

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

LOT 38L

NE0818-100
GREENPARK-MINNISALE
HOMES-HEMLOCK 4 EL 1

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")**

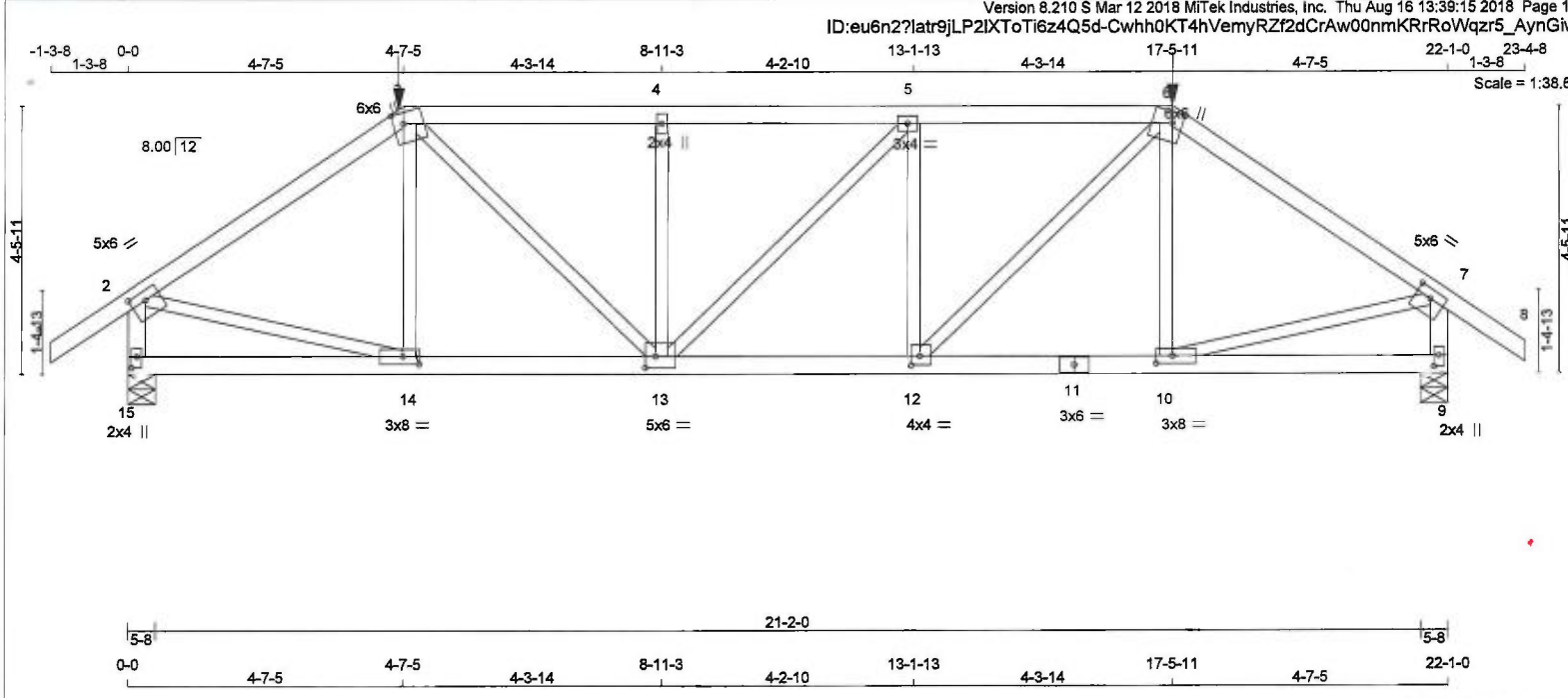
SUPPORTS

- 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.

19-440012-000-00 PR.
01/29/2013



LUMBER
N. L. G. A. RULES
CHORDS SIZE LUMBER DESCR.
1 - 3 2x4 DRY No.2 SPF
2 - 6 2x4 DRY No.2 SPF
6 - 8 2x4 DRY No.2 SPF
15 - 2 2x4 DRY No.2 SPF
9 - 7 2x4 DRY No.2 SPF
15 - 11 2x4 DRY No.2 SPF
11 - 9 2x4 DRY No.2 SPF

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

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

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT VERT	0	DOWN	0	IN-SX
15	2033	0	5-8	5-8
9	2033	0	5-8	5-8

UNFACTORED REACTIONS

	1ST LCASE COMBINED	MAX./MIN. SNOW	MIN. LIVE	MAX. PERM. LIVE	WIND	DEAD	SOIL
15	1425	1004 / 0	0 / 0	0 / 0	0 / 0	421 / 0	0 / 0
9	1425	1004 / 0	0 / 0	0 / 0	0 / 0	421 / 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 = 3.61 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 29	-77.4 -77.4	0.11 (1)	10-0	14-3	-259 / 65	0.08 (1)
2-3	-2255 / 0	-77.4 -77.4	0.45 (1)	4-08	3-13	0 / 1152	0.29 (1)
3-4	-2697 / 0	-145.9 -145.9	0.51 (1)	3-63	13-4	-669 / 0	0.21 (1)
4-5	-2697 / 0	-145.9 -145.9	0.52 (1)	3-62	13-5	-4 / 0	0.00 (1)
5-6	-2700 / 0	-145.9 -145.9	0.52 (1)	3-61	12-5	-670 / 0	0.21 (1)
6-7	-2255 / 0	-77.4 -77.4	0.45 (1)	4-08	12-6	0 / 1157	0.29 (1)
7-8	0 / 29	-77.4 -77.4	0.11 (1)	10-0	10-6	-261 / 65	0.08 (1)
15-2	-1969 / 0	0.0 0.0	0.22 (1)	5-95	2-14	0 / 1922	0.48 (1)
9-7	-1968 / 0	0.0 0.0	0.22 (1)	5-96	10-7	0 / 1922	0.48 (1)
15-14	0 / 0	-33.0 -33.0	0.18 (4)	10-00			
14-13	0 / 1867	-33.0 -33.0	0.43 (1)	10-00			
13-12	0 / 2700	-33.0 -33.0	0.55 (1)	10-00			
12-11	0 / 1867	-33.0 -33.0	0.43 (1)	10-00			
11-10	0 / 1867	-33.0 -33.0	0.43 (1)	10-00			
10-9	0 / 0	-33.0 -33.0	0.18 (4)	10-00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
3	4-7-5	-267	-267	—	FRONT	VERT	TOTAL
6	17-5-11	-267	-267	—	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 = 4-7-5
END SETBACK = 6-0-0
END WALL WIDTH = 5-8
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDTL LOADS BASED ON 55 % OF GSL.

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.74")
CALCULATED VERT. DEFL.(LL)= L/ 999 (0.09")
ALLOWABLE DEFL.(TL)= L/360 (0.74")
CALCULATED VERT. DEFL.(TL)= L/ 999 (0.17")

CSI: TC=0.52/1.00 (5-6:1), BC=0.55/1.00 (12-13:1), WB=0.48/1.00 (2-14:1), SSI=0.32/1.00 (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

CONTINUED ON PAGE 2

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	5.0	6.0	1.75	3.00
3	TTWW+m	MT20	6.0	6.0	2.25	2.00
4	TMW+w	MT20	2.0	4.0		
5	TMWW-t	MT20	3.0	4.0		
6	TTWW+m	MT20	6.0	6.0	2.25	2.00
7	TMVW-t	MT20	5.0	6.0	1.75	3.00
9	BMV1+p	MT20	2.0	4.0	2.25	1.00
10	BMWW-t	MT20	3.0	8.0	1.50	3.25
11	BS-t	MT20	3.0	6.0		
12	BMWW-t	MT20	4.0	4.0	1.75	1.75
13	BMWWW-t	MT20	5.0	6.0	2.25	2.00
14	BMWW-t	MT20	3.0	8.0	1.50	3.25
15	BMV1+p	MT20	2.0	4.0	2.25	1.00

HANGERS NOTES
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 267.4 lbs FACTORED DOWN AT 17-5-11, AND 267.4 lbs FACTORED DOWN AT 4-7-5 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

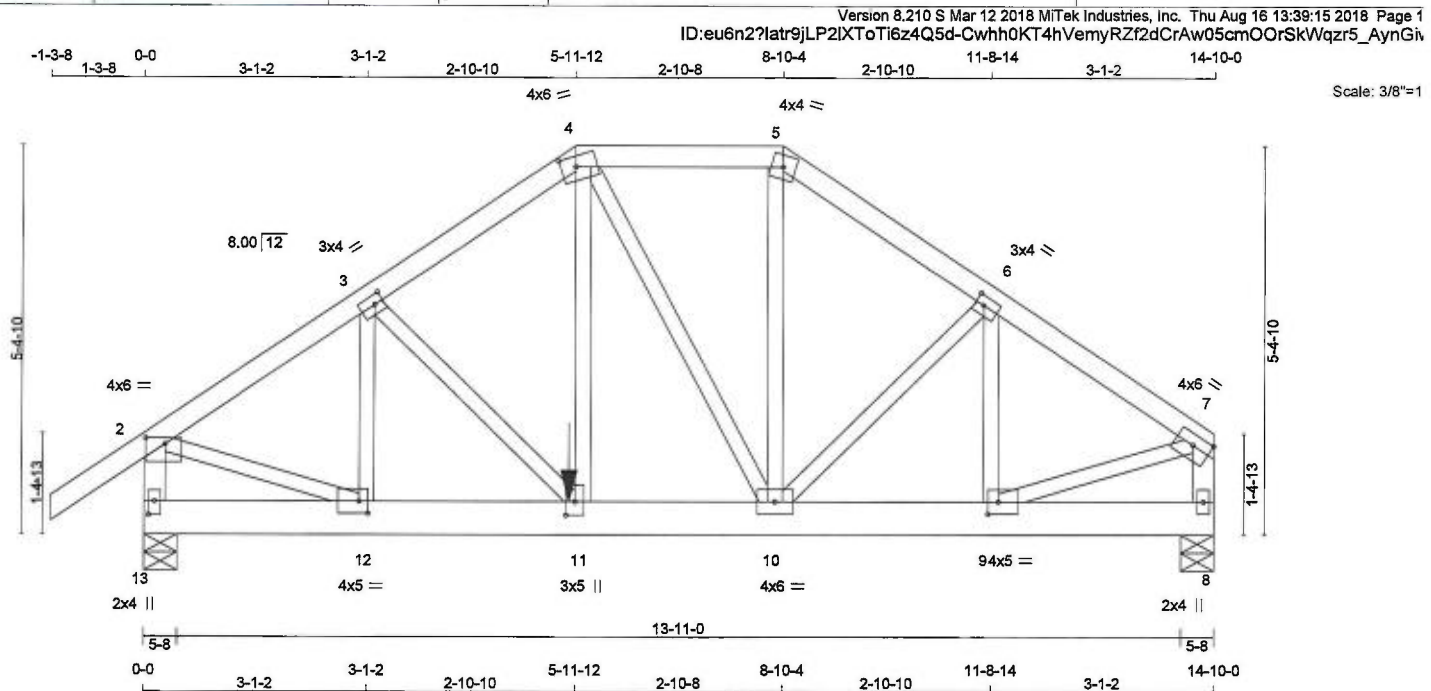
Aug 16, 2018

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

PLATE PLACEMENT TOL. = 0.250 inches
PLATE ROTATION TOL. = 5.0 Deg.
JSI GRIP= 0.89 (14) (INPUT = 0.90)
JSI METAL= 0.60 (2) (INPUT = 1.00)

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TOTAL WEIGHT = 77 lb
[M]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZES	LUMBER		DESCR
1 - 4	2x4	DRY	No.2	SPF
4 - 5	2x4	DRY	No.2	SPF
5 - 7	2x4	DRY	No.2	SPF
13- 2	2x4	DRY	No.2	SPF
8 - 7	2x4	DRY	No.2	SPF
13- 8	2x6	DRY	No.2	SPF

ALL WEBS 2x3 DRY
EXCEPT

DRY: SEASONED LUMBER.

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

BEARINGS			MAXIMUM FACTORED			INPUT	REQRD
GROSS REACTION			GROSS REACTION			BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
13	1992	0	1992	0	0	5-8	5-8
8	1613	0	1613	0	0	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
13	1396	990 / 0	0 / 0	0 / 0	0 / 0	406 / 0	0 / 0
8	1132	792 / 0	0 / 0	0 / 0	0 / 0	340 / 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 = 4.64 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY
APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO			FR-TO		
1-2	0 / 29	-77.4	-77.4 0.11 (1)	10.00	12-3	-151 / 32	0.03 (1)
2-3	-1900 / 0	-116.8	-116.8 0.21 (1)	4.64	3-11	-233 / 0	0.07 (1)
3-4	-1747 / 0	-116.8	-116.8 0.20 (1)	4.82	11-4	0 / 957	0.24 (1)
4-5	-1322 / 0	-77.4	-77.4 0.14 (1)	5.44	4-10	-272 / 0	0.15 (1)
5-6	-1588 / 0	-77.4	-77.4 0.13 (1)	5.08	10-5	0 / 678	0.17 (1)
6-7	-1642 / 0	-77.4	-77.4 0.14 (1)	5.02	10-6	-98 / 0	0.03 (1)
13-2	-1832 / 0	0.0	0.0 0.20 (1)	6.13	9-6	-166 / 0	0.03 (1)
8-7	-1459 / 0	0.0	0.0 0.16 (1)	6.73	2-12	0 / 1677	0.42 (1)
					9-7	0 / 1446	0.36 (1)
13-12	0 / 0	-110.4	-110.4 0.09 (1)	10.00			
12-11	0 / 1597	-110.4	-110.4 0.29 (1)	10.00			
11-10	0 / 1454	-101.5	-101.5 0.27 (1)	10.00			
10-9	0 / 1376	-101.5	-101.5 0.26 (1)	10.00			
9-8	0 / 0	-101.5	-101.5 0.09 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
11	5-10-12	-556	-556	—	FRONT	VERT	TOTAL

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-p	MT20	4.0	6.0	1.00	3.25
3	TMWW-t	MT20	3.0	4.0	1.50	1.50
4	TTWW-m	MT20	4.0	6.0	1.75	2.50
5	TTW-m	MT20	4.0	4.0		
6	TMWW-t	MT20	3.0	4.0	1.50	1.50
7	TMVW-t	MT20	4.0	6.0	1.75	Edge
8	BMV1+p	MT20	2.0	4.0		
9	BMWW-t	MT20	4.0	5.0	2.00	1.75
10	BMWWWW-t	MT20	4.0	6.0		
11	BMWW+t	MT20	3.0	5.0	2.25	1.50
12	BMWW-t	MT20	4.0	5.0	2.00	1.50
13	BMV1+p	MT20	2.0	4.0	2.25	1.00

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

HANGERS NOTES

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 555.7 lbs FACTORED DOWN AT 5-10-12 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.



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

GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 5-6-8
END DISTANCE = 14-10-0
END SPAN CARRIED = 5-6-8
END WALL WIDTH = 0-0
APPLIED TO BACK SIDE OF BOTTOM CHORD.
- ADD'T'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)= $L/360$ (0.49")
 CALCULATED VERT. DEFL.(LL)= $L/999$ (0.03")
 ALLOWABLE DEFL.(TL)= $L/360$ (0.49")
 CALCULATED VERT. DEFL.(TL)= $L/999$ (0.06")

CONTINUED ON PAGE 2



CSI: TC=0.21/1.00 (2-3:1) , BC=0.29/1.00 (11-12:1)
 , WB=0.42/1.00 (2-12:1) , SSI=0.15/1.00 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

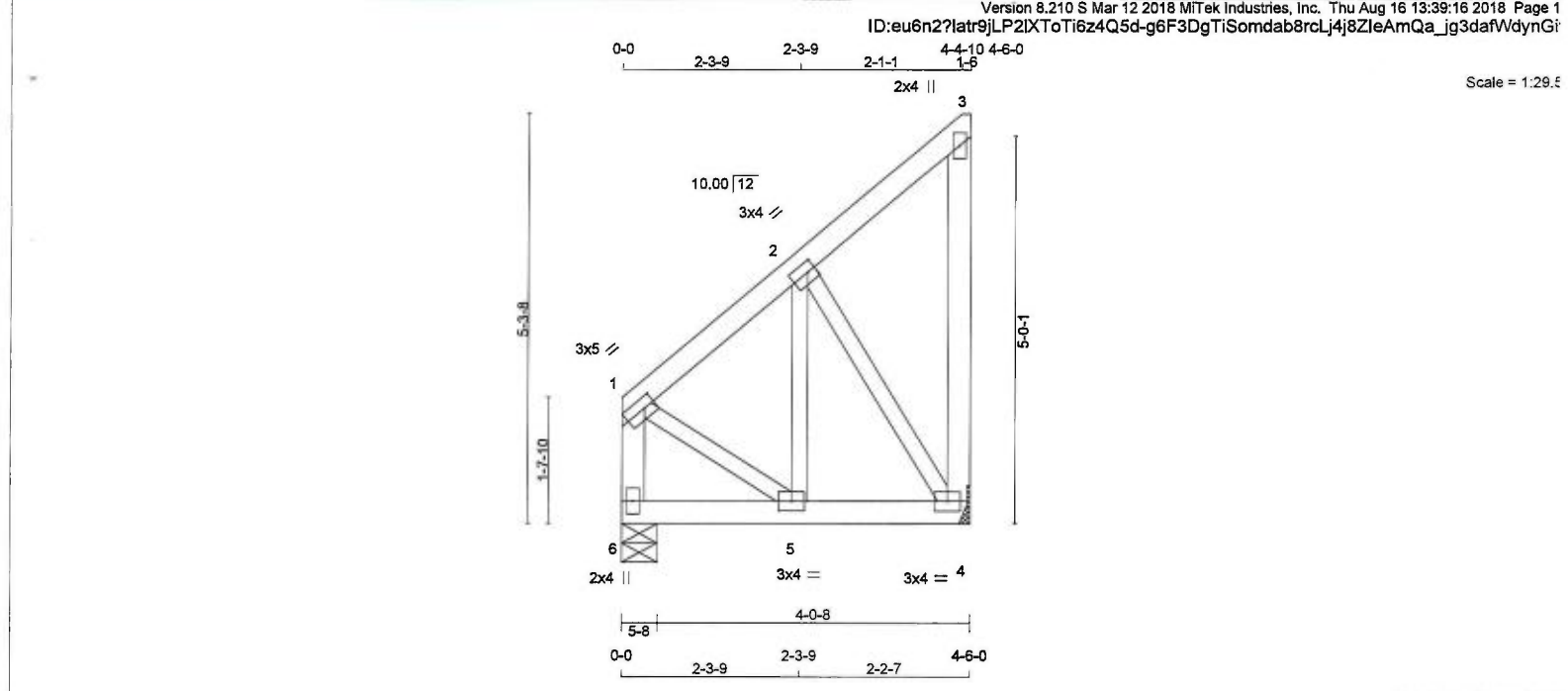
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (2) (INPUT = 0.90)
JSI METAL= 0.48 (12) (INPUT = 1.00)

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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 2x3 DRY No.2 SPF EXCEPT DRY: SEASONED LUMBER.					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED MAXIMUM FACTORED INPUT REQD GROSS REACTION GROSS REACTION BRG BRG JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX 4 556 0 556 0 0 5-8 MECHANICAL 5-8 6 556 0 556 0 0 5-8 MECHANICAL 5-8 A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 4 TO RESIST THE MAX FACTORED REACTIONS.					DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 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 = 8-10-8 END DISTANCE = 4-6-0 END SPAN CARRIED = 8-10-8 END WALL WIDTH = 5-8 APPLIED TO FRONT SIDE OF BOTTOM CHORD. - ADDTL LOADS BASED ON 55 % OF GSL. THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012, CBC 2012, ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (0.19") CALCULATED VERT. DEFL.(LL) = L/999 (0.00") ALLOWABLE DEFL.(TL)= L/360 (0.19") CALCULATED VERT. DEFL.(TL) = L/999 (0.01") CSI: TC=0.07/1.00 (1-2:1), BC=0.18/1.00 (4-5:1), WB=0.11/1.00 (2-4:1), SSI=0.20/1.00 (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.				
PLATES (table is in inches) JT TYPE PLATES W LEN Y X 1 TMVV-t MT20 3.0 5.0 1.50 1.75 2 TMWW-t MT20 3.0 4.0 1.50 1.25 3 TMV+p MT20 2.0 4.0 4 BMVV1-t MT20 3.0 4.0 5 BMWW-t MT20 3.0 4.0 6 BMV1+p MT20 2.0 4.0					UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 4 390 273 / 0 0 / 0 0 / 0 117 / 0 0 / 0 6 390 273 / 0 0 / 0 0 / 0 117 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.					LOADING TOTAL LOAD CASES: (4) CHORDS WEBS MAX. FACTORED MAX. FACTORED MAX. FACTORED MEMB. FORCE VERT. LOAD LC1 MAX. MAX. MEMB. MAX. FORCE MAX. (LBS) (PLF) CSI (LC) UNBRAC LENGTH FR-TO (LBS) CSI (LC) FR-TO FROM TO 1-2 -296 / 0 -77.4 -77.4 0.07 (1) 6.25 5-2 0 / 329 0.08 (1) 2-3 -13 / 0 -77.4 -77.4 0.07 (1) 6.25 2-4 -418 / 0 0.11 (1) 4-3 -65 / 0 0.0 0.0 0.03 (1) 7.81 1-5 0 / 272 0.07 (1) 6-1 -401 / 0 0.0 0.0 0.05 (1) 7.81 6-5 0 / 0 -169.7 -169.7 0.14 (1) 10.00 5-4 0 / 236 -169.7 -169.7 0.18 (1) 10.00				

Aug 16, 2018

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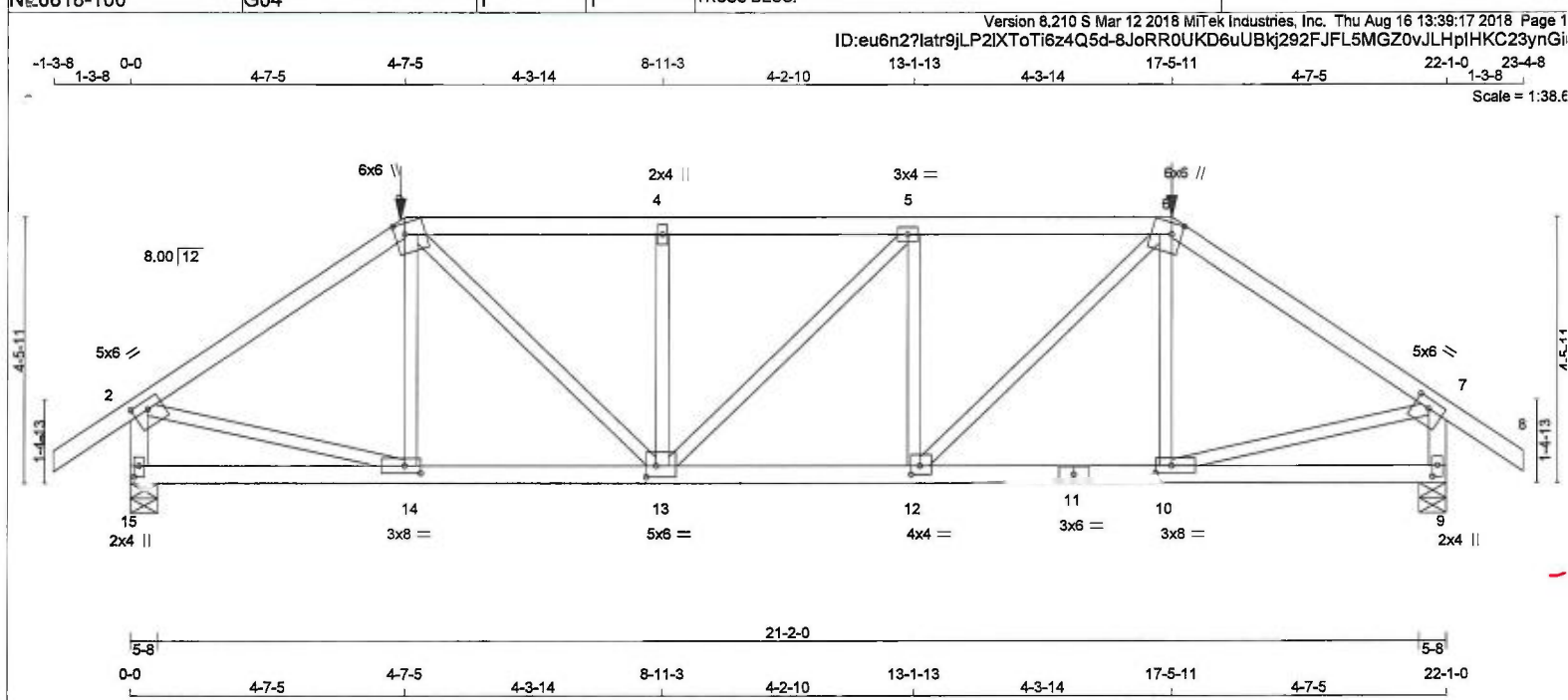
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0818-100	G03	1	1	GREENPARK-MINNISALE HOMES-HEMLOCK 4 EL 1	PAGE 8 OF 31
TRUSS DESC.					

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 13:39:16 2018 Page 2
ID:eu6n2?latr9jLP2IXToTi6z4Q5d-g6F3DgTiSomdab8rcL4j8ZleAmQa_jg3dafWdynGi

JSI GRIP= 0.66 (5) (INPUT = 0.90)
JSI METAL= 0.12 (5) (INPUT = 1.00)

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





LUMBER

N. L. G. A. RULES

CHORDS

SIZE

LUMBER

DESCR.

1 - 3

2x4

DRY

No.2

SPF

3 - 6

2x4

DRY

No.2

SPF

6 - 8

2x4

DRY

No.2

SPF

15- 2

2x4

DRY

No.2

SPF

9 - 7

2x4

DRY

No.2

SPF

15- 11

2x4

DRY

No.2

SPF

11- 9

2x4

DRY

No.2

SPF

ALL WEBS

2x3

DRY

No.2

SPF

EXCEPT

DRY: SEASONED LUMBER.

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

BEARINGS

FACTORED

MAXIMUM FACTORED

INPUT

REQRD

GROSS REACTION

GROSS REACTION

BRG

BRG

VERT

HORZ

DOWN

HORZ

UPLIFT

IN-SX

IN-SX

15

2033

0

2033

0

0

5-8

5-8

9

2033

0

2033

0

0

5-8

5-8

UNFACTORED REACTIONS

1ST LCASE

MAX/MIN. COMPONENT REACTIONS

15

1425

1004 / 0

0 / 0

0 / 0

0 / 0

421 / 0

0 / 0

9

1425

1004 / 0

0 / 0

0 / 0

0 / 0

421 / 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 = 3.61 FT.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS

MEMB.

MAX. FACTORED

FORCE

VERT. LOAD

LC1

MAX

CS1 (LC)

WEBS

MEMB.

MAX. FACTORED

FORCE

MAX

CS1 (LC)

FR-TO

0 / 29

-77.4

-77.4

0.11 (1)

10.00

14-3

-259 / 65

0.08 (1)

2-3

-2255 / 0

-77.4

-77.4

0.45 (1)

4.08

3-13

0 / 1152

0.29 (1)

3-4

-2697 / 0

-145.9

-145.9

0.51 (1)

3.63

13-4

-669 / 0

0.21 (1)

4-5

-2697 / 0

-145.9

-145.9

0.52 (1)

3.62

13-5

-4 / 0

0.00 (1)

5-6

-2700 / 0

-145.9

-145.9

0.52 (1)

3.61

12-5

-670 / 0

0.21 (1)

6-7

-2255 / 0

-77.4

-77.4

0.45 (1)

4.08

12-6

0 / 1157

0.29 (1)

7-8

0 / 29

-77.4

-77.4

0.11 (1)

10.00

10-6

-261 / 65

0.08 (1)

15-2

-1969 / 0

0.0

0.0

0.22 (1)

5.95

2-14

0 / 1922

0.48 (1)

9-7

-1968 / 0

0.0

0.0

0.22 (1)

5.96

10-7

0 / 1922

0.48 (1)

15-14

0 / 0

-33.0

-33.0

0.18 (4)

10.00

14-13

0 / 1867

-33.0

-33.0

0.43 (1)

10.00

13-12

0 / 2700

-33.0

-33.0

0.55 (1)

10.00

12-11

0 / 1867

-33.0

-33.0

0.43 (1)

10.00

11-10

0 / 1867

-33.0

-33.0

0.43 (1)

10.00

10-9

0 / 0

-33.0

-33.0

0.18 (4)

10.00

FACTORED CONCENTRATED LOADS (LBS)

JT

LOC.

LC1

MAX-

MAX+

FACE

DIR.

TYPE

3

4-7-5

-267

-267

-

FRONT

VERT

TOTAL

6

17-5-11

-267

-267

-

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 = 4-7-5

END SETBACK = 6-0-0

END WALL WIDTH = 5-8

CORNER FRAMING TYPE: CONVENTIONAL

END JACK TYPE: CONVENTIONAL

APPLIED TO FRONT SIDE

- ADD'L LOADS BASED ON 55 % OF GSL

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

THIS DESIGN COMPLIES WITH:

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

- CSA 086-09

- TPIC 2011

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

ALLOWABLE DEFL.(LL)= L/360 (0.74")

CALCULATED VERT. DEFL.(LL) = L/999 (0.09")

ALLOWABLE DEFL.(TL)= L/360 (0.74")

CALCULATED VERT. DEFL.(TL) = L/999 (0.17")

CSI: TC=0.52/1.00 (5-6:1), BC=0.55/1.00 (12-13:1), WB=0.48/1.00 (2-14:1), SS=0.32/1.00 (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

PLATES (table is in inches)

JT

TYPE

PLATES

W

LEN

Y

X

2

TMVW-t

MT20

5.0

6.0

1.75

3.00

3

TTWW+m

MT20

6.0

6.0

2.25

2.00

4

TMW+w

MT20

2.0

4.0

5

TMWW-t

MT20

3.0

4.0

6

TTWW+m

MT20

6.0

6.0

2.25

2.00

7

TMVW-t

MT20

5.0

6.0

1.75

3.00

9

BMV1+p

MT20

2.0

4.0

2.25

1.00

10

BMWW-t

MT20

3.0

8.0

1.50

3.25

11

BS-t

MT20

3.0

6.0

12

BMWW-t

MT20

4.0

4.0

1.75

1.75

13

BMWW-t

MT20

5.0

6.0

2.25

2.00

14

BMWW-t

MT20

3.0

8.0

1.50

3.25

15

BMV1+p

MT20

2.0

4.0

2.25

1.00

HANGERS NOTES

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 267.4 lbs FACTORED DOWN AT 17-5-11, AND 267.4 lbs FACTORED DOWN AT 4-7-5 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

LICENSED PROFESSIONAL ENGINEER

N.A. EL-MASRI

Aug 16, 2018

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

CONTINUED ON PAGE 2

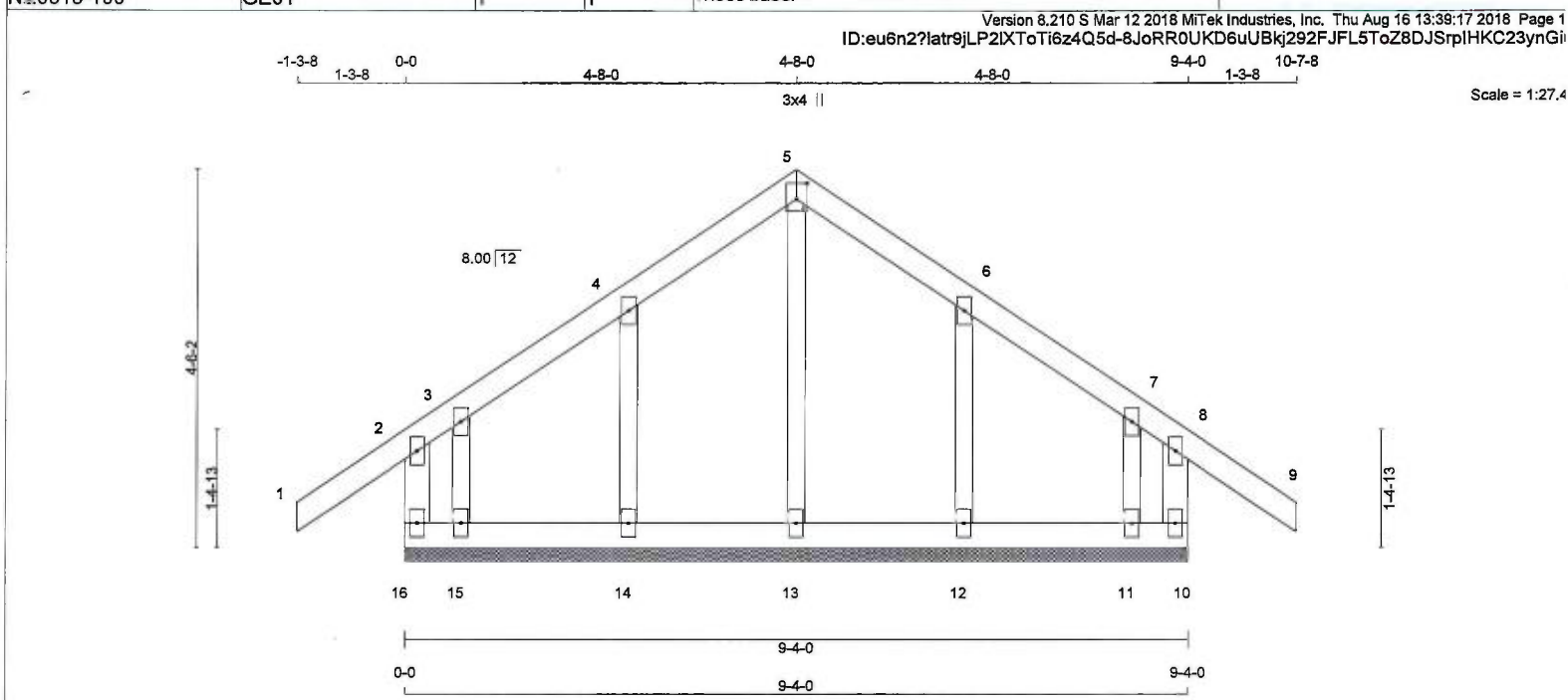
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0818-100	G04	1	1	GREENPARK-MINNISALE HOMES-HEMLOCK 4 EL 1	PAGE 10 OF 31
TRUSS DESC.					

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 13:39:17 2018 Page 2
ID:eu6n2?latr9jLP2lXToTi6z4Q5d-8JoRR0UKD6uUBKj292FJFL5MGZ0vJLHplHKC23ynGi

PLATE PLACEMENT TOL. = 0.250 inches
PLATE ROTATION TOL. = 5.0 Deg.
JSI GRIP= 0.89 (14) (INPUT = 0.90)
JSI METAL= 0.60 (2) (INPUT = 1.00)

READ ALL NOTES ON THIS PAGE AND ON
ENGINEERING NOTE PAGE ENP-1. THIS
NOTE PAGE IS AN INTEGRAL PART OF
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THE DESIGN OF THIS COMPONENT.





LUMBER

N. L. G. A. RULES

CHORDS

SIZE

DRY

No.2

DESCR.

SPF

16- 2

2x4

1 - 5

2x4

5 - 9

2x4

10- 8

2x4

16- 10

2x4

ALL WEBS

2x3

DRY

No.2

ALL GABLE WEBS

2x3

DRY

No.2

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2'-0" OC.

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

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

MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 23.3 PSF

DL = 3.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.0 PSF

TOTAL LOAD = 33.3 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

- CSA 086-09

- TPIC 2011

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

CSI: TC=0.10/1.00 (8-9:1), BC=0.01/1.00 (13-14:4), WB=0.06/1.00 (5-13:1), SSI=0.07/1.00 (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

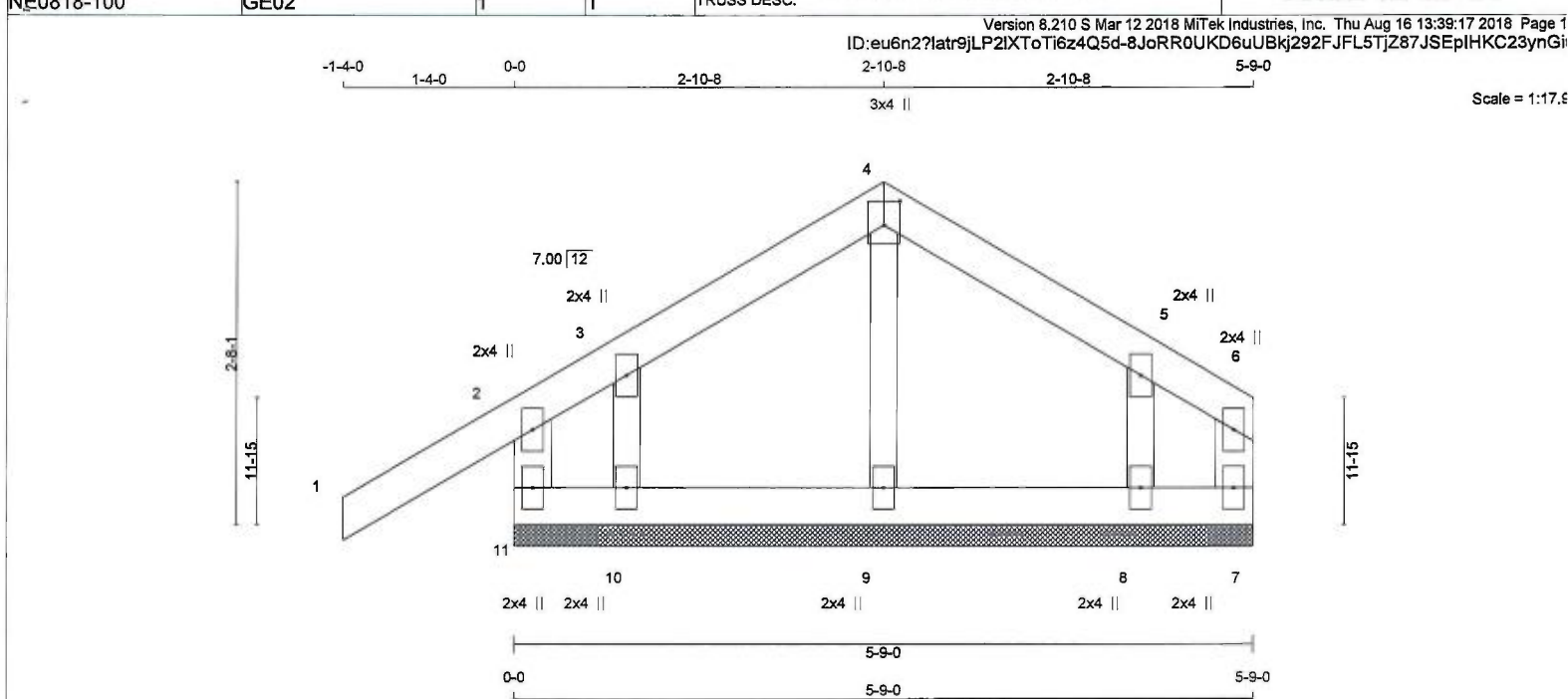
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.13 (5) (INPUT = 0.90)

JSI METAL= 0.06 (5) (INPUT = 1.00)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX	UNBRAC LENGTH	FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX	UNBRAC LENGTH	FR-TO
16-2		-176 / 0	0.0	0.0	0.03 (1)	7.81	13-5		-189 / 0	0.06 (1)		
1-2		0 / 29	-77.4	-77.4	0.10 (1)	10.00	14-4		-164 / 0	0.03 (1)		
2-3		-11 / 0	-77.4	-77.4	0.07 (1)	6.25	15-3		-33 / 0	0.00 (1)		
3-4		0 / 27	-77.4	-77.4	0.04 (1)	10.00	12-6		-164 / 0	0.03 (1)		
4-5		0 / 28	-77.4	-77.4	0.04 (1)	10.00	11-7		-33 / 0	0.00 (1)		
5-6		0 / 28	-77.4	-77.4	0.04 (1)	10.00						
6-7		0 / 27	-77.4	-77.4	0.04 (1)	10.00						
7-8		-11 / 0	-77.4	-77.4	0.07 (1)	8.25						
8-9		0 / 29	-77.4	-77.4	0.10 (1)	10.00						
10-8		-176 / 0	0.0	0.0	0.03 (1)	7.81						
16-15		-18 / 0	-17.5	-17.5	0.01 (4)	6.25						
15-14		-20 / 0	-17.5	-17.5	0.01 (4)	6.25						
14-13		-24 / 0	-17.5	-17.5	0.01 (4)	6.25						
13-12		-24 / 0	-17.5	-17.5	0.01 (4)	6.25						
12-11		-20 / 0	-17.5	-17.5	0.01 (4)	6.25						
11-10		-18 / 0	-17.5	-17.5	0.01 (4)	6.25						



LUMBER

N. L. G. A. RULES

CHORDS

SIZE

DRY

No.2

DESCR.

SPF

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.

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 7 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 = 6.25 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS

MEMB.

MAX. FACTORED FORCE (LBS)

VERT. LOAD (PLF)

LC1

MAX

CS1 (LC)

UNBRAC

WEBS

MEMB.

MAX. FACTORED FORCE (LBS)

MAX

CS1 (LC)

FR-TO

11-2

-182 / 0

0.0

0.0

0.03 (1)

7.81

9-4

-190 / 0

0.03 (1)

1-2

0 / 27

-77.4

-77.4

0.11 (1)

10.00

10-3

-52 / 0

0.01 (1)

2-3

-11 / 0

-77.4

-77.4

0.07 (1)

6.25

8-5

-130 / 0

0.02 (1)

3-4

0 / 21

-77.4

-77.4

0.05 (1)

10.00

4-5

0 / 20

-77.4

-77.4

0.04 (1)

10.00

5-6

0 / 22

-77.4

-77.4

0.03 (1)

10.00

7-6

0 / 0

0.0

0.0

0.00 (1)

10.00

11-10

-11 / 0

-17.5

-17.5

0.02 (1)

6.25

10-9

-15 / 0

-17.5

-17.5

0.02 (4)

6.25

9-8

-15 / 0

-17.5

-17.5

0.02 (4)

6.25

8-7

-7 / 0

-17.5

-17.5

0.01 (4)

10.00

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 23.3 PSF

DL = 3.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.0 PSF

TOTAL LOAD = 33.3 PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 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=0.11/1.00 (1-2:1) , BC=0.02/1.00 (10-11:1) , WB=0.03/1.00 (4-9:1) , SSI=0.07/1.00 (1-2:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

MAX MIN MAX MIN MAX MIN

MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.12 (4) (INPUT = 0.90)

JSI METAL= 0.07 (4) (INPUT = 1.00)

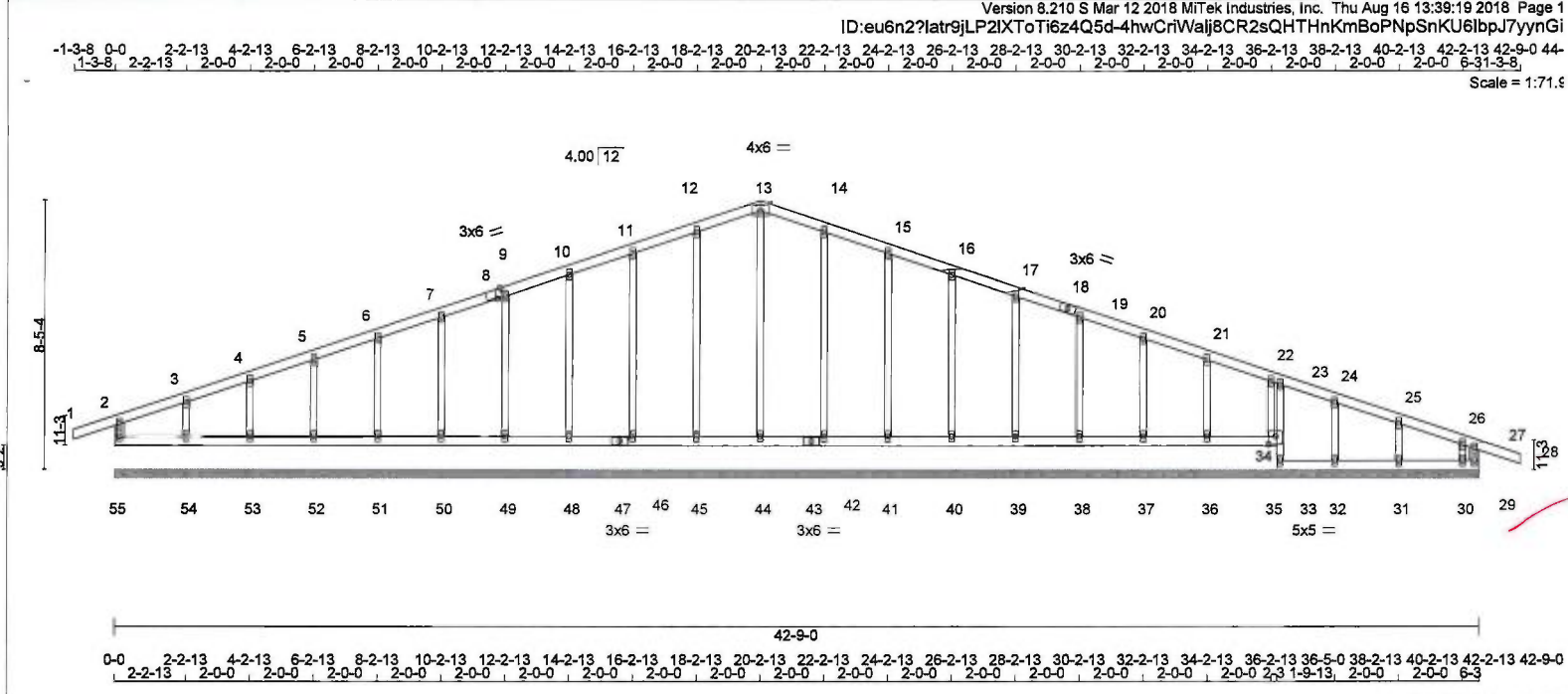
LICENSED PROFESSIONAL ENGINEER

N.A. EL-MASRI

Aug 16, 2018

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS 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. SPF				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER				DESIGN CRITERIA				
1 - 8	2x4	DRY	No.2	SPF	THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.				SPECIFIED LOADS:			
8 - 13	2x4	DRY	No.2	SPF	THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.				TOP CH. LL = 23.3 PSF			
13 - 18	2x4	DRY	No.2	SPF	BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): 55, 44, 45, 46, 48, 49, 50, 51, 52, 53, 54, 42, 41, 40, 39, 38, 37, 36, 35				DL = 3.0 PSF			
18 - 28	2x4	DRY	No.2	SPF	PROVIDE ANCHORAGE AT BEARING JOINT 30 FOR 150 LBS. FACTORED UPLIFT BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S).				BOT CH. LL = 0.0 PSF			
55 - 2	2x4	DRY	No.2	SPF	BRACING				DL = 7.0 PSF			
29 - 27	2x4	DRY	No.2	SPF	TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.				TOTAL LOAD = 33.3 PSF			
55 - 47	2x4	DRY	No.2	SPF	MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.				SPACING = 24.0 IN. C/C			
47 - 43	2x4	DRY	No.2	SPF	ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.				THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010			
43 - 34	2x4	DRY	No.2	SPF	LOADING				THIS DESIGN COMPLIES WITH:			
33 - 23	2x3	DRY	No.2	SPF	TOTAL LOAD CASES: (4)				- PART 9 OF OBC 2012, BCBC 2012, ABC 2014			
33 - 29	2x4	DRY	No.2	SPF	CHORDS				- CSA 086-09			
ALL WEBS 2x3 DRY No.2 SPF				MEMB. MAX. FACTORED FORCE (LBS)				- TPIC 2011				
ALL GABLE WEBS 2x3 DRY No.2 SPF				VERT. LOAD LC1 MAX UNBRACED LENGTH				DESIGN ASSUMPTIONS				
DRY: SEASONED LUMBER.				FROM TO				- OVERHANG NOT TO BE ALTERED OR CUT OFF.				
GABLE STUDS SPACED AT 2'-0" OC.				FR-TO				(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD				
				MAX. FACTORED FORCE (LBS)				CSI: TC=0.10/1.00 (27-28:1), BC=0.03/1.00 (29-30:1), WB=0.17/1.00 (13-44:1), SSI=0.08/1.00 (26-27:1)				
				FACTORED (PLF)				DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10				
				MAX. UNBRACED LENGTH				COMPANION LIVE LOAD FACTOR = 0.50				
				FR-TO				TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.				
				MAX. FACTORED FORCE (LBS)				NAIL VALUES				
				MAX. UNBRACED LENGTH				PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)				
				FR-TO				MAX MIN MAX MIN MAX MIN				
				MAX. FACTORED FORCE (LBS)				MT20 618 354 1667 822 2284 1656				
				MAX. UNBRACED LENGTH				PLATE PLACEMENT TOL. = 0.250 inches				
				FR-TO				PLATE ROTATION TOL. = 5.0 Deg.				
				MAX. FACTORED FORCE (LBS)				JSI GRIP= 0.47 (33) (INPUT = 0.90)				
				MAX. UNBRACED LENGTH				JSI METAL= 0.05 (27) (INPUT = 1.00)				
				FR-TO								
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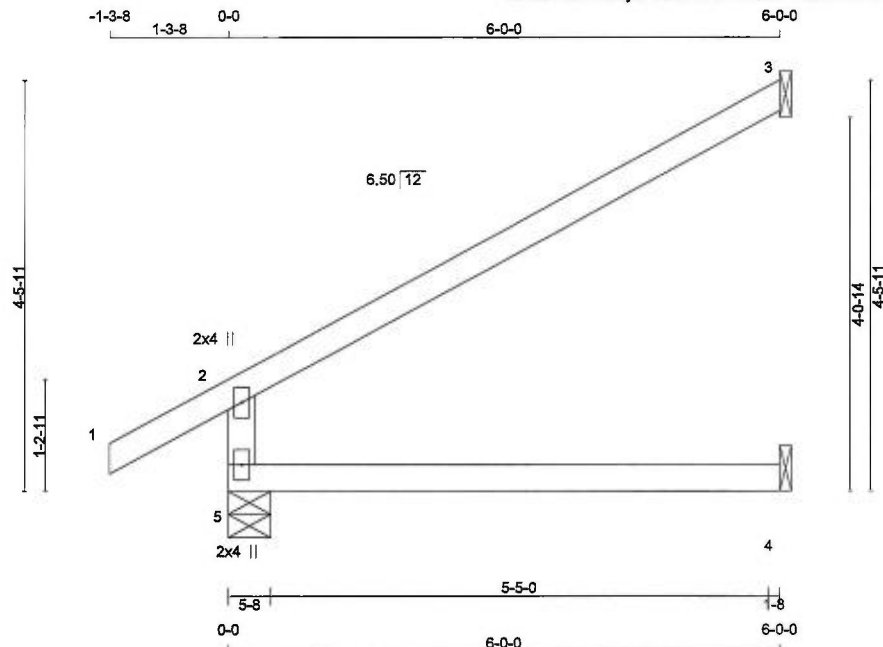
LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX	MAX. MEMB. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX	
FR-TO		FROM TO		CSI (LC)		FR-TO		CSI (LC)	
42-41	-4 / 0	-17.5	-17.5	0.01 (4)	10.00				
41-40	-3 / 0	-17.5	-17.5	0.01 (4)	10.00				
40-39	-2 / 1	-17.5	-17.5	0.01 (4)	10.00				
39-38	0 / 1	-17.5	-17.5	0.01 (4)	10.00				
38-37	0 / 1	-17.5	-17.5	0.01 (4)	10.00				
37-36	0 / 4	-17.5	-17.5	0.01 (4)	10.00				
36-35	0 / 6	-17.5	-17.5	0.01 (4)	10.00				
35-34	0 / 8	-17.5	-17.5	0.01 (4)	10.00				
33-34	-40 / 7	0.0	0.0	0.01 (1)	7.81				
34-23	-65 / 0	0.0	0.0	0.01 (1)	7.81				
33-32	0 / 8	-17.5	-17.5	0.01 (4)	10.00				
32-31	0 / 11	-17.5	-17.5	0.02 (4)	10.00				
31-30	0 / 16	-17.5	-17.5	0.02 (4)	10.00				
30-29	0 / 16	-17.5	-17.5	0.03 (1)	10.00				

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





Scale = 1:25.1

TOTAL WEIGHT = 13 X 17 = 225 lb [M]

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

DRY: SEASONED LUMBER.

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

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
5	457	0	457	0
3	174	0	174	0
4	43	0	49	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	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)	MAX. LOAD LC1 (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LOAD LC1 (LC)
FR-TO		FROM	TO		FR-TO		
5-2	-395 / 0	0.0	0.0 0.13 (4)	7.81			
1-2	0 / 25	-77.4	-77.4 0.10 (1)	10.00			
2-3	-28 / 0	-77.4	-77.4 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, NBC 2010

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCSC 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=0.47/1.00 (2-3:1), BC=0.13/1.00 (4-5:4),
WB=0.00/1.00 (n/a:0), SSI=0.20/1.00 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

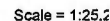
JSI GRIP= 0.23 (2) (INPUT = 0.90)
JSI METAL= 0.09 (2) (INPUT = 1.00)



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



Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Thu Aug 16 13:39:20 2018 Page 1
P2IXToTi6z4Q5d-YtLJa32WDW1G32CRdrAo0t ivLn7TWpSG FYsfOvnGi



TOTAL WEIGHT = $7 \times 15 = 104$ lb

DESCR.
SPF
SPF
SPF

DRY; SEASONED LUMBER.

PLATES (table is in inches)

BUILDING BEARINGS

FACTORED GROSS REACTION			MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
4	263	0	263	0	0	MECHANICAL	
2	197	0	197	0	0	1-8	1-8
3	66	0	66	0	0	1-8	1-8

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 4 TO RESIST THE MAX FACTORED REACTIONS.

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
4	184	129 / 0	0 / 0	0 / 0	0 / 0	55 / 0	0 / 0
2	134	116 / 0	0 / 0	0 / 0	0 / 0	18 / 0	0 / 0
3	50	13 / 0	0 / 0	0 / 0	0 / 0	37 / 0	0 / 0

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED MAX CSI (LC)
FR-TO		FROM TO			FR-TO		
4-1	-232 / 0	0.0	0.0	0.12 (1)	7.81		
1-2	-8 / 1	-77.4	-77.4	0.34 (1)	10.00		
4-3	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/ 829 (0.08")

CSI: TC=0.34/1.00 (1-2:1), BC=0.17/1.00 (3-4:1),
WB=0.00/1.00 (n/a:0), SSI=0.16/1.00 (1-2:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

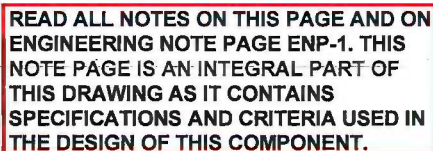
NAIL VALUES

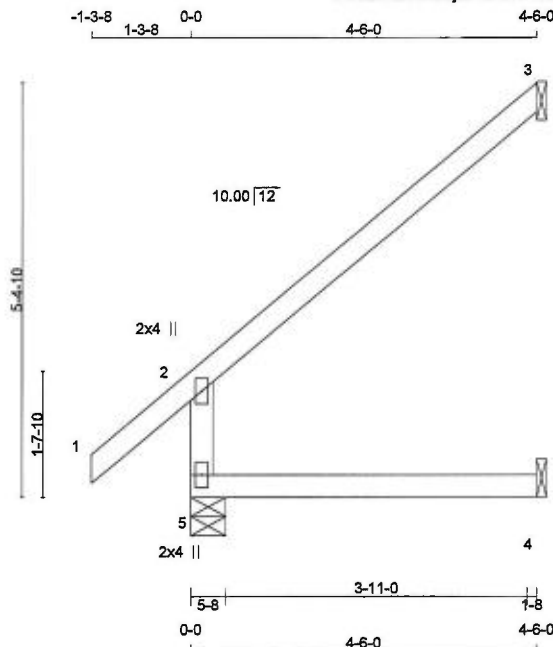
PLATE	GRIP(DRY)		SHEAR		SECTION	
	(PSI)	(PSI)	(PLI)	(PLI)	(PLI)	(PLI)
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.14 (1) (INPUT = 0.90)
JSI METAL= 0.05 (1) (INPUT = 1.00)





TOTAL WEIGHT = 2 X 15 = 31 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
2	TMV+p	MT20	2.0	4.0	X
5	BMV1+p	MT20	2.0	4.0	

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
5	369	0	369	0	5-8	5-8
3	131	0	131	0	1-8	1-8
4	34	0	38	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	256	195 / 0	0 / 0	0 / 0	0 / 0	61 / 0	0 / 0
3	89	79 / 0	0 / 0	0 / 0	0 / 0	10 / 0	0 / 0
4	27	0 / 0	0 / 0	0 / 0	0 / 0	27 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MAX. MEMB. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 (LC)
FR-TO		FROM TO			FR-TO		
5-2	-325 / 0	0.0	0.0 0.06 (4)	7.81			
1-2	0 / 34	-77.4	-77.4 0.11 (1)	10.00			
2-3	-28 / 0	-77.4	-77.4 0.27 (1)	6.25			
5-4	0 / 0	-17.5	-17.5 0.08 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

CSI=0.27/1.00 (2-3:1), BC=0.08/1.00 (4-5:4), WB=0.00/1.00 (n/a:0), SSI=0.13/1.00 (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

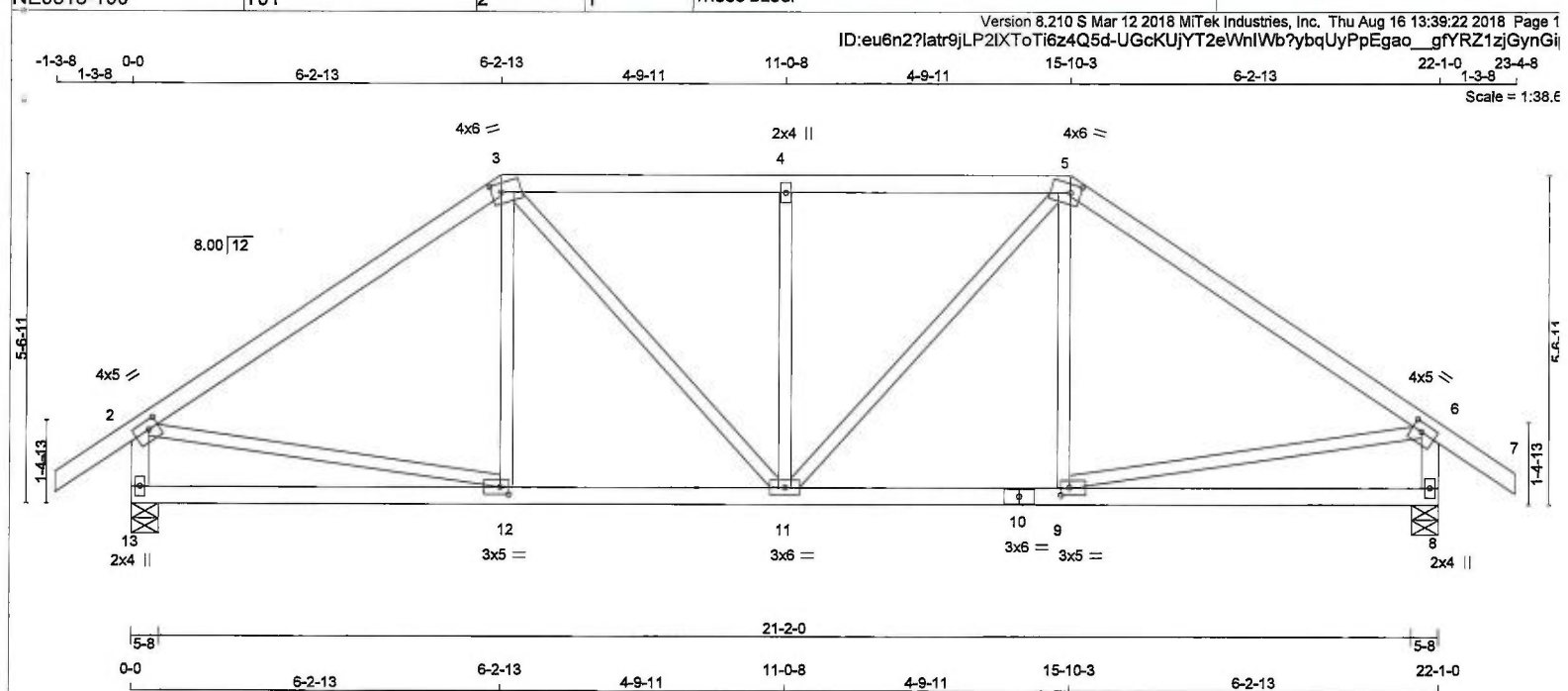
PLATE ROTATION TOL. = 5.0 Deg.

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



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





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

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	2.00	
4	TMW-w	MT20	2.0	4.0			
5	TTWW-m	MT20	4.0	6.0	1.75	2.00	
6	TMVW-t	MT20	4.0	5.0	1.75	2.00	
8	BMV1+p	MT20	2.0	4.0			
9	BMWW-t	MT20	3.0	5.0	1.50	1.75	
10	BS-t	MT20	3.0	6.0			
11	BMWWW-t	MT20	3.0	6.0			
12	BMWW-t	MT20	3.0	5.0	1.50	1.75	
13	BMV1+p	MT20	2.0	4.0			

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
13	1154	0	1154	0	5-8	5-8
8	1154	0	1154	0	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
13	807	578 / 0	0 / 0	0 / 0	0 / 0	229 / 0	0 / 0
8	807	578 / 0	0 / 0	0 / 0	0 / 0	229 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.53 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	MAX. FACTORED FORCE (LBS)
FR-TO		FROM	TO	FR-TO			
1-2	0 / 29	-77.4	-77.4 0.10 (1)	10.00	12-3	-36 / 85	0.03 (4)
2-3	-1090 / 0	-77.4	-77.4 0.42 (1)	5.53	3-11	0 / 347	0.08 (1)
3-4	-1140 / 0	-77.4	-77.4 0.24 (1)	5.68	11-4	-453 / 0	0.21 (1)
4-5	-1140 / 0	-77.4	-77.4 0.24 (1)	5.68	11-5	0 / 347	0.08 (1)
5-6	-1090 / 0	-77.4	-77.4 0.42 (1)	5.53	9-5	-36 / 85	0.03 (4)
6-7	0 / 29	-77.4	-77.4 0.10 (1)	10.00	2-12	0 / 919	0.21 (1)
13-2	-1108 / 0	0.0	0.0 0.11 (1)	7.52	9-6	0 / 919	0.21 (1)
8-6	-1108 / 0	0.0	0.0 0.11 (1)	7.52			
13-12	0 / 0	-17.5	-17.5 0.15 (4)	10.00			
12-11	0 / 906	-17.5	-17.5 0.23 (1)	10.00			
11-10	0 / 906	-17.5	-17.5 0.23 (1)	10.00			
10-9	0 / 906	-17.5	-17.5 0.23 (1)	10.00			
9-8	0 / 0	-17.5	-17.5 0.15 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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 (0.74")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.74")
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.42/1.00 (2-3:1), BC=0.23/1.00 (11-12:1), WB=0.21/1.00 (4-11:1), SSI=0.18/1.00 (3-4:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

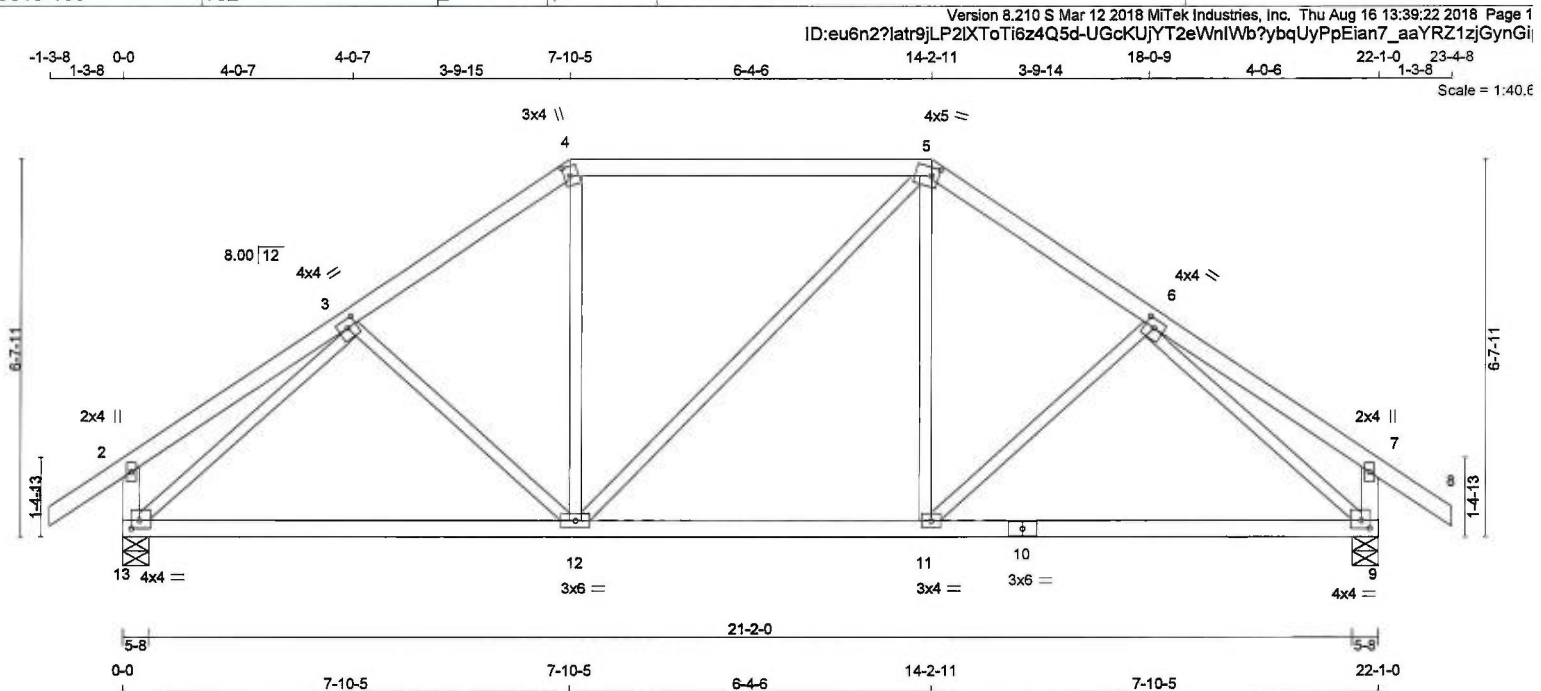
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (12) (INPUT = 0.90)
JSI METAL= 0.38 (2) (INPUT = 1.00)



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





TOTAL WEIGHT = 2 X 94 = 187 lb

LUMBER		N. L. G. A. RULES		LUMBER		DESCR.	
CHORDS		SIZE					
1 - 4	2x4	DRY	No.2		SPF		
4 - 5	2x4	DRY	No.2		SPF		
5 - 8	2x4	DRY	No.2		SPF		
13 - 2	2x4	DRY	No.2		SPF		
9 - 7	2x4	DRY	No.2		SPF		
13 - 10	2x4	DRY	No.2		SPF		
10 - 9	2x4	DRY	No.2		SPF		

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

PLATES (table is in inches)

J	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
3	TMWW+t	MT20	4.0	4.0	1.75	2.00
4	TTW+m	MT20	3.0	4.0	2.00	1.25
5	TTWW-m	MT20	4.0	5.0	1.75	1.50
6	TMWW+t	MT20	4.0	4.0	1.75	2.00
7	TMV+p	MT20	2.0	4.0		
9	BMVV1-t	MT20	4.0	4.0	1.75	1.75
10	BS-t	MT20	3.0	6.0		
11	BMWW-t	MT20	3.0	4.0		
12	BMWWW-t	MT20	3.0	6.0		
13	BMVV1-t	MT20	4.0	4.0	1.75	1.75

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	
13	1154	0	1154	0	0	5-8		5-8	
9	1154	0	1154	0	0	5-8		5-8	

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
13	807	578 / 0	0 / 0	0 / 0	0 / 0	229 / 0	0 / 0
9	807	578 / 0	0 / 0	0 / 0	0 / 0	229 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.99 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

LOADING
TOTAL LOAD CASES: (4)

CHORDS			WEBS					
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM TO			FR-TO			
1-2	0 / 29	-77.4	-77.4	0.10 (1)	10.00	3-12	-103 / 23	0.05 (1)
2-3	0 / 19	-77.4	-77.4	0.19 (1)	10.00	12-4	0 / 204	0.05 (4)
3-4	-1041 / 0	-77.4	-77.4	0.15 (1)	5.99	12-5	0 / 0	0.00 (1)
4-5	-852 / 0	-77.4	-77.4	0.41 (1)	6.04	11-5	0 / 204	0.05 (4)
5-6	-1040 / 0	-77.4	-77.4	0.15 (1)	5.99	11-6	-103 / 23	0.05 (1)
6-7	0 / 19	-77.4	-77.4	0.19 (1)	10.00	13-3	-1271 / 0	0.60 (1)
7-8	0 / 29	-77.4	-77.4	0.10 (1)	10.00	6-9	-1270 / 0	0.60 (1)
13-2	-224 / 0	0.0	0.0	0.02 (1)	7.81			
9-7	-224 / 0	0.0	0.0	0.02 (1)	7.81			
13-12	0 / 925	-17.5	-17.5	0.29 (4)	10.00			
12-11	0 / 852	-17.5	-17.5	0.28 (4)	10.00			
11-10	0 / 925	-17.5	-17.5	0.29 (4)	10.00			
10-9	0 / 925	-17.5	-17.5	0.29 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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 (0.74")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.74")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.13")

CSI: TC=0.41/1.00 (4-5:1), BC=0.29/1.00 (9-11:4),
WB=0.60/1.00 (3-13:1), SSI=0.19/1.00 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (3) (INPUT = 0.90)
JSI METAL= 0.46 (3) (INPUT = 1.00)



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





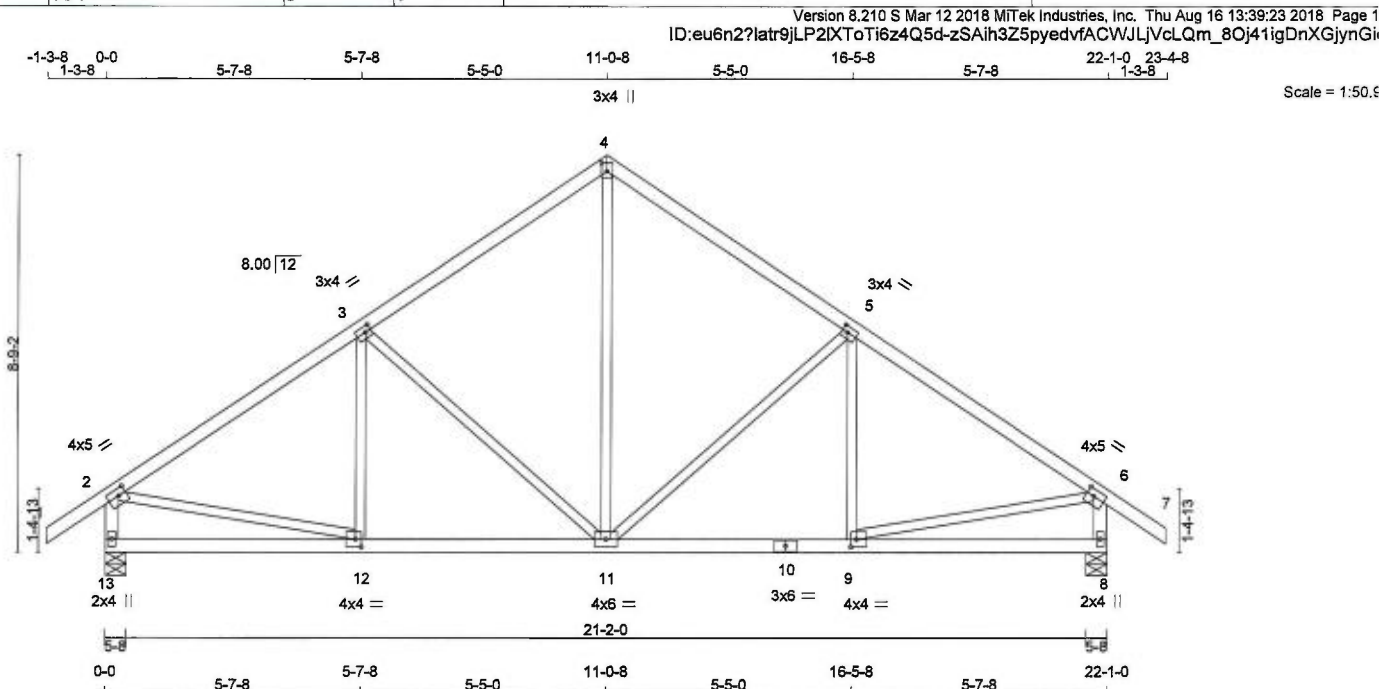
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 15, 9

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

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

[illegible]



TOTAL WEIGHT = 5 X 96 = 478 lb

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

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
13	1154	0	1154	0	0	5-8	5-8
8	1154	0	1154	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST CASE	MAX/MIN	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
13	807	578 / 0	0 / 0	0 / 0	0 / 0	0 / 0	229 / 0	0 / 0
8	807	578 / 0	0 / 0	0 / 0	0 / 0	0 / 0	229 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.55 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: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO		FR-TO			
1-2	0 / 29	-77.4	-77.4 0.10 (1)	10.00	11-4	0 / 605	0.14 (1)
2-3	-1147 / 0	-77.4	-77.4 0.33 (1)	5.55	11-5	-386 / 0	0.39 (1)
3-4	-858 / 0	-77.4	-77.4 0.31 (1)	6.20	9-5	-81 / 68	0.03 (1)
4-5	-858 / 0	-77.4	-77.4 0.31 (1)	6.20	3-11	-386 / 0	0.39 (1)
5-6	-1147 / 0	-77.4	-77.4 0.33 (1)	5.55	12-3	-81 / 68	0.03 (1)
6-7	0 / 29	-77.4	-77.4 0.10 (1)	10.00	2-12	0 / 995	0.22 (1)
13-2	-1113 / 0	0.0	0.0 0.11 (1)	7.51	9-6	0 / 995	0.22 (1)
8-6	-1113 / 0	0.0	0.0 0.11 (1)	7.51			
13-12	0 / 0	-17.5	-17.5 0.13 (4)	10.00			
12-11	0 / 977	-17.5	-17.5 0.22 (1)	10.00			
11-10	0 / 977	-17.5	-17.5 0.22 (1)	10.00			
10-9	0 / 977	-17.5	-17.5 0.22 (1)	10.00			
9-8	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, 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 (0.74")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.74")
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.33/1.00 (2-3:1), BC=0.22/1.00 (11-12:1)
WB=0.39/1.00 (3-11:1), SSI=0.17/1.00 (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

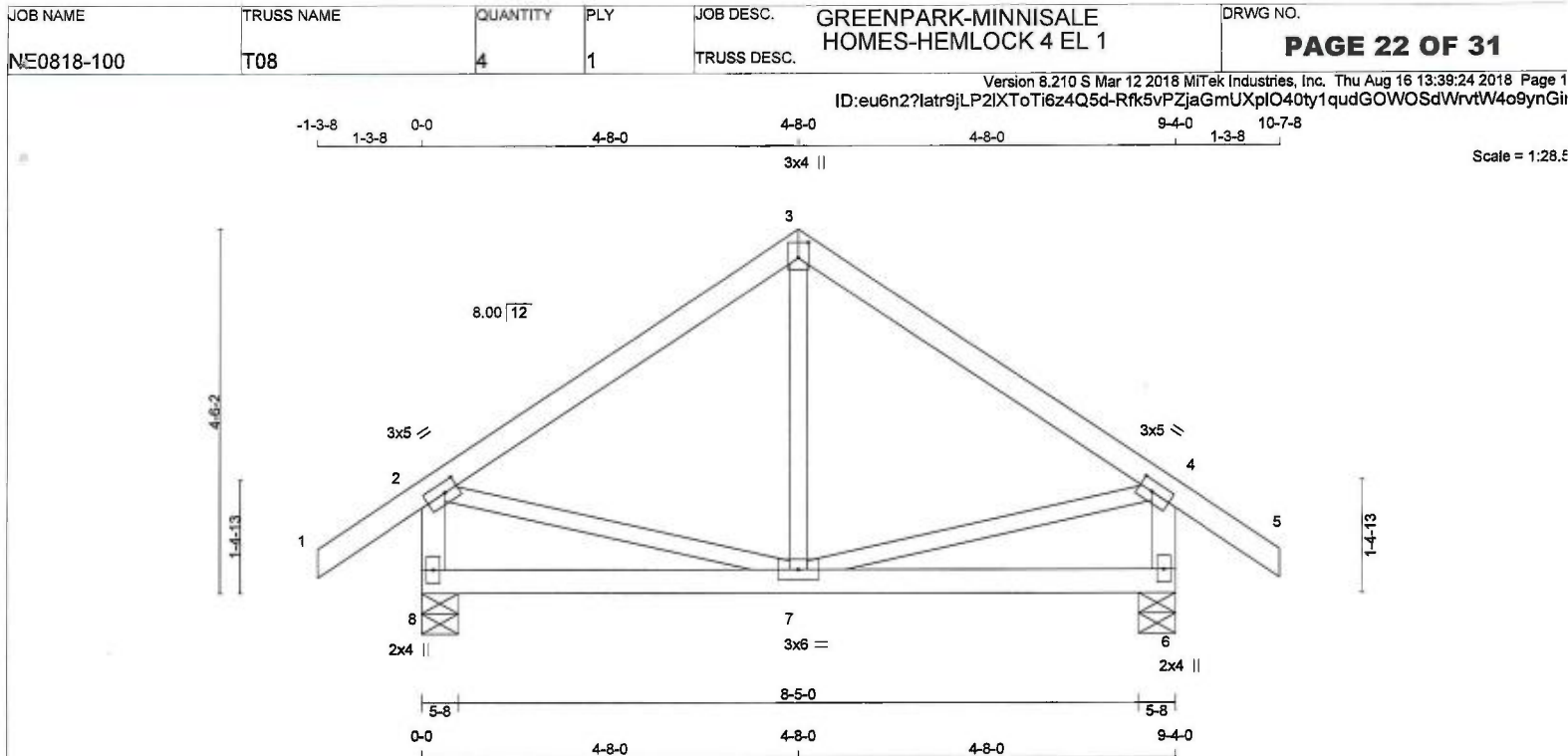
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.82 (9) (INPUT = 0.90)
JSI METAL= 0.40 (6) (INPUT = 1.00)



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





TOTAL WEIGHT = 4 X 40 = 159 lb
[M]F

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	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		

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		
8	549	0	549	0	5-8	5-8
6	549	0	549	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX./MIN. LIVE		PERM. LIVE	WIND	DEAD	SOIL
	SNOW							
8	383	281 / 0	0 / 0	0 / 0	0 / 0	0 / 0	102 / 0	0 / 0
6	383	281 / 0	0 / 0	0 / 0	0 / 0	0 / 0	102 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO		FR-TO			
1-2	0 / 29	-77.4 -77.4	0.10 (1)	10.00	7-3	-19 / 74	0.03 (4)
2-3	-309 / 0	-77.4 -77.4	0.22 (1)	6.25	2-7	0 / 263	0.06 (1)
3-4	-309 / 0	-77.4 -77.4	0.22 (1)	6.25	7-4	0 / 263	0.06 (1)
4-5	0 / 29	-77.4 -77.4	0.10 (1)	10.00			
8-2	-517 / 0	0.0 0.0	0.05 (1)	7.81			
6-4	-517 / 0	0.0 0.0	0.05 (1)	7.81			
8-7	0 / 0	-17.5 -17.5	0.11 (4)	10.00			
7-6	0 / 0	-17.5 -17.5	0.11 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

(55% OF 27.2 P.S.F. G.S.L. 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=0.22/1.00 (2-3:1), BC=0.11/1.00 (7-8:4),
WB=0.06/1.00 (2-7:1), SSI=0.12/1.00 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

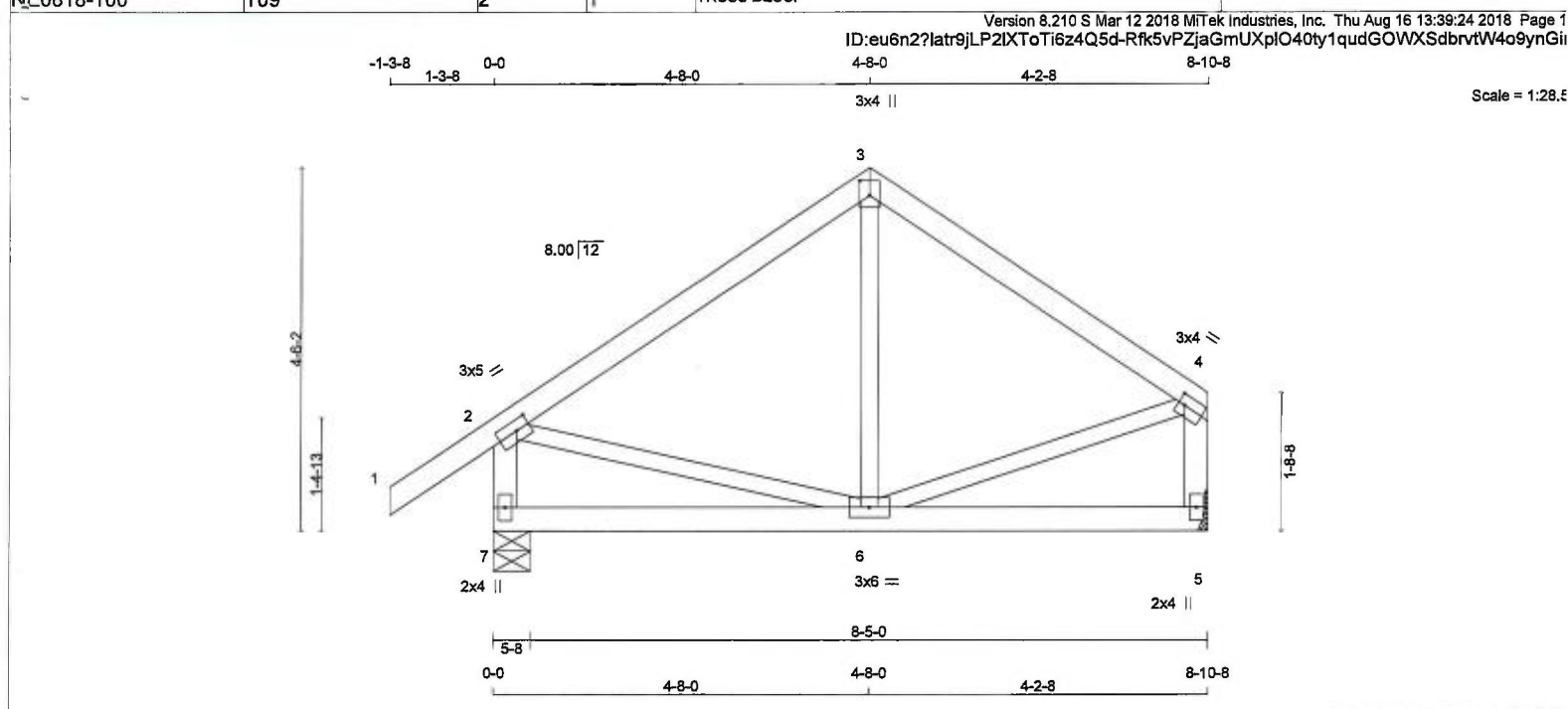
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.48 (7) (INPUT = 0.90)
JSI METAL= 0.14 (4) (INPUT = 1.00)



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





LUMBER					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA		TOTAL WEIGHT = 2 X 37 = 74 lb																																																				
N. L. G. A. RULES					CHORDS					SIZE					LUMBER					DESCR.					BEARINGS																																												
1 - 3					2x4					DRY					No.2					SPF					FACTORED					MAXIMUM FACTORED					INPUT					REQRD					SPECIFIED LOADS:																								
3 - 4					2x4					DRY					No.2					SPF					GROSS REACTION					GROSS REACTION					BRG					BRG					TOP CH. LL = 23.3 PSF																								
7 - 2					2x4					DRY					No.2					SPF					JT					VERT					HORZ					DOWN					HORZ					UPLIFT					IN-SX					IN-SX					DL = 3.0 PSF				
5 - 4					2x4					DRY					No.2					SPF					7					527					0					527					0					0					5-8					5-8					BOT CH. LL = 0.0 PSF				
7 - 5					2x4					DRY					No.2					SPF					5					421					0					421					0					0					MECHANICAL					DL = 7.0 PSF									
ALL WEBS EXCEPT					2x3					DRY					No.2					SPF					A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 5 TO RESIST THE MAX FACTORED REACTIONS.															TOTAL LOAD = 33.3 PSF																													
DRY: SEASONED LUMBER																				SPACING = 24.0 IN./C															THIS TRUSS IS DESIGNED FOR RESIDENTIAL																																		

PLATES (table is in inches)				UNFACTORED REACTIONS				DESIGN CRITERIA			
JT	TYPE	PLATES	W	LEN	Y	X	1ST LCASE	MAX/MIN. COMPONENT REACTIONS			
2	TMVV-t	MT20	3.0	5.0	1.50	2.00	JT	COMBINED	SNOW	LIVE	PERM. LIVE
3	TTW+p	MT20	3.0	4.0	2.25	1.50	7	368	271 / 0	0 / 0	0 / 0
4	TMVV-t	MT20	3.0	4.0	1.50	1.00	5	295	207 / 0	0 / 0	0 / 0
5	BMV1+p	MT20	2.0	4.0							
6	BMVWW-t	MT20	3.0	6.0							
7	BMV1+p	MT20	2.0	4.0							

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				CHORDS				WEBS			
TOTAL LOAD CASES: (4)				MAX. FACTORED	FACTORED	VERT. LOAD	LC1 MAX	MAX. MEMB.	MAX. FACTORED	FORCE	MAX
				MEMB. FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX	CS1 (LC)	UNBRAC LENGTH	MEMB. FORCE (LBS)	MAX	CS1 (LC)
				FR-TO	FROM	TO		FR-TO	FR-TO		
				1-2	0 / 29	-77.4	-77.4 0.10 (1)	10.00	6-3	-35 / 65	0.02 (4)
				2-3	-278 / 0	-77.4	-77.4 0.22 (1)	6.25	2-6	0 / 238	0.05 (1)
				3-4	-278 / 0	-77.4	-77.4 0.18 (1)	6.25	6-4	0 / 244	0.05 (1)
				7-2	-495 / 0	0.0	0.0 0.05 (1)	7.81			
				5-4	-393 / 0	0.0	0.0 0.04 (1)	7.81			
				7-6	0 / 0	-17.5	-17.5 0.10 (4)	10.00			
				6-5	0 / 0	-17.5	-17.5 0.10 (4)	10.00			

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

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 (0.30")
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=0.22/1.00 (2-3:1), BC=0.10/1.00 (5-6:4), WB=0.05/1.00 (4-6:1), SSI=0.12/1.00 (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

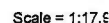
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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= 0.79 (4) (INPUT = 0.90)
JSI METAL= 0.14 (4) (INPUT = 1.00)



TOTAL WEIGHT = 2 X 23 = 47 lb

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

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
5	BMV1+p	MT20	2.0	4.0		
6	BMWWW-t	MT20	3.0	6.0		
7	BMV1+p	MT20	2.0	4.0		

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

FACTORED			MAXIMUM FACTORED			INPUT	REQD
GROSS REACTION			GROSS REACTION			BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
7	382	0	382	0	0	3-0	3-0
5	273	0	273	0	0	3-0	3-0

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
7	265	199/0	0/0	0/0	0/0	66/0	0/0
5	191	134/0	0/0	0/0	0/0	57/0	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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO			FR-TO		
1-2	0 / 27	-77.4	-77.4 0.11 (1)	10.00	6-3	-22 / 42	0.01 (4)
2-3	-199 / 0	-77.4	-77.4 0.11 (1)	6.25	2-6	0 / 177	0.04 (1)
3-4	-199 / 0	-77.4	-77.4 0.11 (1)	6.25	6-4	0 / 177	0.04 (1)
7-2	-361 / 0	0.0	0.0 0.04 (1)	7.81			
5-4	-252 / 0	0.0	0.0 0.03 (1)	7.81			
7-6	0 / 0	-17.5	-17.5 0.04 (4)	10.00			
6-5	0 / 0	-17.5	-17.5 0.04 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

CSI: TC=0.11/1.00 (2-3:1), BC=0.04/1.00 (5-6:4),
WB=0.04/1.00 (4-6:1), SSI=0.07/1.00 (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					
	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

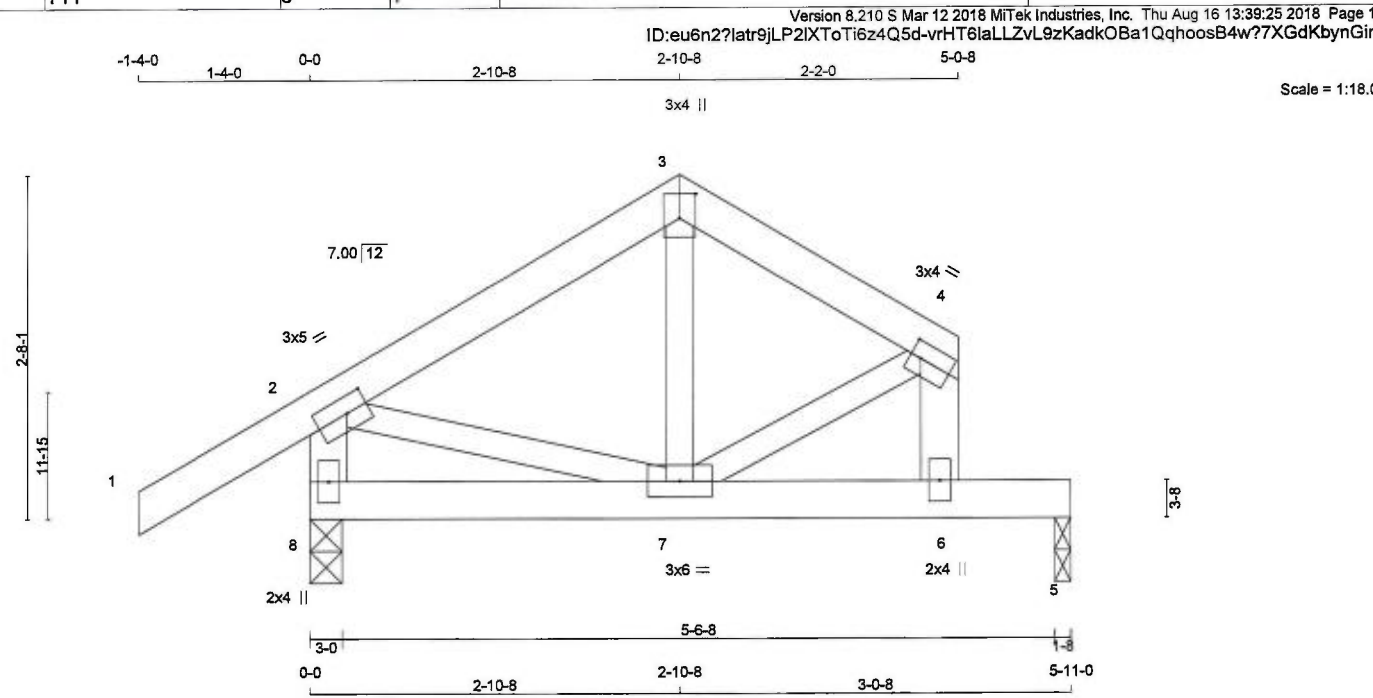
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.33 (6) (INPUT = 0.90)
JSI METAL= 0.09 (4) (INPUT = 1.00)



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





LUMBER				N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.	SPF	FACTORED	MAXIMUM FACTORED	INPUT
1 - 3	2x4	DRY	No.2	SPF	8	271	0
3 - 4	2x4	DRY	No.2	SPF	8	271	0
8 - 2	2x4	DRY	No.2	SPF	8	271	0
6 - 4	2x4	DRY	No.2	SPF	8	271	0
8 - 5	2x4	DRY	No.2	SPF	8	271	0
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	8	271	0

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	4.0	1.50	1.00	
6	BMV+p	MT20	2.0	4.0			
7	BMVWV-t	MT20	3.0	6.0			
8	BMV1+p	MT20	2.0	4.0			

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

FACTORED			MAXIMUM FACTORED			INPUT		REQRD	
JT	GROSS REACTION		GROSS REACTION		UPLIFT	BRG IN-SX	BRG IN-SX		
	VERT	HORZ	DOWN	HORZ					
8	389	0	389	0	0	3-0		3-0	
5	281	0	281	0	0	1-8		1-8	

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
8	271	203 / 0	0 / 0	0 / 0	0 / 0	68 / 0	0 / 0
5	197	138 / 0	0 / 0	0 / 0	0 / 0	59 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8, 5

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORIZ. LOAD (LC1)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORIZ. LOAD (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 27	-77.4 -77.4	0.11 (1)	10.00	7-3	0 / 53	0.02 (4)
2-3	-230 / 0	-77.4 -77.4	0.11 (1)	6.25	2-7	0 / 204	0.05 (1)
3-4	-230 / 0	-77.4 -77.4	0.06 (1)	6.25	7-4	0 / 222	0.05 (1)
8-2	-383 / 0	0.0 0.0	0.04 (1)	7.81			
6-4	-300 / 0	0.0 0.0	0.03 (1)	7.81			
8-7	0 / 0	-17.5 -17.5	0.07 (1)	10.00			
7-6	0 / 0	-17.5 -17.5	0.28 (1)	10.00			
6-5	0 / 0	-94.9 -94.9	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 (0.20")
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=0.11/1.00 (2-3:1), BC=0.28/1.00 (6-7:1), WB=0.05/1.00 (4-7:1), SSI=0.22/1.00 (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

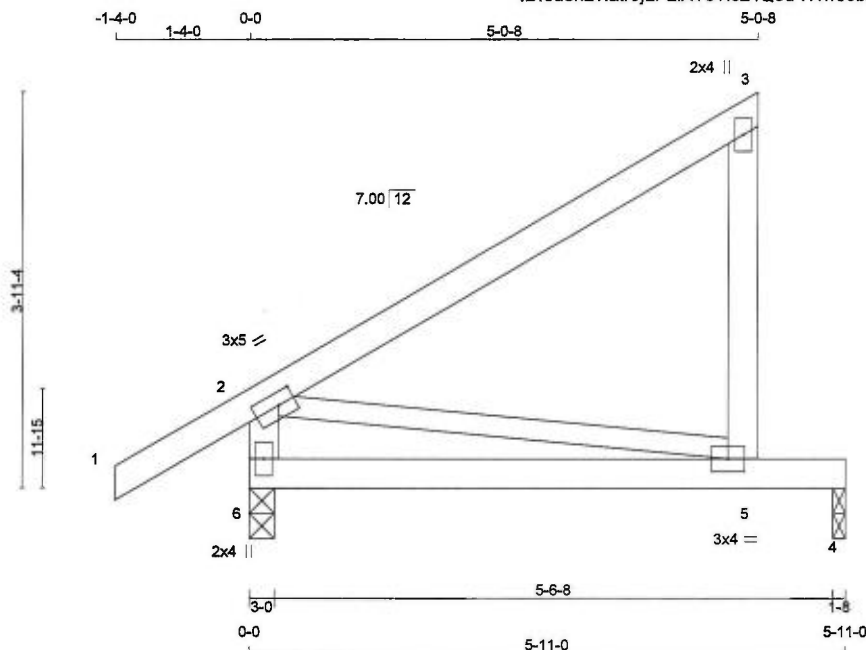
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.76 (4) (INPUT = 0.90)
JSI METAL= 0.10 (2) (INPUT = 1.00)



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





TOTAL WEIGHT = 2 X 23 = 47 lb [M]

LUMBER				DESCR.	
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
1 - 3	2x4	DRY	No.2	SPF	
5 - 3	2x4	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	TMVV-t	MT20	3.0	5.0	1.50	2.00
3	TMV+p	MT20	2.0	4.0		
5	BMVV-t	MT20	3.0	4.0		
6	BMV1+p	MT20	2.0	4.0		

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
6	384	0	384	0	0	3-0	3-0
4	218	0	218	0	0	1-8	1-8

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
6	268	200 / 0	0 / 0	0 / 0	0 / 0	67 / 0	0 / 0
4	154	100 / 0	0 / 0	0 / 0	0 / 0	54 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 MAX. (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO		FR-TO			
1-2	0 / 27	-77.4 -77.4	0.11 (1)	2-5	0 / 0	10.00	0.00 (1)
2-3	0 / 0	-77.4 -77.4	0.33 (1)			10.00	
5-3	-195 / 0	0.0 0.0	0.05 (1)			7.81	
6-2	-304 / 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	0.25 (1)			10.00	

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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 (0.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/555 (0.13")

CSI: TC=0.33/1.00 (2-3:1), BC=0.25/1.00 (5-6:1), WB=0.00/1.00 (2-5:1), SS=0.17/1.00 (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.

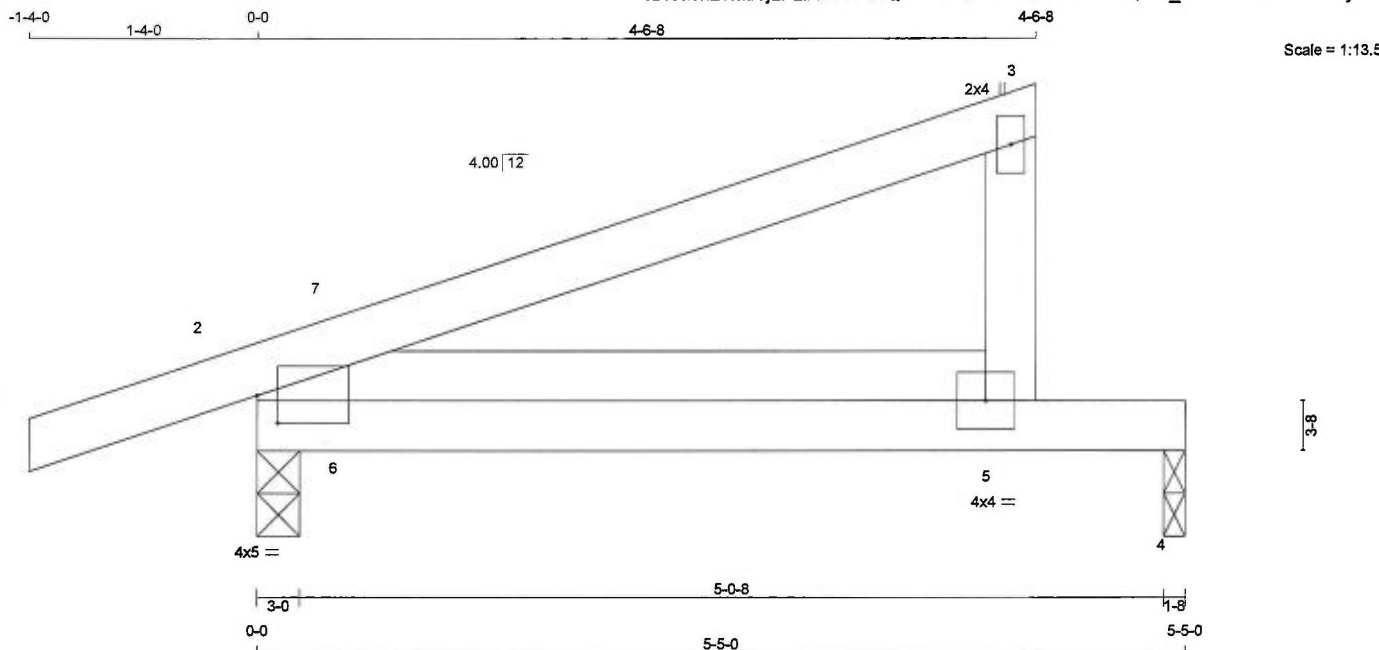
JSI GRIP= 0.26 (2) (INPUT = 0.90)

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



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





TOTAL WEIGHT = 5 X 20 = 100 lb [M]

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
1 - 3	2x4	DRY	No.2
5 - 3	2x4	DRY	No.2
2 - 4	2x4	DRY	No.2
REINFORCING MEMBERS			
HW1	2x4	DRY	No.2

SPF

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMBMW1-I	MT20	4.0	5.0	2.00	1.50
3	TMV+p	MT20	2.0	4.0		
5	BMVW-t	MT20	4.0	4.0		

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
2	358	0	358	0	0	3-0	3-0
4	195	0	195	0	0	1-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. SNOW	MAX/MIN. LIVE	MAX/MIN. PERM. LIVE	MAX/MIN. WIND	MAX/MIN. DEAD	MAX/MIN. SOIL
2	249	187 / 0	0 / 0	0 / 0	0 / 0	62 / 0	0 / 0
4	138	89 / 0	0 / 0	0 / 0	0 / 0	49 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	MEMB.	MAX. UNBRACED LENGTH	MAX. FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM	TO	FR-TO			
1-2	0 / 5	-77.4	-77.4 0.10 (1)	5-7	10.00	-550 / 0	0.11 (1)
2-7	-617 / 0	-77.4	-77.4 0.12 (1)	6-7	6.25	0 / 209	0.00 (1)
7-3	0 / 4	-77.4	-77.4 0.15 (1)		10.00		
5-3	-135 / 0	0.0	0.0 0.02 (1)		7.81		
2-6	0 / 535	-17.5	-17.5 0.17 (1)		10.00		
6-5	0 / 535	-17.5	-17.5 0.34 (1)		10.00		
5-4	0 / 0	-17.5	-17.5 0.26 (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 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/882 (0.07")

CSI: TC=0.15/1.00 (3-7:1), BC=0.34/1.00 (5-6:1), WB=0.11/1.00 (5-7:1), SS=0.15/1.00 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

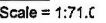
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.53 (5) (INPUT = 0.90)
JSI METAL= 0.20 (5) (INPUT = 1.00)



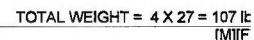
READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





WEBS		
MEMB.	MAX. FACTORED	MAX CSI (LC)
	FORCE (LBS)	
R-TO		
4-3	-181 / 57	0.53 (1)
3-23	-548 / 0	0.07 (1)
3-5	0 / 339	0.08 (1)
5-21	-1038 / 0	0.50 (1)
1-6	0 / 940	0.21 (1)
1-7	-271 / 0	0.33 (1)
9-7	-215 / 12	0.12 (1)
9-9	0 / 525	0.12 (1)
8-9	-844 / 0	0.22 (1)
8-10	0 / 2938	0.66 (1)
7-15	-294 / 0	0.06 (1)
7-11	-754 / 0	0.15 (1)
5-11	0 / 224	0.05 (1)
2-24	0 / 3310	0.74 (1)
5-12	-329 / 0	0.07 (1)





SPECIFIED LOADS:

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

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

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

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO		FR-TO			
1-2	0 / 16	-77.4	-77.4 0.10 (1)	10.00	7-3	0 / 83	0.03 (4)
2-3	-455 / 0	-77.4	-77.4 0.09 (1)	6.25	3-6	-498 / 0	0.11 (1)
3-4	-8 / 0	-77.4	-77.4 0.09 (1)	10.00	2-7	0 / 448	0.10 (1)
6-4	-96 / 0	0.0	0.0 0.01 (1)	7.81			
8-2	-434 / 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 / 439	-17.5	-17.5 0.39 (1)	10.00			
6-5	0 / 0	-17.5	-17.5 0.32 (1)	10.00			

ALLOWABLE DEFL(LL)= L/360 (0.24")
CALCULATED VERT. DEFL(LL) = L/ 999 (0.04")
ALLOWABLE DEFL(TL)= L/360 (0.24")
CALCULATED VERT. DEFL(TL) = L/ 999 (0.07")

CSI: TC=0.10/1.00 (1-2:1), BC=0.39/1.00 (6-7:1),
WB=0.11/1.00 (3-6:1), SSI=0.22/1.00 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (2) (INPUT = 0.90)
JSI METAL= 0.20 (2) (INPUT = 1.00)



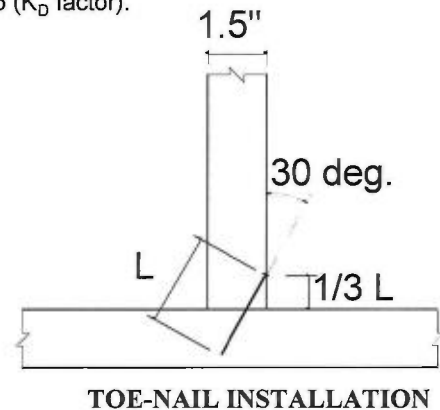
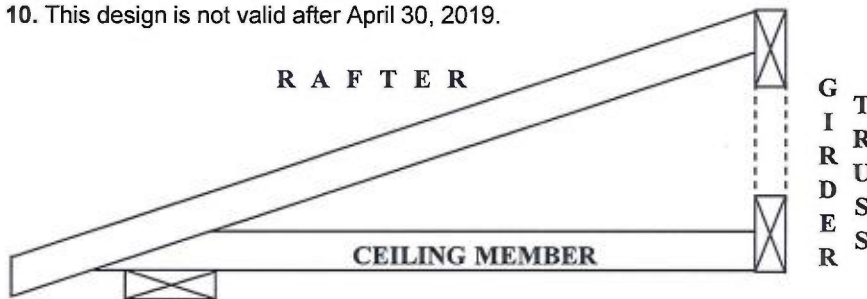
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

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

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, 2019.



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



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

PEO
Certificate No. 10889485



April 26, 2017

BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

B37579H2

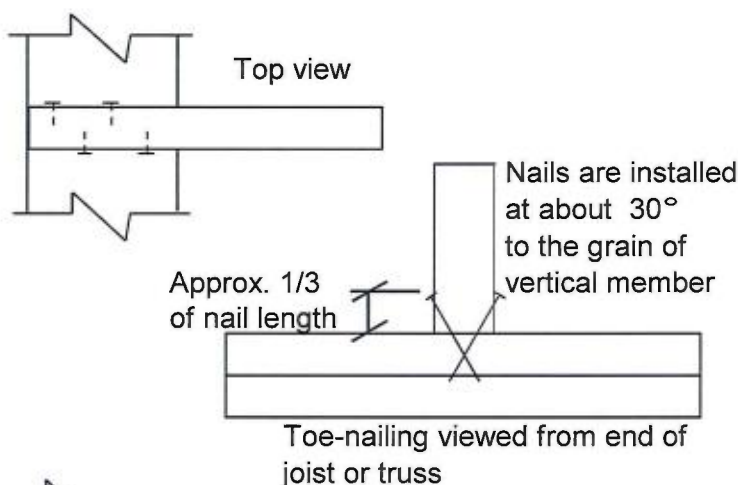
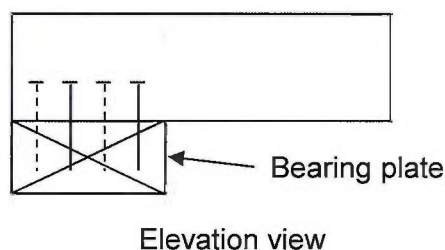
NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL WITHDRAWAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	30	42
	3.25	0.144	32	45
	3.50	0.160	38	52

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

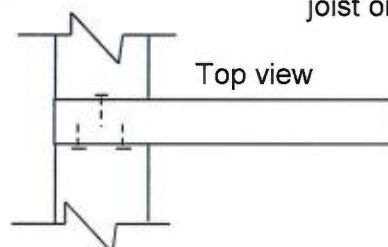
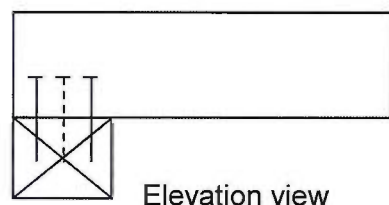
NOTES:

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, 2019

Toe-nailing on 2x6 Bearing Plate



Toe-nailing on 2x4 Bearing Plate



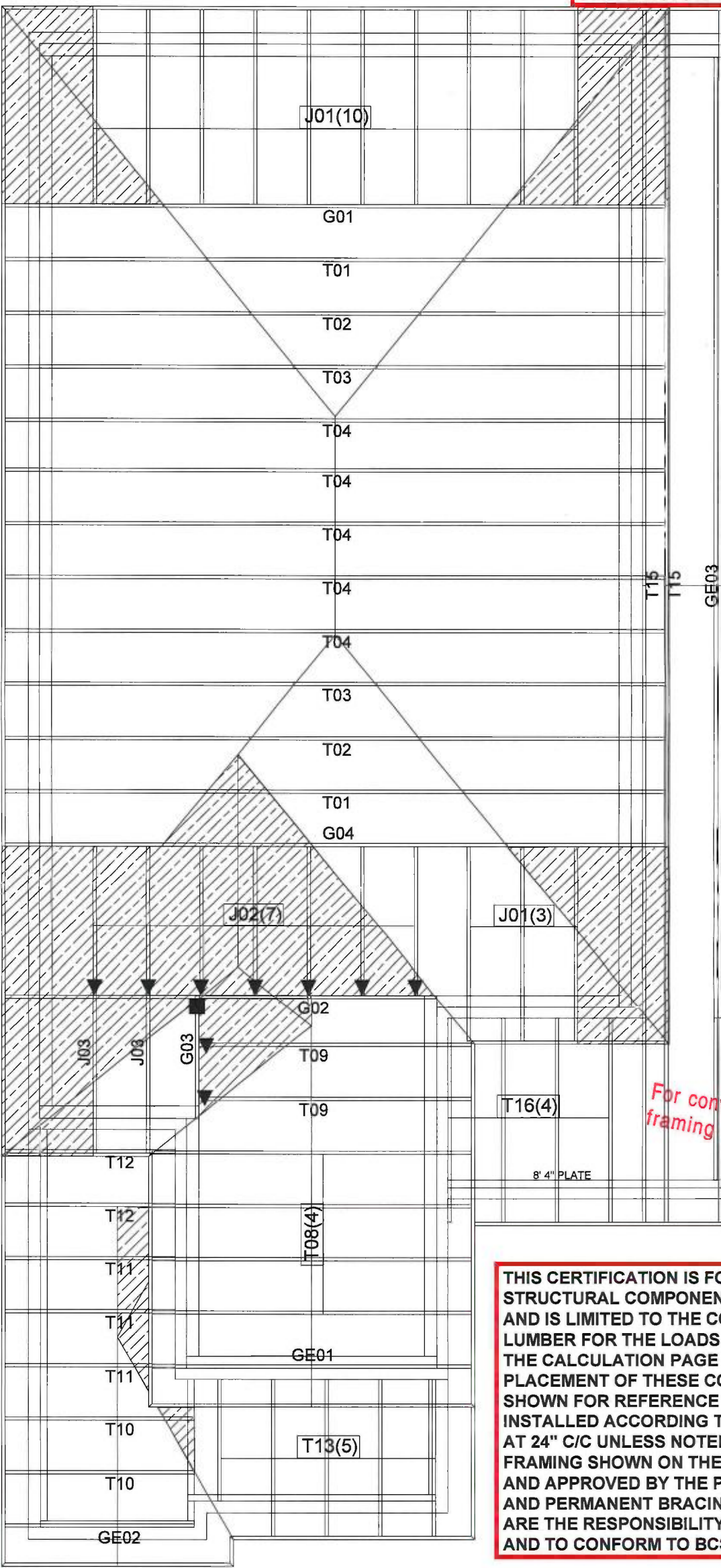
MiTek Canada Inc
100 Industrial Rd.
Bradford, Ontario L3Z 3G7

PEO
Certificate No. 10889485



April 26, 2017

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



For conventional framing roof / ceilings
framing shall conform to OBC.9.23

THIS CERTIFICATION IS FOR THE ENGINEERING REVIEW OF
STRUCTURAL COMPONENTS SHOWN ON THIS DRAWING
AND IS LIMITED TO THE COMPONENTS SUPPLIED BY KOTT
LUMBER FOR THE LOADS AND CONDITIONS SHOWN ON
THE CALCULATION PAGE OF EACH COMPONENT. THE
PLACEMENT OF THESE COMPONENTS ON THIS LAYOUT IS
SHOWN FOR REFERENCE ONLY. ROOF TRUSSES MUST BE
INSTALLED ACCORDING TO MANUFACTURER'S GUIDELINES
AT 24" C/C UNLESS NOTED OTHERWISE. CONVENTIONAL
FRAMING SHOWN ON THE LAYOUT MUST BE DESIGNED
AND APPROVED BY THE PROJECT ENGINEER. TEMPORARY
AND PERMANENT BRACINGS OF THE ROOF AND BUILDING
ARE THE RESPONSIBILITY OF THE PROJECT ENGINEER
AND TO CONFORM TO BCSI GUIDELINES.

CITY OF BRAMPTON
BUILDING DIVISION
REVIEWED
FEB 03 2018
BY
MARY FRETTE

All work shall conform to the Ontario
Building Code O. Reg. 332/12 as amended

19-440012-000 CORR

Architectural Drawing Info:
Date: JULY 23, 2018
Project number: 18012
Model: HEMLOCK 4



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

HANGER LEGEND:
▼ LUS24
■ LJS26DS
● HGUS26
✕ HGUS26-2

DESIGN CRITERIA
SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3 PSF
BOT CH. LL = 0 PSF
DL = 7 PSF
TOTAL LOAD = 33.3 PSF
SPACING = 24" O/C.
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR
SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010
THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

Model: **HEMLOCK 4 EL 1**
Customer: **GREENPARK**
Project: **MINNISALE HOMES**
Location: **BRAMPTON**
Date: **6/20/2018** Drawn by: **BB**

Lot 38L