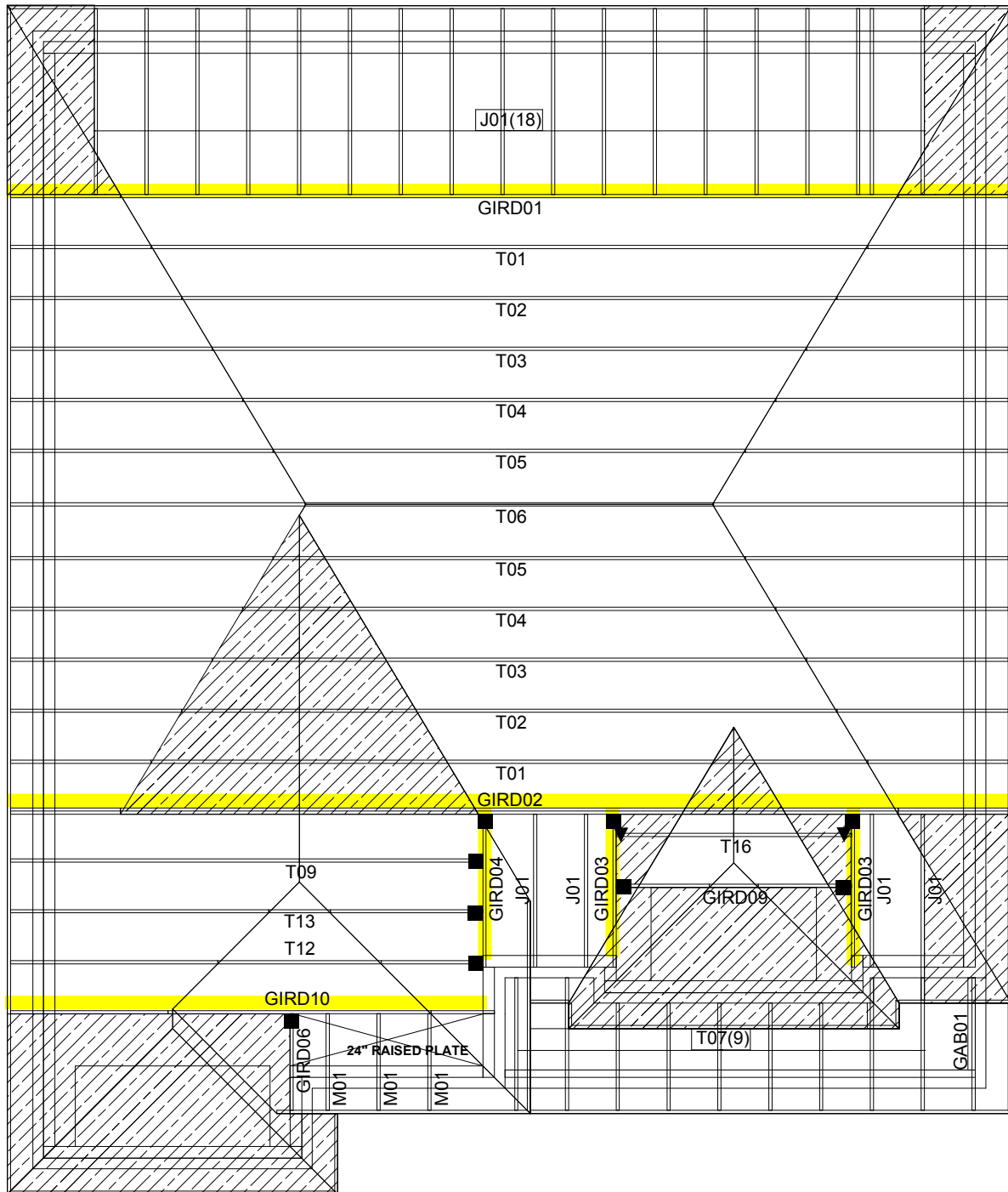




CONVENTIONAL
FRAMING BY OTHERS

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'.

HANGER LEGEND:



SIZE AND LOCATION OF CONVENTIONAL FRAMING IS APPROXIMATE. ALL AREAS MAY NOT BE SHOWN. REFER TO ARCHITECTURAL PLANS FOR DETAILS.

Model: JUNIPER 2 EL 3

Customer: GREENPARK

Project: LECCO RIDGE

Location: MILTON

Date: 11/24/2016 Drawn by: BB

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

RESPONSIBILITIES

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

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

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

USE AND OCCUPANCY

- The building is of the type indicated on the drawing

LOADING

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

HANDLING, INSTALLATION AND BRACING

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

SUPPORTS

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

DIMENSIONS

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



01/29/2013

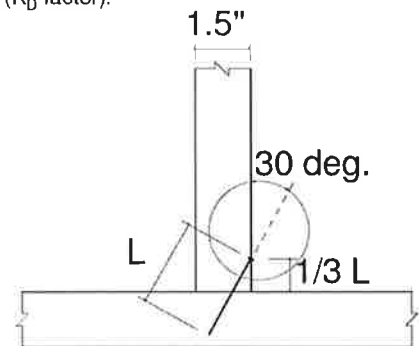
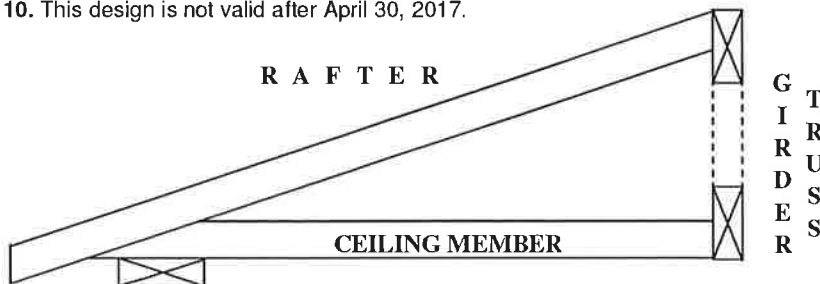
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

B37579H1

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

NOTES:

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



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



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

RECEIVED
TOWN OF MILTON
MAR 29, 2017
JUNIPER 2
BUILDING DIVISION

PEO
Certificate No. 10889485



April 24, 2015

BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

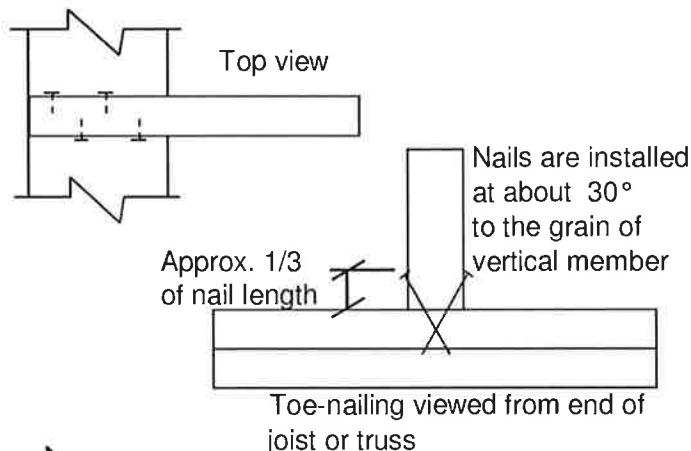
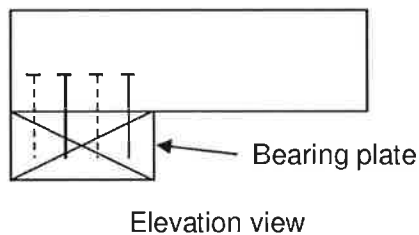
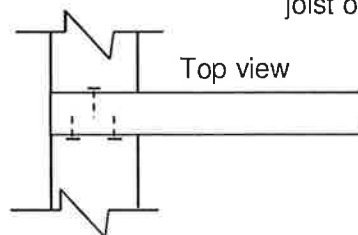
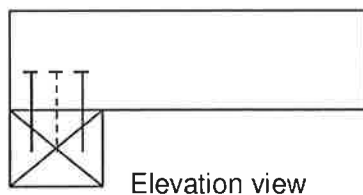
B37579H2

NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL WITHDRAWAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	30	42
	3.25	0.144	32	45
	3.50	0.160	38	52
COMMON SPIRAL	3.00	0.122	26	36
	3.25	0.122	28	40
	3.50	0.152	36	50

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

NOTES:

1. Truss chord, rafter, or ceiling members may be anchored to bearing plate by toe-nails, provided that the actual factored uplift force due to **wind** or **earthquake** load does not exceed the withdrawal capacities in the table. Hangers (specified by others) are required for uplift forces that are higher than the maximum toe-nail withdrawal capacity.
2. Toe nail capacities shown in the table are for **one** toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-09, section 10.9.5.2.
3. For 9- 3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in table above.
5. Nail values in table are based on the following relative lumber densities: $G = 0.42$ (SPF), $G = 0.49$ (D. Fir).
6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See drawing on detail B37579H1).
7. Lumber must be dry (< 19% moisture content) at the time of nail installation.
8. Nail values in this table comply with CSA O86-09, section 10.9.5
9. This design is not valid after April 30, 2017

Toe-nailing on 2x6 Bearing Plate**Toe-nailing on 2x4 Bearing Plate**

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

RECEIVED
TOWN OF MILTON
MAR 29, 2017
JUNIPER 2
BUILDING DIVISION

PEO
Certificate No. 10889485



April 24, 2015

JOB NAME

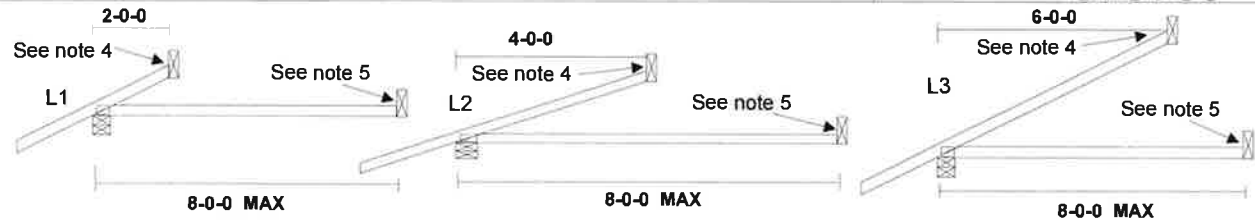
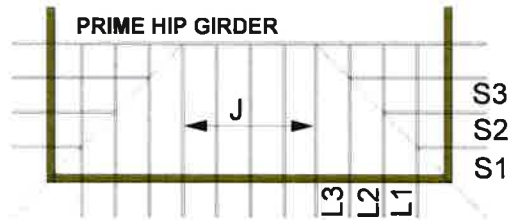
DETAILS

JOB DESC.

HIP END FRAMING

DRAWING NO.

B37579J



DETAIL "A"

PLATE "A"

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

DETAIL "B"

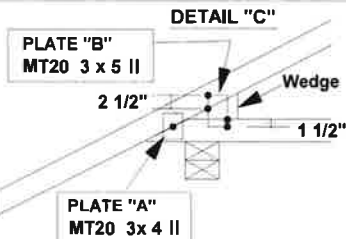
RAISED HEEL

3 1/2"

PLATE "A"

Wedge required

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

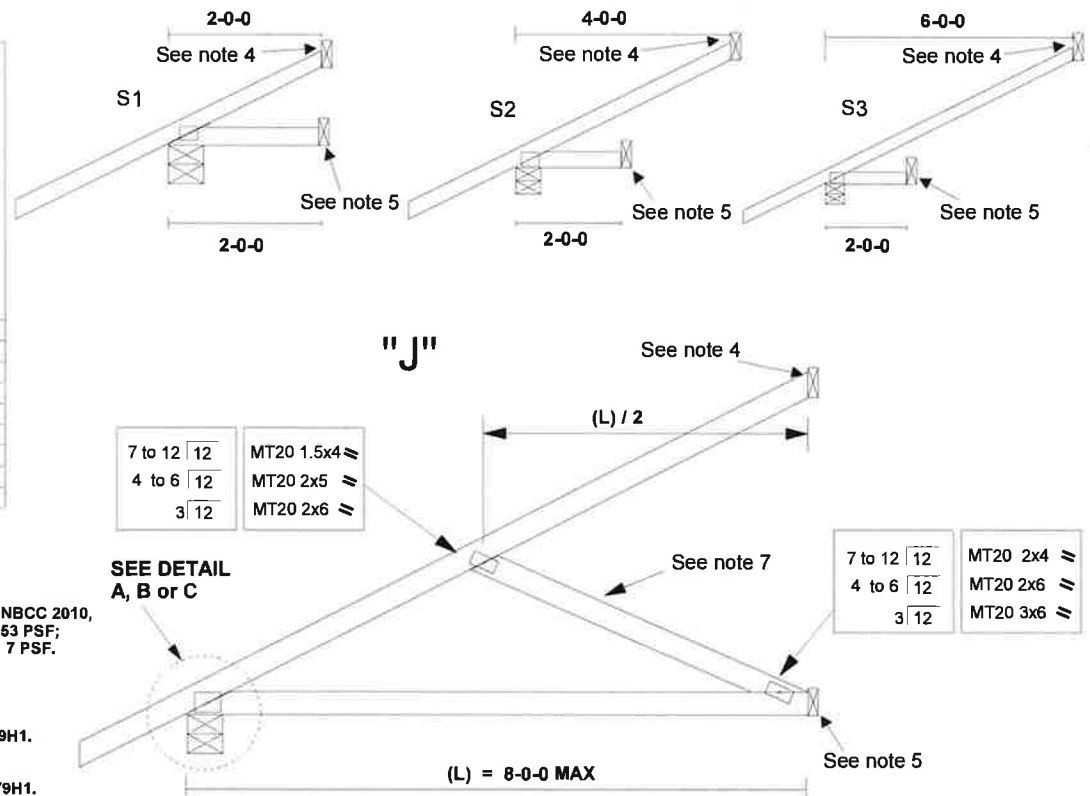


CANTILEVER DETAIL "C"

SLOPE	MAX CANTILEVER	PLATE "B"	WEDGE SIZE
3/12	17"	3 X 5	2 X 3
4/12	14"	3 X 5	2 X 3
5/12	12"	3 X 5	2 X 4
6/12	10"	3 X 5	2 X 4
7/12	9"	3 X 5	2 X 6
8/12	8.5"	3 X 5	2 X 6
9/12	8"	3 X 5	2 X 6
10/12	7.5"	3 X 5	2 X 6

NOTES:

- ALL LUMBER SHALL BE 2x4 SPF OR D. Fir No. 2 DRY OR BETTER.
- THIS TRUSS IS DESIGNED FOR HOUSING AND SMALL BUILDING REQUIREMENTS OF PART 9 NBCC 2010, WHERE GROUND SNOW LOAD IS 60.0 PSF OR LESS AND RAIN LOAD DOES NOT EXCEED 12.53 PSF; TOP CHORD DEAD LOAD IS 6 PSF OR LESS; BC LIVE LOAD IS 0 PSF AND BC DEAD LOAD IS 7 PSF.
- HIP RAFTER DESIGN SHALL CONFORM TO SECTION 9.23.14.6 OF NBCC 2010.
- FASTEN HIGH END OF RAFTERS USING MITEK CANADA INC. "BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY" STANDARD DETAIL B37579H1.
- FASTEN RIGHT END OF CEILING USING MITEK CANADA INC. "BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY" STANDARD DETAIL B37579H1.
- OVERHANG LENGTH SHALL NOT EXCEED 2 FT.
- WHEN SETBACK IS 6 FT OR LESS, DIAGONAL WEB MAY BE OMITTED AND HIGH END OF TOP CHORD SHALL BE CONNECTED AS PER NOTE 4.
- ALL PLATES SPECIFIED ARE PRESSED INTO BOTH FACES OF THE TRUSS.
- MITEK REFERENCE PAGE MII-7473C FORMS AN INTEGRAL PART OF THIS DETAIL.
- THIS DETAIL IS NOT VALID AFTER APRIL 30, 2017

SEE DETAIL
A, B or C

RECEIVED
TOWN OF MILTON
MAR 29, 2017
JUNIPER 2
BUILDING DIVISION

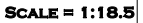
PEO
Certificate No. 10889485



MiTek Canada, Inc.

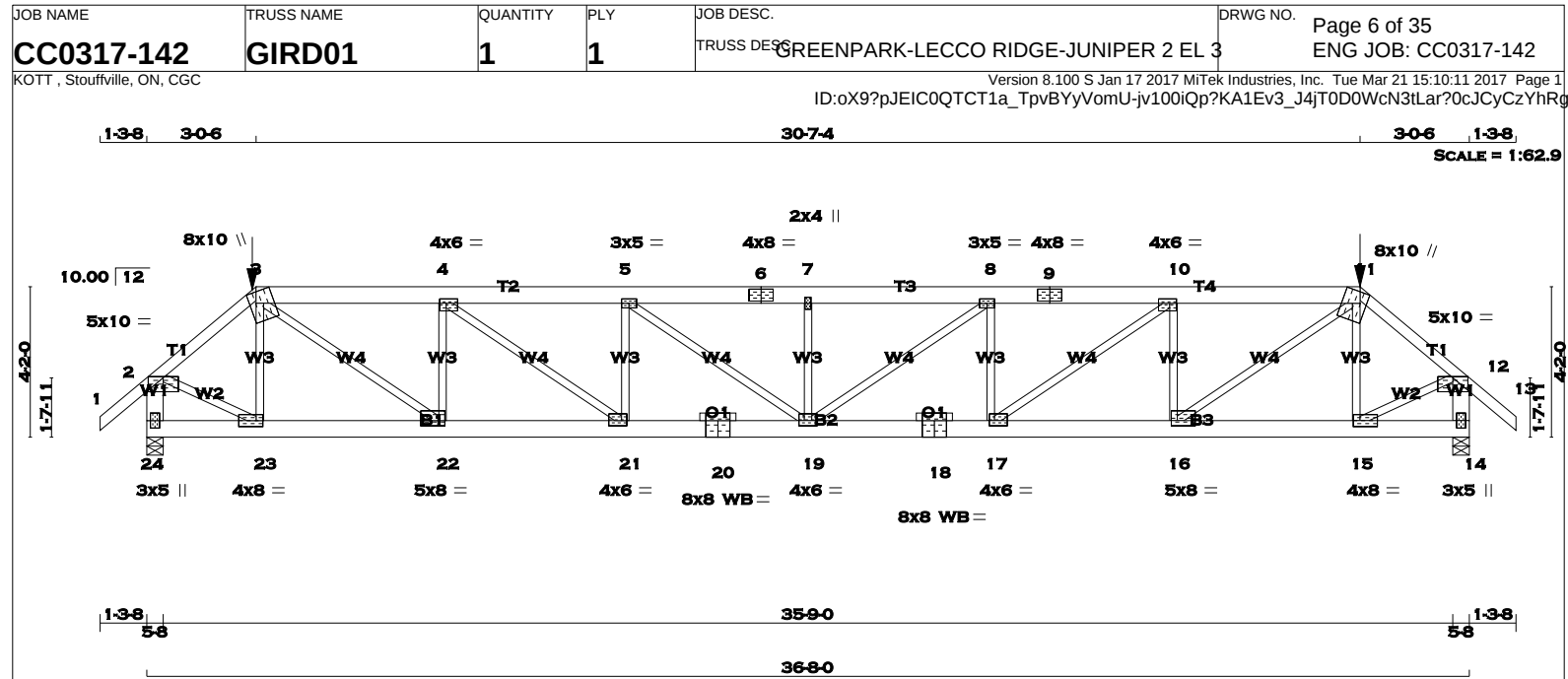
100 Industrial Rd.
Bradford, Ontario, L3Z 3G7

April 24, 2015



[M]

RECEIVED
TOWN OF MILTON
MAR 29, 2017
JUNIPER 2
BUILDING DIVISION



HANGERS NOTES

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 175.8 lbs FACTORED DOWN AT 33-7-10, AND 175.8 lbs FACTORED DOWN AT 3-0-6 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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



21 MAR 2017



RECEIVED
TOWN OF MILTON
MAR 29, 2017
JUNIPER 2
BUILDING DIVISION

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	5.0	8.0	1.75	3.25
3	TTWW+m	MT20	8.0	10.0	Edge	
4	TMWW-t	MT20	5.0	6.0	1.75	1.75
5	TMWW-t	MT20	5.0	6.0	2.00	1.75
6	TMW+w	MT20	2.0	4.0		
7	TS-t	MT20	4.0	8.0		
8	TMWW-t	MT20	3.0	4.0		
9	TMWW-t	MT20	5.0	8.0	2.00	2.50
10	TMWW-t	MT20	5.0	8.0	1.75	3.00
11	TTWW+m	MT20	6.0	10.0	4.50	1.50
12	TMVW-p	MT20	5.0	10.0	Edge	
14	BMV1+p	MT20	3.0	5.0		
15	BMWW-t	MT20	4.0	8.0	2.00	2.00
16	BMWW+t	MT20	4.0	8.0	3.25	1.50
17	BMWW-t	MT20	5.0	8.0	1.75	3.00
18	BS-t	MT20	6.0	8.0		
19	BMWW+t	MT20	6.0	8.0	4.25	1.50
20	BMWWW-t	MT20	8.0	8.0	4.25	3.75
21	BS-t	MT20	6.0	8.0		
22	BMWW-t	MT20	5.0	6.0	1.75	1.75
23	BMWW-t	MT20	5.0	8.0	1.75	3.00
24	BMWW-t	MT20	4.0	6.0	2.00	2.00
25	BMV1+p	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.

HANGERS NOTES

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 175.8 lbs FACTORED DOWN AT 33-7-10 ON TOP CHORD, AND 1339.4 lbs FACTORED DOWN AT 17-4-4, AND 974.6 lbs FACTORED DOWN AT 22-5-12, AND 974.6 lbs FACTORED DOWN AT 31-10-4 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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



21 MAR 2017

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

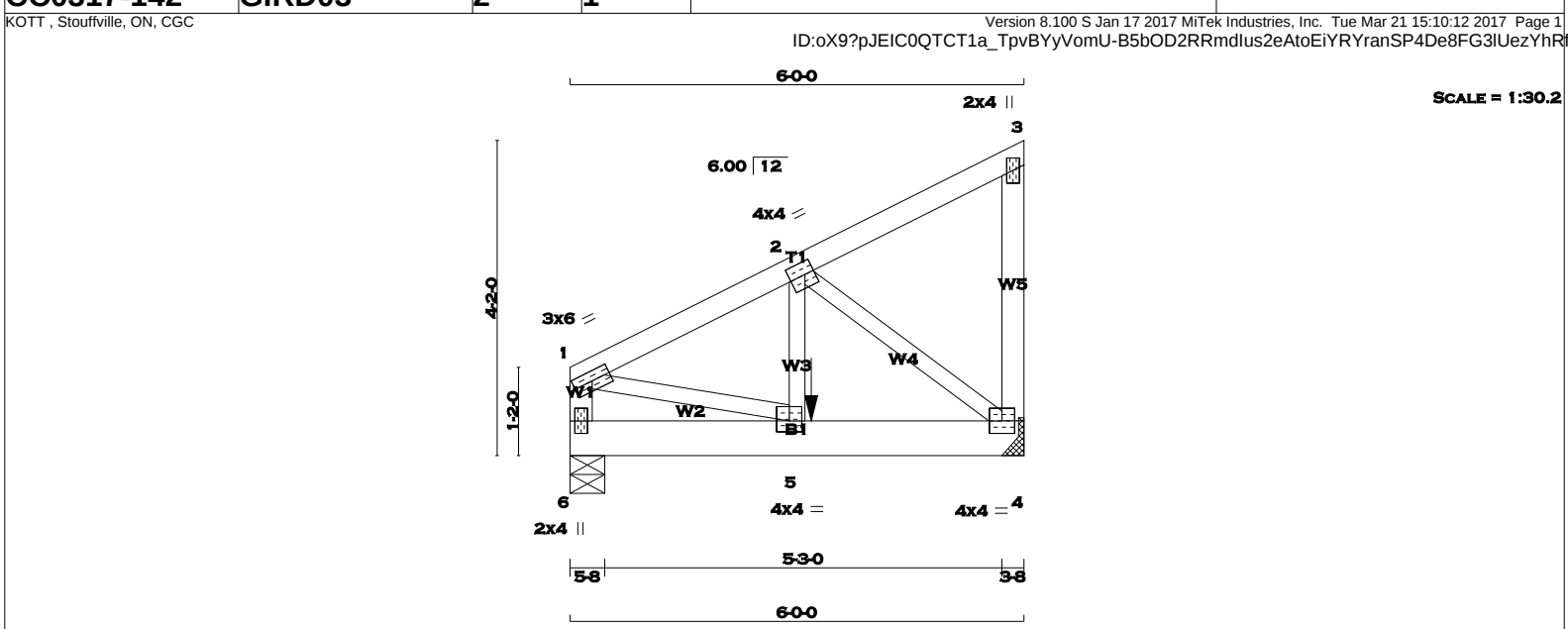
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (23) (INPUT = 0.90)

JSI METAL= 0.91 (21) (INPUT = 1.00)



RECEIVED
TOWN OF MILTON
MAR 29, 2017
JUNIPER 2
BUILDING DIVISION



LUMBER

N. L. G. A. RULES

CHORDS

SIZE

LUMBER

DESCR.

1 - 3

2x4

DRY

No.2

SPF

4 - 3

2x4

DRY

No.2

SPF

6 - 1

2x4

DRY

No.2

SPF

6 - 4

2x6

DRY

No.2

SPF

ALL WEBS

2x3

DRY

No.2

SPF

EXCEPT

DRY: SEASONED LUMBER.

TOTAL WEIGHT = 2 X 29 = 59 lb

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG		IN-SX	HANGER BY OTHERS
	VERT	HORZ	DOWN	HORZ		IN-SX	MIN. SEAT SIZE: 3-8		
4	974	0	974	0	0	5-8	5-8		
6	716	0	716	0	0	5-8	5-8		
UNFACTORED REACTIONS									
JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		LIVE	PERM.LIVE	WIND	DEAD	SOIL
	COMBINED	SNOW	DOWN	UP					
4	684	478 / 0	0 / 0	0 / 0	0 / 0	0 / 0	205 / 0	0 / 0	0 / 0
6	503	352 / 0	0 / 0	0 / 0	0 / 0	0 / 0	151 / 0	0 / 0	0 / 0

PLATES (table is in inches)

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

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

HANGERS NOTES

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 605.6 lbs FACTORED DOWN AT 3-2-4 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS

MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED (LC1) (LC)	MAX. UNBRACED LENGTH (FR-TO)
1-2	-873 / 0	-77.3	-77.3 0.11 (1)	6.25
2-3	-10 / 0	-77.3	-77.3 0.10 (1)	6.25
4-3	-93 / 0	0.0	0.0 0.02 (1)	7.81
6-1	-692 / 0	0.0	0.0 0.08 (1)	7.81
6-5	0 / 0	-17.5	-17.5 0.02 (4)	10.00
5-4	0 / 790	-189.4	-189.4 0.26 (1)	10.00

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
5	3-2-4	-606	-606	---	FRONT	VERT	TOTAL

DESIGN CRITERIA

*** SPECIAL LOADS ANALYSIS ***

GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.

LOADS WERE DERIVED FROM USER INPUT NO FURTHER MODIFICATIONS WERE MADE

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

GIRDER TYPE: CStdGirder

START DISTANCE = 3-2-4

START SPAN CARRIED = 9-3-0

END DISTANCE = 6-0-0

END SPAN CARRIED = 9-3-0

END WALL WIDTH = 0-0

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 (0.01")

ALLOWABLE DEFL.(TL)= L/360 (0.20")

CALCULATED VERT. DEFL.(TL) = L/ 999 (0.02")

CSI: TC=0.11 (1-2:1) , BC=0.26 (4-5:1) , WB=0.24 (2-4:1) , SSI=0.19 (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

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.

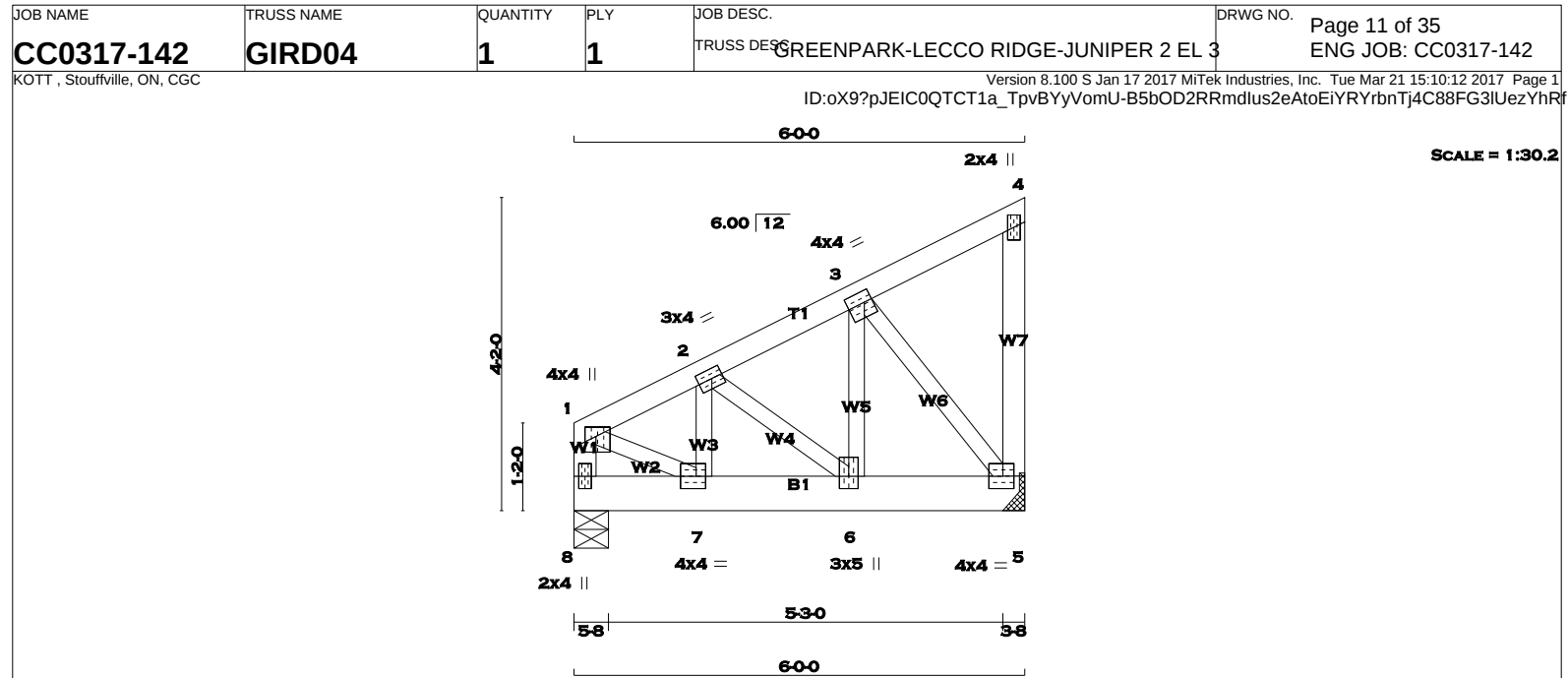
21 MAR 2017

RECEIVED TOWN OF MILTON

MAR 29, 2017

JUNIPER 2

BUILDING DIVISION

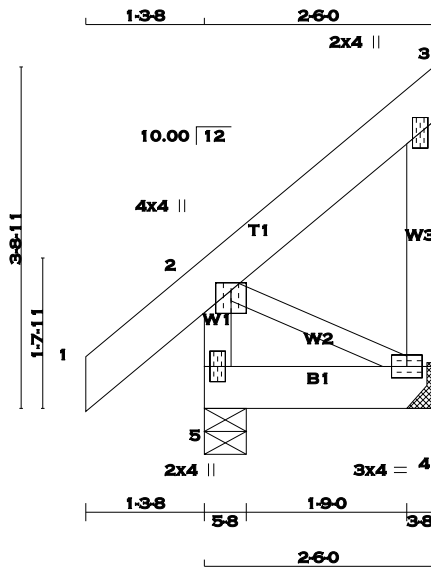


LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. SPF 1 - 4 2x4 DRY No.2 SPF 5 - 4 2x4 DRY No.2 SPF 8 - 1 2x4 DRY No.2 SPF 8 - 5 2x6 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT DRY: SEASONED LUMBER. PLATES (table is in inches) JT TYPE PLATES W LEN Y X 1 TMVW+p MT20 4.0 4.0 1.50 1.75 2 TMVW-t MT20 3.0 4.0 1.50 1.75 3 TMVW-t MT20 4.0 4.0 1.75 1.25 4 TMV+p MT20 2.0 4.0 5 BMVW1-t MT20 4.0 4.0 2.00 1.75 6 BMVW+t MT20 3.0 5.0 2.00 1.50 7 BMVW-t MT20 4.0 4.0 2.00 1.50 8 BMV1+p MT20 2.0 4.0 A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED MAXIMUM FACTORED INPUT REQD GROSS REACTION GROSS REACTION BRG BRG JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX 5 1340 0 1340 0 0 HANGER BY OTHERS 8 1340 0 1340 0 0 MIN. SEAT SIZE: 3-8 UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 5 940 658 / 0 0 / 0 0 / 0 283 / 0 0 / 0 8 940 658 / 0 0 / 0 0 / 0 283 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.89 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. LOADING TOTAL LOAD CASES: (4) CHORDS WEBS MEMB. MAX. FACTORED FORCE VERT. LOAD LC1 MAX. MAX. MEMB. MAX. FACTORED FORCE MAX. FACTORED (LBS) (PLF) CSI (LC) UNBRAC LENGTH FR-TO (LBS) CSI (LC) FR-TO FROM TO 1-2 -1128 / 0 -77.3 -77.3 0.07 (1) 5.89 7-2 0 / 211 0.05 (1) 2-3 -835 / 0 -77.3 -77.3 0.06 (1) 6.25 2-6 -322 / 0 0.06 (1) 3-4 -7 / 0 -77.3 -77.3 0.06 (1) 10.00 6-3 0 / 1069 0.26 (1) 5-4 -70 / 0 0.0 0.0 0.02 (1) 7.81 3-5 -1172 / 0 0.26 (1) 8-1 -1027 / 0 0.0 0.0 0.11 (1) 7.71 1-7 0 / 1103 0.27 (1) 8-7 0 / 0 -369.2 -369.2 0.10 (1) 10.00 7-6 0 / 1007 -369.2 -369.2 0.24 (1) 10.00 6-5 0 / 756 -369.2 -369.2 0.24 (1) 10.00				DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.0 PSF TOTAL LOAD = 33.3 PSF SPACING = 24.0 IN. C/C GIRDER TYPE: CStdGirder START DISTANCE = 0-0 START SPAN CARRIED = 17-3-8 END DISTANCE = 6-0-0 END SPAN CARRIED = 17-3-8 END WALL WIDTH = 5-8 APPLIED TO FRONT SIDE OF BOTTOM CHORD. - ADDTL LOADS BASED ON 55 % OF GSL. THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012, BCBC 2012, ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (0.20") 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 (1-8:1), BC=0.24 (5-6:1), WB=0.27 (1-7:1), SSI=0.30 (5-6:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00 COMP=1.00 SHEAR=1.00 TENS=1.00 COMPANION LIVE LOAD FACTOR = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 822 2284 1656 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.89 (3) (INPUT = 0.90) JSI METAL= 0.38 (7) (INPUT = 1.00)			
--	--	--	--	--	--	--	--	--	--	--	--

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



RECEIVED
TOWN OF MILTON
MAR 29, 2017
JUNIPER 2
BUILDING DIVISION



SCALE = 1:25.1

TOTAL WEIGHT = 20 lb [M]

LUMBER					N. L. G. A. RULES	
CHORDS	SIZE	LUMBER	DESCR.			
5 - 2	2x4	DRY	No.2	SPF		
1 - 3	2x6	DRY	No.2	SPF		
4 - 3	2x4	DRY	No.2	SPF		
5 - 4	2x6	DRY	No.2	SPF		
ALL WEBS 2x3 DRY: SEASONED LUMBER.					No.2	SPF

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW+p	MT20	4.0	4.0	1.00	2.00
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 MI TEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

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

FACTORED			MAXIMUM FACTORED			INPUT	REQRD
	GROSS REACTION		GROSS REACTION			BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
5	445	0	445	0	0	5-8	5-8
4	333	0	333	0	0	HANGER BY OTHERS	
							MIN. SEAT SIZE: 3-8

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
5	310	231 / 0	0 / 0	0 / 0	0 / 0	79 / 0	0 / 0		
4	234	164 / 0	0 / 0	0 / 0	0 / 0	70 / 0	0 / 0		

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX. (LC)	MEMB.	MAX. FORCE (LBS)	LC1 MAX. (LC)	
FR-TO		FROM	TO	FR-TO		FROM	TO
5-2	-383 / 0	0.0	0.0 0.04 (1)	7.81	2-4	0 / 0	0.00 (1)
1-2	0 / 36	-77.3	-77.3 0.06 (1)	10.00			
2-3	0 / 0	-217.5	-217.5 0.13 (1)	10.00			
4-3	-272 / 0	0.0	0.0 0.05 (1)	7.81			
5-4	0 / 0	-49.2	-49.2 0.05 (4)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

GIRDER TYPE: CPrimeHip
SIDE SETBACK = 0-0
END SETBACK = 9-3-0
END WALL WIDTH = 0-0
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDTL LOADS BASED ON 55 % OF GSL.

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

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

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

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

CSI: TC=0.13 (2-3:1) , BC=0.05 (4-5:4) , WB=0.00 (2-4:1) , SSI=0.14 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

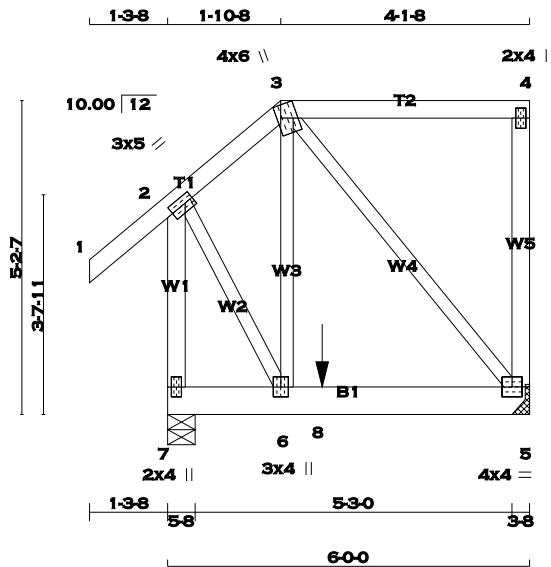
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.29 (2) (INPUT = 0.90)
JSI METAL= 0.07 (3) (INPUT = 1.00)

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



RECEIVED
TOWN OF MILTON
MAR 29, 2017
JUNIPER 2
BUILDING DIVISION



SCALE = 1:38.2

TOTAL WEIGHT = 40 lb [M]

<u>LUMBER</u>				
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 - 2	2x4	DRY	No.2	SPF
7 - 5	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
2	TMVW-t	MT20	3.0	5.0	1.50	1.75
3	TTWW+m	MT20	4.0	6.0	2.50	0.75
4	TMV+p	MT20	2.0	4.0		
5	BMVW1-t	MT20	4.0	4.0		
6	BMVW+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.

HANGERS NOTES

- SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 178.1 lbs FACTORED DOWN AT 2-6-12 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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

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
5	445	0	445	0	0	HANGER BY OTHERS	
7	545	0	545	0	0	MIN. SEAT SIZE: 3-8	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
5	313	217 / 0	0 / 0	0 / 0	0 / 0	96 / 0	0 / 0	
7	380	281 / 0	0 / 0	0 / 0	0 / 0	99 / 0	0 / 0	

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED LC1 MAX. (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED LC1 MAX. (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 34	-77.3 -77.3	0.12 (1)	10.00	6-3	0 / 100	0.03 (4)
2-3	-214 / 0	-77.3 -77.3	0.11 (1)	6.25	3-5	-225 / 0	0.15 (1)
3-4	0 / 0	-77.3 -77.3	0.25 (1)	10.00	2-6	0 / 275	0.07 (1)
5-4	-160 / 0	0.0 0.0	0.07 (1)	7.81			
7-2	-576 / 0	0.0 0.0	0.12 (1)	7.81			
7-6	0 / 0	-17.5 -17.5	0.07 (1)	10.00			
6-8	0 / 146	-17.5 -17.5	0.10 (1)	10.00			
8-5	0 / 146	-57.0 -57.0	0.10 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
8	2-6-12	-178	-178	---	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 2.00/12 MINIMUM

GIRDER TYPE: CStdGirder
START DISTANCE = 2-6-12
START SPAN CARRIED = 3-8-0
END DISTANCE = 6-0-0
END SPAN CARRIED = 3-8-0
END WALL WIDTH = 0-0
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

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

CSI: TC=0.25 (3-4:1) , BC=0.10 (5-6:1) , WB=0.15 (3-5:1) , SSI=0.18 (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(DR (PSI)
MAX MII
MT20 618 35
PLATE PLACEMENT
PLATE ROTATION

RECEIVED
TOWN OF MILTON
MAR 29, 2017
JUNIPER 2
BUILDING DIVISION



21 MAR 2017



JSI GRIP= 0.64 (2) (INPUT = 0.90)
JSI METAL= 0.12 (2) (INPUT = 1.00)

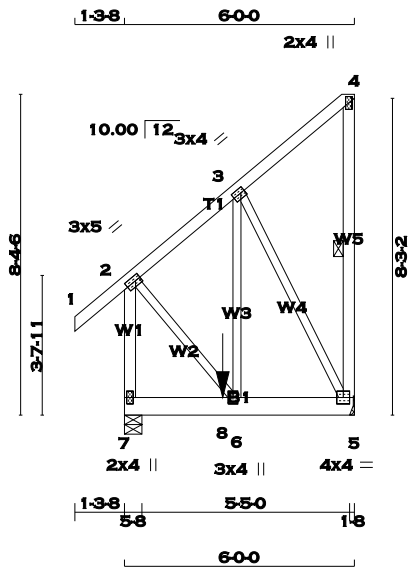
READ ALL NOTES ON THIS PAGE AND ON THE
ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE
IS AN INTEGRAL PART OF THIS DRAWING AS IT
CONTAINS SPECIFICATIONS AND CRITERIA USED
IN THE DESIGN OF THIS COMPONENT.



21 MAR 2017



RECEIVED
TOWN OF MILTON
MAR 29, 2017
JUNIPER 2
BUILDING DIVISION



SCALE = 1:60.1

TOTAL WEIGHT = 46 lb

LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
5 - 4	2x4	DRY	No.2	SPF
7 - 2	2x4	DRY	No.2	SPF
7 - 5	2x6	DRY	No.2	SPF

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

HANGERS NOTES

- SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 178.1 lbs FACTORED DOWN AT 2-6-12 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		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
5		458	0	458	0	0	HANGER BY OTHERS		
7		533	0	533	0	0	MIN. SEAT SIZE: 1-8	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS		LIVE		PERM.LIVE		WIND		DEAD		SOIL	
JT		COMBINED	SNOW										
5		321	225 / 0	0 / 0		0 / 0	0 / 0	0 / 0		96 / 0		0 / 0	
7		371	273 / 0	0 / 0		0 / 0	0 / 0	0 / 0		98 / 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.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-5. 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: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 (LC)
FR-TO		FROM	TO		FR-TO		
1-2	0 / 34	-77.3	-77.3 0.12 (1)	10.00	6-3	0 / 133	0.04 (4)
2-3	-186 / 0	-77.3	-77.3 0.13 (1)	6.25	3-5	-330 / 0	0.24 (1)
3-4	-18 / 0	-77.3	-77.3 0.13 (1)	6.25	2-6	0 / 233	0.06 (1)
5-4	-91 / 0	0.0	0.0 0.03 (1)	6.25			
7-2	-495 / 0	0.0	0.0 0.11 (1)	7.81			
7-8	0 / 0	-17.5	-17.5 0.03 (1)	10.00			
8-6	0 / 0	-57.0	-57.0 0.03 (1)	10.00			
6-5	0 / 157	-57.0	-57.0 0.06 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
8	2-6-12	-178	-178	---	FRONT	VERT	TOTAL

DESIGN CRITERIA

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

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C

GIRDER TYPE: CStdGirder
START DISTANCE = 2-6-12
START SPAN CARRIED = 3-8-0
END DISTANCE = 6-0-0
END SPAN CARRIED = 3-8-0
END WALL WIDTH = 0-0
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL 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 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.13 (2-3:1) , BC=0.06 (5-6:1) , WB=0.24 (3-5:1) , SSI=0.14 (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) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

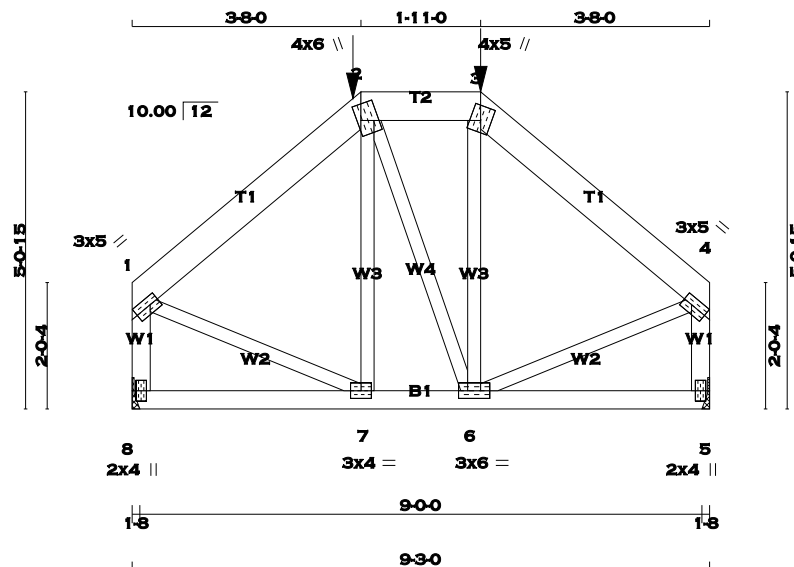
PLATE ROTATION

JSI GRIP= 0.53 (2)
JSI METAL= 0.10

RECEIVED
TOWN OF MILTON
MAR 29, 2017
JUNIPER 2
BUILDING DIVISION

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





TOTAL WEIGHT = 52 lb [M]

LUMBER				
N. L. G. A. RULES				
CHORDS		SIZE	LUMBER	DESCR.
1 - 2	2x6	DRY	No.2	SPF
2 - 3	2x6	DRY	No.2	SPF
3 - 4	2x6	DRY	No.2	SPF
8 - 1	2x4	DRY	No.2	SPF
5 - 4	2x4	DRY	No.2	SPF
8 - 5	2x4	DRY	No.2	SPF

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	3.0	5.0	1.50	1.75
2	TTWW+m	MT20	4.0	6.0	3.00	0.75
3	TTW+m	MT20	4.0	5.0	2.75	2.00
4	TMVW-t	MT20	3.0	5.0	1.50	1.75
5	BMV1+p	MT20	2.0	4.0		
6	BMWWW-t	MT20	3.0	6.0		
7	BMWW-t	MT20	3.0	4.0		
8	BMV1+p	MT20	2.0	4.0		

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

HANGERS NOTES

- SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 102.4 lbs FACTORED DOWN AT 5-7-0, AND 102.4 lbs FACTORED DOWN AT 3-8-0 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX		
8		606	0	606	0			HANGER BY OTHERS	
5		606	0	606	0			MIN. SEAT SIZE: 1-8	

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS							
8	425	296 / 0	LIVE	0 / 0	PERM.LIVE	0 / 0	WIND	0 / 0	DEAD
5	425	296 / 0		0 / 0		0 / 0		130 / 0	SOIL

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 (LC)	
FR-TO		FROM	TO	FR-TO		FROM	TO
1-2	-440 / 0	-77.3	-77.3 0.10 (1)	6.25	7-2	-65 / 43	0.02 (1)
2-3	-334 / 0	-109.6	-109.6 0.04 (1)	6.25	2-6	-1 / 0	0.00 (1)
3-4	-439 / 0	-77.3	-77.3 0.10 (1)	6.25	6-3	-66 / 44	0.02 (1)
8-1	-566 / 0	0.0	0.0 0.07 (1)	7.81	1-7	0 / 364	0.09 (1)
5-4	-565 / 0	0.0	0.0 0.07 (1)	7.81	6-4	0 / 364	0.09 (1)
8-7	0 / 0	-24.8	-24.8 0.08 (4)	10.00			
7-6	0 / 335	-24.8	-24.8 0.10 (4)	10.00			
6-5	0 / 0	-24.8	-24.8 0.08 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
2	3-8-0	-102	-102	---	FRONT	VERT	TOTAL
3	5-7-0	-102	-102	---	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 2.00/12 MINIMUM

GIRDER TYPE: CPrimeHip
SIDE SETBACK = 3-8-0
END SETBACK = 3-8-0
END WALL WIDTH = 0-0
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 (0.31")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.31")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.10 (1-2:1) , BC=0.10 (6-7:4) , WB=0.09 (1-7:1) , SSI=0.08 (5-6:4)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

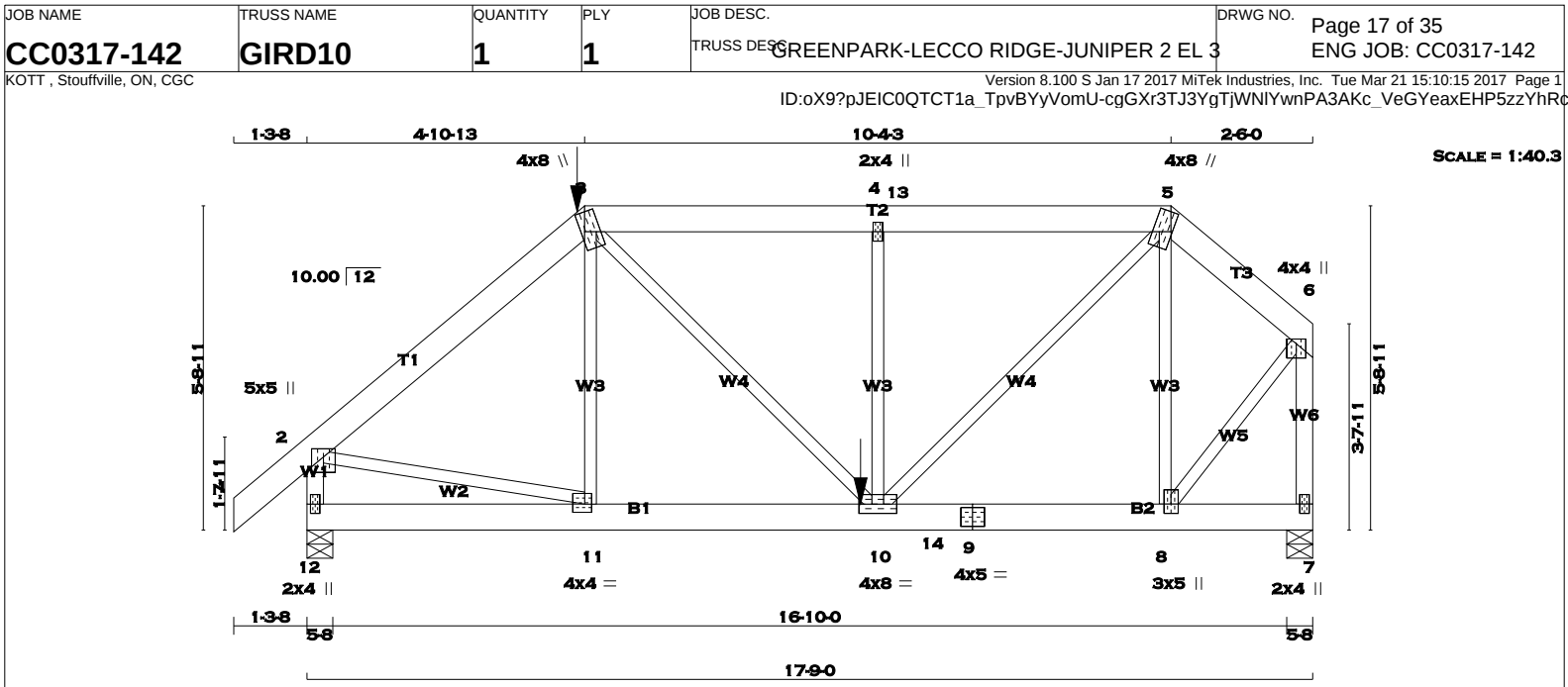
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.66 (6) (INPUT = 0.90)
JSI METAL= 0.16 (1) (INPUT = 1.00)

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



RECEIVED
TOWN OF MILTON
MAR 29, 2017
JUNIPER 2
BUILDING DIVISION



TOTAL WEIGHT = 106 lb [M]

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

1 - 3	2x6	DRY	No.2	SPF
3 - 5	2x6	DRY	No.2	SPF
5 - 6	2x6	DRY	No.2	SPF
12 - 2	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
12 - 9	2x6	DRY	No.2	SPF
9 - 7	2x6	DRY	No.2	SPF

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW+p	MT20	5.0	5.0	1.75	2.50
3	TTWW+m	MT20	4.0	8.0	4.00	0.75
4	TMW+w	MT20	2.0	4.0		
5	TTWW+m	MT20	4.0	8.0	4.00	0.25
6	TMVW+p	MT20	4.0	4.0	1.00	2.00
7	BMV1+p	MT20	2.0	4.0		
8	BMVW+t	MT20	3.0	5.0	2.00	1.50
9	BS-t	MT20	4.0	5.0		
10	BMVW+t	MT20	4.0	8.0		
11	BMVW-t	MT20	4.0	4.0	1.75	1.50
12	BMV1+p	MT20	2.0	4.0		

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

HANGERS NOTES
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 263.3 lbs FACTORED DOWN AT 4-10-13 ON TOP CHORD, AND 333.4 lbs FACTORED DOWN AT 9-9-4 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
12	1572	0	1572	0
7	1267	0	1267	0

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX/MIN. SNOW	MAX/MIN. LIVE	MAX/MIN. PERM. LIVE	MAX/MIN. WIND	MAX/MIN. DEAD	MAX/MIN. SOIL
12	1102	776 / 0	0 / 0	0 / 0	0 / 0	326 / 0	0 / 0
7	888	625 / 0	0 / 0	0 / 0	0 / 0	263 / 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 = 6.13 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.

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED LC1 (LC)	
FR-TO		FROM	TO	FR-TO		FROM	TO
1-2	0 / 36	-77.3	-77.3 0.06 (1)	10-00	11-3	-46 / 135	0.05 (4)
2-3	-1488 / 0	-77.3	-77.3 0.19 (1)	6.13	3-10	0 / 336	0.08 (1)
3-13	-1374 / 0	-139.4	-139.4 0.26 (1)	6.21	10-4	-640 / 0	0.29 (1)
13-4	-1374 / 0	-77.3	-77.3 0.26 (1)	6.21	10-5	0 / 1161	0.29 (1)
4-5	-1374 / 0	-77.3	-77.3 0.24 (1)	6.24	8-5	-591 / 0	0.26 (1)
5-6	-746 / 0	-77.3	-77.3 0.05 (1)	6.25	2-11	0 / 1167	0.29 (1)
12-2	-1511 / 0	0.0	0.0 0.17 (1)	6.64	8-6	0 / 888	0.22 (1)
7-6	-1260 / 0	0.0	0.0 0.24 (1)	7.13			
12-11	0 / 0	-31.5	-31.5 0.11 (4)	10.00			
11-14	0 / 1138	-31.5	-31.5 0.22 (1)	10.00			
14-10	0 / 1138	-18.5	-18.5 0.22 (1)	10.00			
10-9	0 / 558	-18.5	-18.5 0.11 (1)	10.00			
9-8	0 / 558	-18.5	-18.5 0.11 (1)	10.00			
8-7	0 / 0	-18.5	-18.5 0.03 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
3	4-10-13	-263	-263	---	FRONT	VERT	TOTAL
14	9-9-4	-333	-333	---	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 2.00/12 MINIMUM

GIRDER TYPE: CStdGirder
START DISTANCE = 9-9-4
START SPAN CARRIED = 2-6-0
END DISTANCE = 17-9-0
END SPAN CARRIED = 2-6-0
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDT'L LOADS BASED ON 55 % OF GSL.

GIRDER TYPE: CPrimeHip
LEFT SETBACK = 4-10-13
RIGHT SETBACK = 2-6-0
END SETBACK = 5-8-0
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 9-9-4 OF SPAN MEASURED FROM THE LEFT.

*** 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, NBC 2010

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.59")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.59")
CALCULATED VERT. DEFL.(TL) = L/999 (0.06")

CSI: TC=0.26 (3-4:1), BC=0.22 (10-11:1), WB=0.29 (2-11:1), SSI=0.27 (3-4:1)

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

COMPANION LIV

TRUSS PLATE M RESPONSIBLE P TRUSS MANUFA

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.



NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (6) (INPUT = 0.90)

JSI METAL= 0.43 (11) (INPUT = 1.00)

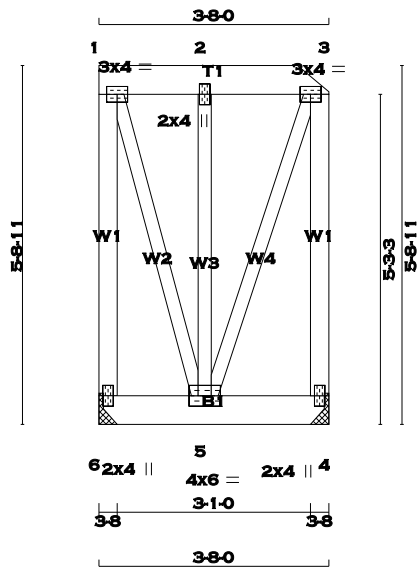
READ ALL NOTES ON THIS PAGE AND ON THE
ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE
IS AN INTEGRAL PART OF THIS DRAWING AS IT
CONTAINS SPECIFICATIONS AND CRITERIA USED
IN THE DESIGN OF THIS COMPONENT.



21 MAR 2017



RECEIVED
TOWN OF MILTON
MAR 29, 2017
JUNIPER 2
BUILDING DIVISION



SCALE = 1:36.7

TOTAL WEIGHT = 36 lb

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

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMW-t	MT20	3.0	4.0		
2	TMW+w	MT20	2.0	4.0		
3	TMW-t	MT20	3.0	4.0		
4	BMV1+p	MT20	2.0	4.0		
5	BMVWW-t	MT20	4.0	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		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
6	178	0	178	0	0			HANGER BY OTHERS	
4	178	0	178	0	0			MIN. SEAT SIZE: 3-8	

UNFACTORED REACTIONS

JT	1ST LCASE	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
6	125	87 / 0	0 / 0	0 / 0	0 / 0	0 / 0	37 / 0	0 / 0
4	125	87 / 0	0 / 0	0 / 0	0 / 0	0 / 0	37 / 0	0 / 0

BRACING

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

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

LOADING

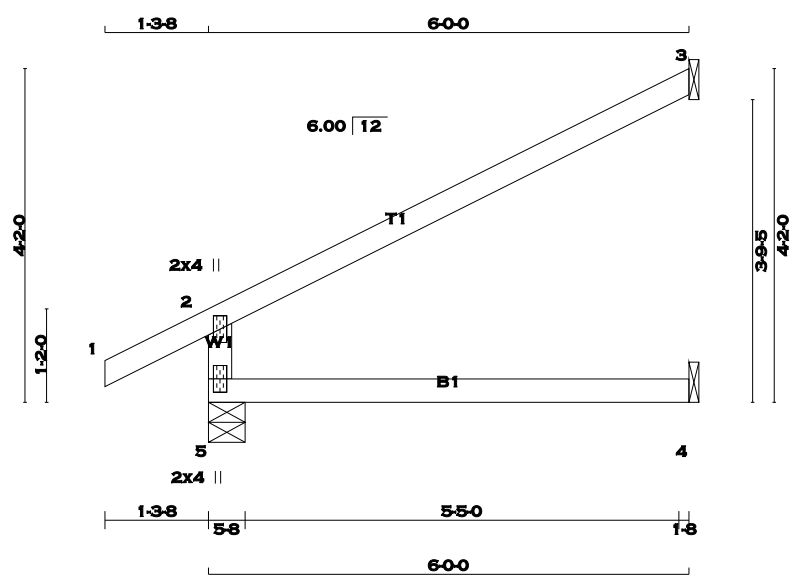
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX UNBRACED LENGTH	FACTORED MAX CSI (LC)
FR-TO		FROM TO		FR-TO			
6-1	-146 / 0	0.0	0.0 0.08 (1)	1-5	0 / 80	7.81	0.02 (1)
1-2	-24 / 0	-77.3	-77.3 0.02 (1)	5-2	-134 / 0	6.25	0.06 (1)
2-3	-24 / 0	-77.3	-77.3 0.03 (1)	5-3	0 / 69	6.25	0.02 (1)
4-3	-145 / 0	0.0	0.0 0.08 (1)			7.81	
6-5	0 / 0	-19.5	-19.5 0.02 (1)			10.00	
5-4	0 / 0	-19.5	-19.5 0.02 (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.



RECEIVED
TOWN OF MILTON
MAR 29, 2017
JUNIPER 2
BUILDING DIVISION



SCALE = 1:28.8

TOTAL WEIGHT = 22 X 17 = 376 lb [M]

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

DRY: SEASONED LUMBER.

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

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

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG		
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
5	457	0	457	0	0	5-8	5-8		
3	174	0	174	0	0	1-8	1-8		
4	43	0	49	0	0	1-8	1-8		

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

UNFACTORED REACTIONS							
JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	318	238 / 0	0 / 0	0 / 0	0 / 0	80 / 0	0 / 0
3	118	105 / 0	0 / 0	0 / 0	0 / 0	14 / 0	0 / 0
4	35	0 / 0	0 / 0	0 / 0	0 / 0	35 / 0	0 / 0

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

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

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

LOADING					TOTAL LOAD CASES: (4)				
CHORDS			WEBS						
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRAC	MEMB. FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. UNBRAC	MEMB. FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO			LENGTH	FR-TO			
5-2	-395 / 0	0.0	0.0	0.13 (4)	7.81				
1-2	0 / 23	-77.3	-77.3	0.10 (1)	10.00				
2-3	-26 / 0	-77.3	-77.3	0.47 (1)	6.25				
5-4	0 / 0	-17.5	-17.5	0.13 (4)	10.00				

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

CSI: TC=0.47 (2-3:1) , BC=0.13 (4-5:4) , WB=0.00 (n/a:0) , SSI=0.20 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

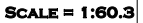
PLATE ROTATION TOL. = 5.0 Deg.

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

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



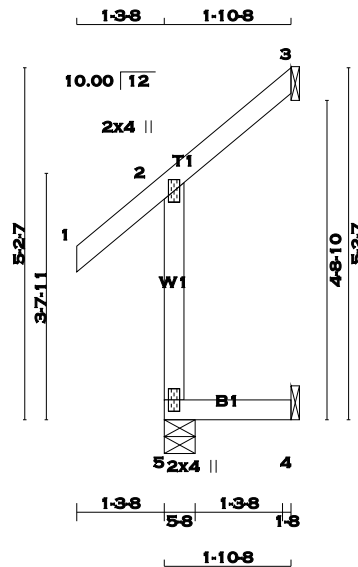
RECEIVED
TOWN OF MILTON
MAR 29, 2017
JUNIPER 2
BUILDING DIVISION



[M]



JSI GRIP= 0.33 (2) (INPUT = 0.90)
JSI METAL= 0.08 (2) (INPUT = 1.00)



SCALE = 1:34.1

TOTAL WEIGHT = 2 X 11 = 22 lb

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

DRY: SEASONED LUMBER.

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

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX
5	236	0	236	0	0	5-8
3	37	0	37	0	-27	1-8
4	12	0	17	0	0	1-8

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

PROVIDE ANCHORAGE AT BEARING JOINT 3 FOR 150 LBS FACTORED UPLIFT

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	162	132 / 0	0 / 0	0 / 0	0 / 0	30 / 0	0 / 0
3	26	22 / -20	0 / 0	0 / 0	0 / 0	3 / 0	0 / 0
4	10	0 / -4	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 = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY
APPLIED.

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM	TO		FR-TO		
5-2	-215 / 0	0.0	0.0	0.02 (5)	7.81		
1-2	0 / 34	-77.3	-77.3	0.11 (1)	10.00		
2-3	-22 / 0	-77.3	-77.3	0.09 (1)	6.25		
5-4	0 / 0	-17.5	-17.5	0.02 (5)	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=0.11 (1-2:1) , BC=0.02 (4-5:5) , WB=0.00 (n/a:0) , 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

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

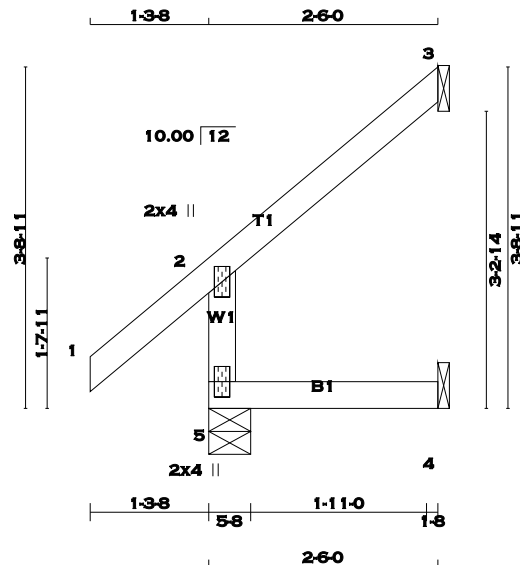
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.15 (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.**



RECEIVED
TOWN OF MILTON
MAR 29, 2017
JUNIPER 2
BUILDING DIVISION



SCALE = 1:25.1

TOTAL WEIGHT = 3 X 10 = 30 lb [M]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
5	252	0	252	0	0	5-8	5-8	
3	73	0	73	0	0	1-8	1-8	
4	20	0	22	0	0	1-8	1-8	

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

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
5	174	137 / 0	0 / 0	0 / 0	0 / 0	37 / 0	0 / 0
3	50	44 / 0	0 / 0	0 / 0	0 / 0	6 / 0	0 / 0
4	16	0 / 0	0 / 0	0 / 0	0 / 0	16 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO			FR-TO		
5-2	-228 / 0	0.0	0.0	0.01 (4)	7.81		
1-2	0 / 34	-77.3	-77.3	0.11 (1)	10.00		
2-3	-15 / 0	-77.3	-77.3	0.08 (1)	6.25		
5-4	0 / 0	-17.5	-17.5	0.03 (4)	10.00		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

CSI: TC=0.11 (1-2:1), BC=0.03 (4-5:4), WB=0.00 (n/a:0), SSI=0.07 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

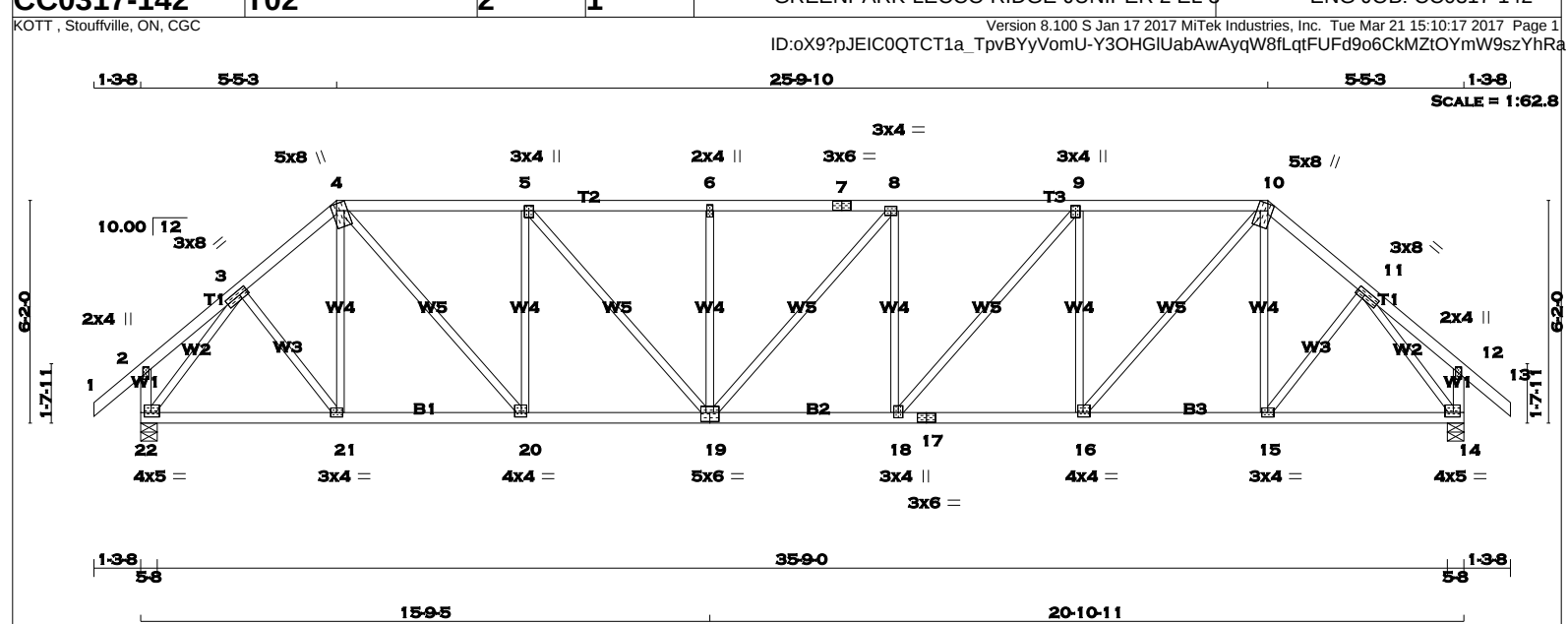
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.16 (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.



RECEIVED
TOWN OF MILTON
MAR 29, 2017
JUNIPER 2
BUILDING DIVISION

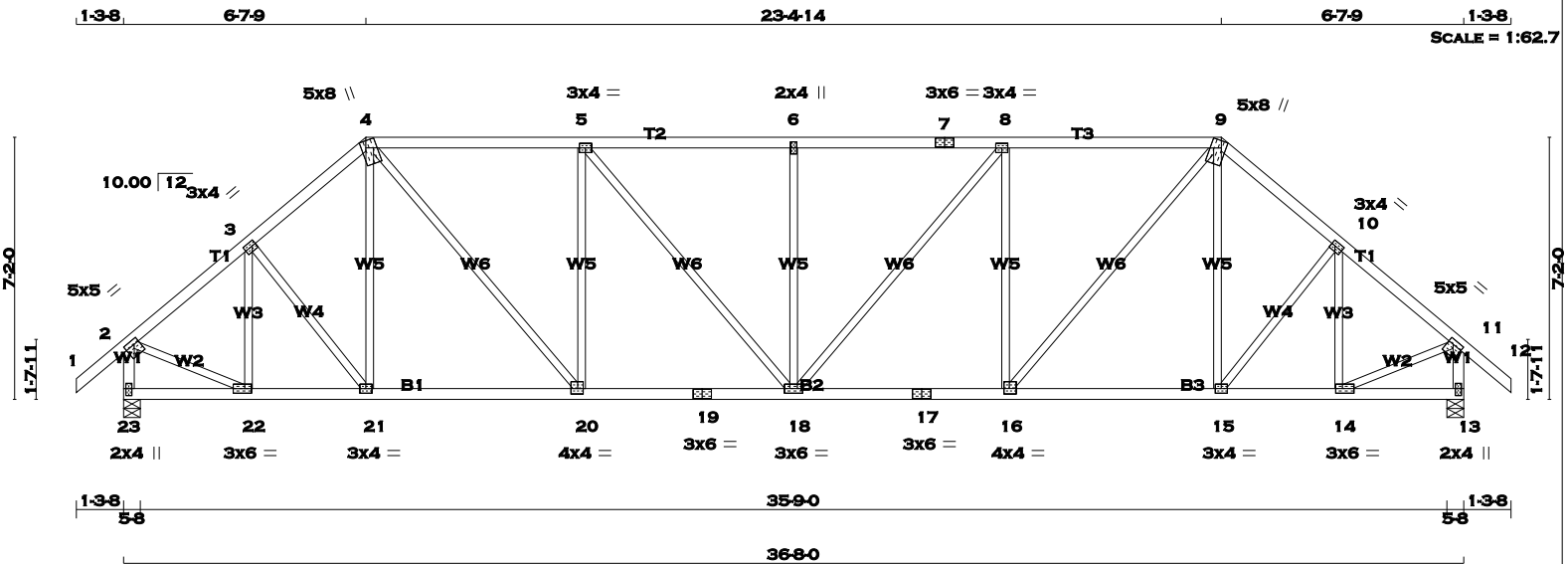


LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. 1 - 4 2x4 DRY No.2 SPF 4 - 7 2x4 DRY No.2 SPF 7 - 10 2x4 DRY No.2 SPF 10 - 13 2x4 DRY No.2 SPF 22 - 2 2x4 DRY No.2 SPF 14 - 12 2x4 DRY No.2 SPF 22 - 19 2x4 DRY No.2 SPF 19 - 17 2x4 DRY No.2 SPF 17 - 14 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT DRY: SEASONED LUMBER.				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED MAXIMUM FACTORED INPUT REQRD GROSS REACTION GROSS REACTION BRG BRG JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX 22 1846 0 1846 0 0 5-8 5-8 14 1846 0 1846 0 0 5-8 5-8 UNFACTORED REACTIONS 1ST LCASE MAX/MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 22 1293 918 / 0 0 / 0 0 / 0 375 / 0 0 / 0 14 1293 918 / 0 0 / 0 0 / 0 375 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 22, 14 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.83 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. LOADING TOTAL LOAD CASES: (4) CHORDS WEBS MAX. FACTORED MAX. FACTORED MAX. FACTORED MEMB. FORCE VERT. LOAD LC1 MAX. MAX. MEMB. FORCE MAX. (LBS) (PLF) CSI (LC) UNBRAC LENGTH FR-TO (LBS) CSI (LC) FR-TO FROM TO 1-2 0 / 34 -77.3 -77.3 0.11 (1) 10.00 3-21 0 / 255 0.06 (1) 2-3 0 / 11 -77.3 -77.3 0.07 (1) 10.00 21-4 -94 / 35 0.06 (1) 3-4 -1822 / 0 -77.3 -77.3 0.11 (1) 4.88 4-20 0 / 1342 0.30 (1) 4-5 -2277 / 0 -77.3 -77.3 0.41 (1) 4.15 20-5 -915 / 0 0.55 (1) 5-6 -2690 / 0 -77.3 -77.3 0.44 (1) 3.83 5-19 0 / 627 0.14 (1) 6-7 -2690 / 0 -77.3 -77.3 0.36 (1) 3.94 19-6 -383 / 0 0.23 (1) 7-8 -2690 / 0 -77.3 -77.3 0.36 (1) 3.94 19-8 -2 / 0 0.00 (1) 8-9 -2691 / 0 -77.3 -77.3 0.44 (1) 3.83 18-8 -384 / 0 0.23 (1) 9-10 -2277 / 0 -77.3 -77.3 0.41 (1) 4.15 18-9 0 / 630 0.14 (1) 10-11 -1822 / 0 -77.3 -77.3 0.11 (1) 4.88 16-9 -916 / 0 0.55 (1) 11-12 0 / 11 -77.3 -77.3 0.07 (1) 10.00 16-10 0 / 1341 0.30 (1) 12-13 0 / 34 -77.3 -77.3 0.11 (1) 10.00 15-10 -94 / 35 0.06 (1) 22-2 -196 / 0 0.0 0.0 0.02 (1) 7.81 15-11 0 / 255 0.06 (1) 14-12 -196 / 0 0.0 0.0 0.02 (1) 7.81 22-3 -2026 / 0 0.65 (1) 22-21 0 / 1229 -17.5 -17.5 0.27 (1) 10.00 21-20 0 / 1384 -17.5 -17.5 0.29 (1) 10.00 20-19 0 / 2277 -17.5 -17.5 0.41 (1) 10.00 19-18 0 / 2691 -17.5 -17.5 0.47 (1) 10.00 18-17 0 / 2277 -17.5 -17.5 0.41 (1) 10.00 17-16 0 / 2277 -17.5 -17.5 0.41 (1) 10.00 16-15 0 / 1384 -17.5 -17.5 0.29 (1) 10.00 15-14 0 / 1229 -17.5 -17.5 0.27 (1) 10.00				DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.0 PSF TOTAL LOAD = 33.3 PSF SPACING = 24.0 IN. C/C LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012, BCBC 2012, ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (1.22") CALCULATED VERT. DEFL.(LL) = L/999 (0.16") ALLOWABLE DEFL.(TL)= L/360 (1.22") CALCULATED VERT. DEFL.(TL) = L/999 (0.28") CSI: TC=0.44 (5-6:1), BC=0.47 (18-19:1), WB=0.65 (11-14:1), SSI=0.19 (4-5:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10 COMPANION LIVE LOAD FACTOR = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 822 2284 1656 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.90 (20) (INPUT = 0.90) JSI METAL= 0.57 (17) (INPUT = 1.00)			
---	--	--	--	---	--	--	--	---	--	--	--

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



RECEIVED
TOWN OF MILTON
MAR 29, 2017
JUNIPER 2
BUILDING DIVISION



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

1 - 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 - 17	2x4	DRY	No.2	SPF
17 - 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	5.0	5.0	1.50	1.75
3	TMVW-t	MT20	3.0	4.0	1.50	1.25
4	TTWW+m	MT20	5.0	8.0	2.25	1.50
5	TMVW-t	MT20	3.0	4.0		
6	TMVW-t	MT20	2.0	4.0		
7	TS-t	MT20	3.0	6.0		
8	TMVW-t	MT20	3.0	4.0		
9	TTWW+m	MT20	5.0	8.0	2.25	1.50
10	TMVW-t	MT20	3.0	4.0	1.50	1.25
11	TMVW-t	MT20	5.0	5.0	1.50	1.75
13	BMV1+p	MT20	2.0	4.0	2.25	1.00
14	BMVW-t	MT20	3.0	6.0	1.50	2.25
15	BMVW-t	MT20	3.0	4.0		
16	BMVW-t	MT20	4.0	4.0	1.75	1.75
17	BS-t	MT20	3.0	6.0		
18	BMVW-t	MT20	3.0	6.0		
19	BS-t	MT20	3.0	6.0		
20	BMVW-t	MT20	4.0	4.0	1.75	1.75
21	BMVW-t	MT20	3.0	4.0		
22	BMVW-t	MT20	3.0	6.0	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

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	UPLIFT
23	1846	0	1846	0
13	1846	0	1846	0

UNFACTORED REACTIONS

	1ST LCASE COMBINED	MAX. SNOW	MIN. LIVE	COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
JT	23	1293	918 / 0	0 / 0	0 / 0	0 / 0	375 / 0	0 / 0
13	1293	918 / 0	0 / 0	0 / 0	0 / 0	0 / 0	375 / 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 = 3.94 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
 TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX UNBRACED LENGTH (FT)	FACTORED MAX (LC)
FR-TO		FROM	TO	FR-TO			
1-2	0 / 34	-77.3	-77.3 0.11 (1)	10.00	22-3	-456 / 0	0.14 (1)
2-3	-1702 / 0	-77.3	-77.3 0.17 (1)	4.94	3-21	0 / 103	0.02 (1)
3-4	-1827 / 0	-77.3	-77.3 0.18 (1)	4.80	21-4	0 / 64	0.02 (4)
4-5	-2133 / 0	-77.3	-77.3 0.52 (1)	4.13	4-20	0 / 1147	0.26 (1)
5-6	-2349 / 0	-77.3	-77.3 0.54 (1)	3.94	20-5	-764 / 0	0.68 (1)
6-7	-2349 / 0	-77.3	-77.3 0.54 (1)	3.94	5-18	0 / 334	0.08 (1)
7-8	-2349 / 0	-77.3	-77.3 0.54 (1)	3.94	18-6	-413 / 0	0.37 (1)
8-9	-2133 / 0	-77.3	-77.3 0.52 (1)	4.13	18-8	0 / 334	0.08 (1)
9-10	-1827 / 0	-77.3	-77.3 0.18 (1)	4.80	16-8	-764 / 0	0.68 (1)
10-11	-1702 / 0	-77.3	-77.3 0.17 (1)	4.94	16-9	0 / 1147	0.26 (1)
11-12	0 / 34	-77.3	-77.3 0.11 (1)	10.00	15-9	0 / 64	0.02 (4)
23-2	-1816 / 0	0.0	0.0 0.19 (1)	6.21	15-10	0 / 103	0.02 (1)
13-11	-1816 / 0	0.0	0.0 0.19 (1)	6.21	14-10	-456 / 0	0.14 (1)
					2-22	0 / 1413	0.32 (1)
23-22	0 / 0	-17.5	-17.5 0.05 (4)	10.00	14-11	0 / 1413	0.32 (1)
22-21	0 / 1321	-17.5	-17.5 0.27 (1)	10.00			
21-20	0 / 1385	-17.5	-17.5 0.29 (1)	10.00			
20-19	0 / 2133	-17.5	-17.5 0.41 (1)	10.00			
19-18	0 / 2133	-17.5	-17.5 0.41 (1)	10.00			
18-17	0 / 2133	-17.5	-17.5 0.41 (1)	10.00			
17-16	0 / 2133	-17.5	-17.5 0.41 (1)	10.00			
16-15	0 / 1385	-17.5	-17.5 0.29 (1)	10.00			
15-14	0 / 1321	-17.5	-17.5 0.27 (1)	10.00			
14-13	0 / 0	-17.5	-17.5 0.05 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.22")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.13")
 ALLOWABLE DEFL.(TL)= L/360 (1.22")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.22")

CSI: TC=0.54 (5-6:1), BC=0.41 (16-18:1), WB=0.68 (5-20:1), 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) SHEAR SECTION (PSI) (PLI) (PLI)
 MAX MIN MAX MIN MAX MIN
 MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

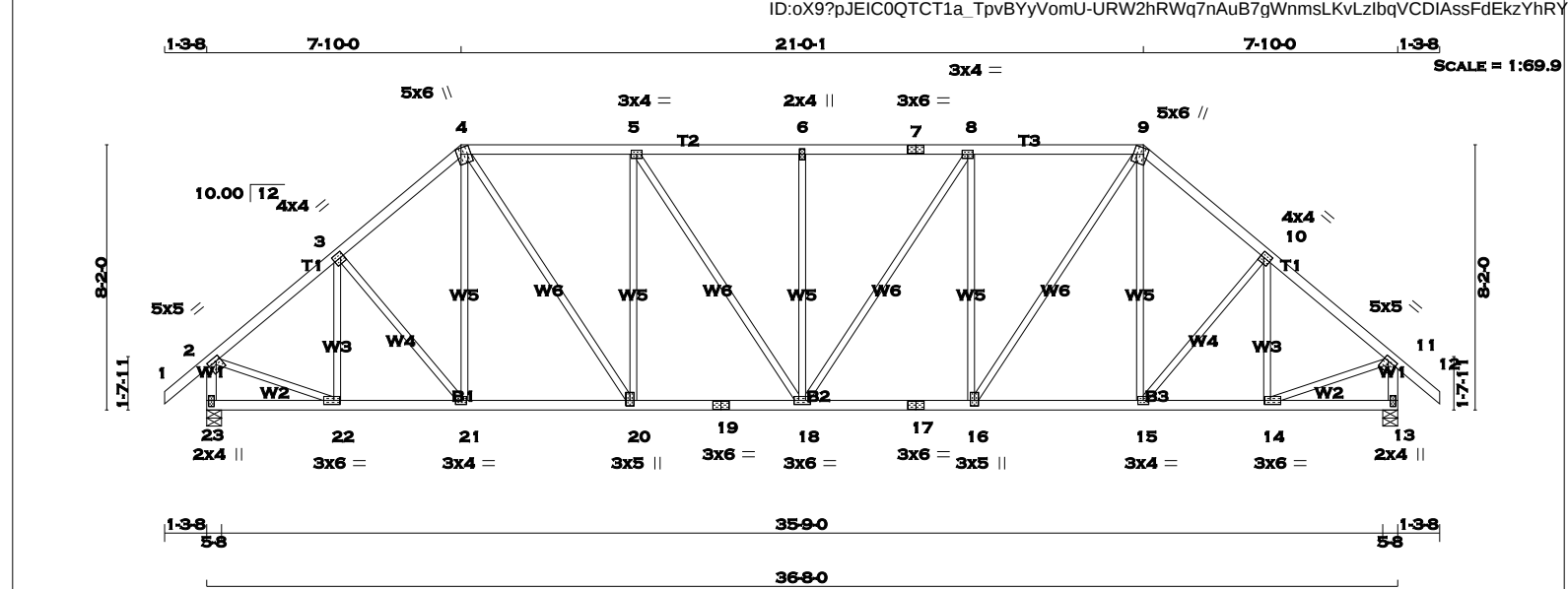
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (10) (INPUT = 0.90)
 JSI METAL= 0.60 (19) (INPUT = 1.00)

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



RECEIVED
 TOWN OF MILTON
 MAR 29, 2017
 JUNIPER 2
 BUILDING DIVISION



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

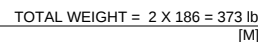
DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER
BEARINGS
FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT REQRD
JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX
23 1846 0 1846 0 0 5-8 5-8
13 1846 0 1846 0 0 5-8 5-8
UNFACTORED REACTIONS
1ST LCASE MAX/MIN. COMPONENT REACTIONS
JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL
23 1293 918 / 0 0 / 0 0 / 0 375 / 0 0 / 0
13 1293 918 / 0 0 / 0 0 / 0 375 / 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 = 4.33 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.

DESIGN CRITERIA
SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 33.3 PSF
SPACING = 24.0 IN. C/C
LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010
THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011
(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD
ALLOWABLE DEFL.(LL)= L/360 (1.22")
CALCULATED VERT. DEFL.(LL) = L/999 (0.11")
ALLOWABLE DEFL.(TL)= L/360 (1.22")
CALCULATED VERT. DEFL.(TL) = L/999 (0.19")
CSI: TC=0.40 (5-6:1), BC=0.36 (18-20:1), WB=0.89 (8-16:1), SSI=0.19 (8-9:1)
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10
COMPANION LIVE LOAD FACTOR = 0.50
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656
PLATE PLACEMENT TOL. = 0.250 inches
PLATE ROTATION TOL. = 5.0 Deg.
JSI GRIP= 0.89 (14) (INPUT = 0.90)
JSI METAL= 0.58 (11) (INPUT = 1.00)

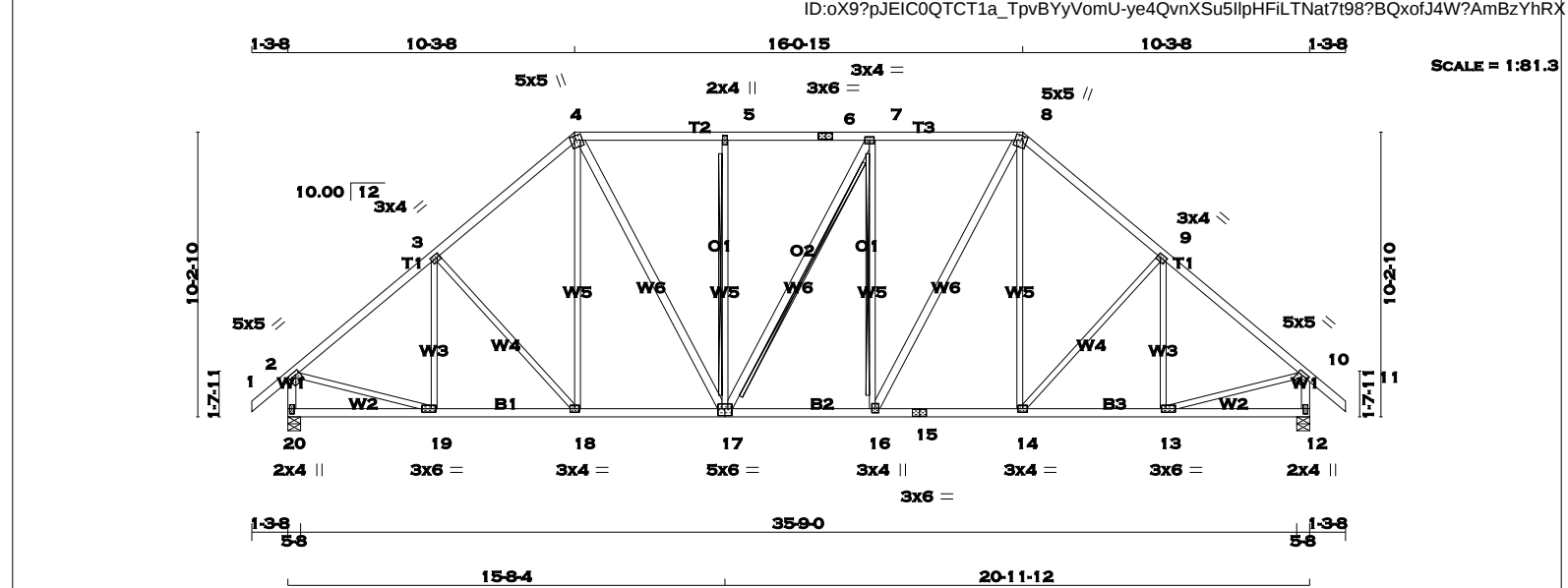
PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
2	TMVW-t	MT20	5.0	5.0 1.50 1.75
3	TMWW-t	MT20	4.0	4.0 2.00 1.25
4	TTWW+m	MT20	5.0	6.0 2.25 1.50
5	TMWW-t	MT20	3.0	4.0
6	TMW+w	MT20	2.0	4.0
7	TS-t	MT20	3.0	6.0
8	TMWW-t	MT20	3.0	4.0
9	TTWW+m	MT20	5.0	6.0 2.25 1.50
10	TMWW-t	MT20	4.0	4.0 2.00 1.25
11	TMVW-t	MT20	5.0	5.0 1.50 1.75
13	BMV1+p	MT20	2.0	4.0 2.25 1.00
14	BMWW-t	MT20	3.0	6.0 1.50 2.25
15	BMWW-t	MT20	3.0	4.0
16	BMWW+t	MT20	3.0	5.0 2.00 1.50
17	BS-t	MT20	3.0	6.0
18	BMWWW-t	MT20	3.0	6.0
19	BS-t	MT20	3.0	6.0
20	BMWW+t	MT20	3.0	5.0 2.00 1.50
21	BMWW-t	MT20	3.0	4.0
22	BMWW-t	MT20	3.0	6.0 1.50 2.25
23	BMV1+p	MT20	2.0	4.0 2.25 1.00

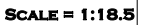
READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

RECEIVED
TOWN OF MILTON
MAR 29, 2017
JUNIPER 2
BUILDING DIVISION



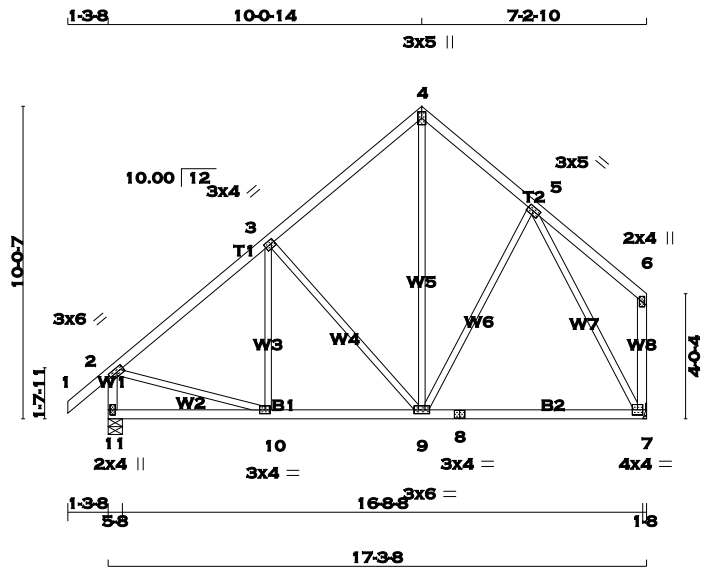
RECEIVED
TOWN OF MILTON
MAR 29, 2017
JUNIPER 2
BUILDING DIVISION





[M]

RECEIVED
TOWN OF MILTON
MAR 29, 2017
JUNIPER 2
BUILDING DIVISION



LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
1 - 4	2x4	DRY	No.2		SPF
4 - 6	2x4	DRY	No.2		SPF
11 - 2	2x4	DRY	No.2		SPF
7 - 6	2x4	DRY	No.2		SPF
11 - 8	2x4	DRY	No.2		SPF
8 - 7	2x4	DRY	No.2		SPF

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)							
JT	TYPE	PLATES	W	LEN	Y	X	
2	TMVW-t	MT20	3.0	6.0	1.50	2.75	
3	TMVW-t	MT20	3.0	4.0	1.50	1.25	
4	TTW+p	MT20	3.0	5.0			
5	TMVW-t	MT20	3.0	5.0			
6	TMV+p	MT20	2.0	4.0			
7	BMVW1-t	MT20	4.0	4.0			
8	BS-t	MT20	3.0	4.0			
9	BMVW-t	MT20	3.0	6.0			
10	BMVW-t	MT20	3.0	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		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	GROSS REACTION	DOWN	HORZ	DOWN	HORZ	IN-SX	IN-SX	BRG	BRG
11	927	0	927	0	0	5-8	5-8		
7	820	0	820	0	0	HANGER BY OTHERS		MIN. SEAT SIZE: 1-8	

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS						
11	648	467 / 0	0 / 0	0 / 0	0 / 0	181 / 0	0 / 0		
7	576	403 / 0	0 / 0	0 / 0	0 / 0	173 / 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 = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 34	-77.3 -77.3	0.11 (1)	10-10	-63 / 53	0.03 (1)	
2-3	-723 / 0	-77.3 -77.3	0.26 (1)	6-25	3-9 -324 / 0	0.36 (1)	
3-4	-504 / 0	-77.3 -77.3	0.25 (1)	6-25	9-4 0 / 358	0.08 (1)	
4-5	-494 / 0	-77.3 -77.3	0.12 (1)	6-25	9-5 0 / 45	0.02 (4)	
5-6	0 / 20	-77.3 -77.3	0.16 (1)	10-10	2-10 0 / 596	0.13 (1)	
11-2	-888 / 0	0.0 0.0	0.09 (1)	7-81	5-7 -749 / 0	0.84 (1)	
7-6	-109 / 0	0.0 0.0	0.03 (1)	7-81			
11-10	0 / 0	-17.5 -17.5	0.10 (4)	10-10			
10-9	0 / 578	-17.5 -17.5	0.23 (4)	10-10			
9-8	0 / 357	-17.5 -17.5	0.21 (4)	10-10			
8-7	0 / 357	-17.5 -17.5	0.21 (4)	10-10			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.58")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.58")
CALCULATED VERT. DEFL.(TL) = L/999 (0.08")

CSI: TC=0.26 (2-3:1) , BC=0.23 (9-10:4) , WB=0.84 (5-7:1) , SSI=0.15 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

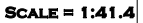
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (10) (INPUT = 0.90)
JSI METAL= 0.23 (2) (INPUT = 1.00)

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

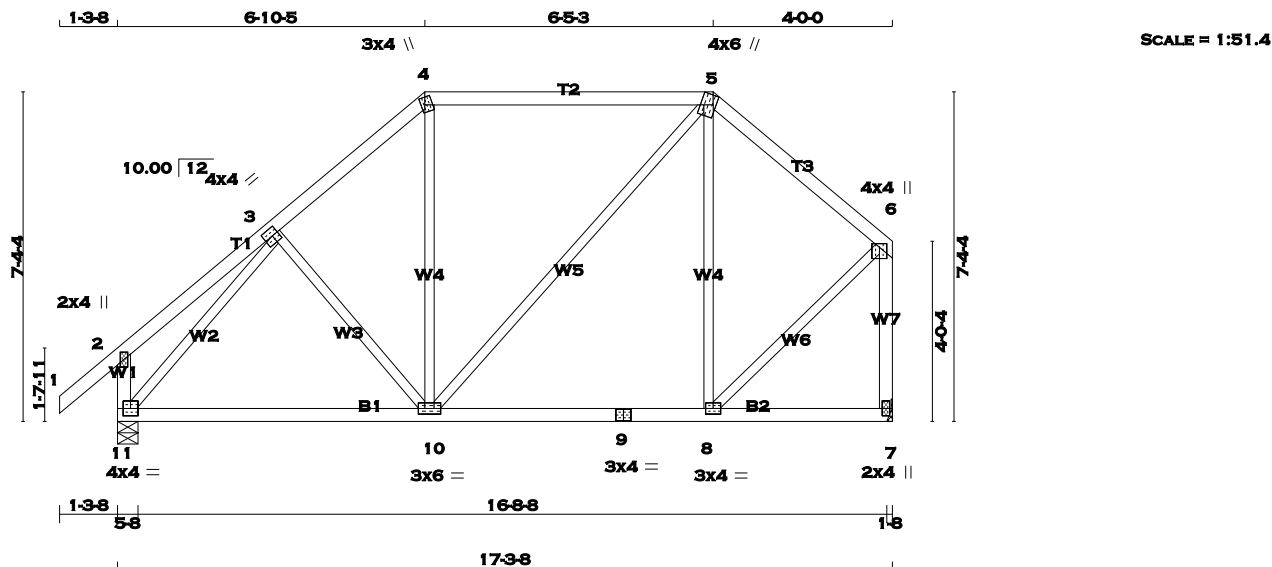


RECEIVED
TOWN OF MILTON
MAR 29, 2017
JUNIPER 2
BUILDING DIVISION



TOTAL WEIGHT = 47 lb

RECEIVED
TOWN OF MILTON
MAR 29, 2017
JUNIPER 2
BUILDING DIVISION



TOTAL WEIGHT = 82 lb

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
11- 2	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
11- 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	TMV+p	MT20	2.0	4.0	
3	TMWW-t	MT20	4.0	4.0	2.00 1.75
4	TTW+m	MT20	3.0	4.0	2.00 1.00
5	TTWW+m	MT20	4.0	6.0	2.50 0.75
6	TMVW+p	MT20	4.0	4.0	1.00 2.00
7	BMV1+p	MT20	2.0	4.0	
8	BMWW-t	MT20	3.0	4.0	
9	BS-t	MT20	3.0	4.0	
10	BMWWW-t	MT20	3.0	6.0	
11	BMVW1-t	MT20	4.0	4.0	

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

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

BEARINGS				FACTORED				MAXIMUM FACTORED				INPUT				REQRD			
				GROSS REACTION				GROSS REACTION				BRG				BRG			
JT	VERT	HORZ	DOWN	VERT	HORZ	DOWN	UPLIFT	JT	VERT	HORZ	DOWN	IN-SX	IN-SX	IN-SX	IN-SX	JT	VERT	HORZ	DOWN
11	927	0	0	927	0	0	0	5-8	927	0	0	5-8	5-8	5-8	5-8	5-8	927	0	0
7	820	0	0	820	0	0	0	HANGER BY OTHERS	820	0	0						820	0	0
								MIN. SEAT SIZE: 1-8											

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS																	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	JT	COMBINED	SNOW	LIVE
11	648	467 / 0	0 / 0	0 / 0	0 / 0	181 / 0	0 / 0	11	648	467 / 0	0 / 0	0 / 0	0 / 0	181 / 0	0 / 0	11	648	467 / 0	0 / 0
7	576	403 / 0	0 / 0	0 / 0	0 / 0	173 / 0	0 / 0	7	576	403 / 0	0 / 0	0 / 0	0 / 0	173 / 0	0 / 0	7	576	403 / 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 = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC)	
FR-TO		FROM	TO	FR-TO		FROM	TO
1-2	0 / 34	-77.3	-77.3 0.11 (1)	3-10	-90 / 16	0.05 (1)	
2-3	0 / 19	-77.3	-77.3 0.14 (1)	10-4	0 / 91	0.03 (4)	
3-4	-661 / 0	-77.3	-77.3 0.11 (1)	6-25	0 / 191	0.04 (1)	
4-5	-492 / 0	-77.3	-77.3 0.41 (1)	6-25	-237 / 2	0.23 (1)	
5-6	-480 / 0	-77.3	-77.3 0.16 (1)	6-25	8-5	-867 / 0	0.40 (1)
11-2	-208 / 0	0.0	0.0 0.02 (1)	7.81	8-6	0 / 494	0.11 (1)
7-6	-794 / 0	0.0	0.0 0.22 (1)	7.81			
11-10	0 / 550	-17.5	-17.5 0.24 (4)	10.00			
10-9	0 / 364	-17.5	-17.5 0.23 (4)	10.00			
9-8	0 / 364	-17.5	-17.5 0.23 (4)	10.00			
8-7	0 / 0	-17.5	-17.5 0.09 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.58")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.58")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.07")

CSI: TC=0.41 (4-5:1), BC=0.24 (10-11:4), WB=0.40 (3-11:1), SSI=0.19 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

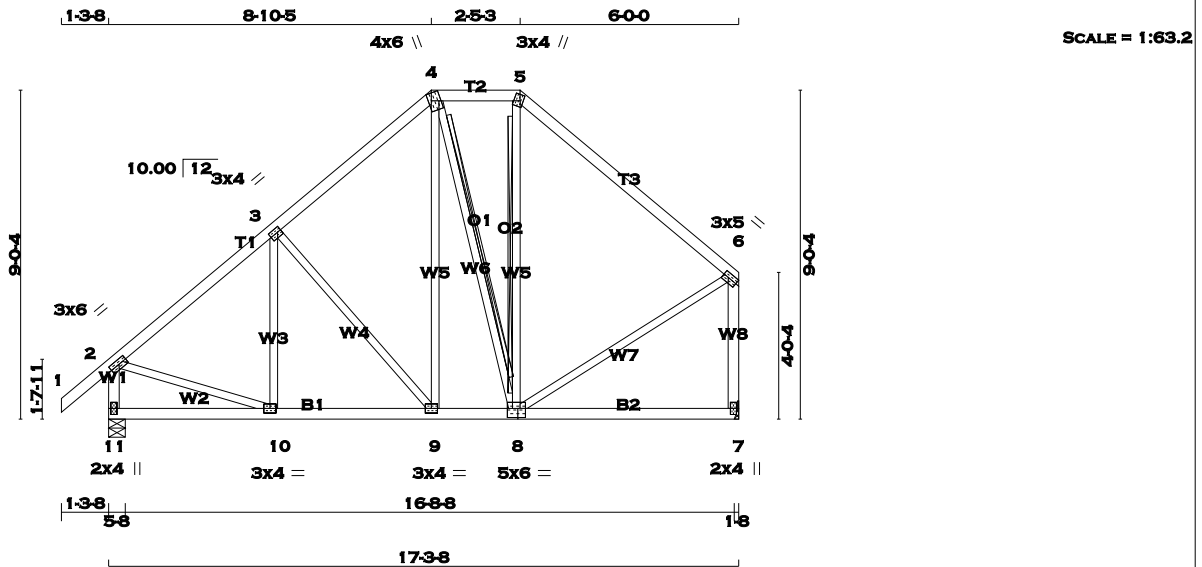
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (10) (INPUT = 0.90)
JSI METAL= 0.32 (3) (INPUT = 1.00)

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



RECEIVED
TOWN OF MILTON
MAR 29, 2017
JUNIPER 2
BUILDING DIVISION



TOTAL WEIGHT = 91 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
11 - 2	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
11 - 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
2	TMVW-t	MT20	3.0	6.0	1.50 2.75
3	TMVW-t	MT20	3.0	4.0	1.50 1.25
4	TTWw+m	MT20	4.0	6.0	Edge 1.00
5	TTWw+m	MT20	3.0	4.0	2.00 1.00
6	TMVW-t	MT20	3.0	5.0	1.50 1.75
7	BMV1+p	MT20	2.0	4.0	
8	BSWWW-l	MT20	5.0	6.0	3.00 2.50
9	BMVW-t	MT20	3.0	4.0	
10	BMVW-t	MT20	3.0	4.0	
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.

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

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

BEARINGS					
FACTORED GROSS REACTION			MAXIMUM FACTORED GROSS REACTION		
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
11	927	0	927	0	0
7	820	0	820	0	0
INPUT BRG IN-SX 5-8 HANGER BY OTHERS MIN. SEAT SIZE: 1-8					
REQRD BRG IN-SX 5-8					

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
11	648	467 / 0	0 / 0	0 / 0	0 / 0	181 / 0	0 / 0
7	576	403 / 0	0 / 0	0 / 0	0 / 0	173 / 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 = 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.

2x4 SPF No.2 T-BRACE AT 4-8
2x3 SPF No.2 T-BRACE AT 5-8

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.		MAX. FACTORED	FACTORED	MEMB.		MAX. FACTORED	FACTORED
		FORCE (LBS)	VERT. LOAD LC1			FORCE (LBS)	MAX
			(PLF)				CSI (LC)
							UNBRAC
							LENGTH
							FR-TO
1-2	0 / 34	-77.3	-77.3	0.11 (1)	10.00	10-3	-74 / 56
2-3	-733 / 0	-77.3	-77.3	0.20 (1)	6.25	3-9	-272 / 0
3-4	-555 / 0	-77.3	-77.3	0.20 (1)	6.25	9-4	0 / 230
4-5	-377 / 0	-77.3	-77.3	0.06 (1)	6.25	4-8	-114 / 0
5-6	-492 / 0	-77.3	-77.3	0.36 (1)	6.25	8-5	-10 / 62
11-2	-895 / 0	0.0	0.0	0.10 (1)	7.81	2-10	0 / 606
7-6	-777 / 0	0.0	0.0	0.21 (1)	7.81	8-6	0 / 441
11-10	0 / 0	-17.5	-17.5	0.09 (4)	10.00		
10-9	0 / 583	-17.5	-17.5	0.14 (1)	10.00		
9-8	0 / 407	-17.5	-17.5	0.17 (4)	10.00		
8-7	0 / 0	-17.5	-17.5	0.14 (4)	10.00		

DESIGN CRITERIA

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

SPACING = 24.0 IN./C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.58")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.58")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.36 (5-6:1), BC=0.17 (8-9:4), WB=0.23 (3-9:1), SSI=0.14 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

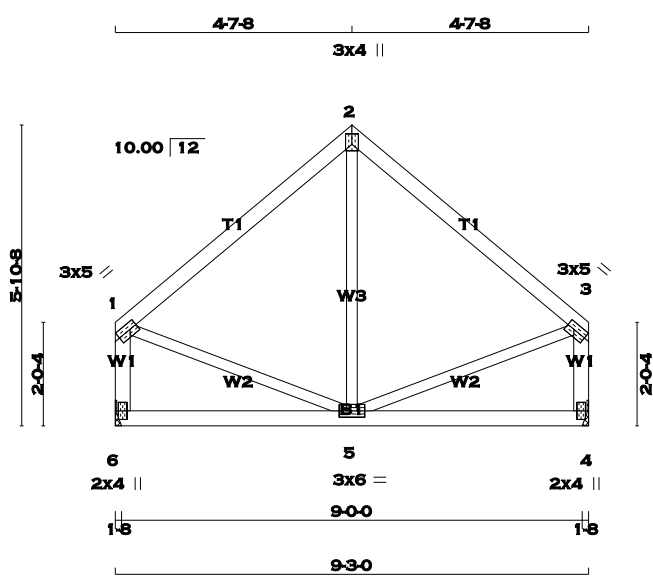
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (10) (INPUT = 0.90)
JSI METAL= 0.23 (2) (INPUT = 1.00)



RECEIVED
TOWN OF MILTON
MAR 29, 2017
JUNIPER 2
BUILDING DIVISION



SCALE = 1:45.0

TOTAL WEIGHT = 40 lb [M][F]

LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
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 2x3 DRY No.2 EXCEPT					SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	3.0	5.0	1.50	1.75
2	TTW+p	MT20	3.0	4.0	2.50	1.50
3	TMVW-t	MT20	3.0	5.0	1.50	1.75
4	BMV1+p	MT20	2.0	4.0		
5	BMVWW-t	MT20	3.0	6.0		
6	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS						INPUT BRG	REQRD BRG
FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		DOWN			
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
6	439	0	439	0	0	HANGER BY OTHERS	MIN. SEAT SIZE: 1-8
4	439	0	439	0	0	HANGER BY OTHERS	MIN. SEAT SIZE: 1-8

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS				
6	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
6	308	215 / 0	0 / 0	0 / 0	0 / 0	93 / 0	0 / 0
4	308	215 / 0	0 / 0	0 / 0	0 / 0	93 / 0	0 / 0

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

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

LOADING						TOTAL LOAD CASES: (4)					
CHORDS			WEBS			MEMB.			MEMB.		
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (PLF)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (PLF)
FR-TO		FROM	TO	FROM	TO	FR-TO		FROM	TO		
1-2	-249 / 0	-77.3	-77.3	0.21 (1)	6.25	5-2	-40 / 67	0.02 (4)	5-2	-40 / 67	0.02 (4)
2-3	-249 / 0	-77.3	-77.3	0.21 (1)	6.25	1-5	0 / 203	0.05 (1)	1-5	0 / 203	0.05 (1)
6-1	-408 / 0	0.0	0.0	0.05 (1)	7.81	5-3	0 / 203	0.05 (1)	5-3	0 / 203	0.05 (1)
4-3	-408 / 0	0.0	0.0	0.05 (1)	7.81						
6-5	0 / 0	-17.5	-17.5	0.11 (4)	10.00						
5-4	0 / 0	-17.5	-17.5	0.11 (4)	10.00						

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.31")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.31")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.21 (2-3:1), BC=0.11 (5-6:4), WB=0.05 (1-5:1), SSI=0.11 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
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= 0.37 (5) (INPUT = 0.90)
JSI METAL= 0.11 (3) (INPUT = 1.00)

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



RECEIVED
TOWN OF MILTON
MAR 29, 2017
JUNIPER 2
BUILDING DIVISION