - 13	2x4	DRY	No.2	SPF
13 - 11	2x4	DRY	No.2	SPF
11 - 9	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	6.0	1.50	2.75
3	TMWW-t	MT20	3.0	4.0	1.50	1.75
4	TTWW-m	MT20	4.0	6.0	1.75	2.25
5	TMW+w	MT20	2.0	4.0		
6	TTWW-m	MT20	4.0	6.0	1.75	2.00
7	TMWW-t	MT20	3.0	4.0	1.50	1.75
8	TMVW-t	MT20	4.0	6.0	1.75	2.75
9	BMV1+p	MT20	2.0	4.0		
10	BMWW-t	MT20	4.0	5.0	1.75	1.50
11	BSWW-l	MT20	5.0	5.0	3.00	2.50
12	BMWWW-t	MT20	3.0	6.0		
13	BS-t	MT20	3.0	6.0		
14	BMWW-t	MT20	3.0	4.0		
15	BMWW-t	MT20	4.0	5.0	1.75	1.50
16	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 VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
16	1624	0	1624	0	0	5-8	5-8
9	1520	0	1520	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 3-8	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
16	1138	809 / 0	0 / 0	0 / 0	0 / 0	329 / 0	0 / 0
9	1066	746 / 0	0 / 0	0 / 0	0 / 0	320 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 16

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.23 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF) FROM	TO	MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00	15- 3	-198 / 36	0.05 (1)
2- 3	-2220 / 0	-77.3	-77.3	0.39 (1)	4.23	3-14	-349 / 0	0.29 (1)
3- 4	-1941 / 0	-77.3	-77.3	0.36 (1)	4.49	14- 4	0 / 289	0.07 (1)
4- 5	-1921 / 0	-77.3	-77.3	0.30 (1)	4.58	4-12	0 / 326	0.07 (1)
5- 6	-1921 / 0	-77.3	-77.3	0.30 (1)	4.58	12- 5	-477 / 0	0.36 (1)
6- 7	-1903 / 0	-77.3	-77.3	0.33 (1)	4.57	12- 6	0 / 382	0.09 (1)
7- 8	-2081 / 0	-77.3	-77.3	0.35 (1)	4.39	11- 6	0 / 235	0.05 (1)
16- 2	-1581 / 0	0.0	0.0	0.16 (1)	6.56	11- 7	-244 / 0	0.19 (1)
9- 8	-1478 / 0	0.0	0.0	0.15 (1)	6.74	10- 7	-274 / 9	0.07 (1)
						2-15	0 / 2028	0.46 (1)
16-15	0 / 0	-17.5	-17.5	0.13 (3)	10.00	10- 8	0 / 1917	0.43 (1)
15-14	0 / 2006	-17.5	-17.5	0.38 (1)	10.00			
14-13	0 / 1720	-17.5	-17.5	0.33 (1)	10.00			
13-12	0 / 1720	-17.5	-17.5	0.33 (1)	10.00			
12-11	0 / 1685	-17.5	-17.5	0.32 (1)	10.00			
11-10	0 / 1880	-17.5	-17.5	0.35 (1)	10.00			
10- 9	0 / 0	-17.5	-17.5	0.12 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	33.3	PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.07")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.10")
ALLOWABLE DEFL.(TL)= L/360 (1.07")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.19")

CSI: TC=0.39 (2-3:1) , BC=0.38 (14-15:1) , WB=0.46 (2-15:1) , SSI=0.19 (4-5:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) 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= 0.60 (15) (INPUT = 1.00)

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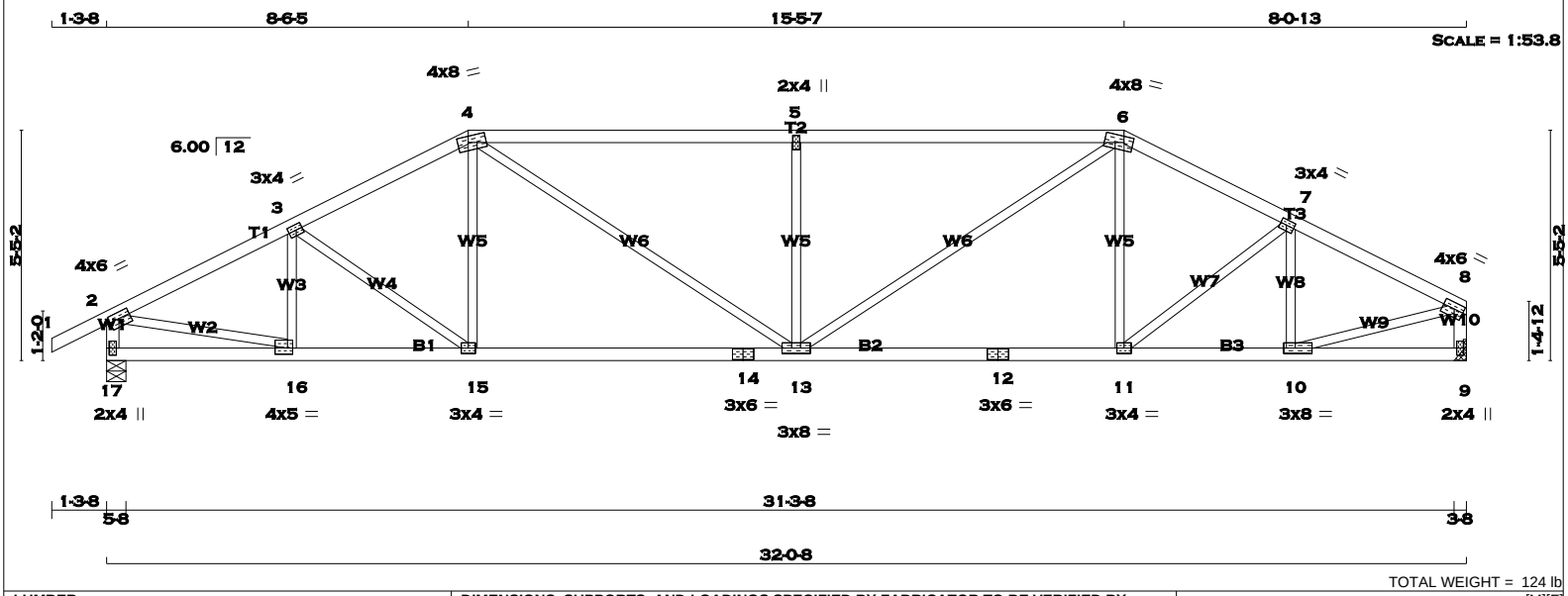
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT



TOTAL WEIGHT = 124 lb [M][F]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 8	2x4	DRY	No.2	SPF
17 - 2	2x4	DRY	No.2	SPF
9 - 8	2x4	DRY	No.2	SPF
17 - 14	2x4	DRY	No.2	SPF
14 - 12	2x4	DRY	No.2	SPF
12 - 9	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	6.0	1.75	2.75
3	TMWW-t	MT20	3.0	4.0	1.50	1.75
4	TTWW-m	MT20	4.0	8.0	1.75	3.00
5	TMW+w	MT20	2.0	4.0		
6	TTWW-m	MT20	4.0	8.0	1.75	2.50
7	TMWW-t	MT20	3.0	4.0	1.50	1.75
8	TMVW-t	MT20	4.0	6.0	1.75	2.75
9	BMV1+p	MT20	2.0	4.0		
10	BMWW-t	MT20	3.0	8.0	1.50	3.25
11	BMWW-t	MT20	3.0	4.0		
12	BS-t	MT20	3.0	6.0		
13	BMWWW-t	MT20	3.0	8.0		
14	BS-t	MT20	3.0	6.0		
15	BMWW-t	MT20	3.0	4.0		
16	BMWW-t	MT20	4.0	5.0	1.75	1.50
17	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 VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
17	1624	0	1624	0	0	5-8	5-8
9	1520	0	1520	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 3-8	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
17	1138	809 / 0	0 / 0	0 / 0	0 / 0	329 / 0	0 / 0
9	1066	746 / 0	0 / 0	0 / 0	0 / 0	320 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 17

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.49 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00	16- 3	-321 / 0	0.06 (1)
2- 3	-2146 / 0	-77.3	-77.3	0.22 (1)	4.46	3-15	-85 / 0	0.04 (1)
3- 4	-2103 / 0	-77.3	-77.3	0.22 (1)	4.50	15- 4	0 / 168	0.04 (3)
4- 5	-2493 / 0	-77.3	-77.3	0.77 (1)	3.49	4-13	0 / 750	0.17 (1)
5- 6	-2493 / 0	-77.3	-77.3	0.77 (1)	3.49	13- 5	-737 / 0	0.32 (1)
6- 7	-2030 / 0	-77.3	-77.3	0.19 (1)	4.60	13- 6	0 / 829	0.19 (1)
7- 8	-1972 / 0	-77.3	-77.3	0.19 (1)	4.65	11- 6	0 / 107	0.04 (3)
17- 2	-1586 / 0	0.0	0.0	0.16 (1)	6.55	11- 7	0 / 29	0.01 (3)
9- 8	-1483 / 0	0.0	0.0	0.15 (1)	6.73	10- 7	-413 / 0	0.08 (1)
						2-16	0 / 1970	0.44 (1)
17-16	0 / 0	-17.5	-17.5	0.08 (3)	10.00	10- 8	0 / 1838	0.41 (1)
16-15	0 / 1934	-17.5	-17.5	0.40 (1)	10.00			
15-14	0 / 1868	-17.5	-17.5	0.41 (1)	10.00			
14-13	0 / 1868	-17.5	-17.5	0.41 (1)	10.00			
13-12	0 / 1802	-17.5	-17.5	0.40 (1)	10.00			
12-11	0 / 1802	-17.5	-17.5	0.40 (1)	10.00			
11-10	0 / 1777	-17.5	-17.5	0.37 (1)	10.00			
10- 9	0 / 0	-17.5	-17.5	0.07 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	23.3	PSF
	DL =	3.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.0	PSF
TOTAL LOAD	=	33.3	PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.07")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.13")
ALLOWABLE DEFL.(TL)= L/360 (1.07")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.25")

CSI: TC=0.77 (4-5:1) , BC=0.41 (13-15:1) , WB=0.44 (2-16:1) , SSI=0.29 (4-5:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) 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 (6) (INPUT = 0.90)
JSI METAL= 0.58 (16) (INPUT = 1.00)

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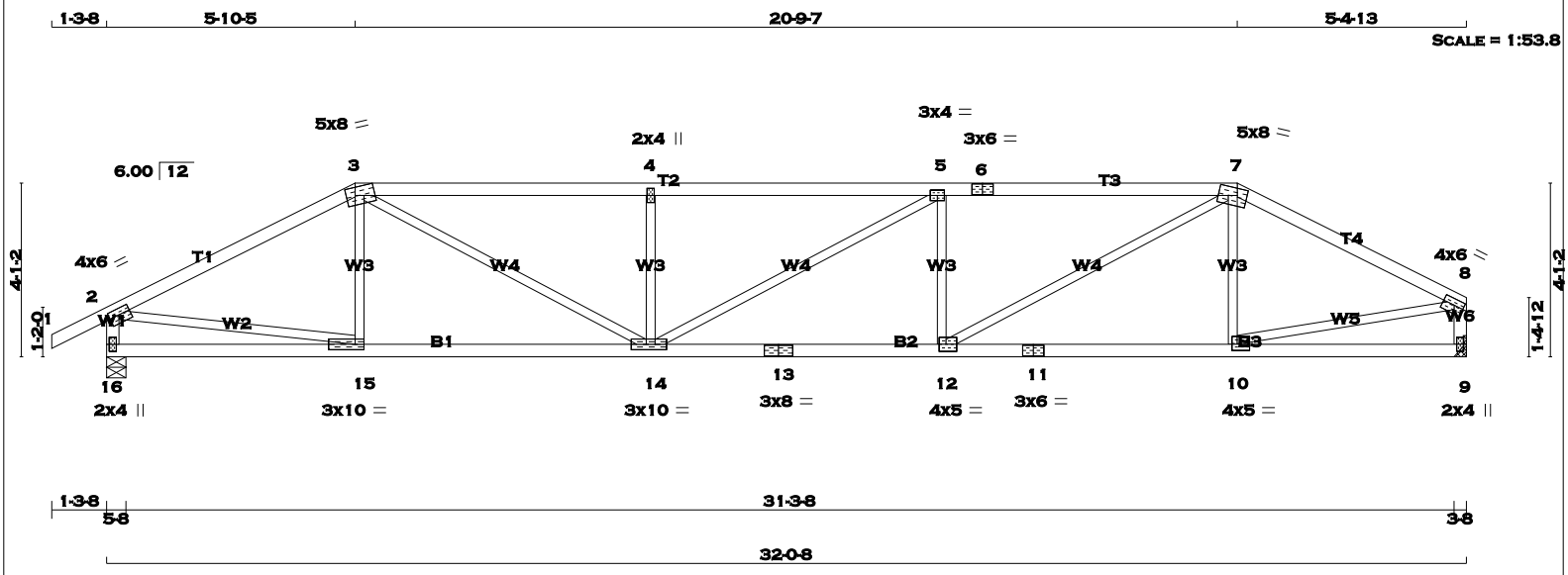
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT



TOTAL WEIGHT = 117 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
6 - 7	2x4	DRY	No.2	SPF
7 - 8	2x4	DRY	No.2	SPF
16 - 2	2x4	DRY	No.2	SPF
9 - 8	2x4	DRY	No.2	SPF
16 - 13	2x4	DRY	No.2	SPF
13 - 11	2x4	DRY	No.2	SPF
11 - 9	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	6.0	1.75	2.75
3	TTWW-m	MT20	5.0	8.0	2.25	2.50
4	TMW+w	MT20	2.0	4.0		
5	TMWW-t	MT20	3.0	4.0		
6	TS-t	MT20	3.0	6.0		
7	TTWW-m	MT20	5.0	8.0	2.00	2.75
8	TMVW-t	MT20	4.0	6.0	1.75	2.75
9	BMV1+p	MT20	2.0	4.0		
10	BMWW-t	MT20	4.0	5.0	1.75	1.50
11	BS-t	MT20	3.0	6.0		
12	BMWW-t	MT20	4.0	5.0	2.00	2.00
13	BS-t	MT20	3.0	8.0		
14	BMWWW-t	MT20	3.0	10.0	1.50	4.25
15	BMWW-t	MT20	3.0	10.0	1.50	2.50
16	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 VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
16	1624	0	1624	0	0	5-8	5-8
9	1520	0	1520	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 3-8	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
16	1138	809 / 0	0 / 0	0 / 0	0 / 0	329 / 0	0 / 0
9	1066	746 / 0	0 / 0	0 / 0	0 / 0	320 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 16

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.19 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00	15- 3	-153 / 56	0.04 (1)
2- 3	-2170 / 0	-77.3	-77.3	0.64 (1)	3.96	3-14	0 / 1413	0.32 (1)
3- 4	-3176 / 0	-77.3	-77.3	0.91 (1)	3.19	14- 4	-581 / 0	0.15 (1)
4- 5	-3176 / 0	-77.3	-77.3	0.89 (1)	3.19	14- 5	0 / 44	0.01 (1)
5- 6	-3138 / 0	-77.3	-77.3	0.90 (1)	3.21	12- 5	-602 / 0	0.15 (1)
6- 7	-3138 / 0	-77.3	-77.3	0.90 (1)	3.21	12- 7	0 / 1506	0.34 (1)
7- 8	-2039 / 0	-77.3	-77.3	0.52 (1)	4.20	10- 7	-239 / 26	0.06 (1)
16- 2	-1583 / 0	0.0	0.0	0.16 (1)	6.56	2-15	0 / 1960	0.44 (1)
9- 8	-1483 / 0	0.0	0.0	0.15 (1)	6.73	10- 8	0 / 1858	0.42 (1)
16-15	0 / 0	-17.5	-17.5	0.17 (3)	10.00			
15-14	0 / 1936	-17.5	-17.5	0.40 (1)	10.00			
14-13	0 / 3138	-17.5	-17.5	0.58 (1)	10.00			
13-12	0 / 3138	-17.5	-17.5	0.58 (1)	10.00			
12-11	0 / 1816	-17.5	-17.5	0.38 (1)	10.00			
11-10	0 / 1816	-17.5	-17.5	0.38 (1)	10.00			
10- 9	0 / 0	-17.5	-17.5	0.15 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	33.3	PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.07")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.21")
ALLOWABLE DEFL.(TL)= L/360 (1.07")
CALCULATED VERT. DEFL.(TL) = L/ 977 (0.39")

CSI: TC=0.91 (3-4:1) , BC=0.58 (12-14:1) , WB=0.44 (2-15:1) , SSI=0.25 (3-4:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (15) (INPUT = 0.90)
JSI METAL= 0.89 (13) (INPUT = 1.00)

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TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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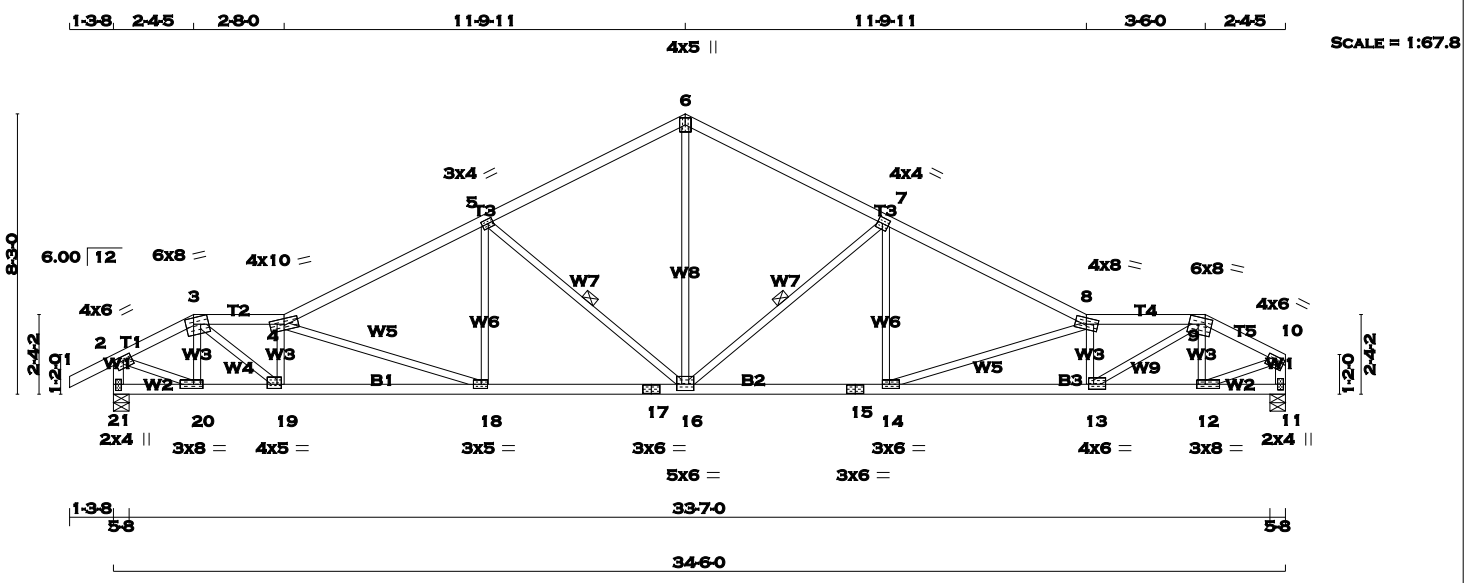
KOTT



TOTAL WEIGHT = 137 lb
[M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 8	2x4	DRY	No.2	SPF
8 - 9	2x4	DRY	No.2	SPF
9 - 10	2x4	DRY	No.2	SPF
21 - 2	2x4	DRY	No.2	SPF
11 - 10	2x4	DRY	No.2	SPF
21 - 17	2x4	DRY	No.2	SPF
17 - 15	2x4	DRY	No.2	SPF
15 - 11	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	6.0	1.50	3.00
3	TTWW-m	MT20	6.0	8.0	2.25	2.75
4	TTWW-m	MT20	4.0	10.0		
5	TMWW-t	MT20	3.0	4.0	1.50	1.75
6	TTW+p	MT20	4.0	5.0		
7	TMWW-t	MT20	4.0	4.0	2.00	1.75
8	TTWW-m	MT20	4.0	8.0	2.25	4.00
9	TTWW-m	MT20	6.0	8.0	2.00	2.25
10	TMVW-t	MT20	4.0	6.0	1.50	3.00
11	BMV1+p	MT20	2.0	4.0		
12	BMWW-t	MT20	3.0	8.0	1.50	3.00
13	BMWW-t	MT20	4.0	6.0	1.75	1.75
14	BMWW-t	MT20	3.0	6.0	1.50	2.50
15	BS-t	MT20	3.0	6.0		
16	BMWWW-t	MT20	5.0	6.0	2.25	3.00
17	BS-t	MT20	3.0	6.0		
18	BMWW-t	MT20	3.0	5.0	1.50	2.25
19	BMWW-t	MT20	4.0	5.0	1.50	1.50
20	BMWW-t	MT20	3.0	8.0	1.50	3.25
21	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

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
21	1741	0	1741	0	0	5-8	5-8
11	1636	0	1636	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
21	1220	866 / 0	0 / 0	0 / 0	0 / 0	353 / 0	0 / 0
11	1148	803 / 0	0 / 0	0 / 0	0 / 0	345 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 21, 11

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.41 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.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 5-16. DBS = 14-0-0 . CBF = 85 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 7-16. DBS = 12-0-0 . CBF = 82 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"X3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD FROM	TO	LC	MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	0 / 23	-77.3	-77.3	0.10 (1)		10.00
2- 3	-2007 / 0	-77.3	-77.3	0.10 (1)		4.71
3- 4	-3359 / 0	-77.3	-77.3	0.19 (1)		3.70
4- 5	-2796 / 0	-77.3	-77.3	0.49 (1)		3.74
5- 6	-2016 / 0	-77.3	-77.3	0.42 (1)		4.36
6- 7	-2017 / 0	-77.3	-77.3	0.42 (1)		4.36
7- 8	-2901 / 0	-77.3	-77.3	0.51 (1)		3.67
8- 9	-3811 / 0	-77.3	-77.3	0.28 (1)		3.41
9-10	-2015 / 0	-77.3	-77.3	0.10 (1)		4.70
21- 2	-1724 / 0	0.0	0.0	0.17 (1)		6.34
11-10	-1625 / 0	0.0	0.0	0.16 (1)		6.49
21-20	0 / 0	-17.5	-17.5	0.03 (3)		10.00
20-19	0 / 1764	-17.5	-17.5	0.32 (1)		10.00
19-18	0 / 3421	-17.5	-17.5	0.64 (1)		10.00
18-17	0 / 2524	-17.5	-17.5	0.48 (1)		10.00
17-16	0 / 2524	-17.5	-17.5	0.48 (1)		10.00
16-15	0 / 2618	-17.5	-17.5	0.50 (1)		10.00
15-14	0 / 2618	-17.5	-17.5	0.50 (1)		10.00
14-13	0 / 3872	-17.5	-17.5	0.72 (1)		10.00
13-12	0 / 1772	-17.5	-17.5	0.34 (1)		10.00
12-11	0 / 0	-17.5	-17.5	0.03 (1)		10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
20- 3	-565 / 0	0.09 (1)
3-19	0 / 2040	0.46 (1)
19- 4	-1226 / 0	0.19 (1)
4-18	-949 / 0	0.69 (1)
18- 5	0 / 429	0.10 (1)
5-16	-971 / 0	0.39 (1)
16- 6	0 / 1434	0.32 (1)
16- 7	-1095 / 0	0.44 (1)
14- 7	0 / 555	0.12 (1)
14- 8	-1327 / 0	0.96 (1)
13- 8	-1182 / 0	0.18 (1)
13- 9	0 / 2381	0.54 (1)
12- 9	-549 / 0	0.08 (1)
2-20	0 / 1898	0.43 (1)
12-10	0 / 1906	0.43 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	33.3	PSF

SPACING = 24.0 IN. C/C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.15")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.23")
ALLOWABLE DEFL.(TL)= L/360 (1.15")
CALCULATED VERT. DEFL.(TL) = L/ 988 (0.42")

CSI: TC=0.51 (7-8:1) , BC=0.72 (13-14:1) , WB=0.96 (8-14:1) , 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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) 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 (20) (INPUT = 0.90)
JSI METAL= 0.68 (15) (INPUT = 1.00)

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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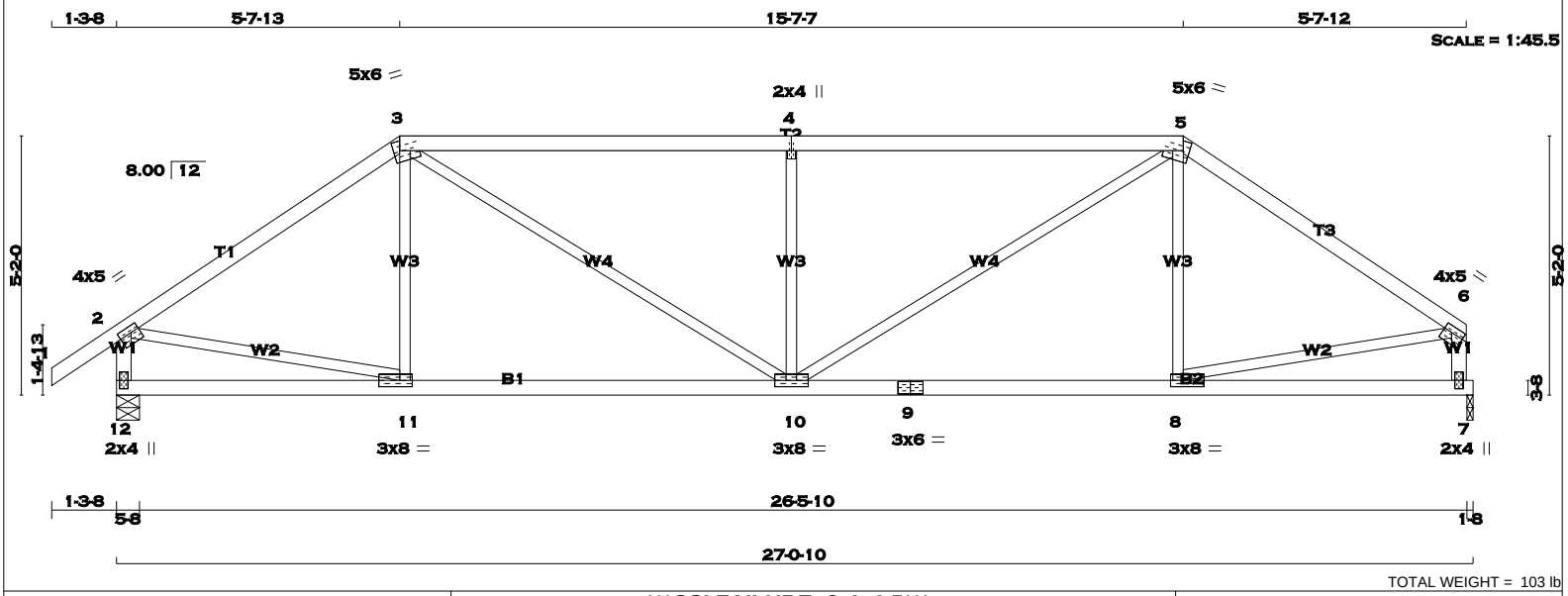
KOTT



TOTAL WEIGHT = 103 lb

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
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	1.50	2.00
3	TTWW-m	MT20	5.0	6.0	2.25	1.50
4	TMW+w	MT20	2.0	4.0		
5	TTWW-m	MT20	5.0	6.0	2.25	1.50
6	TMVW-t	MT20	4.0	5.0	1.50	2.00
7	BMV1+p	MT20	2.0	4.0		
8	BMWW-t	MT20	3.0	8.0	1.50	3.00
9	BS-t	MT20	3.0	6.0		
10	BMWWW-t	MT20	3.0	8.0		
11	BMWW-t	MT20	3.0	8.0	1.50	3.00
12	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

CSI FAILURE: 3-4, 4-5

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
12	1383	0	1383	0	0	5-8	5-8
7	1276	0	1276	0	0	1-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
12	968	691 / 0	0 / 0	0 / 0	0 / 0	277 / 0	0 / 0
7	896	627 / 0	0 / 0	0 / 0	0 / 0	269 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 12, 7

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.22 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	11- 3	-92 / 78	0.04 (1)
2- 3	-1434 / 0	-77.3	-77.3	0.52 (1)	4.82	3-10	0 / 831	0.19 (1)
3- 4	-1895 / 0	-77.3	-77.3	1.10 (1)	3.22	10- 4	-744 / 0	0.29 (1)
4- 5	-1895 / 0	-77.3	-77.3	1.10 (1)	3.22	10- 5	0 / 831	0.19 (1)
5- 6	-1433 / 0	-77.3	-77.3	0.52 (1)	4.82	8- 5	-93 / 77	0.04 (1)
12- 2	-1346 / 0	0.0	0.0	0.14 (1)	6.99	2-11	0 / 1212	0.27 (1)
7- 6	-1240 / 0	0.0	0.0	0.13 (1)	7.21	8- 6	0 / 1212	0.27 (1)
12-11	0 / 0	-17.5	-17.5	0.18 (3)	10.00			
11-10	0 / 1190	-17.5	-17.5	0.30 (1)	10.00			
10- 9	0 / 1189	-17.5	-17.5	0.30 (1)	10.00			
9- 8	0 / 1189	-17.5	-17.5	0.30 (1)	10.00			
8- 7	0 / 0	-17.5	-17.5	0.18 (3)	10.00			

[M]

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 (0.90")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.08")
ALLOWABLE DEFL.(TL)= L/360 (0.90")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.16")

CSI: TC=1.10 (3-4:1) , BC=0.30 (10-11:1) , WB=0.29 (4-10:1) , SSI=0.29 (3-4:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) 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= 0.48 (2) (INPUT = 1.00)

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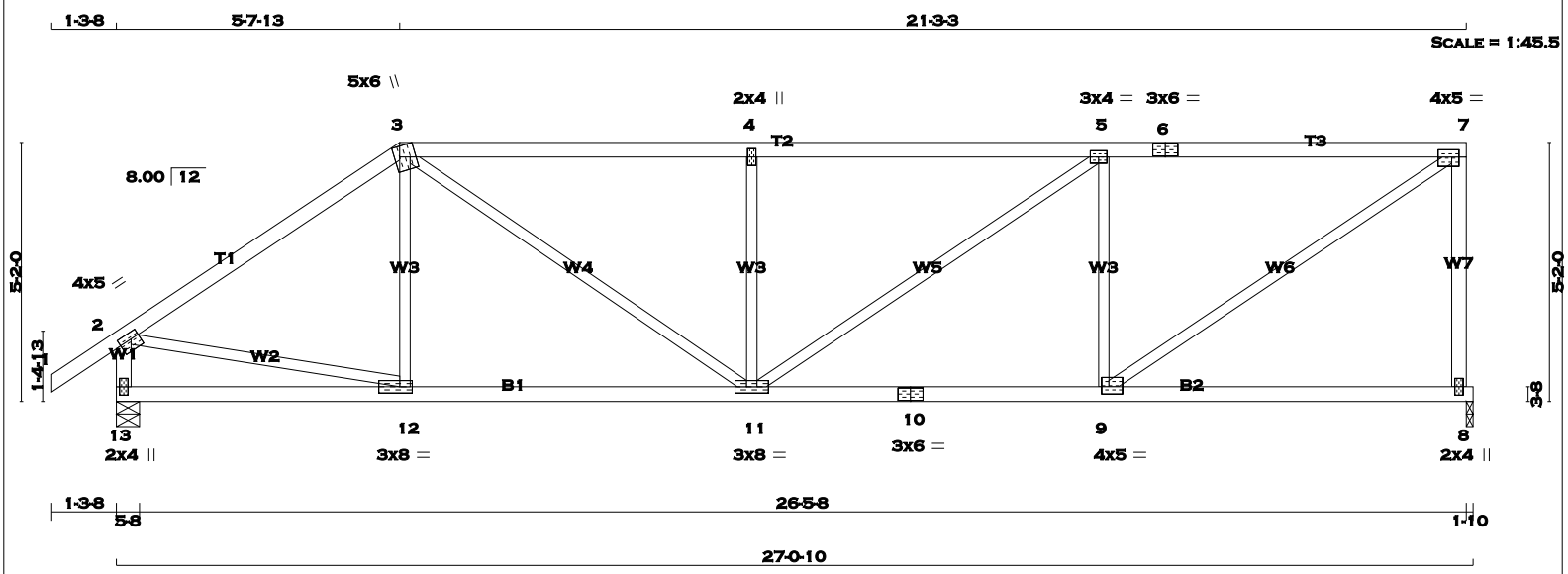
KOTT



TOTAL WEIGHT = 107 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
6 - 7	2x4	DRY	No.2	SPF
8 - 7	2x4	DRY	No.2	SPF
13 - 2	2x4	DRY	No.2	SPF
13 - 10	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	5.0	1.50	2.00
3	TTWW+m	MT20	5.0	6.0	Edge	3.75
4	TMW+w	MT20	2.0	4.0		
5	TMWW-t	MT20	3.0	4.0		
6	TS-t	MT20	3.0	6.0		
7	TMVW-t	MT20	4.0	5.0	1.75	1.75
8	BMV1+p	MT20	2.0	4.0		
9	BMWW-t	MT20	4.0	5.0	1.75	1.75
10	BS-t	MT20	3.0	6.0		
11	BMWWW-t	MT20	3.0	8.0		
12	BMWW-t	MT20	3.0	8.0	1.50	3.00
13	BMV1+p	MT20	2.0	4.0		

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
8	1276	0	1276	0	0	1-10	1-10
13	1383	0	1383	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
8	896	627 / 0	0 / 0	0 / 0	0 / 0	269 / 0	0 / 0
13	968	691 / 0	0 / 0	0 / 0	0 / 0	277 / 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 = 4.10 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	12- 3	-98 / 71	0.04 (1)
2- 3	-1432 / 0	-77.3	-77.3	0.52 (1)	4.82	3-11	0 / 795	0.18 (1)
3- 4	-1841 / 0	-77.3	-77.3	0.68 (1)	4.17	11- 4	-587 / 0	0.23 (1)
4- 5	-1841 / 0	-77.3	-77.3	0.72 (1)	4.10	11- 5	0 / 438	0.10 (1)
5- 6	-1482 / 0	-77.3	-77.3	0.67 (1)	4.52	9- 5	-858 / 0	0.34 (1)
6- 7	-1482 / 0	-77.3	-77.3	0.67 (1)	4.52	9- 7	0 / 1787	0.40 (1)
8- 7	-1225 / 0	0.0	0.0	0.56 (1)	7.25	2-12	0 / 1211	0.27 (1)
13- 2	-1344 / 0	0.0	0.0	0.14 (1)	6.99			
13-12	0 / 0	-17.5	-17.5	0.17 (3)	10.00			
12-11	0 / 1188	-17.5	-17.5	0.29 (1)	10.00			
11-10	0 / 1482	-17.5	-17.5	0.35 (1)	10.00			
10- 9	0 / 1482	-17.5	-17.5	0.35 (1)	10.00			
9- 8	0 / 0	-17.5	-17.5	0.22 (3)	10.00			

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DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	33.3	PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

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 (0.90")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.09")
ALLOWABLE DEFL.(TL)= L/360 (0.90")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.16")

CSI: TC=0.72 (4-5:1) , BC=0.35 (9-11:1) , WB=0.40 (7-9:1) , SSI=0.26 (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

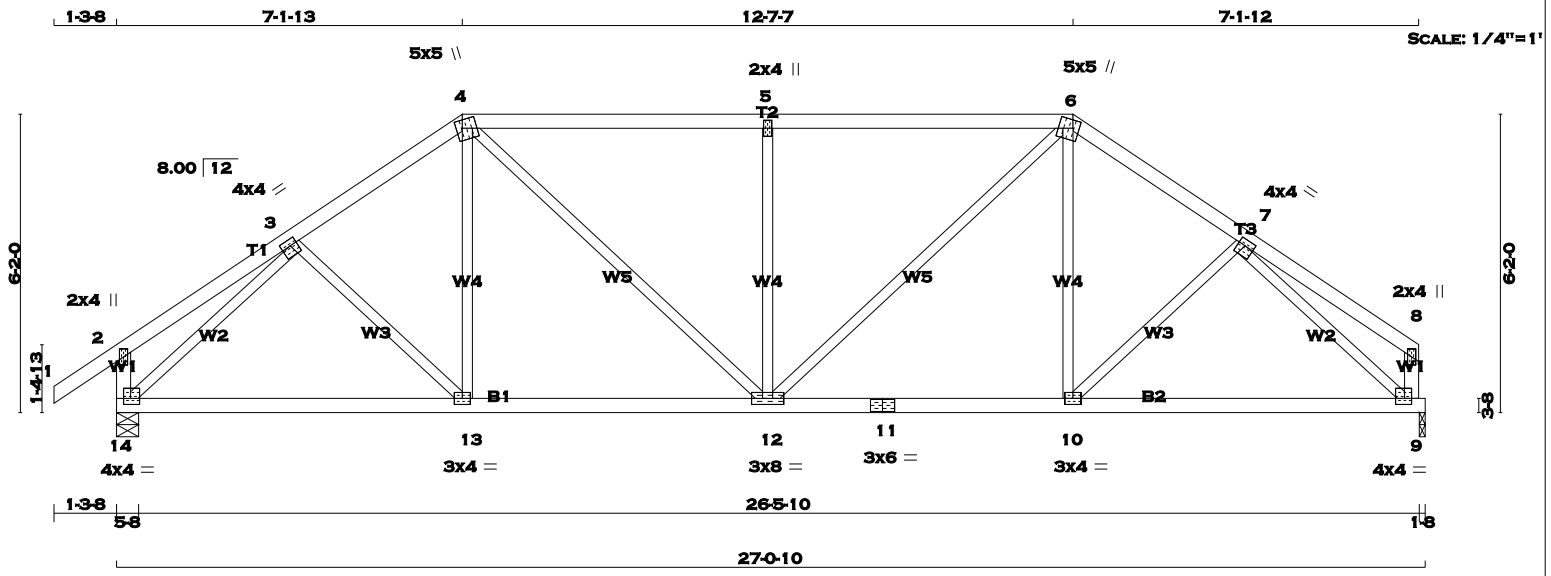
PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (12) (INPUT = 0.90)
JSI METAL= 0.48 (2) (INPUT = 1.00)

KOTT



TOTAL WEIGHT = 111 lb

[M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 8	2x4	DRY	No.2	SPF
14 - 2	2x4	DRY	No.2	SPF
9 - 8	2x4	DRY	No.2	SPF
14 - 11	2x4	DRY	No.2	SPF
11 - 9	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
3	TMWW-t	MT20	4.0	4.0	1.50	1.75
4	TTWW+m	MT20	5.0	5.0	2.00	1.50
5	TMV+w	MT20	2.0	4.0		
6	TTWW+m	MT20	5.0	5.0	2.00	1.50
7	TMWW-t	MT20	4.0	4.0	1.50	1.75
8	TMV+p	MT20	2.0	4.0		
9	BMVW1-t	MT20	4.0	4.0	1.50	1.75
10	BMWW-t	MT20	3.0	4.0		
11	BS-t	MT20	3.0	6.0		
12	BMWWW-t	MT20	3.0	8.0		
13	BMWW-t	MT20	3.0	4.0		
14	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.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
14	1383	0	1383	0	0	5-8	5-8
9	1276	0	1276	0	0	1-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
14	968	691 / 0	0 / 0	0 / 0	0 / 0	277 / 0	0 / 0
9	896	627 / 0	0 / 0	0 / 0	0 / 0	269 / 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 = 4.82 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING

TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC	MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 29	-77.3	-77.3	0.10 (1)		10.00	3-13	0 / 51	0.02 (3)
2- 3	0 / 16	-77.3	-77.3	0.14 (1)		10.00	13- 4	0 / 133	0.04 (3)
3- 4	-1409 / 0	-77.3	-77.3	0.13 (1)		5.37	4-12	0 / 507	0.11 (1)
4- 5	-1531 / 0	-77.3	-77.3	0.43 (1)		4.82	12- 5	-599 / 0	0.36 (1)
5- 6	-1531 / 0	-77.3	-77.3	0.43 (1)		4.82	12- 6	0 / 507	0.11 (1)
6- 7	-1409 / 0	-77.3	-77.3	0.13 (1)		5.37	10- 6	0 / 133	0.04 (3)
7- 8	0 / 16	-77.3	-77.3	0.14 (1)		10.00	10- 7	0 / 51	0.02 (3)
14- 2	-215 / 0	0.0	0.0	0.02 (1)		7.81	14- 3	-1603 / 0	0.63 (1)
9- 8	-109 / 0	0.0	0.0	0.01 (1)		7.81	7- 9	-1603 / 0	0.63 (1)
14-13	0 / 1151	-17.5	-17.5	0.30 (1)		10.00			
13-12	0 / 1159	-17.5	-17.5	0.30 (1)		10.00			
12-11	0 / 1159	-17.5	-17.5	0.30 (1)		10.00			
11-10	0 / 1159	-17.5	-17.5	0.30 (1)		10.00			
10- 9	0 / 1150	-17.5	-17.5	0.30 (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 (0.90")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.90")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11")

CSI: TC=0.43 (4-5:1) , BC=0.30 (12-13:1) , WB=0.63 (3-14:1) , SSI=0.24 (4-5:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) 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 (14) (INPUT = 0.90)
JSI METAL= 0.59 (7) (INPUT = 1.00)

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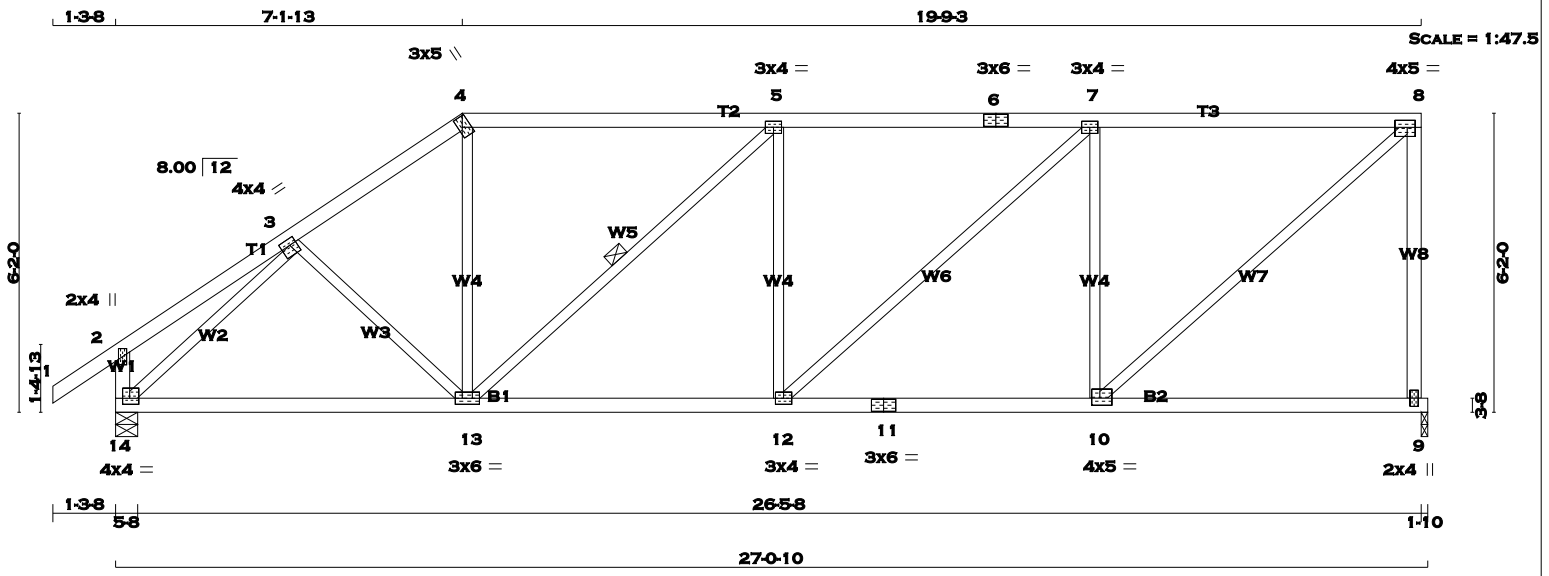
KOTT



TOTAL WEIGHT = 114 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	4.0	4.0	1.50	1.75
4	TTW+h	MT20	3.0	5.0	2.50	1.00
5	TMWW-t	MT20	3.0	4.0		
6	TS-t	MT20	3.0	6.0		
7	TMWW-t	MT20	3.0	4.0		
8	TMVW-t	MT20	4.0	5.0	1.75	2.00
9	BMV1+p	MT20	2.0	4.0		
10	BMWW-t	MT20	4.0	5.0	1.75	2.00
11	BS-t	MT20	3.0	6.0		
12	BMWW-t	MT20	3.0	4.0		
13	BMWWW-t	MT20	3.0	6.0		
14	BMVW1-t	MT20	4.0	4.0	1.50	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

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
9	1276	0	1276	0	0	1-10	1-10
14	1383	0	1383	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
9	896	627 / 0	0 / 0	0 / 0	0 / 0	269 / 0	0 / 0
14	968	691 / 0	0 / 0	0 / 0	0 / 0	277 / 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 = 4.63 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 5-13. DBS = 20-0-0 . CBF = 61 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	3-13	0 / 52	0.02 (3)
2- 3	0 / 16	-77.3	-77.3	0.14 (1)	10.00	13- 4	0 / 460	0.10 (1)
3- 4	-1409 / 0	-77.3	-77.3	0.17 (1)	5.32	13- 5	-484 / 0	0.25 (1)
4- 5	-1165 / 0	-77.3	-77.3	0.50 (1)	5.22	12- 5	-220 / 22	0.13 (1)
5- 6	-1522 / 0	-77.3	-77.3	0.57 (1)	4.63	12- 7	0 / 478	0.11 (1)
6- 7	-1522 / 0	-77.3	-77.3	0.57 (1)	4.63	10- 7	-886 / 0	0.53 (1)
7- 8	-1167 / 0	-77.3	-77.3	0.54 (1)	5.16	10- 8	0 / 1549	0.35 (1)
9- 8	-1229 / 0	0.0	0.0	0.91 (1)	7.23	14- 3	-1603 / 0	0.63 (1)
14- 2	-215 / 0	0.0	0.0	0.02 (1)	7.81			
14-13	0 / 1151	-17.5	-17.5	0.30 (1)	10.00			
13-12	0 / 1522	-17.5	-17.5	0.36 (1)	10.00			
12-11	0 / 1167	-17.5	-17.5	0.29 (1)	10.00			
11-10	0 / 1167	-17.5	-17.5	0.29 (1)	10.00			
10- 9	0 / 0	-17.5	-17.5	0.19 (3)	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 (0.90")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (0.90")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.13")

CSI: TC=0.91 (8-9:1) , BC=0.36 (12-13:1) , WB=0.63 (3-14:1) , SSI=0.24 (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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) 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 (14) (INPUT = 0.90)
JSI METAL= 0.59 (3) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
RAM TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Mon Mar 13 10:23:37 2017 Page 1

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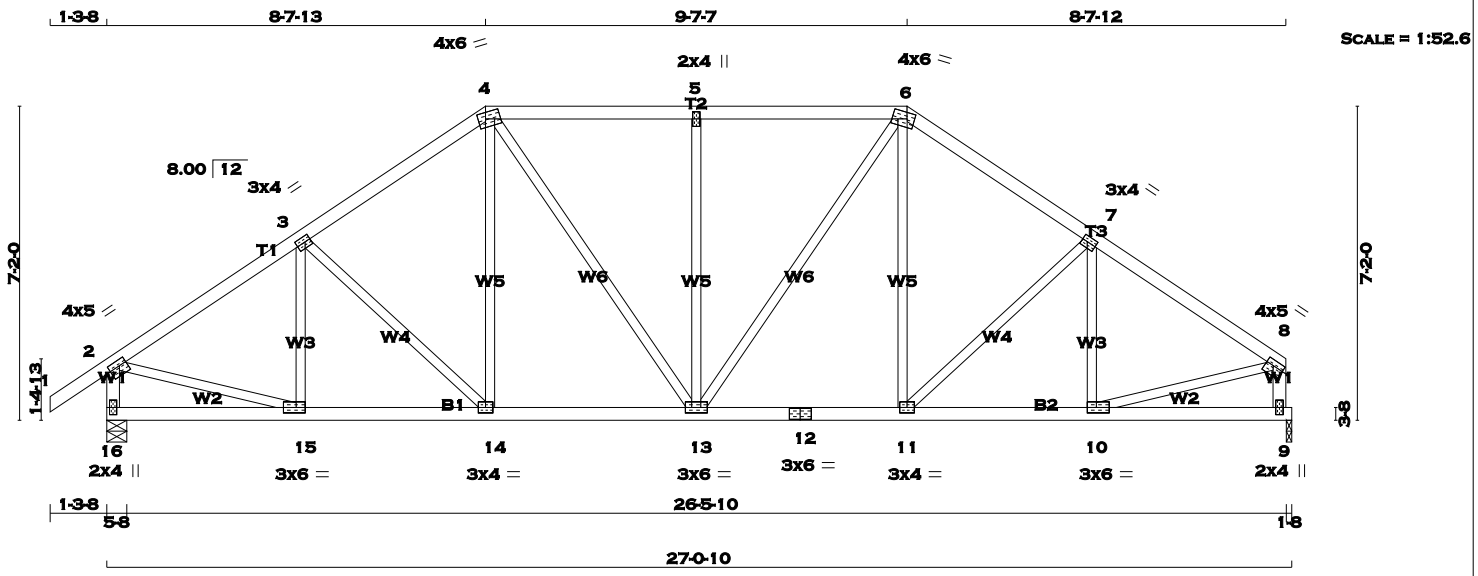


TOTAL WEIGHT = 121 lb

[M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 8	2x4	DRY	No.2	SPF
16 - 2	2x4	DRY	No.2	SPF
9 - 8	2x4	DRY	No.2	SPF
16 - 12	2x4	DRY	No.2	SPF
12 - 9	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	5.0	1.50	2.00
3	TMWW-t	MT20	3.0	4.0	1.50	1.50
4	TTWW-m	MT20	4.0	6.0	1.75	2.00
5	TMW+w	MT20	2.0	4.0		
6	TTWW-m	MT20	4.0	6.0	1.75	2.00
7	TMWW-t	MT20	3.0	4.0	1.50	1.50
8	TMVW-t	MT20	4.0	5.0	1.50	2.00
9	BMV1+p	MT20	2.0	4.0		
10	BMWW-t	MT20	3.0	6.0	1.50	2.50
11	BMWW-t	MT20	3.0	4.0		
12	BS-t	MT20	3.0	6.0		
13	BMWWW-t	MT20	3.0	6.0		
14	BMWW-t	MT20	3.0	4.0		
15	BMWW-t	MT20	3.0	6.0	1.50	2.50
16	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 VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
16	1383	0	1383	0	0	5-8	5-8
9	1276	0	1276	0	0	1-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
16	968	691 / 0	0 / 0	0 / 0	0 / 0	277 / 0	0 / 0
9	896	627 / 0	0 / 0	0 / 0	0 / 0	269 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 16, 9

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.24 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	0 / 29	-77.3	-77.3	0.10 (1)	10.00
2- 3	-1443 / 0	-77.3	-77.3	0.21 (1)	5.24
3- 4	-1339 / 0	-77.3	-77.3	0.20 (1)	5.40
4- 5	-1284 / 0	-77.3	-77.3	0.24 (1)	5.43
5- 6	-1284 / 0	-77.3	-77.3	0.24 (1)	5.43
6- 7	-1339 / 0	-77.3	-77.3	0.20 (1)	5.40
7- 8	-1442 / 0	-77.3	-77.3	0.21 (1)	5.24
16- 2	-1348 / 0	0.0	0.0	0.14 (1)	6.98
9- 8	-1242 / 0	0.0	0.0	0.13 (1)	7.20
16-15	0 / 0	-17.5	-17.5	0.07 (3)	10.00
15-14	0 / 1218	-17.5	-17.5	0.24 (1)	10.00
14-13	0 / 1097	-17.5	-17.5	0.22 (1)	10.00
13-12	0 / 1097	-17.5	-17.5	0.22 (1)	10.00
12-11	0 / 1097	-17.5	-17.5	0.22 (1)	10.00
11-10	0 / 1217	-17.5	-17.5	0.24 (1)	10.00
10- 9	0 / 0	-17.5	-17.5	0.07 (3)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
15- 3	-218 / 7	0.06 (1)
3-14	-169 / 0	0.10 (1)
14- 4	0 / 197	0.04 (1)
4-13	0 / 326	0.07 (1)
13- 5	-452 / 0	0.40 (1)
13- 6	0 / 326	0.07 (1)
11- 6	0 / 197	0.04 (1)
11- 7	-169 / 0	0.10 (1)
10- 7	-218 / 7	0.06 (1)
2-15	0 / 1254	0.28 (1)
10- 8	0 / 1253	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/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 (0.90")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.90")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.09")

CSI: TC=0.24 (4-5:1) , BC=0.24 (14-15:1) , WB=0.40 (5-13:1) , SSI=0.18 (4-5:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

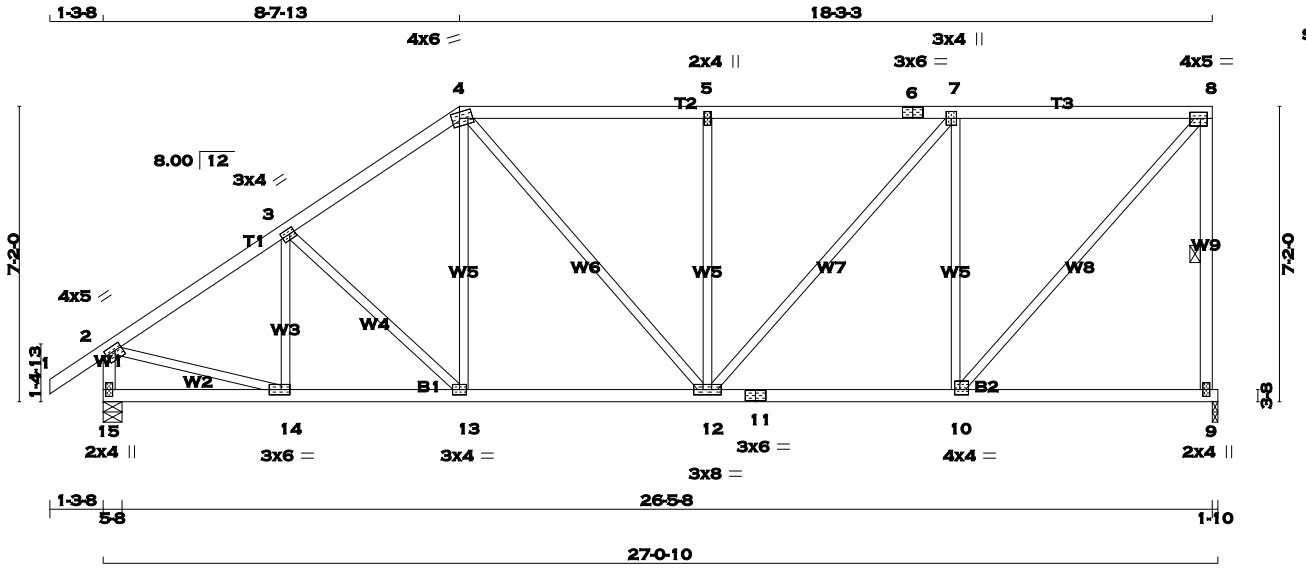
JSI GRIP= 0.87 (13) (INPUT = 0.90)
JSI METAL= 0.48 (2) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
RAY TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT



TOTAL WEIGHT = 123 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 8	2x4	DRY	No.2	SPF
9 - 8	2x4	DRY	No.2	SPF
15 - 2	2x4	DRY	No.2	SPF
15 - 11	2x4	DRY	No.2	SPF
11 - 9	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	5.0	1.50	2.00
3	TMWW-t	MT20	3.0	4.0	1.50	1.50
4	TTWW-m	MT20	4.0	6.0	1.75	2.25
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	5.0	1.75	2.00
9	BMV1+p	MT20	2.0	4.0		
10	BMWW-t	MT20	4.0	4.0	1.50	1.50
11	BS-t	MT20	3.0	6.0		
12	BMWWW-t	MT20	3.0	8.0		
13	BMWW-t	MT20	3.0	4.0		
14	BMWW-t	MT20	3.0	6.0	1.50	2.50
15	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
9	1276	0	1276	0	0	1-10	1-10
15	1383	0	1383	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
9	896	627 / 0	0 / 0	0 / 0	0 / 0	269 / 0	0 / 0
15	968	691 / 0	0 / 0	0 / 0	0 / 0	277 / 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 = 5.10 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 8-9. DBS = 12-0-0 . CBF = 92 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	14- 3	-222 / 2	0.06 (1)
2- 3	-1442 / 0	-77.3	-77.3	0.28 (1)	5.14	3-13	-166 / 0	0.10 (1)
3- 4	-1341 / 0	-77.3	-77.3	0.27 (1)	5.29	13- 4	0 / 209	0.05 (1)
4- 5	-1284 / 0	-77.3	-77.3	0.43 (1)	5.15	4-12	0 / 281	0.06 (1)
5- 6	-1284 / 0	-77.3	-77.3	0.46 (1)	5.10	12- 5	-503 / 0	0.45 (1)
6- 7	-1284 / 0	-77.3	-77.3	0.46 (1)	5.10	12- 7	0 / 522	0.12 (1)
7- 8	-940 / 0	-77.3	-77.3	0.44 (1)	5.76	10- 7	-916 / 0	0.82 (1)
9- 8	-1232 / 0	0.0	0.0	0.29 (1)	5.78	10- 8	0 / 1401	0.32 (1)
15- 2	-1348 / 0	0.0	0.0	0.14 (1)	6.99	2-14	0 / 1253	0.28 (1)
15-14	0 / 0	-17.5	-17.5	0.07 (3)	10.00			
14-13	0 / 1217	-17.5	-17.5	0.25 (1)	10.00			
13-12	0 / 1099	-17.5	-17.5	0.23 (1)	10.00			
12-11	0 / 940	-17.5	-17.5	0.24 (1)	10.00			
11-10	0 / 940	-17.5	-17.5	0.24 (1)	10.00			
10- 9	0 / 0	-17.5	-17.5	0.16 (3)	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 (0.90")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.90")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11")

CSI: TC=0.46 (5-7:1) , BC=0.25 (13-14:1) , WB=0.82 (7-10:1) , 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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

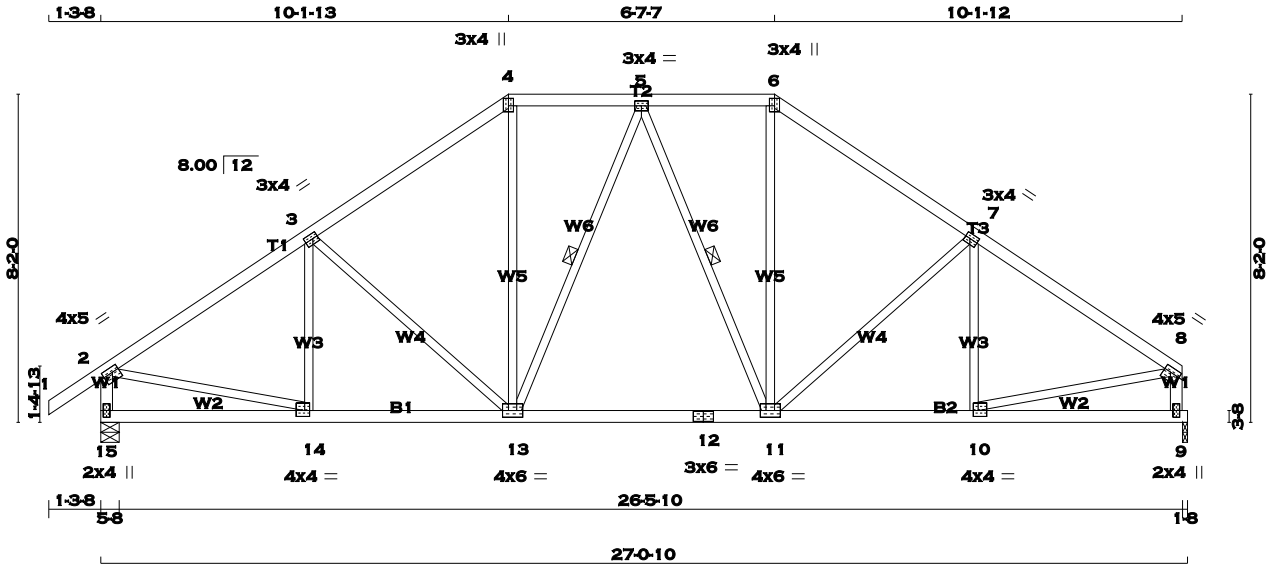
JSI GRIP= 0.86 (8) (INPUT = 0.90)
JSI METAL= 0.48 (2) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
R.M. TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT



TOTAL WEIGHT = 122 lb

[M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 8	2x4	DRY	No.2	SPF
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 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	1.50	2.00
3	TMWW-t	MT20	3.0	4.0	1.50	1.50
4	TTW+p	MT20	3.0	4.0	2.25	1.50
5	TMWW-t	MT20	3.0	4.0		
6	TTW+p	MT20	3.0	4.0	2.25	1.50
7	TMWW-t	MT20	3.0	4.0	1.50	1.50
8	TMVW-t	MT20	4.0	5.0	1.50	2.00
9	BMV1+p	MT20	2.0	4.0		
10	BMWW-t	MT20	4.0	4.0	1.75	1.50
11	BMWWW-t	MT20	4.0	6.0		
12	BS-t	MT20	3.0	6.0		
13	BMWWW-t	MT20	4.0	6.0		
14	BMWW-t	MT20	4.0	4.0	1.75	1.50
15	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
15	1383	0	1383	0	0	5-8	5-8
9	1276	0	1276	0	0	1-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
15	968	691 / 0	0 / 0	0 / 0	0 / 0	277 / 0	0 / 0
9	896	627 / 0	0 / 0	0 / 0	0 / 0	269 / 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 = 5.12 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 5-13, 5-11. DBS = 20-0-0 . CBF = 20 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	14- 3	-166 / 31	0.06 (1)
2- 3	-1461 / 0	-77.3	-77.3	0.29 (1)	5.12	3-13	-277 / 0	0.24 (1)
3- 4	-1266 / 0	-77.3	-77.3	0.27 (1)	5.42	13- 4	0 / 439	0.10 (1)
4- 5	-1036 / 0	-77.3	-77.3	0.11 (1)	6.06	13- 5	-162 / 0	0.08 (1)
5- 6	-1036 / 0	-77.3	-77.3	0.11 (1)	6.06	5-11	-163 / 0	0.08 (1)
6- 7	-1266 / 0	-77.3	-77.3	0.27 (1)	5.42	11- 6	0 / 439	0.10 (1)
7- 8	-1461 / 0	-77.3	-77.3	0.29 (1)	5.12	11- 7	-277 / 0	0.24 (1)
15- 2	-1343 / 0	0.0	0.0	0.14 (1)	6.99	10- 7	-166 / 31	0.06 (1)
9- 8	-1237 / 0	0.0	0.0	0.13 (1)	7.22	2-14	0 / 1264	0.28 (1)
						10- 8	0 / 1263	0.28 (1)
15-14	0 / 0	-17.5	-17.5	0.10 (3)	10.00			
14-13	0 / 1237	-17.5	-17.5	0.27 (1)	10.00			
13-12	0 / 1097	-17.5	-17.5	0.24 (1)	10.00			
12-11	0 / 1097	-17.5	-17.5	0.24 (1)	10.00			
11-10	0 / 1236	-17.5	-17.5	0.27 (1)	10.00			
10- 9	0 / 0	-17.5	-17.5	0.10 (3)	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 (0.90")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.90")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11")

CSI: TC=0.29 (2-3:1) , BC=0.27 (13-14:1) , WB=0.28 (2-14:1) , 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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

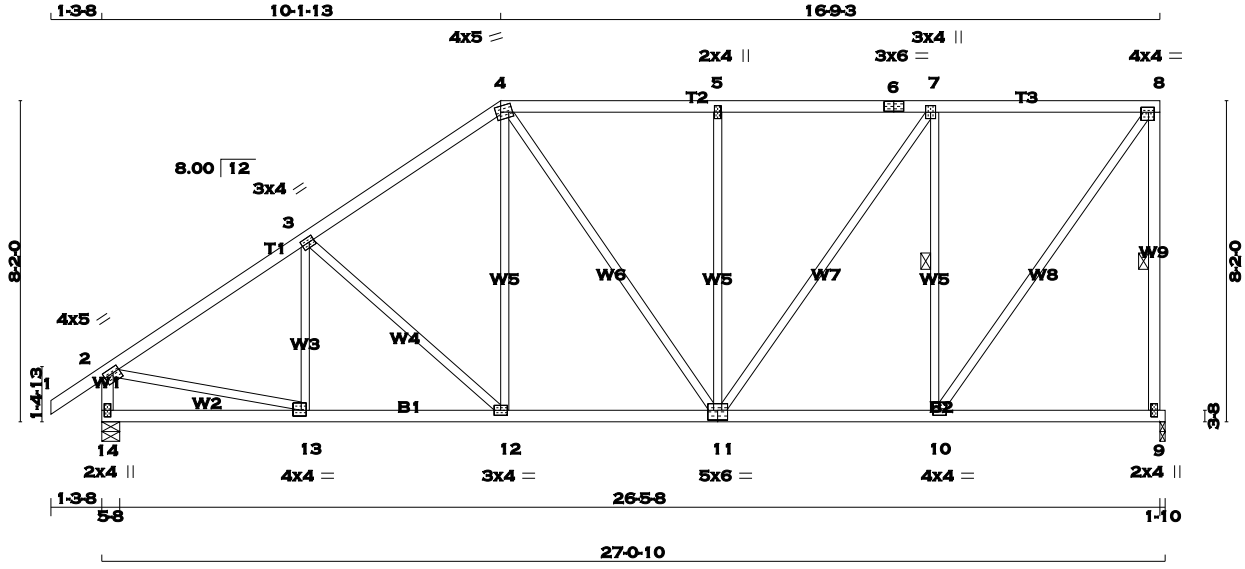
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (4) (INPUT = 0.90)
JSI METAL= 0.49 (2) (INPUT = 1.00)

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT



TOTAL WEIGHT = 129 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	TMVW-t	MT20	4.0	5.0	1.50	2.00
3	TMWW-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	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	BSWWW-l	MT20	5.0	6.0	3.00	3.00
12	BMWW-t	MT20	3.0	4.0		
13	BMWW-t	MT20	4.0	4.0	1.75	1.50
14	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
9	1276	0	1276	0	0	1-10	1-10
14	1383	0	1383	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
9	896	627 / 0	0 / 0	0 / 0	0 / 0	269 / 0	0 / 0
14	968	691 / 0	0 / 0	0 / 0	0 / 0	277 / 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 = 4.96 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 8-9. DBS = 12-0-0 . CBF = 93 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 7-10. DBS = 14-0-0 . CBF = 83 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 FROM	TO	MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	13- 3	-163 / 36	0.06 (1)
2- 3	-1462 / 0	-77.3	-77.3	0.40 (1)	4.96	3-12	-280 / 0	0.24 (1)
3- 4	-1264 / 0	-77.3	-77.3	0.38 (1)	5.26	12- 4	0 / 281	0.06 (1)
4- 5	-1094 / 0	-77.3	-77.3	0.34 (1)	5.60	4-11	0 / 107	0.02 (1)
5- 6	-1094 / 0	-77.3	-77.3	0.37 (1)	5.55	11- 5	-461 / 0	0.60 (1)
6- 7	-1094 / 0	-77.3	-77.3	0.37 (1)	5.55	11- 7	0 / 566	0.13 (1)
7- 8	-769 / 0	-77.3	-77.3	0.36 (1)	6.25	10- 7	-945 / 0	0.40 (1)
9- 8	-1236 / 0	0.0	0.0	0.37 (1)	5.77	10- 8	0 / 1307	0.29 (1)
14- 2	-1344 / 0	0.0	0.0	0.14 (1)	6.99	2-13	0 / 1264	0.28 (1)
14-13	0 / 0	-17.5	-17.5	0.10 (3)	10.00			
13-12	0 / 1238	-17.5	-17.5	0.25 (1)	10.00			
12-11	0 / 1032	-17.5	-17.5	0.22 (1)	10.00			
11-10	0 / 769	-17.5	-17.5	0.20 (1)	10.00			
10- 9	0 / 0	-17.5	-17.5	0.14 (3)	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 (0.90")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.90")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.10")

CSI: TC=0.40 (2-3:1) , BC=0.25 (12-13:1) , WB=0.60 (5-11:1) , SSI=0.21 (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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

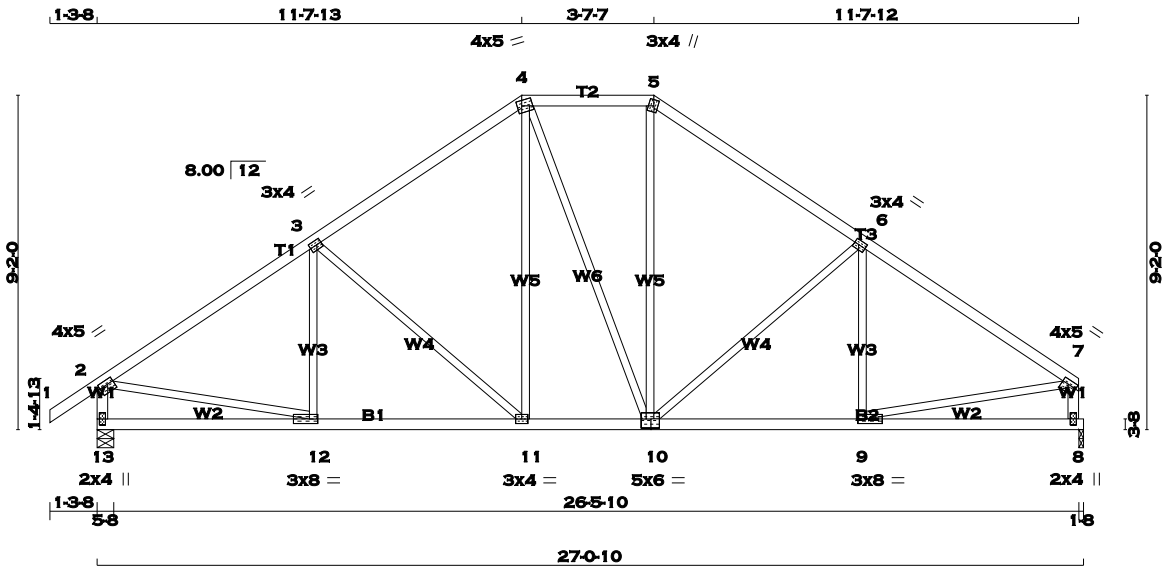
JSI GRIP= 0.90 (10) (INPUT = 0.90)
JSI METAL= 0.49 (2) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
RAM TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT



TOTAL WEIGHT = 122 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
13 - 2	2x4	DRY	No.2	SPF
8 - 7	2x4	DRY	No.2	SPF
13 - 10	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF
ALL WEBS 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	1.50	2.00
3	TMWW-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	TMWW-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	BMWW-t	MT20	3.0	8.0	1.50	2.75
10	BSWWW-l	MT20	5.0	6.0	3.00	2.75
11	BMWW-t	MT20	3.0	4.0		
12	BMWW-t	MT20	3.0	8.0	1.50	2.75
13	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
13	1383	0	1383	0	0	5-8	5-8
8	1276	0	1276	0	0	1-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
13	968	691 / 0	0 / 0	0 / 0	0 / 0	277 / 0	0 / 0
8	896	627 / 0	0 / 0	0 / 0	0 / 0	269 / 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 = 4.99 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING
TOTAL LOAD CASES: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	12- 3	-110 / 68	0.05 (1)
2- 3	-1469 / 0	-77.3	-77.3	0.39 (1)	4.99	3-11	-390 / 0	0.47 (1)
3- 4	-1176 / 0	-77.3	-77.3	0.36 (1)	5.46	11- 4	0 / 329	0.07 (1)
4- 5	-956 / 0	-77.3	-77.3	0.14 (1)	6.20	4-10	0 / 2	0.00 (1)
5- 6	-1177 / 0	-77.3	-77.3	0.36 (1)	5.45	10- 5	0 / 332	0.07 (1)
6- 7	-1468 / 0	-77.3	-77.3	0.39 (1)	4.99	10- 6	-388 / 0	0.47 (1)
13- 2	-1340 / 0	0.0	0.0	0.14 (1)	7.00	9- 6	-112 / 66	0.05 (1)
8- 7	-1234 / 0	0.0	0.0	0.13 (1)	7.23	2-12	0 / 1267	0.29 (1)
						9- 7	0 / 1266	0.28 (1)
13-12	0 / 0	-17.5	-17.5	0.15 (3)	10.00			
12-11	0 / 1247	-17.5	-17.5	0.28 (1)	10.00			
11-10	0 / 955	-17.5	-17.5	0.20 (1)	10.00			
10- 9	0 / 1246	-17.5	-17.5	0.27 (1)	10.00			
9- 8	0 / 0	-17.5	-17.5	0.15 (3)	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 (0.90")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.90")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.10")

CSI: TC=0.39 (2-3:1) , BC=0.28 (11-12:1) , WB=0.47 (3-11:1) , 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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

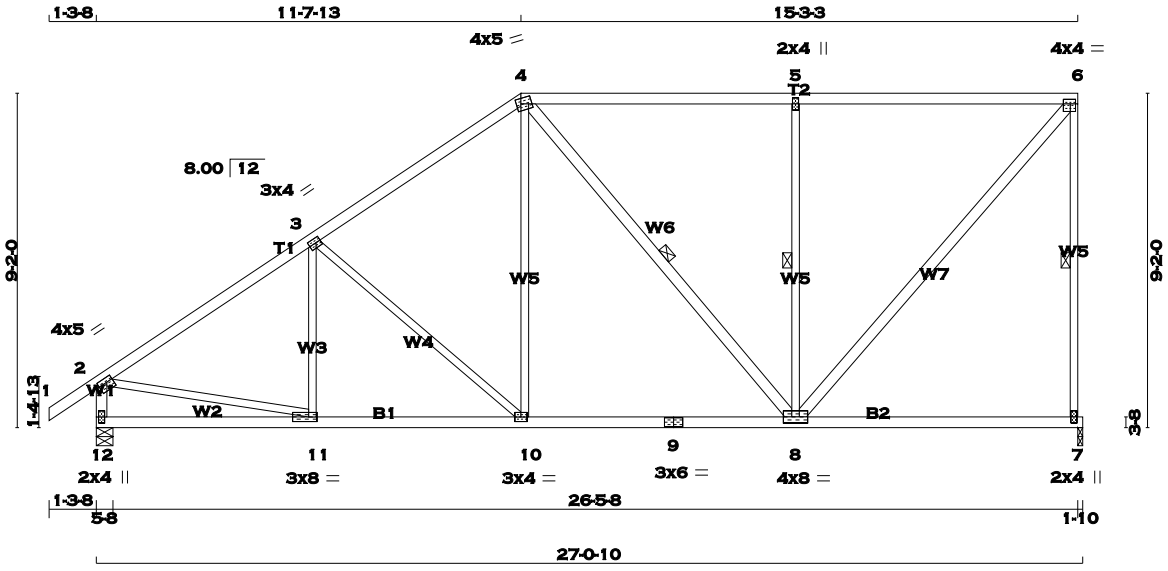
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (9) (INPUT = 0.90)
JSI METAL= 0.50 (2) (INPUT = 1.00)

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT



TOTAL WEIGHT = 128 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	2x3	DRY	No.2	SPF
12 - 2	2x4	DRY	No.2	SPF
12 - 9	2x4	DRY	No.2	SPF
9 - 7	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
4 - 8	2x4	DRY	No.2	SPF
8 - 6	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	5.0	1.50	2.00
3	TMWW-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	BMWWW-t	MT20	4.0	8.0		
9	BS-t	MT20	3.0	6.0		
10	BMWW-t	MT20	3.0	4.0		
11	BMWW-t	MT20	3.0	8.0	1.50	2.75
12	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
7	1276	0	1276	0	0	1-10	1-10
12	1383	0	1383	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
7	896	627 / 0	0 / 0	0 / 0	0 / 0	269 / 0	0 / 0
12	968	691 / 0	0 / 0	0 / 0	0 / 0	277 / 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 = 4.75 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 6-7. DBS = 12-0-0 . CBF = 92 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 4-8, 5-8. DBS = 20-0-0 . CBF = 92 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD FROM	TO	LC1 MAX (PLF) CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	11- 3	-117 / 60	0.05 (1)
2- 3	-1467 / 0	-77.3	-77.3	0.55 (1)	4.75	3-10	-384 / 0	0.46 (1)
3- 4	-1180 / 0	-77.3	-77.3	0.51 (1)	5.20	10- 4	0 / 362	0.08 (1)
4- 5	-867 / 0	-77.3	-77.3	0.85 (1)	4.86	4- 8	-141 / 0	0.11 (1)
5- 6	-867 / 0	-77.3	-77.3	0.86 (1)	4.86	8- 5	-734 / 0	0.40 (1)
7- 6	-1222 / 0	0.0	0.0	0.67 (1)	5.09	8- 6	0 / 1320	0.21 (1)
12- 2	-1339 / 0	0.0	0.0	0.14 (1)	7.00	2-11	0 / 1266	0.28 (1)
12-11	0 / 0	-17.5	-17.5	0.14 (3)	10.00			
11-10	0 / 1245	-17.5	-17.5	0.28 (1)	10.00			
10- 9	0 / 959	-17.5	-17.5	0.33 (3)	10.00			
9- 8	0 / 959	-17.5	-17.5	0.33 (3)	10.00			
8- 7	0 / 0	-17.5	-17.5	0.26 (3)	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 (0.90")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.90")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.12")

CSI: TC=0.86 (5-6:1) , BC=0.33 (8-10:3) , WB=0.46 (3-10:1) , 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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) 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= 0.50 (2) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
R.M. TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Mon Mar 13 10:23:39 2017 Page 1
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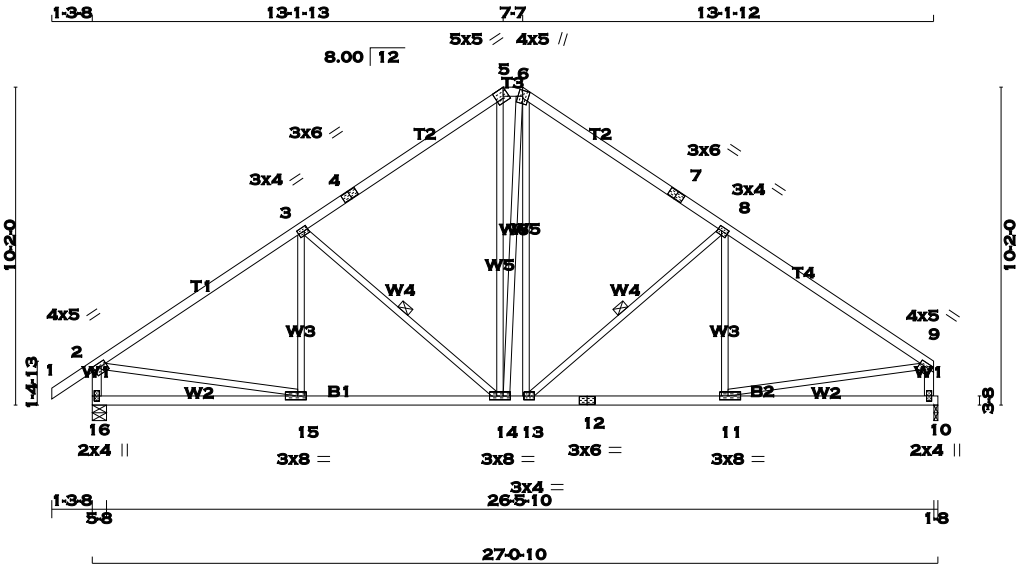

SCALE = 1:73.7

TOTAL WEIGHT = 127 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 - 6	2x4	DRY	No.2	SPF
6 - 7	2x4	DRY	No.2	SPF
7 - 9	2x4	DRY	No.2	SPF
16 - 2	2x4	DRY	No.2	SPF
10 - 9	2x4	DRY	No.2	SPF
16 - 12	2x4	DRY	No.2	SPF
12 - 10	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	5.0	1.50	2.00
3	TMWW-t	MT20	3.0	4.0	1.50	1.50
4	TS-t	MT20	3.0	6.0		
5	TTW-h	MT20	5.0	5.0	Edge	2.00
6	TTWW+m	MT20	4.0	5.0	2.25	1.75
7	TS-t	MT20	3.0	6.0		
8	TMWW-t	MT20	3.0	4.0	1.50	1.50
9	TMVW-t	MT20	4.0	5.0	1.50	2.00
10	BMV1+p	MT20	2.0	4.0		
11	BMWW-t	MT20	3.0	8.0	1.50	3.25
12	BS-t	MT20	3.0	6.0		
13	BMWW-t	MT20	3.0	4.0		
14	BMWWW-t	MT20	3.0	8.0		
15	BMWW-t	MT20	3.0	8.0	1.50	3.25
16	BMV1+p	MT20	2.0	4.0		

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
16	1383	0	1383	0	0	5-8	5-8
10	1276	0	1276	0	0	1-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
16	968	691 / 0	0 / 0	0 / 0	0 / 0	277 / 0	0 / 0
10	896	627 / 0	0 / 0	0 / 0	0 / 0	269 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 16, 10

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.82 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 3-14, 8-13. DBS = 20-0-0 . CBF = 61 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD FROM	TO	LC1 MAX (PLF) CSI (LC)	MAX. UNBRAC LENGTH
1- 2	0 / 29	-77.3	-77.3	0.10 (1)	10.00
2- 3	-1462 / 0	-77.3	-77.3	0.51 (1)	4.82
3- 4	-1094 / 0	-77.3	-77.3	0.47 (1)	5.43
4- 5	-1094 / 0	-77.3	-77.3	0.47 (1)	5.43
5- 6	-877 / 0	-77.3	-77.3	0.01 (1)	6.25
6- 7	-1090 / 0	-77.3	-77.3	0.47 (1)	5.44
7- 8	-1090 / 0	-77.3	-77.3	0.47 (1)	5.44
8- 9	-1463 / 0	-77.3	-77.3	0.51 (1)	4.82
16- 2	-1334 / 0	0.0	0.0	0.14 (1)	7.01
10- 9	-1229 / 0	0.0	0.0	0.13 (1)	7.23
16-15	0 / 0	-17.5	-17.5	0.18 (3)	10.00
15-14	0 / 1244	-17.5	-17.5	0.29 (1)	10.00
14-13	0 / 874	-17.5	-17.5	0.22 (1)	10.00
13-12	0 / 1246	-17.5	-17.5	0.30 (1)	10.00
12-11	0 / 1246	-17.5	-17.5	0.30 (1)	10.00
11-10	0 / 0	-17.5	-17.5	0.19 (3)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
15- 3	-76 / 87	0.04 (1)
3-14	-482 / 0	0.23 (1)
14- 5	0 / 378	0.09 (1)
14- 6	0 / 41	0.01 (1)
13- 6	0 / 334	0.08 (1)
13- 8	-488 / 0	0.24 (1)
11- 8	-69 / 90	0.04 (1)
2-15	0 / 1261	0.28 (1)
11- 9	0 / 1262	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/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 (0.90")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.90")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11")

CSI: TC=0.51 (2-3:1) , BC=0.30 (11-13:1) , WB=0.28 (9-11:1) , 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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) 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= 0.50 (2) (INPUT = 1.00)

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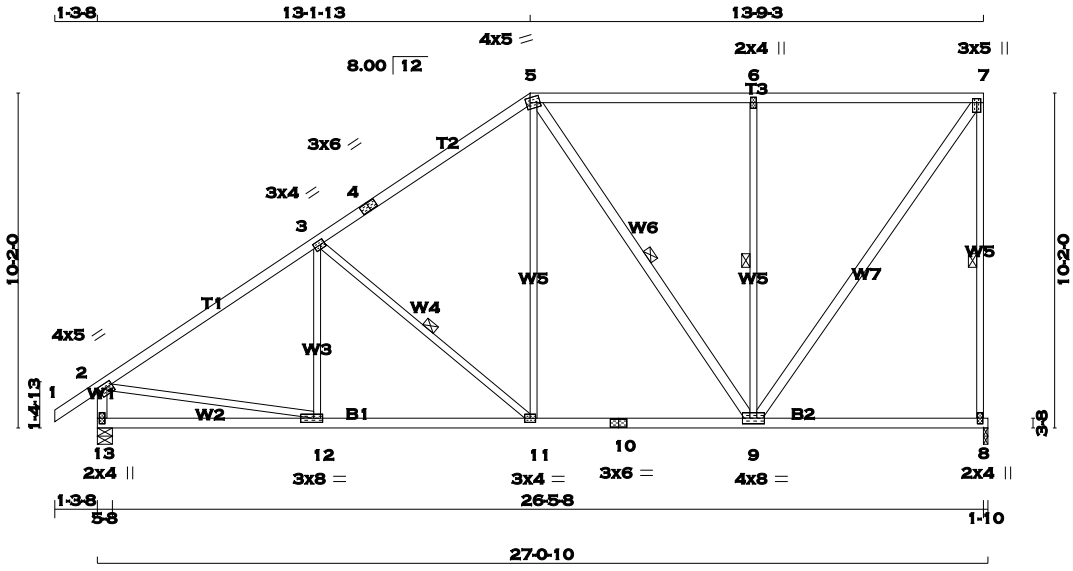
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT



TOTAL WEIGHT = 134 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
8 - 7	2x3	DRY	No.2	SPF
13 - 2	2x4	DRY	No.2	SPF
13 - 10	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
5 - 9	2x4	DRY	No.2	SPF
9 - 7	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	5.0	1.50	2.00
3	TMWW-t	MT20	3.0	4.0	1.50	1.50
4	TS-t	MT20	3.0	6.0		
5	TTWW-m	MT20	4.0	5.0	1.75	1.50
6	TMW+w	MT20	2.0	4.0		
7	TMVW+p	MT20	3.0	5.0	1.50	1.50
8	BMV1+p	MT20	2.0	4.0		
9	BMWWW-t	MT20	4.0	8.0		
10	BS-t	MT20	3.0	6.0		
11	BMWW-t	MT20	3.0	4.0		
12	BMWW-t	MT20	3.0	8.0	1.50	3.25
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

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
8	1276	0	1276	0	0	1-10	1-10
13	1383	0	1383	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
8	896	627 / 0	0 / 0	0 / 0	0 / 0	269 / 0	0 / 0
13	968	691 / 0	0 / 0	0 / 0	0 / 0	277 / 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 = 4.48 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 7-8. DBS = 12-0-0 . CBF = 92 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 3-11, 5-9, 6-9. DBS = 20-0-0 . CBF = 83 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	12- 3	-72 / 89	0.04 (1)
2- 3	-1463 / 0	-77.3	-77.3	0.74 (1)	4.48	3-11	-488 / 0	0.25 (1)
3- 4	-1084 / 0	-77.3	-77.3	0.67 (1)	5.08	11- 5	0 / 423	0.10 (1)
4- 5	-1084 / 0	-77.3	-77.3	0.67 (1)	5.08	5- 9	-272 / 0	0.22 (1)
5- 6	-723 / 0	-77.3	-77.3	0.66 (1)	5.79	9- 6	-662 / 0	0.47 (1)
6- 7	-723 / 0	-77.3	-77.3	0.67 (1)	5.79	9- 7	0 / 1251	0.20 (1)
8- 7	-1227 / 0	0.0	0.0	0.87 (1)	5.08	2-12	0 / 1261	0.28 (1)
13- 2	-1335 / 0	0.0	0.0	0.14 (1)	7.01			
13-12	0 / 0	-17.5	-17.5	0.19 (3)	10.00			
12-11	0 / 1245	-17.5	-17.5	0.30 (1)	10.00			
11-10	0 / 877	-17.5	-17.5	0.27 (3)	10.00			
10- 9	0 / 877	-17.5	-17.5	0.27 (3)	10.00			
9- 8	0 / 0	-17.5	-17.5	0.21 (3)	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 (0.90")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.90")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.10")

CSI: TC=0.87 (7-8:1) , BC=0.30 (11-12:1) , WB=0.47 (6-9:1) , SSI=0.26 (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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) 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= 0.50 (2) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
RAM TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Mon Mar 13 10:23:39 2017 Page 1
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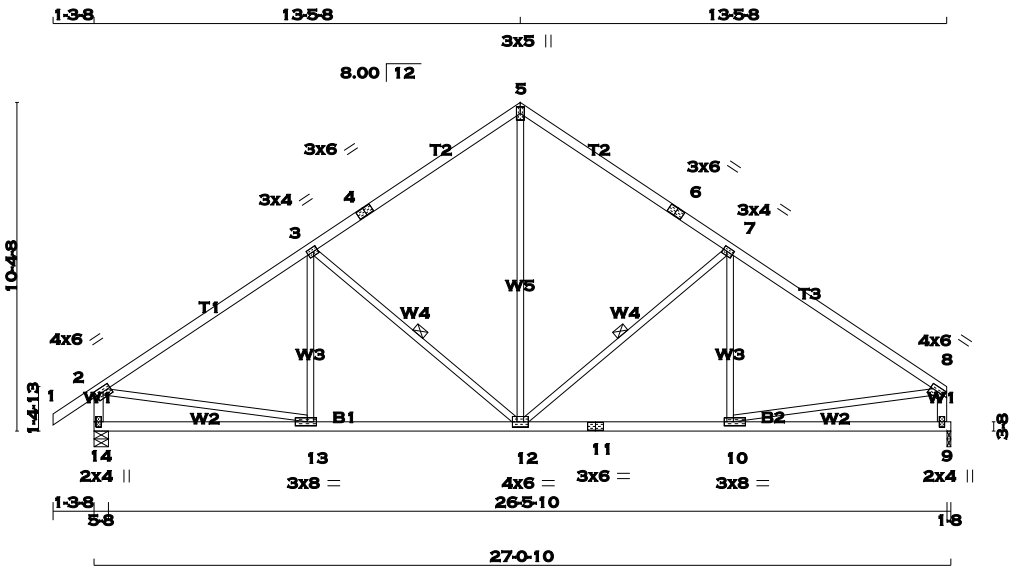

SCALE = 1:72.7

TOTAL WEIGHT = 2 X 113 = 226 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 - 6	2x4	DRY	No.2	SPF
6 - 8	2x4	DRY	No.2	SPF
14 - 2	2x4	DRY	No.2	SPF
9 - 8	2x4	DRY	No.2	SPF
14 - 11	2x4	DRY	No.2	SPF
11 - 9	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	6.0	1.75	3.00
3	TMWW-t	MT20	3.0	4.0	1.50	1.50
4	TS-t	MT20	3.0	6.0		
5	TTW+p	MT20	3.0	5.0		
6	TS-t	MT20	3.0	6.0		
7	TMWW-t	MT20	3.0	4.0	1.50	1.50
8	TMVW-t	MT20	4.0	6.0	1.75	Edge
9	BMV1+p	MT20	2.0	4.0		
10	BMWW-t	MT20	3.0	8.0	1.50	3.50
11	BS-t	MT20	3.0	6.0		
12	BMWWW-t	MT20	4.0	6.0		
13	BMWW-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

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
14	1383	0	1383	0	0	5-8	5-8
9	1276	0	1276	0	0	1-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
14	968	691 / 0	0 / 0	0 / 0	0 / 0	277 / 0	0 / 0
9	896	627 / 0	0 / 0	0 / 0	0 / 0	269 / 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 = 4.79 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 3-12, 7-12. DBS = 20-0-0 . CBF = 63 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH
1- 2	0 / 29	-77.3	-77.3	0.10 (1)	10.00
2- 3	-1460 / 0	-77.3	-77.3	0.54 (1)	4.79
3- 4	-1069 / 0	-77.3	-77.3	0.49 (1)	5.44
4- 5	-1069 / 0	-77.3	-77.3	0.49 (1)	5.44
5- 6	-1069 / 0	-77.3	-77.3	0.49 (1)	5.44
6- 7	-1069 / 0	-77.3	-77.3	0.49 (1)	5.44
7- 8	-1459 / 0	-77.3	-77.3	0.54 (1)	4.79
14- 2	-1334 / 0	0.0	0.0	0.14 (1)	7.01
9- 8	-1227 / 0	0.0	0.0	0.13 (1)	7.23
14-13	0 / 0	-17.5	-17.5	0.19 (3)	10.00
13-12	0 / 1243	-17.5	-17.5	0.30 (1)	10.00
12-11	0 / 1243	-17.5	-17.5	0.30 (1)	10.00
11-10	0 / 1243	-17.5	-17.5	0.30 (1)	10.00
10- 9	0 / 0	-17.5	-17.5	0.19 (3)	10.00

WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
13- 3	-65 / 92	0.04 (1)
3-12	-503 / 0	0.26 (1)
12- 5	0 / 763	0.17 (1)
12- 7	-503 / 0	0.26 (1)
10- 7	-66 / 92	0.04 (1)
2-13	0 / 1259	0.28 (1)
10- 8	0 / 1259	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/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 (0.90")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.90")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11")

CSI: TC=0.54 (2-3:1) , BC=0.30 (12-13:1) , WB=0.28 (2-13:1) , 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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) 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= 0.42 (8) (INPUT = 1.00)

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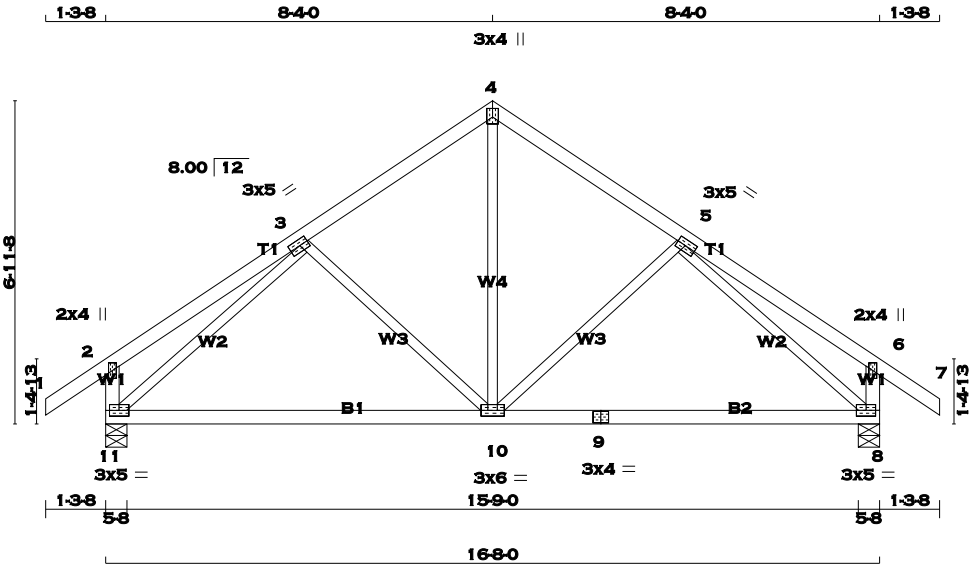
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

KOTT



TOTAL WEIGHT = 71 lb
[M][F]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 7	2x4	DRY	No.2	SPF
11 - 2	2x4	DRY	No.2	SPF
8 - 6	2x4	DRY	No.2	SPF
11 - 9	2x4	DRY	No.2	SPF
9 - 8	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

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	1.50	2.25
4	TTW+p	MT20	3.0	4.0	2.25	1.50
5	TMWW-t	MT20	3.0	5.0	1.50	2.25
6	TMV+p	MT20	2.0	4.0		
8	BMVW1-t	MT20	3.0	5.0		
9	BS-t	MT20	3.0	4.0		
10	BMWWW-t	MT20	3.0	6.0		
11	BMVW1-t	MT20	3.0	5.0		

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 VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
11	897	0	897	0	0	5-8	5-8
8	897	0	897	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
11	627	452 / 0	0 / 0	0 / 0	0 / 0	175 / 0	0 / 0
8	627	452 / 0	0 / 0	0 / 0	0 / 0	175 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 11, 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD FROM	TO	LC1 MAX (PLF) CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	10- 4	0 / 442	0.10 (1)
2- 3	0 / 21	-77.3	-77.3	0.21 (1)	10.00	10- 5	-193 / 2	0.11 (1)
3- 4	-643 / 0	-77.3	-77.3	0.17 (1)	6.25	3-10	-193 / 2	0.11 (1)
4- 5	-643 / 0	-77.3	-77.3	0.17 (1)	6.25	11- 3	-900 / 0	0.48 (1)
5- 6	0 / 21	-77.3	-77.3	0.21 (1)	10.00	5- 8	-900 / 0	0.48 (1)
6- 7	0 / 29	-77.3	-77.3	0.10 (1)	10.00			
11- 2	-230 / 0	0.0	0.0	0.02 (1)	7.81			
8- 6	-230 / 0	0.0	0.0	0.02 (1)	7.81			
11-10	0 / 660	-17.5	-17.5	0.39 (3)	10.00			
10- 9	0 / 660	-17.5	-17.5	0.39 (3)	10.00			
9- 8	0 / 660	-17.5	-17.5	0.39 (3)	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 (0.56")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.56")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11")

CSI: TC=0.21 (2-3:1) , BC=0.39 (10-11:3) , WB=0.48 (3-11:1) , SSI=0.13 (3-4:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (11) (INPUT = 0.90)
JSI METAL= 0.25 (3) (INPUT = 1.00)

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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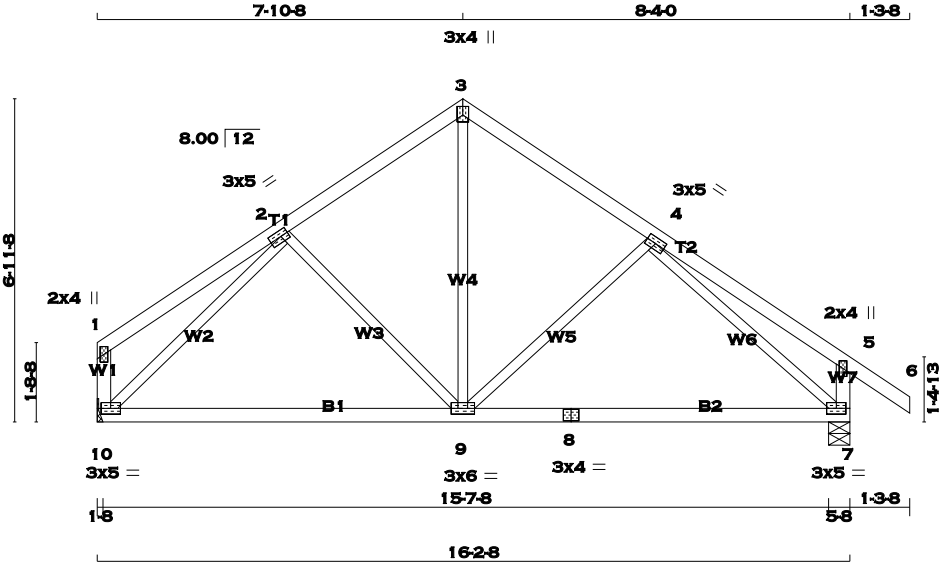
KOTT



TOTAL WEIGHT = 3 X 68 = 203 lb

[M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 6	2x4	DRY	No.2	SPF
10 - 1	2x4	DRY	No.2	SPF
7 - 5	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF
8 - 7	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMV+p	MT20	2.0	4.0		
2	TMWW-t	MT20	3.0	5.0	1.50	2.00
3	TTW+p	MT20	3.0	4.0	2.25	1.50
4	TMWW-t	MT20	3.0	5.0		
5	TMV+p	MT20	2.0	4.0		
7	BMVW1-t	MT20	3.0	5.0		
8	BS-t	MT20	3.0	4.0		
9	BMWWW-t	MT20	3.0	6.0		
10	BMVW1-t	MT20	3.0	5.0		

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 VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
10	769	0	769	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 1-8	
7	875	0	875	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
10	539	377 / 0	0 / 0	0 / 0	0 / 0	162 / 0	0 / 0
7	612	441 / 0	0 / 0	0 / 0	0 / 0	170 / 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 20	-77.3	-77.3	0.19 (1)	10.00	2- 9	-141 / 12	0.08 (1)
2- 3	-608 / 0	-77.3	-77.3	0.15 (1)	6.25	9- 3	0 / 411	0.09 (1)
3- 4	-609 / 0	-77.3	-77.3	0.17 (1)	6.25	9- 4	-199 / 0	0.11 (1)
4- 5	0 / 21	-77.3	-77.3	0.22 (1)	10.00	10- 2	-841 / 0	0.43 (1)
5- 6	0 / 29	-77.3	-77.3	0.10 (1)	10.00	4- 7	-867 / 0	0.46 (1)
10- 1	-117 / 0	0.0	0.0	0.01 (1)	7.81			
7- 5	-229 / 0	0.0	0.0	0.02 (1)	7.81			
10- 9	0 / 589	-17.5	-17.5	0.37 (3)	10.00			
9- 8	0 / 636	-17.5	-17.5	0.37 (3)	10.00			
8- 7	0 / 636	-17.5	-17.5	0.37 (3)	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 (0.54")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.54")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11")

CSI: TC=0.22 (4-5:1) , BC=0.37 (7-9:3) , WB=0.46 (4-7:1) , SSI=0.13 (3-4:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (4) (INPUT = 0.90)
JSI METAL= 0.24 (4) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
RAM TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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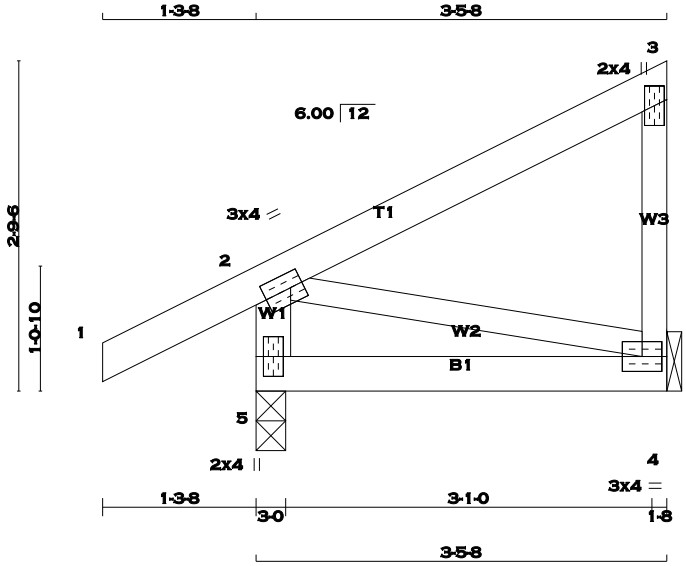
KOTT



SCALE = 1:19.4

TOTAL WEIGHT = 3 X 15 = 45 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
4 - 3	2x3	DRY	No.2	SPF
5 - 4	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	4.0	1.50	1.25
3	TMV+p	MT20	2.0	4.0		
4	BMVW1-t	MT20	3.0	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 VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
5	269	0	269	0	0	3-0	3-0
4	164	0	164	0	0	1-8	1-8

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) 4

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	186	144 / 0	0 / 0	0 / 0	0 / 0	43 / 0	0 / 0
4	115	81 / 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 = 10.00 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
5- 2	-239 / 0	0.0	0.0	0.02 (1)	7.81	2- 4	0 / 0	0.00 (1)
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00			
2- 3	0 / 0	-77.3	-77.3	0.16 (1)	10.00			
4- 3	-134 / 0	0.0	0.0	0.03 (1)	7.81			
5- 4	0 / 0	-17.5	-17.5	0.06 (3)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	33.3	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.16 (2-3:1) , BC=0.06 (4-5:3) , WB=0.00 (2-4:1) , SSI=0.09 (2-3:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.22 (2) (INPUT = 0.90)
JSI METAL= 0.04 (5) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER
R.M. TREVISAN
100136551
March 13th, 2017
PROVINCE OF ONTARIO

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5001
BUILDING DIVISION

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KOTT

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Mon Mar 13 10:23:40 2017 Page 1

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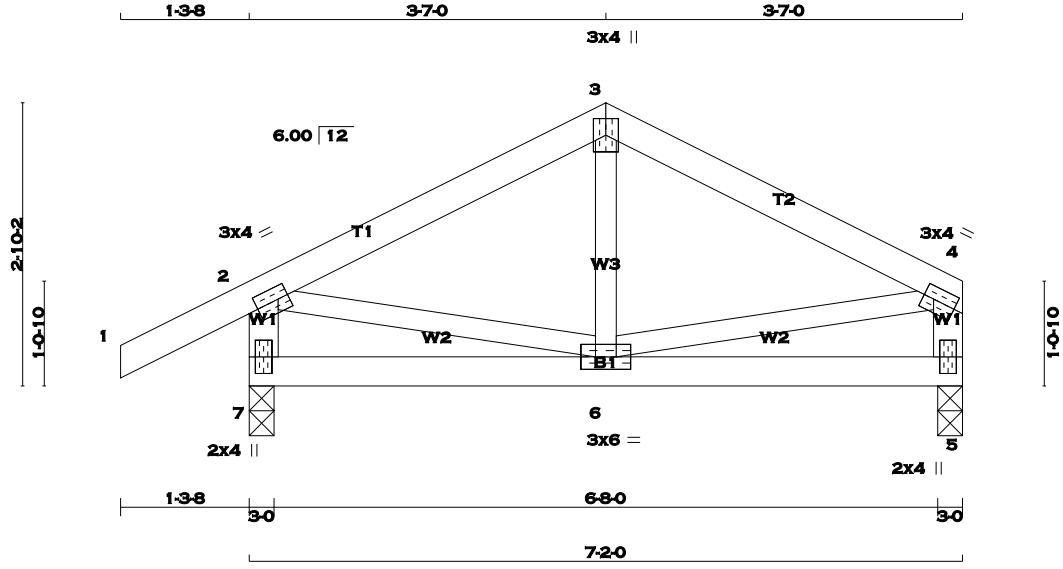

TOTAL WEIGHT = 2 X 28 = 55 lb

[M][F]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 4	2x4	DRY	No.2	SPF
7 - 2	2x4	DRY	No.2	SPF
5 - 4	2x4	DRY	No.2	SPF
7 - 5	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	4.0	1.50	1.25
3	TTW+p	MT20	3.0	4.0		
4	TMVW-t	MT20	3.0	4.0	1.50	1.25
5	BMV1+p	MT20	2.0	4.0		
6	BMWWW-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 VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
7	445	0	445	0	0	3-0	3-0
5	340	0	340	0	0	3-0	3-0

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
7	310	230 / 0	0 / 0	0 / 0	0 / 0	80 / 0	0 / 0
5	239	167 / 0	0 / 0	0 / 0	0 / 0	72 / 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: (3)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00	6- 3	-28 / 52	0.02 (3)
2- 3	-278 / 0	-77.3	-77.3	0.13 (1)	6.25	2- 6	0 / 254	0.06 (1)
3- 4	-278 / 0	-77.3	-77.3	0.13 (1)	6.25	6- 4	0 / 254	0.06 (1)
7- 2	-420 / 0	0.0	0.0	0.04 (1)	7.81			
5- 4	-315 / 0	0.0	0.0	0.03 (1)	7.81			
7- 6	0 / 0	-17.5	-17.5	0.06 (3)	10.00			
6- 5	0 / 0	-17.5	-17.5	0.06 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	33.3	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.24")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.24")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.13 (2-3:1) , BC=0.06 (5-6:3) , WB=0.06 (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) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.62 (2) (INPUT = 0.90)
JSI METAL= 0.15 (2) (INPUT = 1.00)

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READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

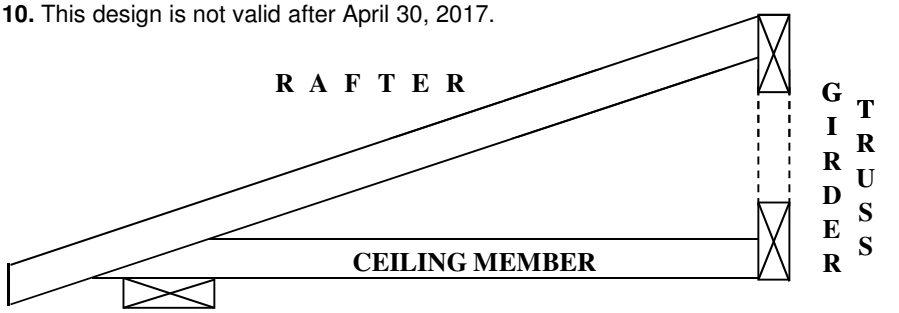
KOTT

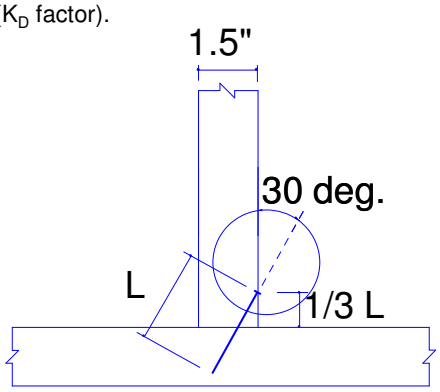
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY B37579H1

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 30º to the grain of the member (See next page for nailing on bearing plate).
7. For loads due to **wind** the nail lateral capacity in this table may be multiplied by 1.15 (K_D factor).
8. Lumber must be dry (< 19% moisture content) at the time of nail installation.
9. Nail values in this table comply with CSA O86-09, section 10.9.4
10. This design is not valid after April 30, 2017.





TOE-NAIL INSTALLATION

Nail type	Common wire	Common spiral	Common wire	Common spiral
Nail dia. (in)	0.160	0.152	0.144	0.122
	(3.5" nail)		**(3" and 3.25" nail)**	
LUMBER SIZE	**MAXIMUM NUMBER OF TOE-NAILS**			
2X4 SPF	2	2	3	3
2X4 D. Fir	2	2	2	2
2X6 SPF	4	4	4	5
2X6 D. Fir	3	3	3	4

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BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING B37579H2

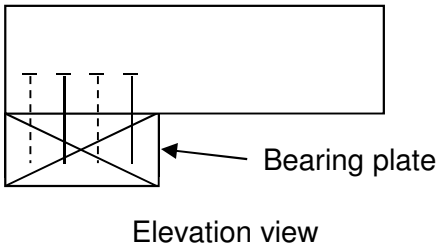
NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL WITHDRAWAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	30	42
	3.25	0.144	32	45
	3.50	0.160	38	52
COMMON SPIRAL	3.00	0.122	26	36
	3.25	0.122	28	40
	3.50	0.152	36	50

Note: If using truss with D. Fir lumber and S-P-F bearing plate, use values in table for S-P-F.

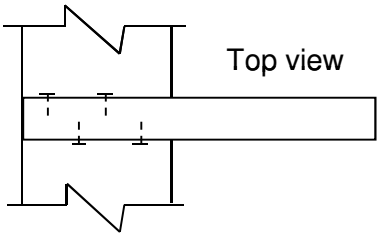
NOTES:

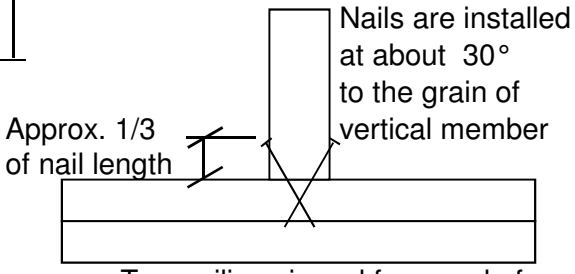
1. Truss chord, rafter, or ceiling members may be anchored to bearing plate by toe-nails, provided that the actual factored uplift force due to **wind** or **earthquake** load does not exceed the withdrawal capacities in the table. Hangers (specified by others) are required for uplift forces that are higher than the maximum toe-nail withdrawal capacity.
2. Toe nail capacities shown in the table are for **one** toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-09, section 10.9.5.2.
3. For 9- 3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in table above.
5. Nail values in table are based on the following relative lumber densities: G = 0.42(SPF), G = 0.49(D. Fir).
6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See drawing on detail B37579H1).
7. Lumber must be dry (< 19% moisture content) at the time of nail installation.
8. Nail values in this table comply with CSA O86-09, section 10.9.5
9. This design is not valid after April 30, 2017

Toe-nailing on 2x6 Bearing Plate



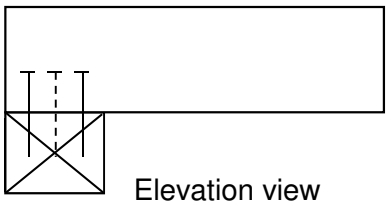
Elevation view



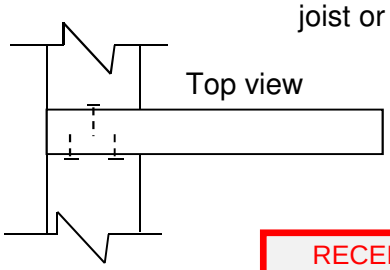


Toe-nailing viewed from end of joist or truss

Toe-nailing on 2x4 Bearing Plate



Elevation view



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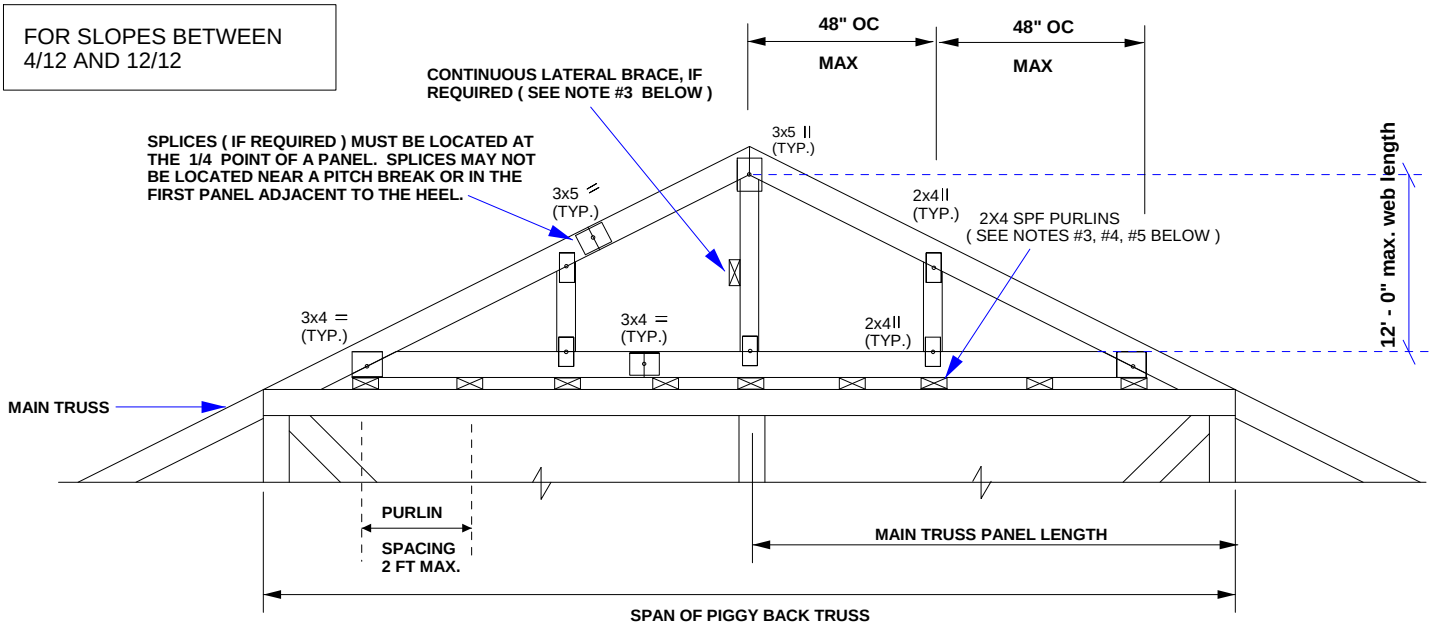
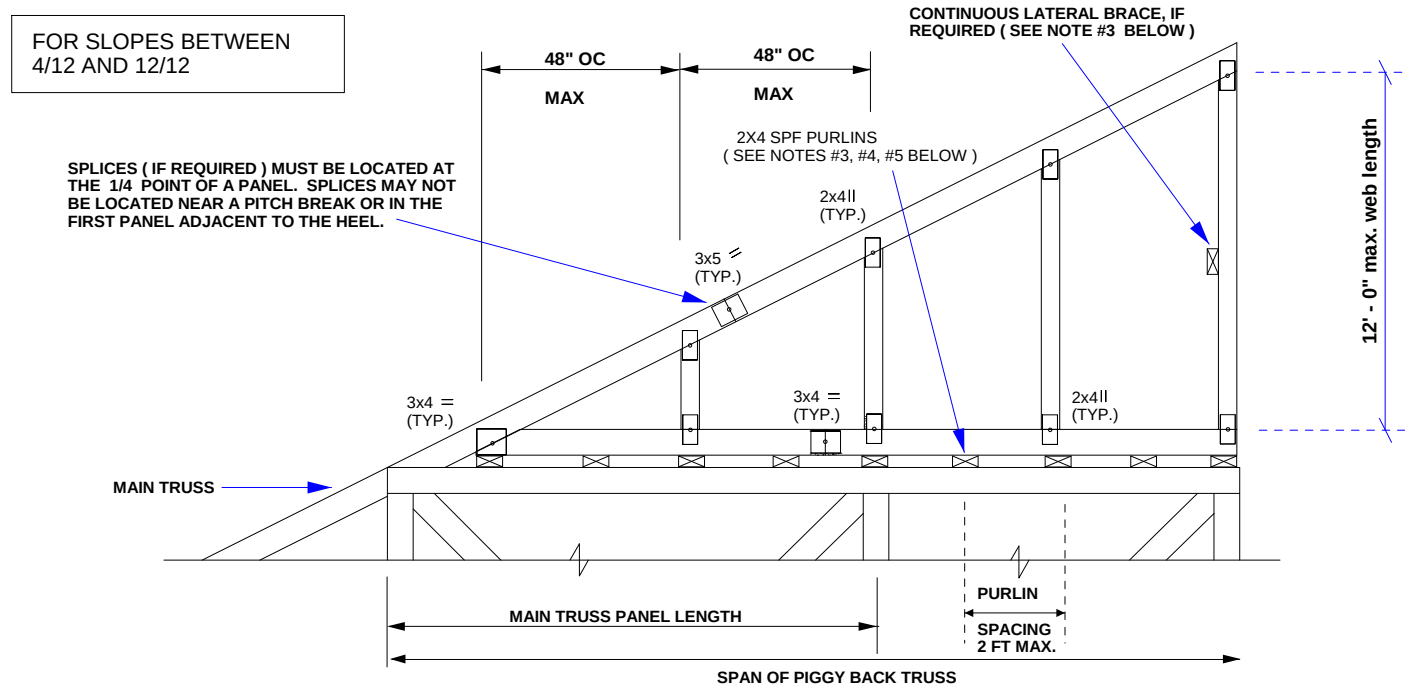
JOB NAME	JOB DESC.	DRWG NO.
DETAILS	LECCO RIDGE-BLOCK 329 PIGGYBACK TRUSS DETAIL	ENG. JOB: PT0317-055 B37579I

FOR SLOPES BETWEEN
4/12 AND 12/12



FOR SLOPES BETWEEN
4/12 AND 12/12



THIS PIGGYBACK DETAIL IS VALID FOR THE PROJECT DESIGN LOADS LISTED BELOW:

SPECIFIED LOADS:

TOP	CHORD	LL =	**60.0**	PSF	OR LESS
		DL =	**6.0**	PSF	OR LESS
BOT	CHORD	LL =	**0**	PSF	
		DL =	**7.0**	PSF	
TOTAL	LOAD	=	**73.0**	PSF	OR LESS

MAX. SPACING OF TRUSSES NOT TO EXCEED 24" C/C

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LICENSED PROFESSIONAL ENGINEER
C. Cordogiannis
90553736
PROVINCE OF ONTARIO

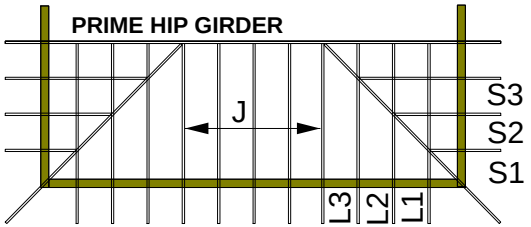
Notes:

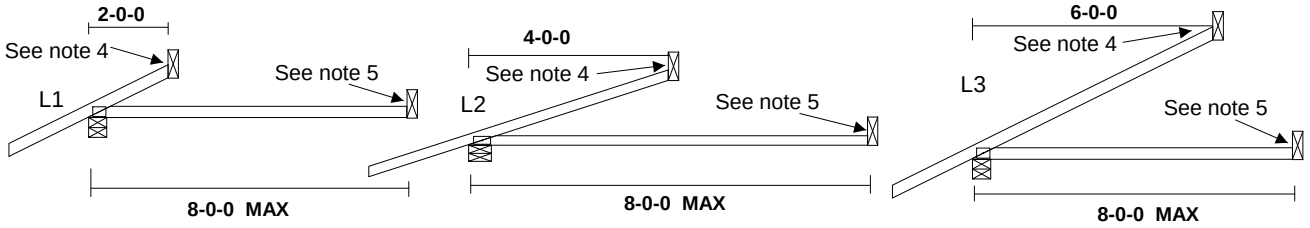
1. **Piggyback truss lumber : Top chord = 2x4, Webs = 2x3 or 2x4, Bottom chord = 2x3 or 2x4. All chord/web lumber to be SPF or D. Fir species and No. 2 DRY or better grade.**
2. **Maximum web length is not to exceed 12 ft.**
3. **One continuous lateral brace required at ½ length of any web that exceeds 6 ft in length. Minimum brace (or purlin) size shall be 1x4 as per NBCC 2010, section 9.23.14.11.4 For L-brace or Scab brace connection details see MiTek details B37337K, B37337P.**
4. **Purlins supporting piggyback trusses, as well as overall roof bracing, are specified by building designer.**
5. **Purlin spacing to be equal to main truss maximum unbraced top chord length (as shown on main truss MiTek engineering drawing), but not to exceed 24" c/c.**
6. **This detail is not valid for projects that require a wind analysis to be incorporated into the truss design.**
7. **Piggyback truss must be installed directly on top of each main truss.**
8. **Maximum span of the piggyback is not to exceed 24'-0" (contact MiTek engineering dept. for spans > 24'-0").**
9. **All plates specified are MiTek MT20, centered at each joint, and pressed into both faces of piggyback truss.**
10. **This detail is not valid after April 30, 2017.**

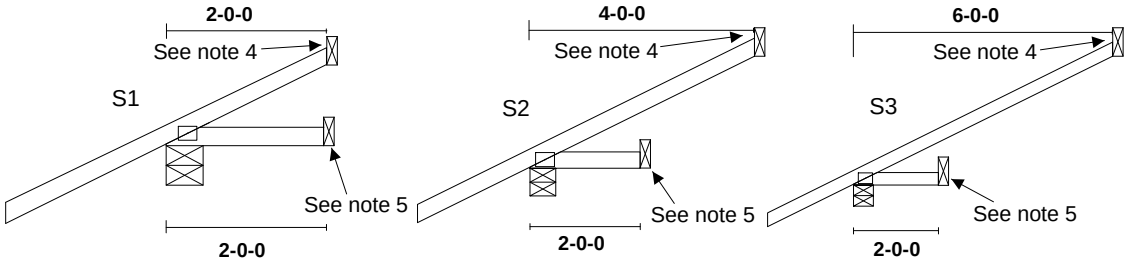
April 24, 2015

JOB NAME	JOB DESC.	DRAWING NO.
DETAILS	HIP END FRAMING LEGACY RIDGE-BLOCK 329	B37579J

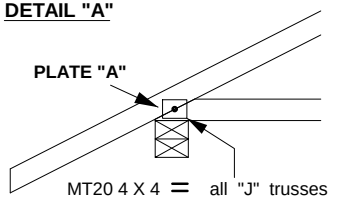
EMC JOB # 10317-055



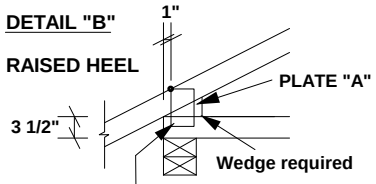




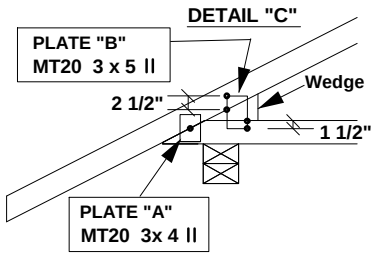
DETAIL "A"



DETAIL "B"



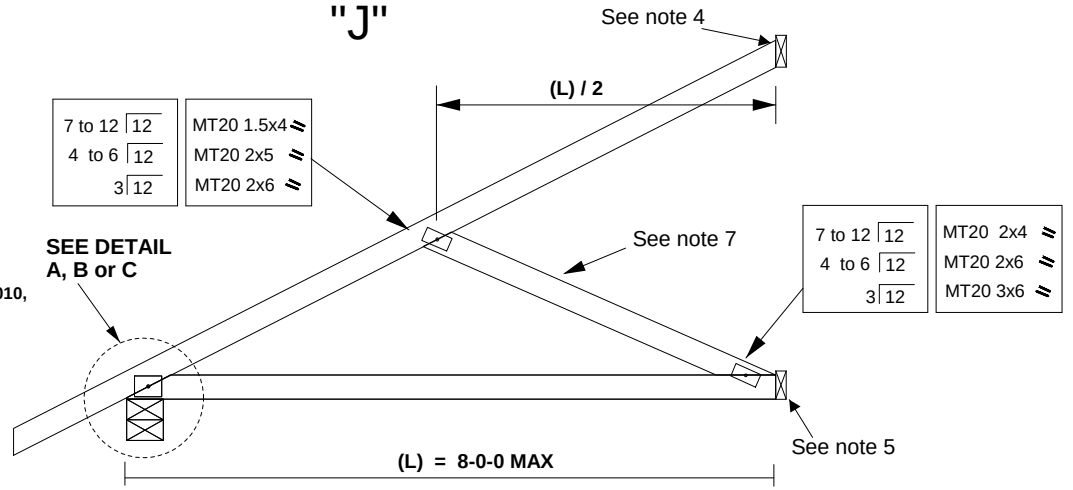
DETAIL "C"



CANTILEVER DETAIL "C"

SLOPE	MAX CANTILEVER	PLATE "B"	WEDGE SIZE
3/12	17"	3 X 5	2 X 3
4/12	14"	3 X 5	2 X 3
5/12	12"	3 X 5	2 X 4
6/12	10"	3 X 5	2 X 4
7/12	9"	3 X 5	2 X 6
8/12	8.5"	3 X 5	2 X 6
9/12	8"	3 X 5	2 X 6
10/12	7.5"	3 X 5	2 X 6

"J"



NOTES:

1. ALL LUMBER SHALL BE 2x4 SPF OR D. Fir No. 2 DRY OR BETTER.
2. 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.
3. HIP RAFTER DESIGN SHALL CONFORM TO SECTION 9.23.14.6 OF NBCC 2010.
4. FASTEN HIGH END OF RAFTERS USING MITEK CANADA INC. "BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY" STANDARD DETAIL B37579H1.
5. FASTEN RIGHT END OF CEILING USING MITEK CANADA INC. "BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY" STANDARD DETAIL B37579H1.
6. OVERHANG LENGTH SHALL NOT EXCEED 2 FT.
7. 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.
8. ALL PLATES SPECIFIED ARE PRESSED INTO BOTH FACES OF THE TRUSS.
9. MITEK REFERENCE PAGE MII-7473C FORMS AN INTEGRAL PART OF THIS DETAIL.
10. THIS DETAIL IS NOT VALID AFTER APRIL 30, 2017

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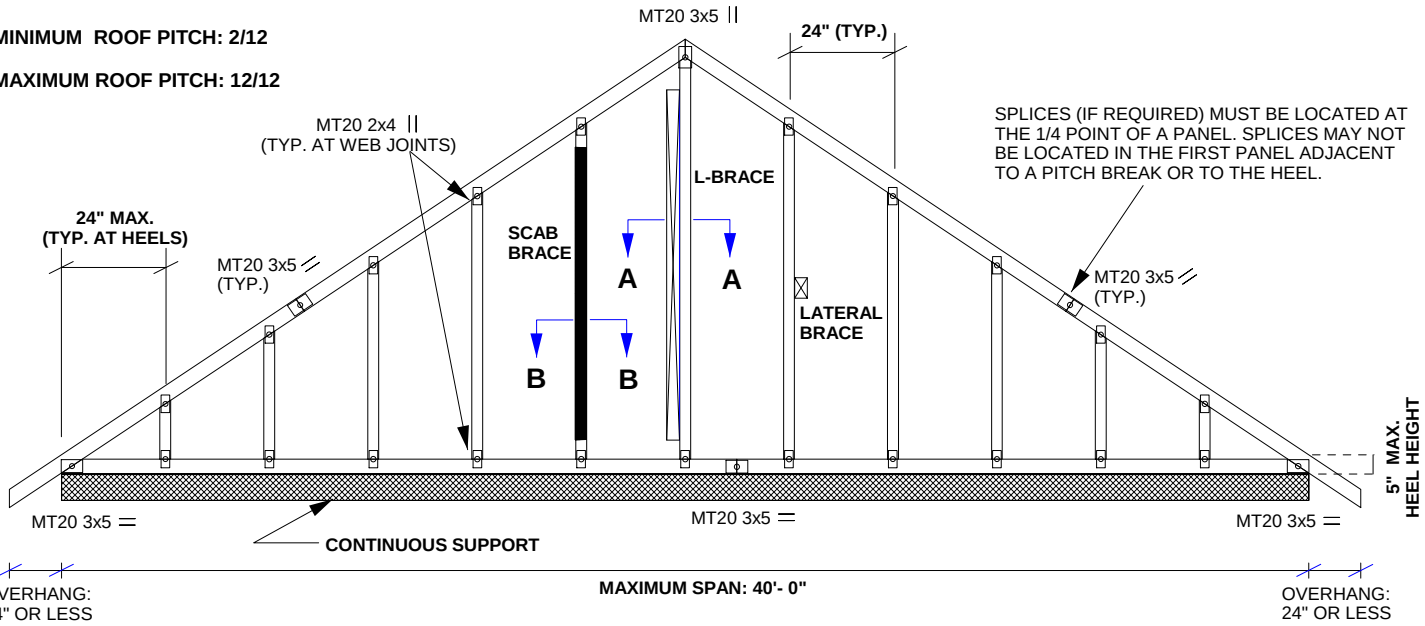
STANDARD GABLE END DETAIL

LECCO RIDGE-BLOCK 329 **DRAWING NO.:** ENG 108 B37337-055 **B37579K**

MINIMUM ROOF PITCH: 2/12

MAXIMUM ROOF PITCH: 12/12



LUMBER

TOP CHORD:	**2 X 4 No. 2 DRY SPF or D- Fir**
BOTTOM CHORD:	**2 X 3 or 2 X 4 No. 2 DRY SPF or D- Fir**
GABLE WEB:	**2 X 3 or 2 X 4 No. 2 DRY SPF or D- Fir**

PLATES

JOINT	PLATES
HEELS	MT20 3 X 5
PEAK	MT20 3 X 5
TC SPLICES	MT20 3 X 5
BC SPLICES	MT20 3 X 5
WEB JOINTS	MT20 2 X 4

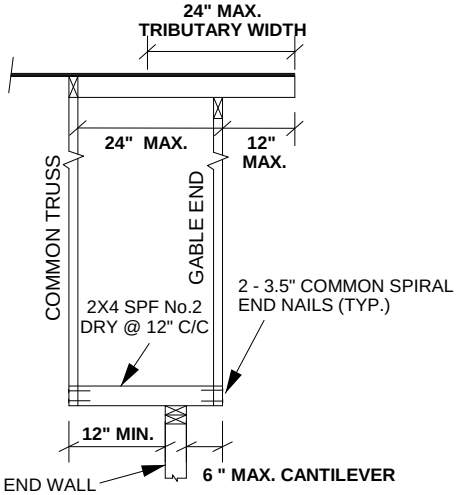
DESIGN CRITERIA

TOP CHORD LL = 60.0 PSF OR LESS
TOP CHORD DL = 6.0 PSF OR LESS
BOTTOM CHORD LL = 0 PSF
BOTTOM CHORD DL = 7.0 PSF

TOTAL LOAD = 73.0 PSF OR LESS

CANTILEVER DETAIL

Note: Gable end may be cantilevered up to 6 inches past end wall as shown. Gable end to be continuously supported by 2x4 SPF No.2 (DRY) members at 12" o.c. along the bottom chord. Roof design loads shall not exceed the loading shown above.

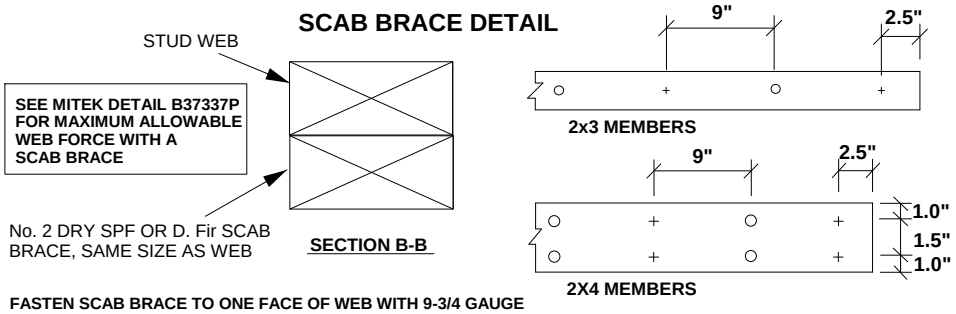


BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10 FT. OR RIGID CEILING DIRECTLY APPLIED.
WEBS MUST BE LATERALLY BRACED, SCAB BRACED OR L-BRACED AS INDICATED IN TABLE BELOW:

WEB LENGTH (L)	SCAB BRACE	L-BRACE	LATERAL BRACE
L < 6 FT.	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED
6 FT. < L < 12 FT.	REQUIRED	2x4 L-BRACE	1 LATERAL AT 1/2 LENGTH OF WEB

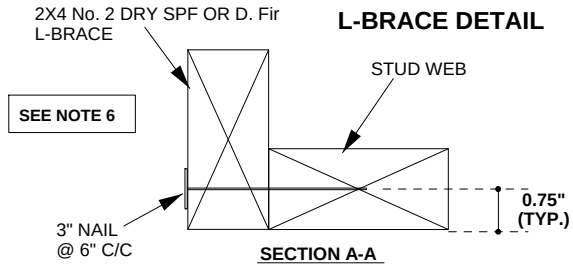
SCAB BRACE DETAIL



FASTEN SCAB BRACE TO ONE FACE OF WEB WITH 9-3/4 GAUGE 0.122" X 3" COMMON SPIRAL NAILS SPACED @ 9" C/C (MAX) WITH 2.5" MINIMUM END DISTANCE. SCAB BRACE MUST COVER 90% OF WEB LENGTH. DRIVE NAILS ALTERNATELY FROM FRONT AND BACK FACES.

\+ NAIL FROM FRONT FACE
o NAIL FROM BACK FACE

L-BRACE DETAIL



FASTEN L-BRACE TO NARROW EDGE OF WEB WITH ONE ROW OF 9-3/4 GAUGE 0.122" X 3" COMMON SPIRAL NAILS SPACED AT 6" C/C WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.

NOTES:

1. **Gable studs are spaced at 24" C/C (max.) with a max. length of 12 ft.**
2. **All plates specified are MiTek MT20, centered at each joint, and pressed into both faces of truss.**
3. **Truss spacing is 24" C/C, maximum.**
4. **Gable truss is designed for continuous support. Bearing material must be of the same species as chord member and of grade No. 2 or better.**
5. **This truss requires rigid sheathing attached to exposed face.**
6. **2x3 or 2x4 T-braces shown for gable webs in the MiTek engineering drawings may be replaced by a 2x4 L-brace as shown above.**
7. **This truss is designed for residential or small building requirements, conforming to Part 9, NBCC 2010.**
8. **This detail is not valid after April 30, 2017.**

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