



TOWN OF MILTON
PLANNING AND DEVELOPMENT
BUILDING PERMIT: 17-5233

BUILDING: REVIEWED
SCOTT SHERRIFFS
PLANS EXAMINER
APR 24, 2017
DATE

Neither the issuance of a permit nor carrying out of inspections by the Town of Milton relieves the owner from full responsibility for compliance with the provisions of the Ontario Building Code Act and the Ontario Building Code, both as amended, as well as other applicable statutes and regulations of the Province of Ontario, By-laws of the Region of Halton and Town of Milton

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5233
BUILDING DIVISION



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

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

GARAGE WALL PLATES
AT 9' 1 2/16" A.F.F.

PARTY WALLS TO BE
FRAMED ON SITE A.P.P.

HANGER LEGEND:

▼ LUS24 ■ LJS26DS
● HGUS26 × HGUS26-2

CONVENTIONAL FRAMING BY OTHERS

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

ALL CONVENTIONAL FRAMING TO CONFORM WITH PART 9 OF THE O.B.C.
ROOF RAFTERS THAT CROSS MEET OVER TRUSSES TO BE 2x4 S.P.F. @ 24" O/C WITH A 2x4 VERTICAL POST TO THE TRUSS UNDERNEATH EACH CROSS POINT. VERTICAL POST LONGER THAN 6' TO HAVE LATERAL BRACING SO THAT THE DISTANCE BETWEEN END POINT AND BETWEEN ROWS OF BRACING DOES NOT EXCEED 6'.

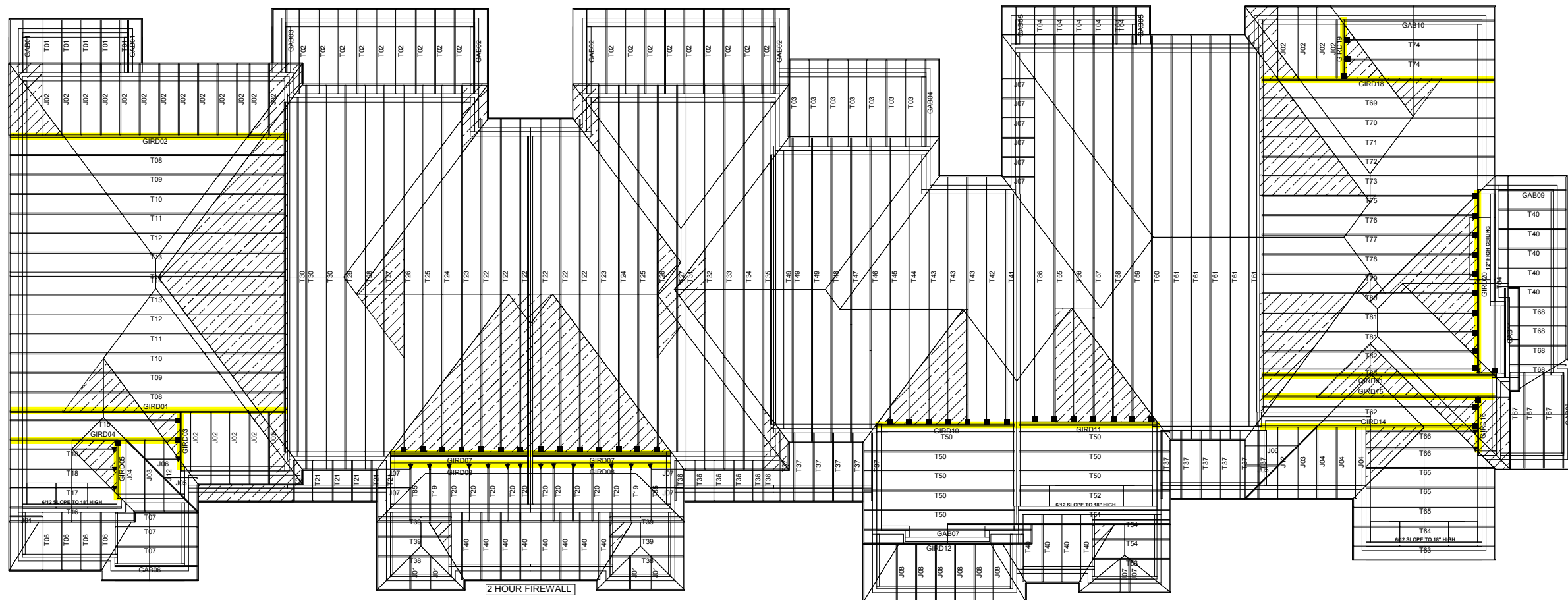
Model: **BLOCK 338**

Customer: **GREENPARK**

Project: **LECCO RIDGE**

Location: **MILTON**

Date: **3/13/2017** Drawn by: **BB**



IVY-7E
EL 3
338-1

IVY-3
EL 3
338-2

IVY-3
EL 3
338-3

IVY-1
EL 3
338-4

IVY-5
EL 3
338-5

IVY-11
EL 3
338-6

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

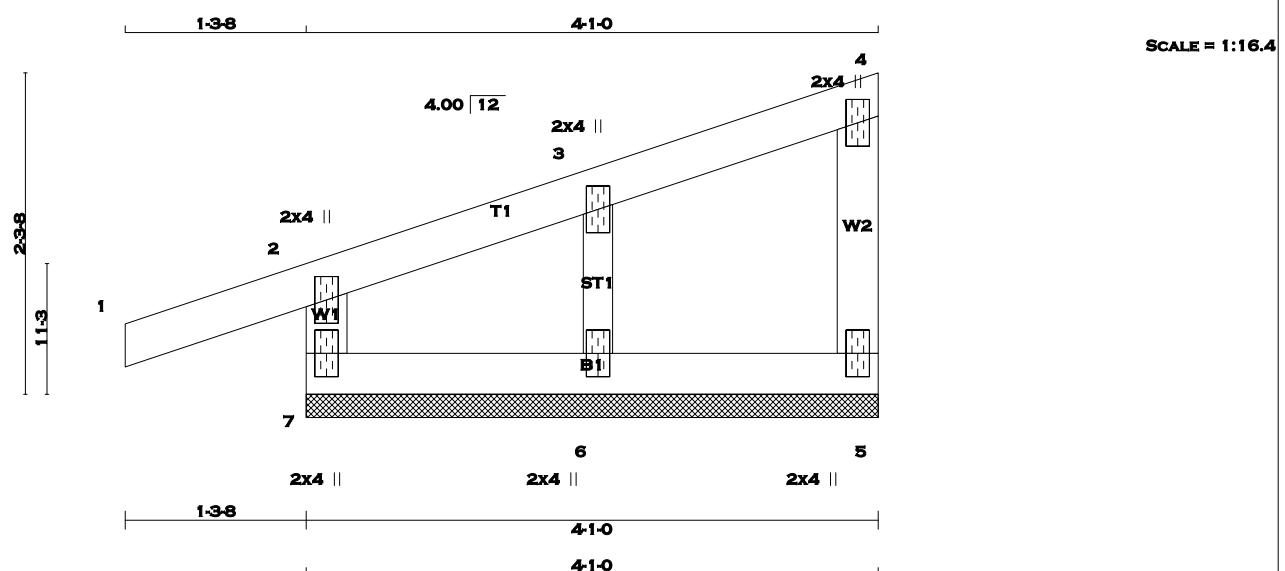
- The trusses are to be supported at the bearing points indicated and anchored to the supports where considered necessary by the designer of the overall structure
- Bearing sizes shown are the minimum required to prevent crushing of the truss members and do not necessarily take into account stability 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



LUMBER					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER		DESIGN CRITERIA	
N. L. G. A. RULES								
CHORDS		SIZE	LUMBER	DESCR.	BEARINGS		SPECIFIED LOADS:	
7 - 2	2x4	DRY	No.2	SPF	THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.		TOP CH. LL = 23.3 PSF	
1 - 4	2x4	DRY	No.2	SPF			DL = 3.0 PSF	
5 - 4	2x4	DRY	No.2	SPF			BOT CH. LL = 0.0 PSF	
7 - 5	2x4	DRY	No.2	SPF	THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.		DL = 7.0 PSF	
ALL WEBS		2x3	DRY	No.2	SPF	BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)		TOTAL LOAD = 33.3 PSF
ALL GABLE WEBS		2x3	DRY	No.2	SPF	BRACING		SPACING = 24.0 IN. C/C
DRY: SEASONED LUMBER.					TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.		THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF	
GABLE STUDS SPACED AT 2'-0" O.C.					MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.			

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

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

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. VERT. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. VERT. LOAD (LC)	UNBRACED LENGTH (FT)
FR-TO		FROM TO		FR-TO			
7-2	-186 / 0	0.0	0.0 0.01 (1)	7.81	6-3	-164 / 0	0.02 (1)
1-2	0 / 16	-77.3	-77.3 0.10 (1)	10.00			
2-3	-17 / 0	-77.3	-77.3 0.04 (1)	6.25			
3-4	-13 / 0	-77.3	-77.3 0.04 (1)	6.25			
5-4	-69 / 0	0.0	0.0 0.02 (1)	7.81			
7-6	0 / 16	-17.5	-17.5 0.02 (4)	10.00			
6-5	0 / 11	-17.5	-17.5 0.02 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

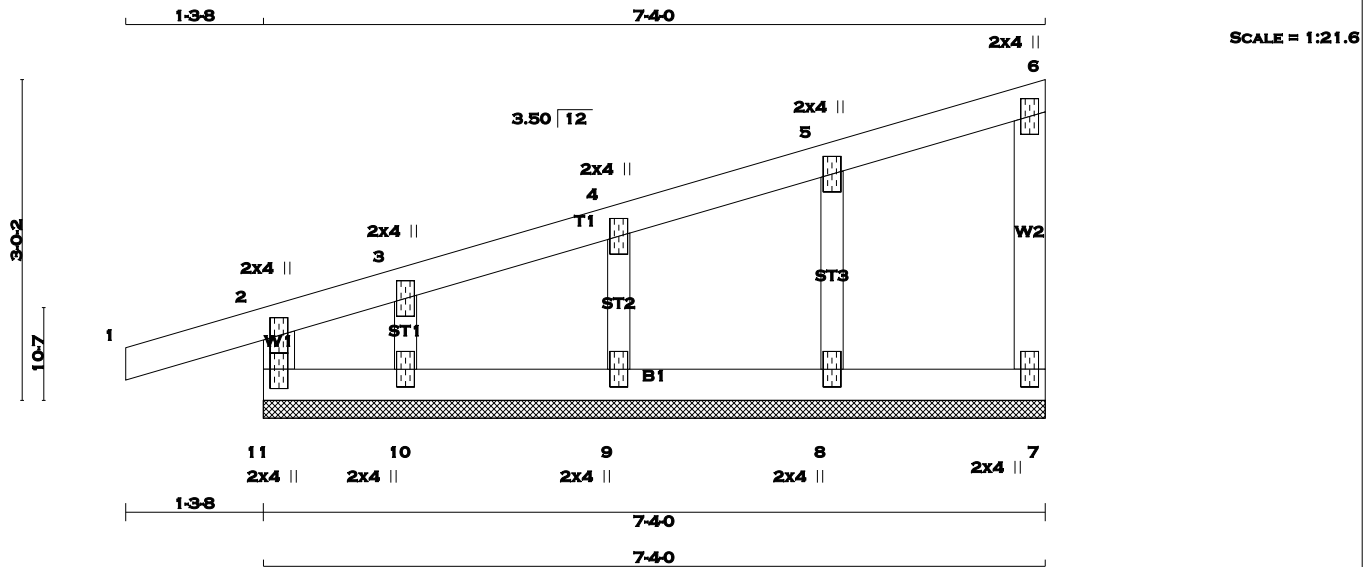
JSI GRIP= 0.10 (2) (INPUT = 0.90)
JSI METAL= 0.04 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 3 X 25 = 75 lb [M]

LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. 11 - 2 2x4 DRY No.2 SPF 1 - 6 2x4 DRY No.2 SPF 7 - 6 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. BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.					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 DESIGN ASSUMPTIONS - OVERHANG NOT TO BE ALTERED OR CUT OFF. (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD CSI: TC=0.10 (1-2:1) , BC=0.03 (10-11:1) , WB=0.03 (5-8:1) , SSI=0.08 (1-2:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 822 2284 1656 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.10 (2) (INPUT = 0.90) JSI METAL= 0.04 (2) (INPUT = 1.00)				
PLATES (table is in inches) JT TYPE PLATES W LEN Y X 2 TMV+p MT20 2.0 4.0 3, 4, 5 3 TMW+w MT20 2.0 4.0 6 TMV+p MT20 2.0 4.0 7 BMV1+p MT20 2.0 4.0 8, 9, 10 8 BMW1+w MT20 2.0 4.0 11 BMV1+p MT20 2.0 4.0 2.25 1.00 A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.					LOADING TOTAL LOAD CASES: (4) C H O R D S MEMB. MAX. FACTORED FORCE VERT. LOAD LC1 MAX MAX. MEMB. MAX. FACTORED FORCE MAX. WEBS (LBS) (PLF) CSI (LC) UNBRAC LENGTH FR-TO (LBS) CSI (LC) FR-TO FROM TO 11- 2 -192 / 0 0.0 0.0 0.03 (1) 7.81 8- 5 -164 / 0 0.03 (1) 1- 2 0 / 14 -77.3 -77.3 0.10 (1) 10.00 9- 4 -162 / 0 0.02 (1) 2- 3 -27 / 0 -77.3 -77.3 0.07 (1) 6.25 10- 3 -84 / 0 0.01 (1) 3- 4 -11 / 0 -77.3 -77.3 0.04 (1) 6.25 4- 5 -9 / 0 -77.3 -77.3 0.04 (1) 10.00 5- 6 -8 / 0 -77.3 -77.3 0.04 (1) 10.00 7- 6 -69 / 0 0.0 0.0 0.02 (1) 7.81 11-10 0 / 16 -17.5 -17.5 0.03 (1) 10.00 10- 9 0 / 13 -17.5 -17.5 0.01 (4) 10.00 9- 8 0 / 8 -17.5 -17.5 0.02 (4) 10.00 8- 7 0 / 5 -17.5 -17.5 0.02 (4) 10.00									



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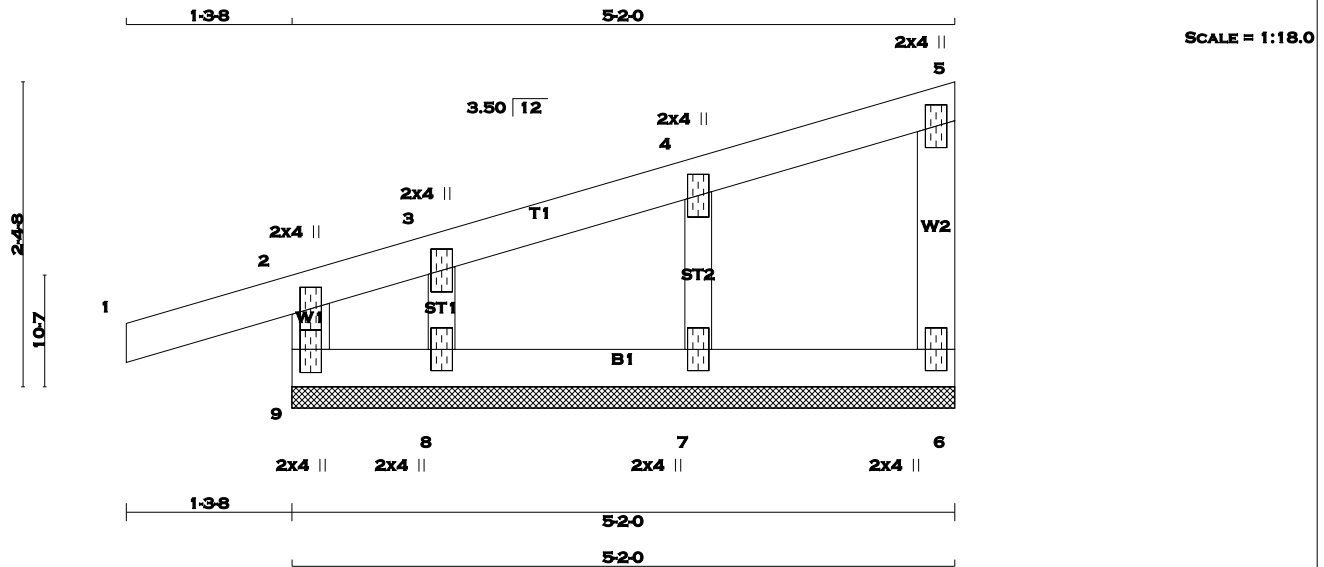




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TOTAL WEIGHT = 18 lb [M]

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
9 - 2	2x4	DRY	No.2	SPF
1 - 5	2x4	DRY	No.2	SPF
6 - 5	2x4	DRY	No.2	SPF
9 - 6	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
ALL GABLE WEBS	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				
GABLE STUDS SPACED AT	2'-0" O.C.			

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
3	TMW+w	MT20	2.0	4.0		
4	TMW+w	MT20	2.0	4.0		
5	TMV+p	MT20	2.0	4.0		
6	BMV1+p	MT20	2.0	4.0		
7	BMV1+w	MT20	2.0	4.0		
8	BMV1+w	MT20	2.0	4.0		
9	BMV1+p	MT20	2.0	4.0	2.25	1.00

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRAC LENGTH (FT)	FACTORED MAX. (LC)
FR-TO		FROM TO		FR-TO			
9-2	-190 / 0	0.0	0.0 0.03 (1)	7-81	7-4	-178 / 0	0.03 (1)
1-2	0 / 14	-77.3	-77.3 0.10 (1)	10.00	8-3	-69 / 0	0.01 (1)
2-3	-26 / 0	-77.3	-77.3 0.07 (1)	6.25			
3-4	-8 / 0	-77.3	-77.3 0.05 (1)	10.00			
4-5	-9 / 0	-77.3	-77.3 0.05 (1)	10.00			
6-5	-66 / 0	0.0	0.0 0.01 (1)	7.81			
9-8	0 / 14	-17.5	-17.5 0.03 (1)	10.00			
8-7	0 / 11	-17.5	-17.5 0.02 (4)	10.00			
7-6	0 / 6	-17.5	-17.5 0.02 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

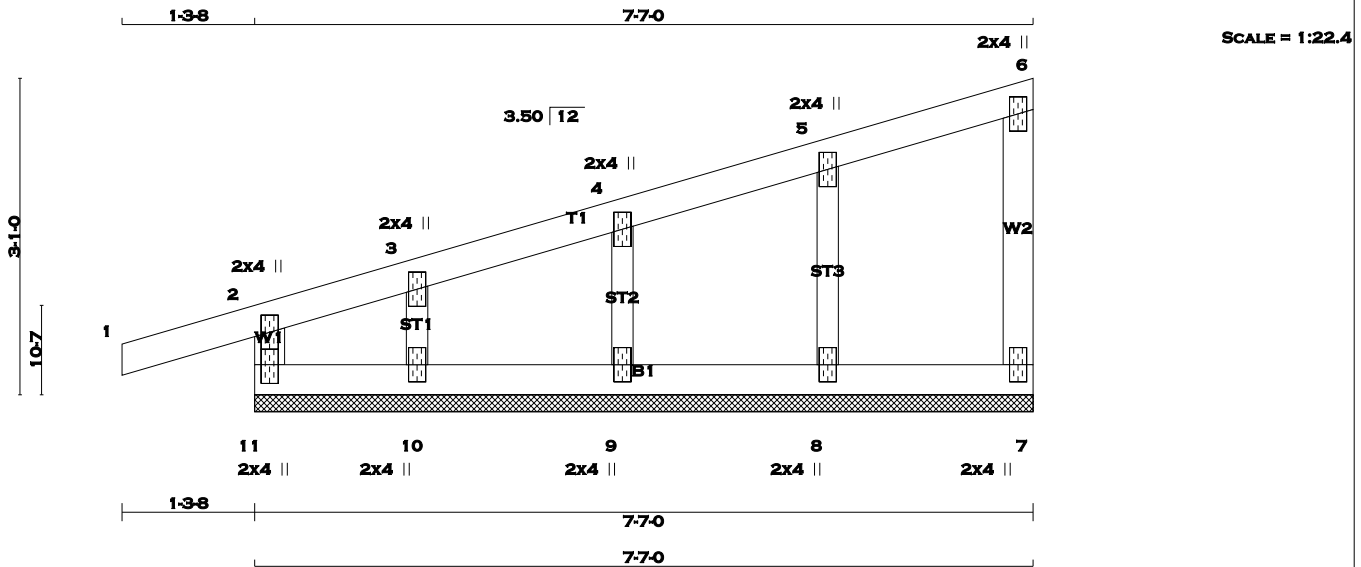
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TOTAL WEIGHT = 26 lb [M]

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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
3, 4, 5						
3	TMW+w	MT20	2.0	4.0		
6	TMV+p	MT20	2.0	4.0		
7	BMV1+p	MT20	2.0	4.0		
8, 9, 10						
8	BMW1+w	MT20	2.0	4.0		
11	BMV1+p	MT20	2.0	4.0	2.25	1.00

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

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

BEARINGS
THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.
THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)
BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.
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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 UNBRAC LENGTH	FACTORED MAX (LC)
FR-TO		FROM TO		FR-TO			
11-2	-195 / 0	0.0	0.0 0.03 (1)	7.81	8-5	-164 / 0	0.03 (1)
1-2	0 / 14	-77.3	-77.3 0.10 (1)	10.00	9-4	-161 / 0	0.02 (1)
2-3	-25 / 0	-77.3	-77.3 0.07 (1)	6.25	10-3	-100 / 0	0.01 (1)
3-4	-10 / 0	-77.3	-77.3 0.04 (1)	6.25			
4-5	-8 / 0	-77.3	-77.3 0.04 (1)	10.00			
5-6	-8 / 0	-77.3	-77.3 0.04 (1)	10.00			
7-6	-69 / 0	0.0	0.0 0.01 (1)	7.81			
11-10	0 / 16	-17.5	-17.5 0.03 (1)	10.00			
10-9	0 / 12	-17.5	-17.5 0.01 (4)	10.00			
9-8	0 / 8	-17.5	-17.5 0.02 (4)	10.00			
8-7	0 / 5	-17.5	-17.5 0.02 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
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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

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- CSA 086-09
- TPIC 2011

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

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

CSI: TC=0.10 (1-2:1) , BC=0.03 (10-11:1) , WB=0.03 (5-8:1) , SSI=0.08 (1-2:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

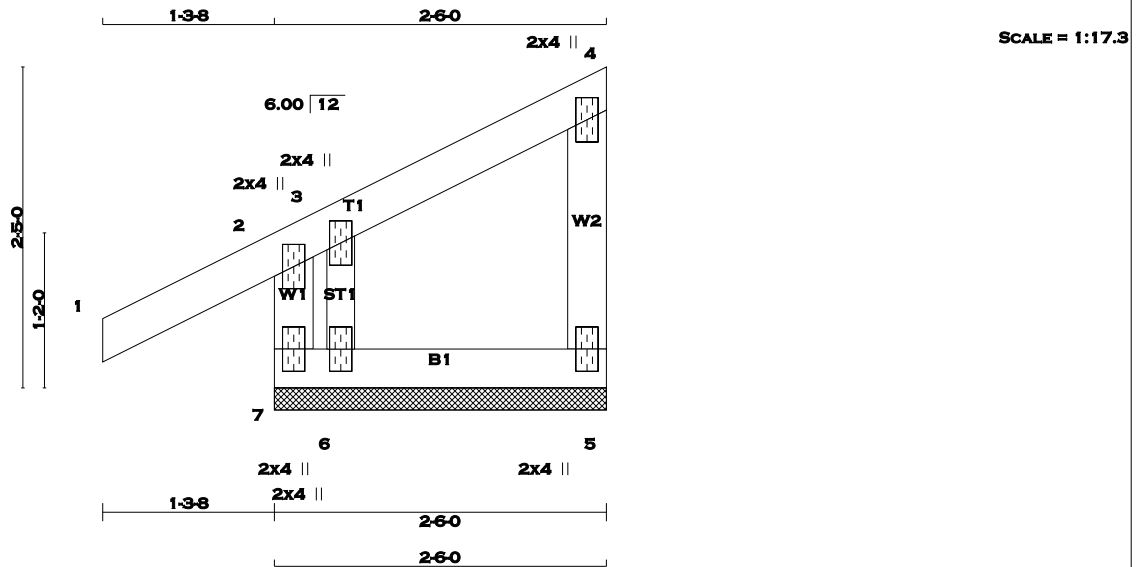
JSI GRIP= 0.11 (2) (INPUT = 0.90)
JSI METAL= 0.04 (2) (INPUT = 1.00)



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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMV+p	MT20	2.0	4.0	
3	TMV+w	MT20	2.0	4.0	
4	TMV+p	MT20	2.0	4.0	
5	BMV1+p	MT20	2.0	4.0	
6	BMV1+w	MT20	2.0	4.0	
7	BMV1+p	MT20	2.0	4.0	
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.					

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

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

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

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

LOADING									
TOTAL LOAD CASES: (5)									
C H O R D S					W E B S				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED UNBRAC LENGTH	FR-TO	MAX CSI (LC)
FR-TO		FROM TO			FR-TO				
7-2	-218 / 0	0.0	0.0	0.02 (5)	7.81	6-3	-16 / 103	0.02 (5)	
1-2	0 / 23	-77.3	-77.3	0.10 (1)	10.00				
2-3	-48 / 0	-77.3	-77.3	0.09 (1)	6.25				
3-4	-12 / 0	-77.3	-77.3	0.03 (1)	6.25				
5-4	-70 / 0	0.0	0.0	0.02 (1)	7.81				
7-6	-7 / 9	-17.5	-17.5	0.02 (1)	10.00				
6-5	-1 / 8	-17.5	-17.5	0.01 (4)	10.00				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C/C

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

CSI: TC=0.10 (1-2:1) , BC=0.02 (6-7:1) , WB=0.02 (3-6:5) , SSI=0.08 (2-3:5)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.13 (2) (INPUT = 0.90)

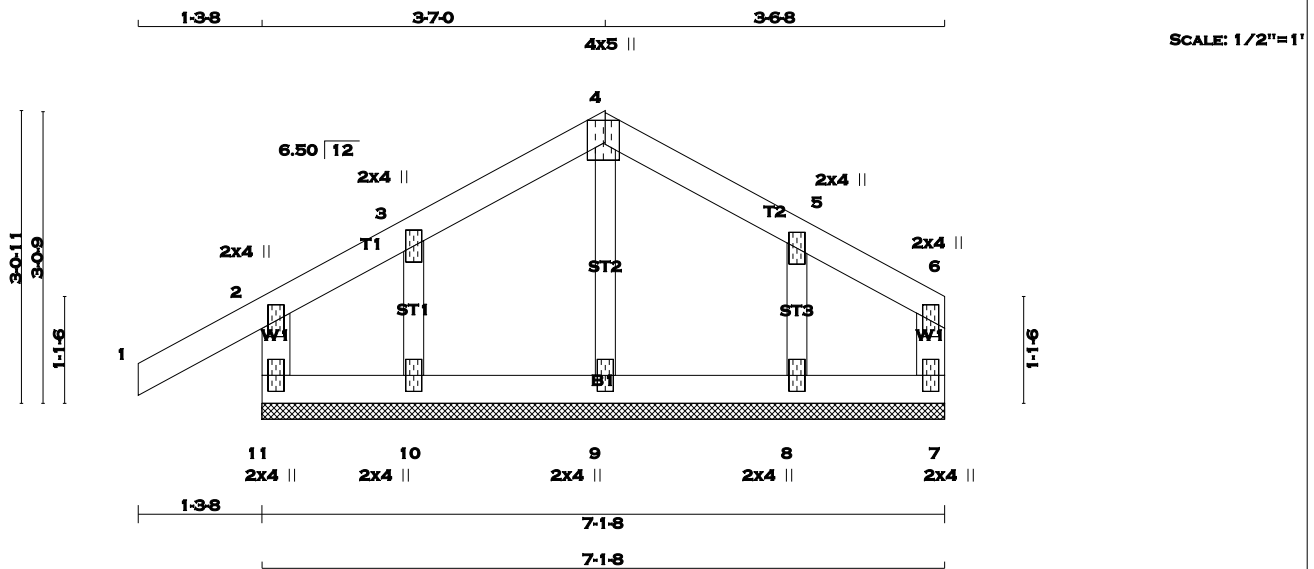
JSI METAL= 0.05 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 25 lb [M]

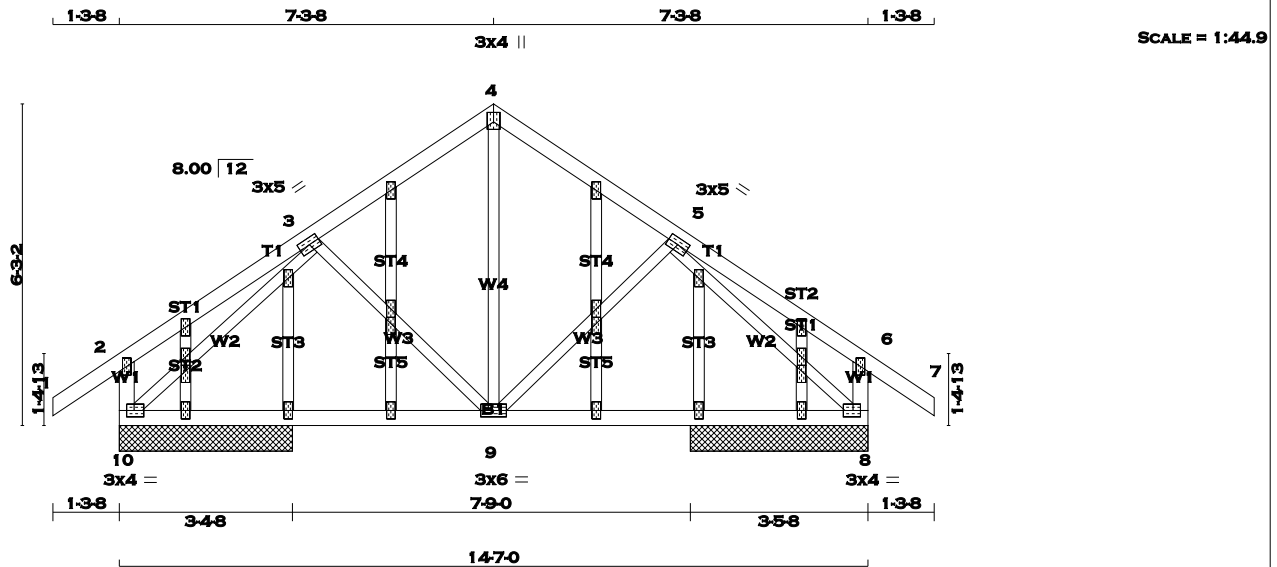
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. 11- 2 2x4 DRY No.2 SPF 1 - 4 2x4 DRY No.2 SPF 4 - 6 2x4 DRY No.2 SPF 7 - 6 2x4 DRY No.2 SPF 11- 7 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF ALL GABLE WEBS 2x3 DRY No.2 SPF DRY: SEASONED LUMBER. GABLE STUDS SPACED AT 2-0-0 OC.					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS. THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE. BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. LOADING TOTAL LOAD CASES: (4)					DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.0 PSF TOTAL LOAD = 33.3 PSF SPACING = 24.0 IN./C/C THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014 - CSA 086-09 - TPIC 2011 DESIGN ASSUMPTIONS -OVERHANG NOT TO BE ALTERED OR CUT OFF. (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD CSI: TC=0.10 (1-2:1) , BC=0.02 (10-11:1) , WB=0.03 (4-9:1) , SSI=0.07 (1-2:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) 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= 0.11 (2) (INPUT = 0.90) JSI METAL= 0.05 (4) (INPUT = 1.00)				
PLATES (table is in inches) JT TYPE PLATES W LEN Y X 2 TMV+p MT20 2.0 4.0 3 TMW+w MT20 2.0 4.0 4 TTW+p MT20 4.0 5.0 Edge 1.75 5 TMW+w MT20 2.0 4.0 6 TMV+p MT20 2.0 4.0 7 BMV1+p MT20 2.0 4.0 8, 9, 10 8 BMW1+w MT20 2.0 4.0 11 BMV1+p MT20 2.0 4.0 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.					CHORDS MAX. FACTORED MEMB. FORCE VERT. LOAD LC1 MAX MAX. MEMB. MAX. FACTORED (LBS) (PLF) CSI (LC) UNBRAC LENGTH FR-TO FR-TO 11- 2 -184 / 0 0.0 0.0 0.03 (1) 7.81 9- 4 -183 / 0 0.03 (1) 1- 2 0 / 25 -77.3 -77.3 0.10 (1) 10.00 10- 3 -105 / 0 0.02 (1) 2- 3 -3 / 0 -77.3 -77.3 0.07 (1) 10.00 8- 5 -147 / 0 0.02 (1) 3- 4 0 / 17 -77.3 -77.3 0.04 (1) 10.00 4- 5 0 / 15 -77.3 -77.3 0.04 (1) 10.00 5- 6 0 / 14 -77.3 -77.3 0.03 (1) 10.00 7- 6 -38 / 0 0.0 0.0 0.01 (1) 7.81 11-10 -7 / 1 -17.5 -17.5 0.02 (1) 10.00 10- 9 -12 / 0 -17.5 -17.5 0.01 (4) 6.25 9- 8 -12 / 0 -17.5 -17.5 0.01 (4) 6.25 8- 7 -5 / 1 -17.5 -17.5 0.01 (4) 10.00									



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IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 77 lb
[M][F]

LUMBER				DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	
1 - 4	2x4	DRY	No.2	SPF
4 - 7	2x4	DRY	No.2	SPF
10 - 2	2x4	DRY	No.2	SPF
8 - 6	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF
ALL WEBS 2x3 DRY No.2 EXCEPT				SPF
ALL GABLE WEBS 2x3 DRY No.2 DRY: SEASONED LUMBER.				SPF
GABLE STUDS SPACED AT 2-0-0 OC.				

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

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	GROSS REACTION	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	BRG
10	798	0	798	0	0	3-4-8	3-4-8	3-4-8	
8	798	0	798	0	0	3-5-8	3-5-8	3-5-8	

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

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

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

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

LOADING		TOTAL LOAD CASES: (4)	
CHORDS		MEMB.	
MAX. FACTORED	FACTORED	MAX. FACTORED	FACTORED
FORCE (LBS)	VERT. LOAD (PLF)	FORCE (LBS)	FORCE (LBS)
FR-TO	FROM TO	FR-TO	FROM TO
1-2	0 / 29	-77.3	-77.3 0.10 (1)
2-3	0 / 18	-77.3	-77.3 0.16 (1)
3-4	-550 / 0	-77.3	-77.3 0.13 (1)
4-5	-550 / 0	-77.3	-77.3 0.13 (1)
5-6	0 / 18	-77.3	-77.3 0.16 (1)
6-7	0 / 29	-77.3	-77.3 0.10 (1)
10-2	-217 / 0	0.0	0.0 0.02 (1)
8-6	-217 / 0	0.0	0.0 0.02 (1)
10-9	0 / 554	-17.5	-17.5 0.30 (4)
9-8	0 / 554	-17.5	-17.5 0.30 (4)

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

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

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

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

CSI: TC=0.16 (5-6:1) , BC=0.30 (8-9:4) , WB=0.32 (5-8:1) , SSI=0.11 (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.

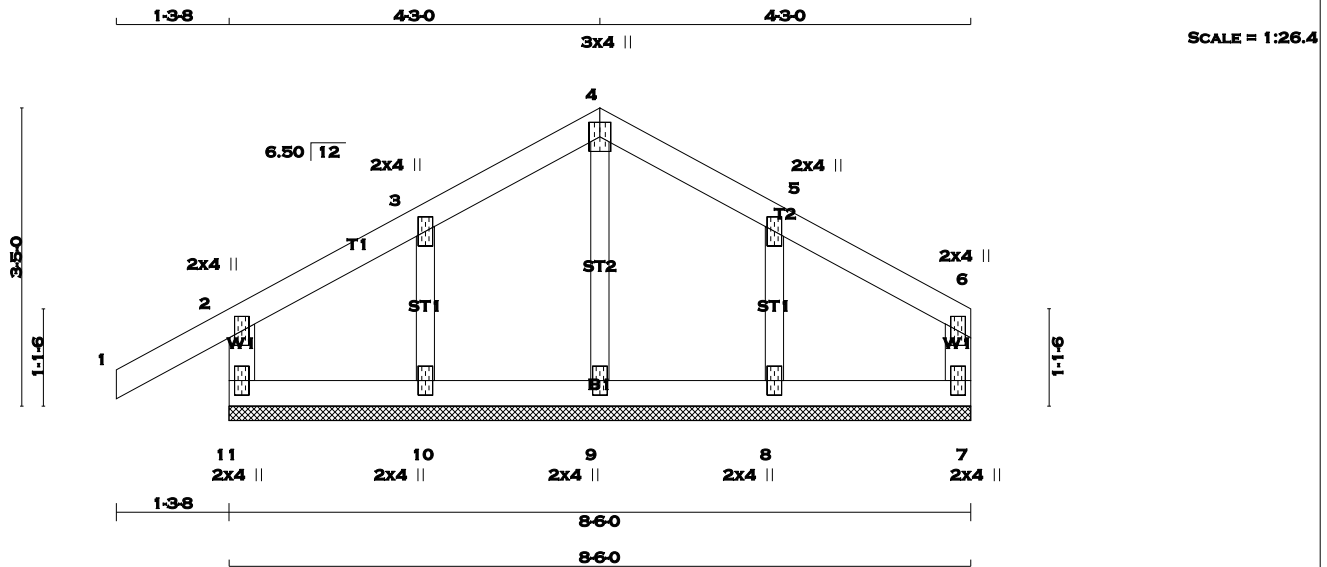
JSI GRIP= 0.85 (8) (INPUT = 0.90)
JSI METAL= 0.22 (5) (INPUT = 1.00)



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TOTAL WEIGHT = 29 lb [M]

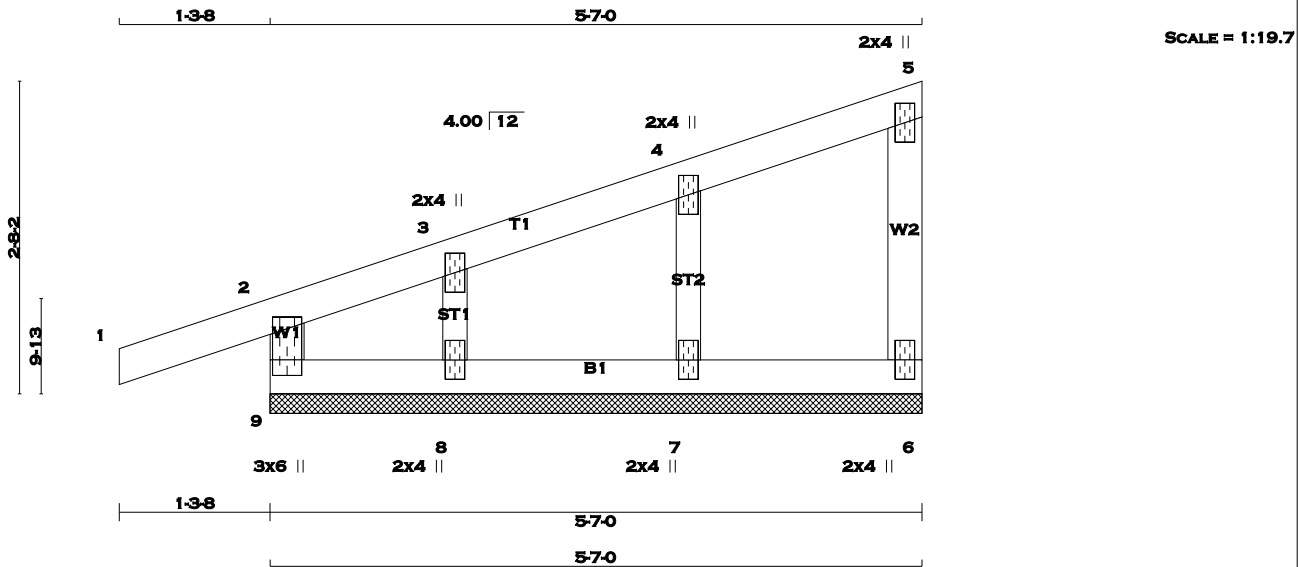
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. 11- 2 2x4 DRY No.2 SPF 1 - 4 2x4 DRY No.2 SPF 4 - 6 2x4 DRY No.2 SPF 7 - 6 2x4 DRY No.2 SPF 11- 7 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF ALL GABLE WEBS 2x3 DRY No.2 SPF DRY: SEASONED LUMBER. GABLE STUDS SPACED AT 2-0-0 OC.					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS. THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE. BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED. LOADING TOTAL LOAD CASES: (4)					DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.0 PSF TOTAL LOAD = 33.3 PSF SPACING = 24.0 IN. C/C THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014 - CSA 086-09 - TPIC 2011 DESIGN ASSUMPTIONS -OVERHANG NOT TO BE ALTERED OR CUT OFF. (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD CSI: TC=0.10 (1-2:1) , BC=0.02 (7-8:4) , WB=0.03 (5-8:1) , SSI=0.07 (1-2:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 822 2284 1656 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.15 (2) (INPUT = 0.90) JSI METAL= 0.06 (2) (INPUT = 1.00)																																																																																																																							
PLATES (table is in inches) JT TYPE PLATES W LEN Y X 2 TMV+p MT20 2.0 4.0 3 TMW+w MT20 2.0 4.0 4 TTW+p MT20 3.0 4.0 5 TMW+w MT20 2.0 4.0 6 TMV+p MT20 2.0 4.0 7 BMV1+p MT20 2.0 4.0 8, 9, 10 8 BMW1+w MT20 2.0 4.0 11 BMV1+p MT20 2.0 4.0 A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.					<table><tr><th colspan="4">CHORDS</th><th colspan="4">WEBS</th></tr><tr><th colspan="2">MAX. FACTORED</th><th colspan="2">FACTORED</th><th colspan="2">MAX. FACTORED</th><th colspan="2">FACTORED</th></tr><tr><th>MEMB.</th><th>FORCE (LBS)</th><th>VERT. LOAD (PLF)</th><th>LC1 MAX CSI (LC)</th><th>MEMB.</th><th>FORCE (LBS)</th><th>MAX UNBRAC LENGTH</th><th>FR-TO MAX CSI (LC)</th></tr><tr><td>FR-TO</td><td></td><td>FROM TO</td><td></td><td>FR-TO</td><td></td><td></td><td></td></tr><tr><td>11- 2</td><td>-208 / 0</td><td>0.0</td><td>0.0 0.02 (1)</td><td>7.81</td><td>9- 4</td><td>-128 / 0</td><td>0.03 (1)</td></tr><tr><td>1- 2</td><td>0 / 25</td><td>-77.3</td><td>-77.3 0.10 (1)</td><td>10.00</td><td>10- 3</td><td>-161 / 0</td><td>0.02 (1)</td></tr><tr><td>2- 3</td><td>-37 / 0</td><td>-77.3</td><td>-77.3 0.04 (1)</td><td>6.25</td><td>8- 5</td><td>-169 / 0</td><td>0.03 (1)</td></tr><tr><td>3- 4</td><td>-30 / 0</td><td>-77.3</td><td>-77.3 0.04 (1)</td><td>6.25</td><td></td><td></td><td></td></tr><tr><td>4- 5</td><td>-31 / 0</td><td>-77.3</td><td>-77.3 0.04 (1)</td><td>6.25</td><td></td><td></td><td></td></tr><tr><td>5- 6</td><td>-34 / 0</td><td>-77.3</td><td>-77.3 0.04 (1)</td><td>6.25</td><td></td><td></td><td></td></tr><tr><td>7- 6</td><td>-97 / 0</td><td>0.0</td><td>0.0 0.03 (1)</td><td>7.81</td><td></td><td></td><td></td></tr><tr><td>11-10</td><td>0 / 31</td><td>-17.5</td><td>-17.5 0.02 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>10- 9</td><td>0 / 26</td><td>-17.5</td><td>-17.5 0.02 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>9- 8</td><td>0 / 26</td><td>-17.5</td><td>-17.5 0.02 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>8- 7</td><td>0 / 32</td><td>-17.5</td><td>-17.5 0.02 (4)</td><td>10.00</td><td></td><td></td><td></td></tr></table>					CHORDS				WEBS				MAX. FACTORED		FACTORED		MAX. FACTORED		FACTORED		MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MEMB.	FORCE (LBS)	MAX UNBRAC LENGTH	FR-TO MAX CSI (LC)	FR-TO		FROM TO		FR-TO				11- 2	-208 / 0	0.0	0.0 0.02 (1)	7.81	9- 4	-128 / 0	0.03 (1)	1- 2	0 / 25	-77.3	-77.3 0.10 (1)	10.00	10- 3	-161 / 0	0.02 (1)	2- 3	-37 / 0	-77.3	-77.3 0.04 (1)	6.25	8- 5	-169 / 0	0.03 (1)	3- 4	-30 / 0	-77.3	-77.3 0.04 (1)	6.25				4- 5	-31 / 0	-77.3	-77.3 0.04 (1)	6.25				5- 6	-34 / 0	-77.3	-77.3 0.04 (1)	6.25				7- 6	-97 / 0	0.0	0.0 0.03 (1)	7.81				11-10	0 / 31	-17.5	-17.5 0.02 (4)	10.00				10- 9	0 / 26	-17.5	-17.5 0.02 (4)	10.00				9- 8	0 / 26	-17.5	-17.5 0.02 (4)	10.00				8- 7	0 / 32	-17.5	-17.5 0.02 (4)	10.00			
CHORDS				WEBS																																																																																																																													
MAX. FACTORED		FACTORED		MAX. FACTORED		FACTORED																																																																																																																											
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MEMB.	FORCE (LBS)	MAX UNBRAC LENGTH	FR-TO MAX CSI (LC)																																																																																																																										
FR-TO		FROM TO		FR-TO																																																																																																																													
11- 2	-208 / 0	0.0	0.0 0.02 (1)	7.81	9- 4	-128 / 0	0.03 (1)																																																																																																																										
1- 2	0 / 25	-77.3	-77.3 0.10 (1)	10.00	10- 3	-161 / 0	0.02 (1)																																																																																																																										
2- 3	-37 / 0	-77.3	-77.3 0.04 (1)	6.25	8- 5	-169 / 0	0.03 (1)																																																																																																																										
3- 4	-30 / 0	-77.3	-77.3 0.04 (1)	6.25																																																																																																																													
4- 5	-31 / 0	-77.3	-77.3 0.04 (1)	6.25																																																																																																																													
5- 6	-34 / 0	-77.3	-77.3 0.04 (1)	6.25																																																																																																																													
7- 6	-97 / 0	0.0	0.0 0.03 (1)	7.81																																																																																																																													
11-10	0 / 31	-17.5	-17.5 0.02 (4)	10.00																																																																																																																													
10- 9	0 / 26	-17.5	-17.5 0.02 (4)	10.00																																																																																																																													
9- 8	0 / 26	-17.5	-17.5 0.02 (4)	10.00																																																																																																																													
8- 7	0 / 32	-17.5	-17.5 0.02 (4)	10.00																																																																																																																													



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CONTAINS SPECIFICATIONS AND CRITERIA USED
IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 19 lb [M]

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

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

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

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

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

LOADING

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 (LC)
FR-TO		FROM TO		FR-TO			
9-2	-195 / 0	0.0	0.0 0.03 (1)	7-8	-177 / 0	7.81	0.03 (1)
1-2	0 / 16	-77.3	-77.3 0.10 (1)	8-3	-97 / 0	10.00	0.01 (1)
2-3	-24 / 0	-77.3	-77.3 0.07 (1)			6.25	
3-4	-7 / 0	-77.3	-77.3 0.04 (1)			10.00	
4-5	-9 / 0	-77.3	-77.3 0.04 (1)			10.00	
6-5	-66 / 0	0.0	0.0 0.01 (1)			7.81	
9-8	0 / 15	-17.5	-17.5 0.03 (1)			10.00	
8-7	0 / 10	-17.5	-17.5 0.02 (4)			10.00	
7-6	0 / 5	-17.5	-17.5 0.02 (4)			10.00	

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

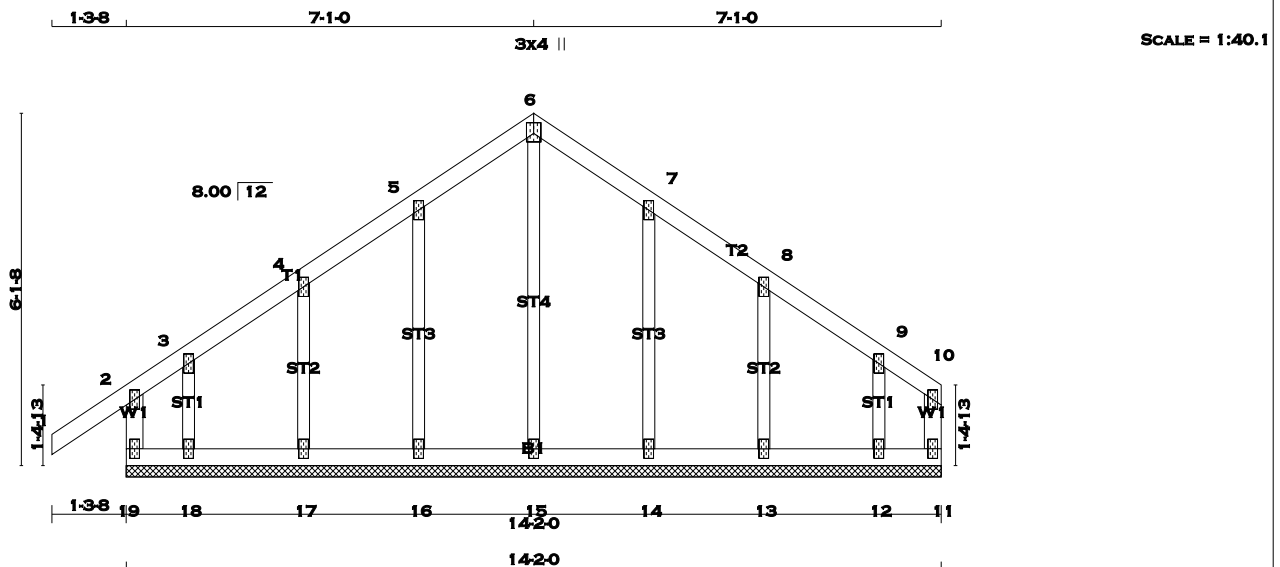
JSI GRIP= 0.17 (9) (INPUT = 0.90)
JSI METAL= 0.03 (7) (INPUT = 1.00)



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TOTAL WEIGHT = 59 lb [M]

LUMBER				DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	
19 - 2	2x4	DRY	No.2	SPF
1 - 6	2x4	DRY	No.2	SPF
6 - 10	2x4	DRY	No.2	SPF
11 - 10	2x4	DRY	No.2	SPF
19 - 11	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
ALL GABLE WEBS	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				
GABLE STUDS SPACED AT 2-0-0 OC.				

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.

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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

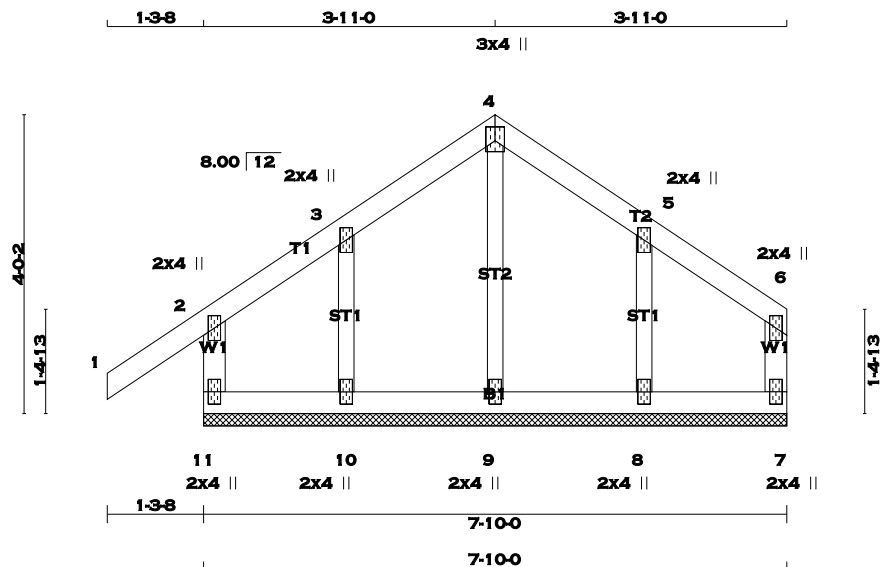
CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC2 (LC)
FR-TO		FROM TO			FR-TO		
19-2	-191 / 0	0.0	0.0 0.02 (1)	7.81	15-6	-174 / 0	0.10 (1)
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	16-5	-155 / 0	0.05 (1)
2-3	-25 / 0	-77.3	-77.3 0.08 (1)	6.25	17-4	-161 / 0	0.03 (1)
3-4	0 / 8	-77.3	-77.3 0.04 (1)	10.00	18-3	-60 / 0	0.01 (1)
4-5	0 / 8	-77.3	-77.3 0.04 (1)	10.00	14-7	-157 / 0	0.05 (1)
5-6	0 / 12	-77.3	-77.3 0.04 (1)	10.00	13-8	-156 / 0	0.03 (1)
6-7	0 / 12	-77.3	-77.3 0.04 (1)	10.00	12-9	-125 / 0	0.02 (1)
7-8	0 / 9	-77.3	-77.3 0.04 (1)	10.00			
8-9	0 / 6	-77.3	-77.3 0.04 (1)	10.00			
9-10	0 / 6	-77.3	-77.3 0.03 (1)	10.00			
11-10	-24 / 0	0.0	0.0 0.00 (1)	7.81			
19-18	0 / 0	-17.5	-17.5 0.02 (1)	10.00			
18-17	-3 / 0	-17.5	-17.5 0.01 (4)	10.00			
17-16	-7 / 0	-17.5	-17.5 0.01 (4)	10.00			
16-15	-10 / 0	-17.5	-17.5 0.01 (4)	6.25			
15-14	-10 / 0	-17.5	-17.5 0.01 (4)	6.25			
14-13	-7 / 0	-17.5	-17.5 0.01 (4)	10.00			
13-12	-3 / 0	-17.5	-17.5 0.01 (4)	10.00			
12-11	0 / 3	-17.5	-17.5 0.01 (4)	10.00			



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TOTAL WEIGHT = 30 lb [M]

LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
11 - 2	2x4	DRY	No.2		SPF
1 - 4	2x4	DRY	No.2		SPF
4 - 6	2x4	DRY	No.2		SPF
7 - 6	2x4	DRY	No.2		SPF
11 - 7	2x4	DRY	No.2		SPF
ALL WEBS 2x3 DRY No.2					SPF
ALL GABLE WEBS 2x3 DRY No.2					SPF
DRY: SEASONED LUMBER.					
GABLE STUDS SPACED AT 2'-0-0 OC.					

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

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

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

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

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) 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.

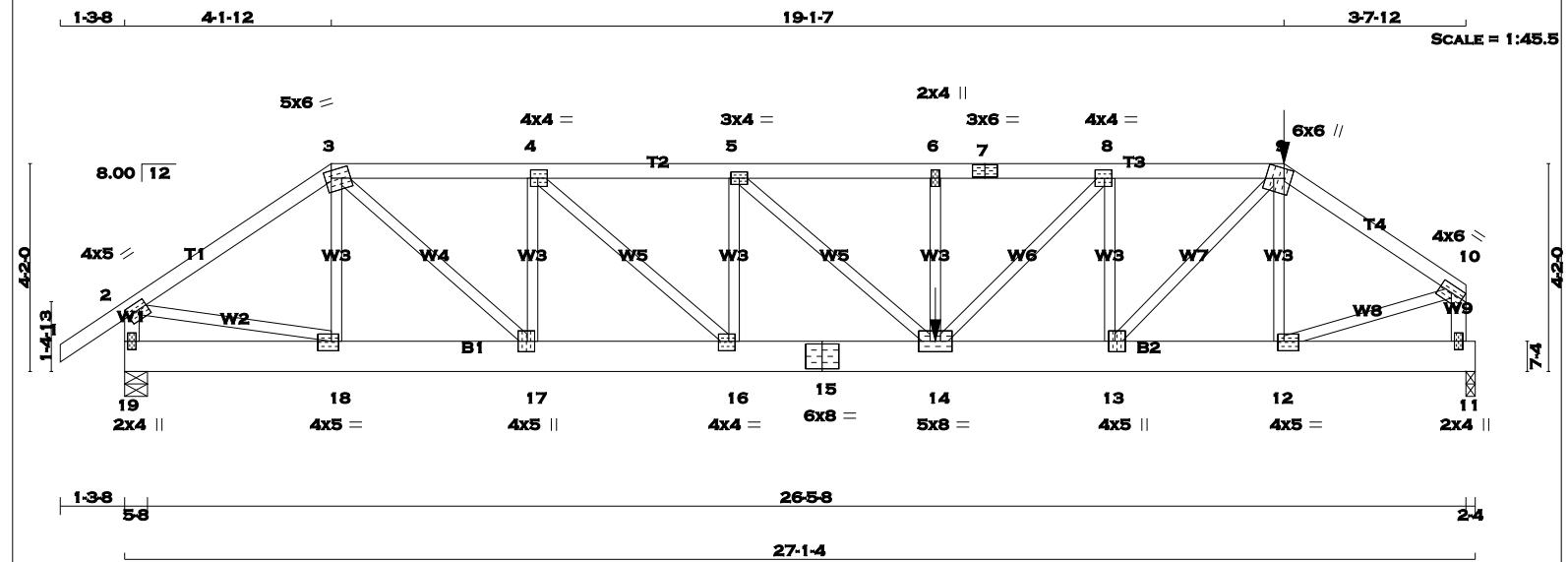
JSI GRIP= 0.13 (2) (INPUT = 0.90)
JSI METAL= 0.07 (4) (INPUT = 1.00)



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LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2
3 - 7	2x4	DRY	No.2
7 - 9	2x4	DRY	No.2
9 - 10	2x4	DRY	No.2
19 - 2	2x4	DRY	No.2
11 - 10	2x4	DRY	No.2
19 - 15	2x8	DRY	No.2
15 - 11	2x8	DRY	No.2

ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
1-3	12	TOP
3-7	12	SIDE(34.2)
7-9	12	SIDE(34.2)
9-10	12	SIDE(0.0)
19-2	12	TOP
11-10	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
19-15	12	TOP
15-11	12	SIDE(8.7)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMVW-t	MT20	4.0	5.0	1.75 2.00



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
19	2316	0	2316	0	5-8
11	3087	0	3087	0	2-4

UNFACTORED REACTIONS						
JT	1ST LCASE	MAX./MIN.	COMPONENT	REACTIONS		
19	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
19	1623	1150 / 0	0 / 0	0 / 0	0 / 0	473 / 0
11	2168	1511 / 0	0 / 0	0 / 0	0 / 0	657 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 19, 11

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.73 FT.
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)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO	TO	FR-TO	TO
1-2	0 / 29	10-00	18-3 -388 / 0
2-3	-2734 / 0	5-36	3-17 0 / 2378
3-4	-4013 / 0	4-63	17-4 -1578 / 0
4-5	-5365 / 0	4-05	4-16 0 / 1837
5-6	-6162 / 0	3-81	16-5 -1043 / 0
6-7	-6162 / 0	3-73	5-14 0 / 1084
7-8	-6162 / 0	3-73	14-6 -377 / 0
8-9	-4889 / 0	4-18	14-8 0 / 1858
9-10	-3463 / 0	4-91	13-8 -1921 / 0
19-2	-2282 / 0	7-41	13-9 0 / 2964
11-10	-3034 / 0	6-63	12-9 -814 / 0
		2-18	0 / 2324
		12-10	0 / 3033
19-18	0 / 0	-17.5	-17.5 0.01 (4)
18-17	0 / 2260	-17.5	-17.5 0.15 (1)
17-16	0 / 4013	-17.5	-17.5 0.25 (1)
16-15	0 / 5365	-17.5	-17.5 0.42 (1)
15-14	0 / 5365	-17.5	-17.5 0.42 (1)
14-13	0 / 4889	-33.0	-33.0 0.40 (1)
13-12	0 / 2853	-33.0	-33.0 0.17 (1)
12-11	0 / 0	-33.0	-33.0 0.02 (4)

FACTORED CONCENTRATED LOADS (LBS)					
JT	LOC.	LC1	MAX-	MAX+	FACE DIR.
9	23-3-4	-219	-219	---	FRONT VERT
14	16-3-4	-1881	-1881	---	FRONT VERT

DESIGN CRITERIA

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

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

SPACING = 24.0 IN. C/C

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

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

*** NON STANDARD GIRDER ***
ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.90")
CALCULATED VERT. DEFL.(LL) = L/999 (0.12")
ALLOWABLE DEFL.(TL)= L/360 (0.90")
CALCULATED VERT. DEFL.(TL) = L/999 (0.20")

CSI: TC=0.28 (6-8:1), BC=0.42 (14-16:1), WB=0.38 (10-12:1), SSI=0.13 (8-9:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL = 0.250 inches

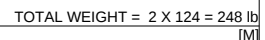
PLATE ROTATION TOL = 0.5 degrees

CONTINUED ON PAGE 2

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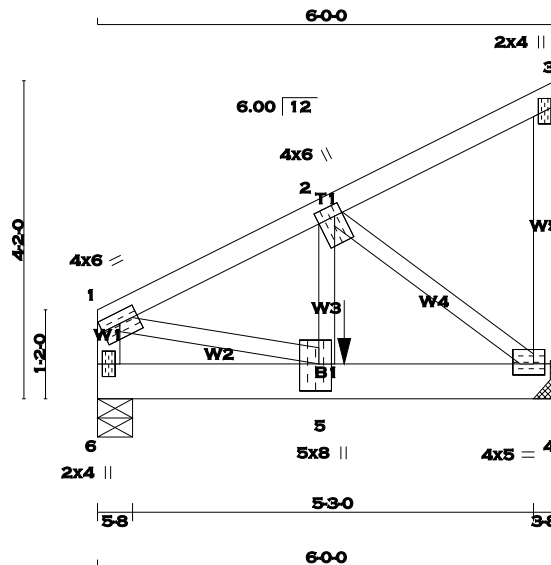


JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	5.0	1.50	2.00

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
3	4-1-13	-241	-241	---	FRONT	VERT	TOTAL
8	23-3-4	-223	-223	---	FRONT	VERT	TOTAL

JSI GRIP= 0.89 (16) (INPUT = 0.90)
JSI METAL= 0.45 (2) (INPUT = 1.00)





SCALE = 1:30.2

TOTAL WEIGHT = 29 lb

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

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	4.0	6.0	1.75	Edge
2	TMVW+t	MT20	4.0	6.0	1.75	1.25
3	TMV+p	MT20	2.0	4.0		
4	BMVW1-t	MT20	4.0	5.0	1.75	1.75
5	BMVW+t	MT20	5.0	8.0	4.25	2.00
6	BMV1+p	MT20	2.0	4.0		

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

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

HANGERS NOTES

- 1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 1584.5 lbs FACTORED DOWN AT 3-2-12 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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
4	1882	0	1882	0	0	HANGER BY OTHERS	
6	1535	0	1535	0	0	MIN. SEAT SIZE: 3-8	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS		PERM.LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	MIN. SEAT SIZE: 3-8		
4	1320	924 / 0	0 / 0	0 / 0	0 / 0	0 / 0	397 / 0	0 / 0	0 / 0	0 / 0	0 / 0
6	1077	753 / 0	0 / 0	0 / 0	0 / 0	0 / 0	324 / 0	0 / 0	0 / 0	0 / 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 = 4.75 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		MAX.		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. LC1 (LC)	MAX. UNBRACED LENGTH	FR-TO	MEMB.	FORCE (LBS)	MAX. LC1 (LC)	MAX. UNBRACED LENGTH
1-2	-1867 / 0	-77.3	-77.3 0.15 (1)	4.75	5-2	0 / 1845	0.46 (1)		
2-3	-7 / 0	-77.3	-77.3 0.10 (1)	10.00	2-4	-2104 / 0	0.51 (1)		
4-3	-100 / 0	0.0	0.0 0.03 (1)	7.81	1-5	0 / 1731	0.43 (1)		
6-1	-1371 / 0	0.0	0.0 0.15 (1)	6.90					
6-5	0 / 0	-112.3	-112.3 0.09 (1)	10.00					
5-4	0 / 1676	-343.5	-343.5 0.50 (1)	10.00					

FACTORED CONCENTRATED LOADS (LBS)		FACE		DIR.		TYPE	
JT	LOC.	LC1	MAX-	MAX+	FRONT	VERT	TOTAL
5	3-2-12	-1584	-1584	---			

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 = 0-0
START SPAN CARRIED = 6-0-0
END DISTANCE = 3-2-12
END SPAN CARRIED = 6-0-0
END WALL WIDTH = 0-0
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

GIRDER TYPE: CStdGirder
START DISTANCE = 3-2-12
START SPAN CARRIED = 16-2-8
END DISTANCE = 6-0-0
END SPAN CARRIED = 16-2-8
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

*** NON STANDARD GIRDER ***
ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.20")
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=0.15 (1-6:1) , BC=0.50 (4-5:1) , WB=0.51 (2-4:1) , SSI=0.34 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

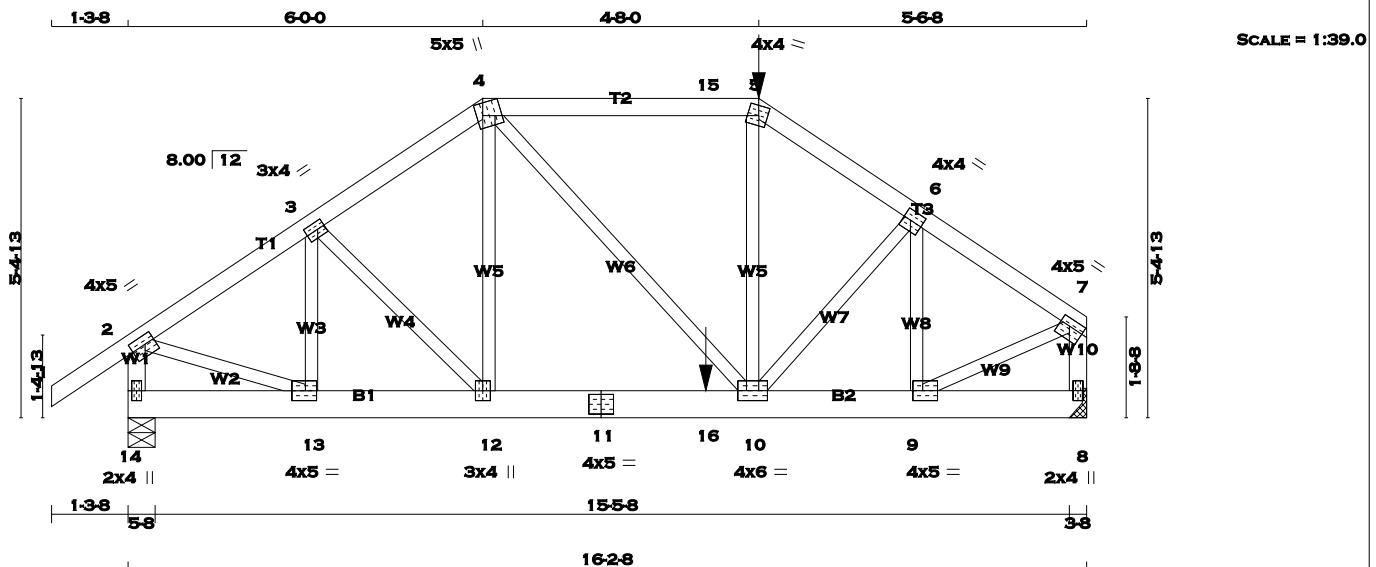
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 254 1667 822 2284 1656



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LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2
4 - 5	2x4	DRY	No.2
5 - 7	2x4	DRY	No.2
14 - 2	2x4	DRY	No.2
8 - 7	2x4	DRY	No.2
14 - 11	2x6	DRY	No.2
11 - 8	2x6	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
SPF			
DRY: SEASONED LUMBER.			

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

HANGERS NOTES
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 321.5 lbs FACTORED DOWN AT 10-8-0 ON TOP CHORD, AND 800.8 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	UPLIFT
14	1345	0	1345	0	0
8	1582	0	1582	0	0
HANGER BY OTHERS MIN. SEAT SIZE: 3-8					

UNFACTORED REACTIONS							
JT	1ST LCASE	COMBINED	MAX./MIN.	LIVE	PERM.	DEAD	SOIL
14	941	677 / 0	0 / 0	0 / 0	0 / 0	264 / 0	0 / 0
8	1112	765 / 0	0 / 0	0 / 0	0 / 0	347 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.88 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING			
TOTAL LOAD CASES: (4)			
CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO	FROM TO	FR-TO	FROM TO
1-2	0 / 29	10-00	13-3
2-3	-1319 / 0	5.46	3-12
3-4	-1424 / 0	5.30	12-4
4-15	-1468 / 0	4.89	4-10
15-5	-1468 / 0	4.89	10-5
5-6	-1772 / 0	4.88	10-6
6-7	-1512 / 0	5.21	9-6
14-2	-1298 / 0	7.05	2-13
8-7	-1510 / 0	6.65	9-7
14-13	0 / 0	17.5	-17.5
13-12	0 / 1108	17.5	-17.5
12-11	0 / 1174	17.5	-17.5
11-16	0 / 1174	17.5	-17.5
16-10	0 / 1174	33.0	-33.0
10-9	0 / 1267	33.0	-33.0
9-8	0 / 0	33.0	-33.0

FACTORED CONCENTRATED LOADS (LBS)							
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
5	10-8-0	-321	-321	---	FRONT	VERT	TOTAL
16	9-9-4	-801	-801	---	FRONT	VERT	TOTAL

DESIGN CRITERIA

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

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

SPACING = 24.0 IN. C/C

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

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

*** NON STANDARD GIRDER ***
ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.54")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.54")
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.39 (4-5:1), BC=0.39 (10-12:1), WB=0.34 (7-9:1), SSI=0.49 (10-12:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL = 0.250 inches

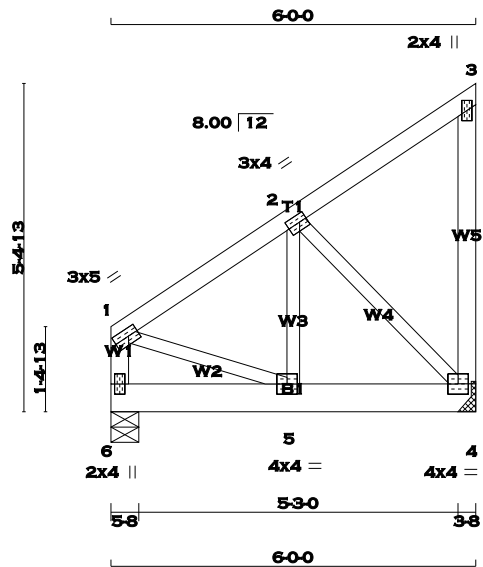
PLATE ROTATION TOL = 0.5 degrees

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SCALE = 1:37.9

TOTAL WEIGHT = 33 lb

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

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
4		800	0	800	0	0	HANGER BY OTHERS		
6		800	0	800	0	0	MIN. SEAT SIZE: 3-8	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS		LIVE		PERM.LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW											
4	562	393 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	169 / 0	0 / 0	169 / 0	0 / 0	0 / 0	0 / 0
6	562	393 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	169 / 0	0 / 0	169 / 0	0 / 0	0 / 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		MAX. FACTORED FORCE (LBS)		FACTORED VERT. LOAD (PLF)		MAX. FACTORED REACTION (LC)		MAX. FACTORED REACTION (LC)		MEMB.		MAX. FACTORED FORCE (LBS)		MAX. FACTORED REACTION (LC)	
FR-TO				FROM	TO			LENGTH		FR-TO					
1-2	-556 / 0	-77.3	-77.3	0.12 (1)	6.25	5-2	0 / 506	0.13 (1)							
2-3	-14 / 0	-77.3	-77.3	0.12 (1)	6.25	2-4	-670 / 0	0.19 (1)							
4-3	-90 / 0	0.0	0.0	0.04 (1)	7.81	1-5	0 / 500	0.12 (1)							
6-1	-564 / 0	0.0	0.0	0.06 (1)	7.81										
6-5	0 / 0	-189.4	-189.4	0.11 (1)	10.00										
5-4	0 / 474	-189.4	-189.4	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

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.20")
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=0.12 (1-2:1), BC=0.17 (4-5:1), WB=0.19 (2-4:1), SSI=0.22 (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.

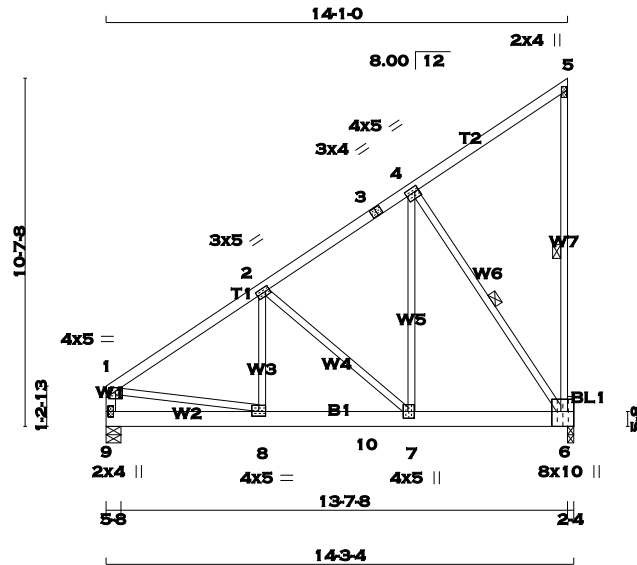
JSI GRIP= 0.89 (2) (INPUT = 0.90)
JSI METAL= 0.19 (1) (INPUT = 1.00)



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SCALE = 1:70.3

TOTAL WEIGHT = 8 X 77 = 619 lb [M]

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	No.2	SPF
3 - 5	2x4	No.2	SPF
6 - 5	2x3	No.2	SPF
9 - 1	2x4	No.2	SPF
9 - 6	2x6	2100F 1.8E	SPF

BEARING BLOCKS			
BL1	2x6	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2

DRY: SEASONED LUMBER.

DESIGN CONSISTS OF 4 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
1-3	12	TOP
3-5	12	TOP
9-1	12	TOP
5-6	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
9-6	4	SIDE(603.2)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	

STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.

IN ADDITION, PRE-DRILL ONE 0.56" DIAM. HOLE IN EACH CHORD PANEL AND INSTALL 0.50" DIAM. ASTM A307 BOLTS WITH WASHERS, BOTH SIDES. FOR OTHER BOLT TYPES SEE CSA086 3.3.2.

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

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

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
1	TMVW-p	MT20	4.0	5.0	1.25 2.50

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
6	5890	0	5890	0	2-4
9	6169	0	6169	0	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
6	4134	2893 / 0	0 / 0	0 / 0	1241 / 0	0 / 0
9	4329	3029 / 0	0 / 0	0 / 0	1301 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.82 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-6. DBS = 20-0-0 . CBF = 18 LBS.
1 - 2x4 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-6. DBS = 4-0-0 . CBF = 129 LBS.

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

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

LOADING

TOTAL LOAD CASES: (4)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
1-2	-6202 / 0	-77.3 -77.3	0.18 (1)	4.82	8-2	0 / 3225	0.18 (1)
2-3	-3415 / 0	-77.3 -77.3	0.11 (1)	6.09	2-7	-3087 / 0	0.48 (1)
3-4	-3415 / 0	-77.3 -77.3	0.11 (1)	6.09	7-4	0 / 5794	0.33 (1)
4-5	-19 / 0	-77.3 -77.3	0.09 (1)	6.25	4-6	-5169 / 0	0.62 (1)
6-5	-148 / 0	0.0 0.0	0.06 (1)	6.25	1-8	0 / 5246	0.30 (1)
9-1	-4512 / 0	0.0 0.0	0.14 (1)	6.99			
9-8	0 / 0	-821.7 -821.7	0.19 (1)	10.00			
8-10	0 / 5169	-821.7 -821.7	0.23 (1)	10.00			
10-7	0 / 5169	-738.7 -738.7	0.23 (1)	10.00			
7-6	0 / 2850	-738.7 -738.7	0.19 (1)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

GIRDER TYPE: CStdGirder
START DISTANCE = 7-9-0
START SPAN CARRIED = 36-4-8
END DISTANCE = 7-9-0
END SPAN CARRIED = 36-4-8
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

GIRDER TYPE: CStdGirder
START DISTANCE = 7-9-0
START SPAN CARRIED = 32-10-8
END DISTANCE = 14-3-4
END SPAN CARRIED = 32-10-8
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 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

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

ALLOWABLE DEFL.(LL)= L/360 (0.47")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.47")
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.18 (1-2:1) , BC=0.23 (7-8:1) , WB=0.62 (4-6:1) , SSI=0.38 (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

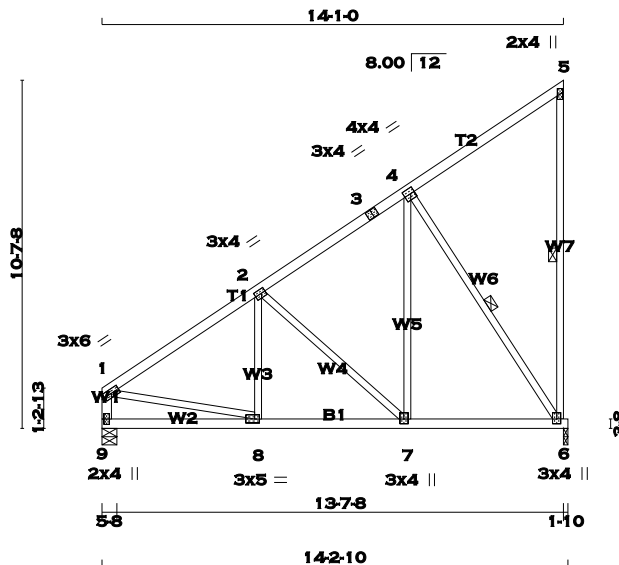
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (4) (INPUT = 0.90)
JSI METAL= 0.39 (8) (INPUT = 1.00)



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SCALE = 1:70.3

TOTAL WEIGHT = 2 X 68 = 137 lb [M]

LUMBER				DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	
1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
6 - 5	2x3	DRY	No.2	SPF
9 - 1	2x4	DRY	No.2	SPF
9 - 6	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	6.0		
2	TMVW-t	MT20	3.0	4.0	1.50	1.50
3	TS-t	MT20	3.0	4.0		
4	TMVW-t	MT20	4.0	4.0	2.00	1.50
5	TMV+p	MT20	2.0	4.0		
6	BMVW1+p	MT20	3.0	4.0	1.75	1.50
7	BMVW+t	MT20	3.0	4.0	1.75	1.50
8	BMVW-t	MT20	3.0	5.0	1.50	1.75
9	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	GROSS REACTION	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	BRG	IN-SX
6	1023	0	1023	0	0	1-10	1-10		
9	1023	0	1023	0	0	5-8	5-8		

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX/MIN.	SNOW	LIVE	PERM.LIVE	WIND	DEAD
6	718	502 / 0		0 / 0	0 / 0	0 / 0	216 / 0
9	718	502 / 0		0 / 0	0 / 0	0 / 0	216 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6, 9

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.85 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-6. DBS = 20-0-0 . CBF = 19 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-6. DBS = 16-0-0 . CBF = 89 LBS.

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

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
1-2	-1015 / 0	-77.3 -77.3	0.27 (1)	5.85	8-2	0 / 179	0.05 (4)
2-3	-594 / 0	-77.3 -77.3	0.27 (1)	6.25	2-7	-489 / 0	0.33 (1)
3-4	-594 / 0	-77.3 -77.3	0.27 (1)	6.25	7-4	0 / 673	0.17 (1)
4-5	-20 / 0	-77.3 -77.3	0.25 (1)	6.25	4-6	-893 / 0	0.45 (1)
6-5	-149 / 0	0.0 0.0	0.12 (1)	6.25	1-8	0 / 876	0.22 (1)
9-1	-890 / 0	0.0 0.0	0.10 (1)	7.81			
9-8	0 / 0	-67.9 -67.9	0.20 (1)	10.00			
8-7	0 / 860	-67.9 -67.9	0.36 (1)	10.00			
7-6	0 / 496	-67.9 -67.9	0.30 (1)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 4-7-0
END DISTANCE = 14-2-10
END SPAN CARRIED = 4-7-0
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 (0.47")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.47")
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.27 (2-4:1) , BC=0.36 (7-8:1) , WB=0.45 (4-6:1) , SSI=0.16 (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 TOL. = 5.0 Deg.

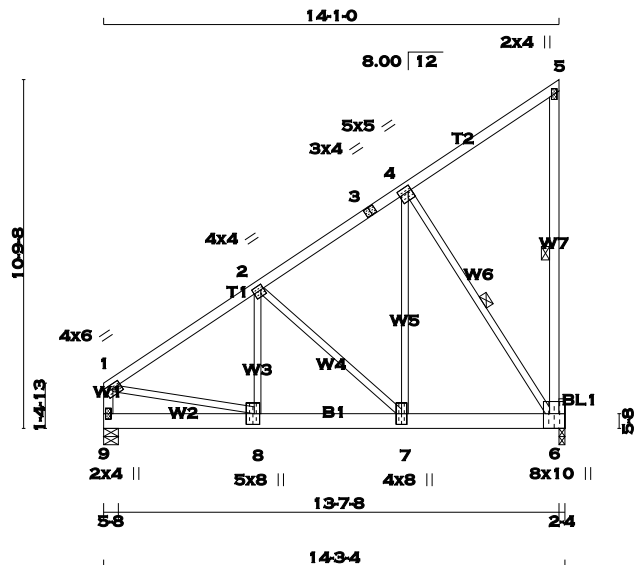
JSI GRIP= 0.88 (8) (INPUT = 0.90)
JSI METAL= 0.28 (1) (INPUT = 1.00)



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

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

BEARING BLOCKS				
BL1	2x6	DRY	No.2	SPF
ALL WEBS				
EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
1- 3	12	TOP
3- 5	12	TOP
5- 6	12	TOP
9- 1	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
9- 6	9	SIDE(304.3)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	4.0	6.0	1.50	3.00
2	TMWW-t	MT20	4.0	4.0	1.75	1.00
3	TS-t	MT20	3.0	4.0		
4	TMVW-t	MT20	5.0	5.0	2.00	1.25
5	TMV+p	MT20	2.0	4.0		
6	BMVWK1+p	MT20	8.0	10.0	Edge	4.00
7	BMWW+t	MT20	4.0	8.0		

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	4330	0	4330	0	0	2-4	2-4
9	4616	0	4616	0	0	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
6	3038	2127 / 0	0 / 0	0 / 0	0 / 0	911 / 0	0 / 0
9	3239	2266 / 0	0 / 0	0 / 0	0 / 0	973 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.41 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

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

LOADING

TOTAL LOAD CASES: (4)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED MAX. UNBRAC LENGTH	MEMB. FACTORED FORCE (LBS)
FR-TO		FROM TO		FR-TO			
1- 2	-4356 / 0	-77.3 -77.3	0.24 (1)	4.41	8- 2	0 / 2196	0.27 (1)
2- 3	-2413 / 0	-77.3 -77.3	0.17 (1)	5.63	2- 7	-2199 / 0	0.74 (1)
3- 4	-2413 / 0	-77.3 -77.3	0.17 (1)	5.63	7- 4	0 / 4081	0.51 (1)
4- 5	-18 / 0	-77.3 -77.3	0.13 (1)	6.25	4- 6	-3738 / 0	0.94 (1)
6- 5	-149 / 0	0.0 0.0	0.04 (1)	6.25	1- 8	0 / 3714	0.46 (1)
9- 1	-3345 / 0	0.0 0.0	0.19 (1)	6.38			
9- 8	0 / 0	-626.1 -626.1	0.26 (1)	10.00			
8- 7	0 / 3636	-531.3 -531.3	0.31 (1)	10.00			
7- 6	0 / 2014	-531.3 -531.3	0.25 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C/C

GIRDER TYPE: CStdGirder
START DISTANCE = 4-7-8
START SPAN CARRIED = 28-1-8
END DISTANCE = 4-7-8
END SPAN CARRIED = 28-1-8
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

GIRDER TYPE: CStdGirder
START DISTANCE = 4-7-8
START SPAN CARRIED = 24-1-8
END DISTANCE = 14-3-4
END SPAN CARRIED = 24-1-8
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

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

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

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

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

CSI: TC=0.24 (1-2:1) , BC=0.31 (7-8:1) , WB=0.94 (4-6:1) , SSI=0.57 (8-9:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

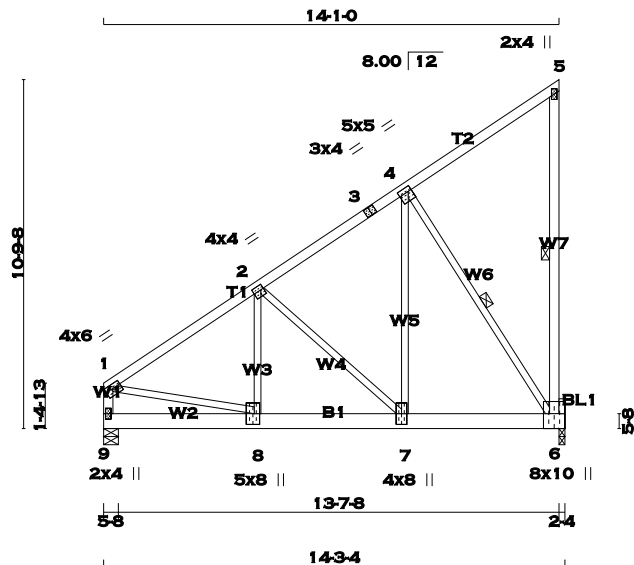
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (8) (INPUT = 0.90)
JSI METAL= 0.56 (1) (INPUT = 1.00)

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

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TOTAL WEIGHT = 3 X 81 = 244 lb [M]

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

BEARING BLOCKS				
BL1	2x6	DRY	No.2	SPF
ALL WEBS EXCEPT				
2x3	DRY	No.2		SPF

DRY: SEASONED LUMBER.

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

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

STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.

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

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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	4.0	6.0	1.50	3.00
2	TMVW-t	MT20	4.0	4.0	1.75	1.00
3	TS-t	MT20	3.0	4.0		
4	TMVW-t	MT20	5.0	5.0	1.75	1.25
5	TMV+p	MT20	2.0	4.0		
6	BMVWK1+p	MT20	8.0	10.0	Edge	4.00

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	6607	0	6607	0	0	2-4	2-4
9	6596	0	6596	0	0	5-8	5-8

UNFACTORED REACTIONS

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

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

BRACING

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

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

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

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

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

LOADING

TOTAL LOAD CASES: (4)

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

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C/C

GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 38-4-8
END DISTANCE = 14-3-4
END SPAN CARRIED = 38-4-8
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC2010

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

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

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

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

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

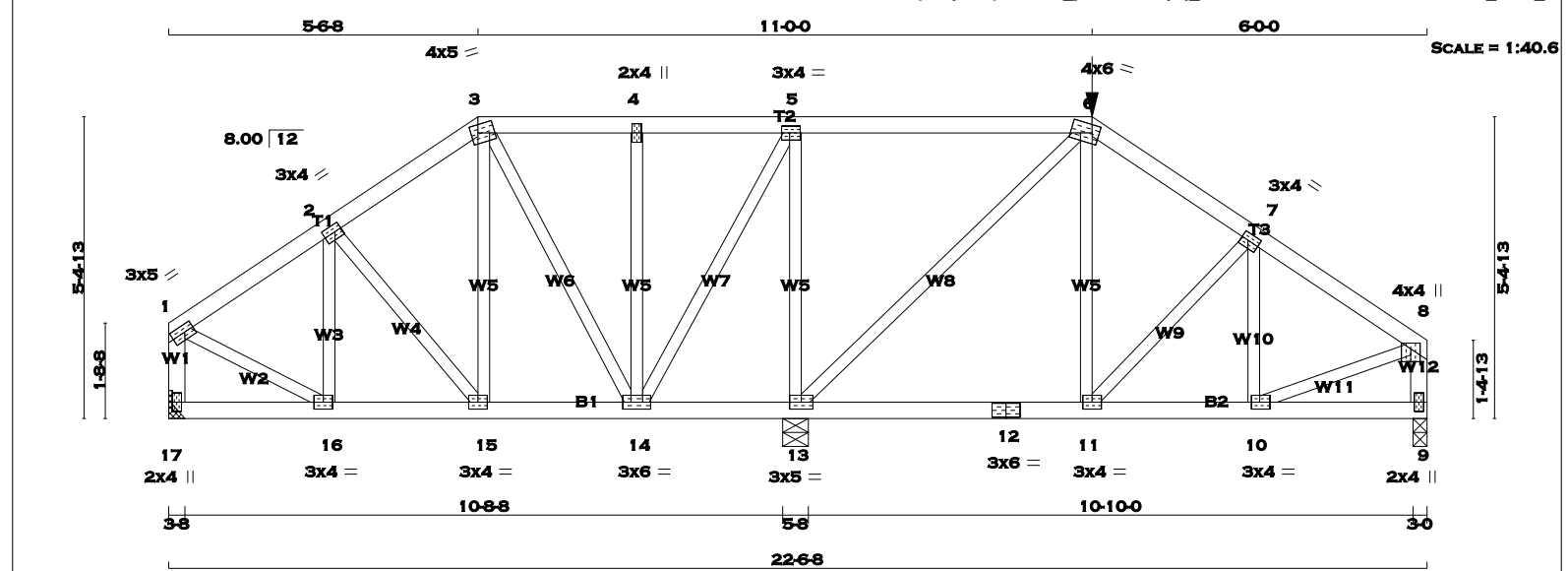
PLATE ROTATION TOL. = 5.0 Deg.

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



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



LUMBER

N. L. G. A. RULES

CHORDS

SIZE

LUMBER

DESCR.

1 - 3

2x4

DRY

No.2

SPF

3 - 6

2x4

DRY

No.2

SPF

6 - 8

2x4

DRY

No.2

SPF

17 - 1

2x4

DRY

No.2

SPF

9 - 8

2x4

DRY

No.2

SPF

17 - 12

2x4

DRY

No.2

SPF

12 - 9

2x4

DRY

No.2

SPF

ALL WEBS

2x3

DRY

No.2

SPF

EXCEPT

DRY: SEASONED LUMBER.

TOTAL WEIGHT = 103 lb

[M]

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER					
BEARINGS					
		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION	
		VERT	HORZ	DOWN	HORZ
JT	17	490	0	490	0
13	9	1726	0	1726	0
9	13	841	0	841	0
		INPUT BRG		REQRD BRG	
		IN-SX		IN-SX	
		HANGER BY OTHERS		MIN. SEAT SIZE: 3-8	
		5-8		5-8	
		3-0		3-0	

UNFACTORED REACTIONS							
		1ST LCASE		MAX./MIN. COMPONENT REACTIONS			
		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
JT	17	344	241 / 0	0 / 0	0 / 0	0 / 0	102 / 0
13	9	1210	854 / 0	0 / 0	0 / 0	0 / 0	357 / 0
9	13	593	396 / 0	0 / 0	0 / 0	0 / 0	197 / 0

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

BRACING

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

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

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

LOADING									
TOTAL LOAD CASES: (4)									
		CHORDS				WEBS			
		MAX. FACTORED	FACTORED	VERT. LOAD	MAX. FACTORED	MAX. FACTORED	MAX. FACTORED	MAX. FACTORED	MAX. FACTORED
		MEMB.	FORCE (LBS)	PLF	LC1 (LC)	MEMB.	FORCE (LBS)	LC1 (LC)	MEMB.
		FR-TO	FROM	TO	LENGTH	FR-TO	FROM	TO	LENGTH
1-2	-385 / 0	-77.3	-77.3	0.10 (1)	6.25	16-2	-109 / 14	0.02 (1)	0.04 (1)
2-3	-312 / 0	-77.3	-77.3	0.10 (1)	6.25	2-15	-131 / 0	0.04 (1)	0.04 (1)
3-4	-144 / 0	-77.3	-77.3	0.13 (1)	6.25	15-3	0 / 161	0.04 (1)	0.13 (1)
4-5	-144 / 0	-77.3	-77.3	0.57 (1)	6.25	3-14	-218 / 0	0.03 (1)	0.03 (1)
5-6	0 / 8	-149.9	-149.9	0.57 (1)	10.00	14-4	-71 / 0	0.07 (1)	0.07 (1)
6-7	-741 / 0	-77.3	-77.3	0.12 (1)	6.25	14-5	0 / 301	0.44 (1)	0.88 (1)
7-8	-813 / 0	-77.3	-77.3	0.13 (1)	6.25	13-6	-846 / 0	0.08 (1)	0.08 (1)
17-1	-468 / 0	0.0	0.0	0.05 (1)	7.81	11-6	0 / 230	0.04 (1)	0.04 (1)
9-8	-794 / 0	0.0	0.0	0.09 (1)	7.81	11-7	-123 / 0	0.03 (1)	0.03 (1)
17-16	0 / 0	-17.5	-17.5	0.03 (4)	10.00	10-7	-140 / 36	0.09 (1)	0.18 (1)
16-15	0 / 331	-17.5	-17.5	0.08 (1)	10.00	1-16	0 / 367	0.09 (1)	0.09 (1)
15-14	0 / 250	-17.5	-17.5	0.08 (1)	10.00	10-8	0 / 729	0.09 (1)	0.09 (1)
14-13	-8 / 0	-17.5	-17.5	0.17 (4)	10.00				
13-12	0 / 608	-33.9	-33.9	0.23 (1)	10.00				
12-11	0 / 608	-33.9	-33.9	0.23 (1)	10.00				
11-10	0 / 688	-33.9	-33.9	0.21 (4)	10.00				
10-9	0 / 0	-33.9	-33.9	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

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

GIRDER TYPE: CPrimeHip

LEFT SETBACK = 5-6-8

RIGHT SETBACK = 6-0-0

END SETBACK = 6-0-0

END WALL WIDTH = 3-0

CORNER FRAMING TYPE: CONVENTIONAL

END JACK TYPE: CONVENTIONAL

APPLIED TO FRONT SIDE

- ADDTL LOADS BASED ON 55 % OF GSL.

LOADS APPLIED TO FIRST 11-1-0 OF SPAN MEASURED FROM THE RIGHT.

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

THIS DESIGN COMPLIES WITH:

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

- CSA 086-09

- TPIC 2011

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

ALLOWABLE DEFL.(LL)= L/360 (0.38")

CALCULATED VERT. DEFL.(LL) = L/999 (0.01")

ALLOWABLE DEFL.(TL)= L/360 (0.38")

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

CSI: TC=0.57 (4-5:1) , BC=0.23 (11-13:1) , WB=0.88 (6-13:1) , SSI=0.40 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

FACTORED CONCENTRATED LOADS (LBS)

JT LOC. LC1 MAX- MAX+ FACE DIR. TYPE

6 16-6-8 -348 -348 --- FRONT VERT TOTAL

PLATES (table is in inches)

JT TYPE PLATES W LEN Y X

1 TMVW-t MT20 3.0 5.0 1.50 2.00

2 TMVW-t MT20 3.0 4.0 1.50 1.50

3 TTWW-m MT20 4.0 5.0 1.75 1.50

4 TMVW-w MT20 2.0 4.0

5 TMVW-t MT20 3.0 4.0 1.50 1.75

6 TTWW-m MT20 4.0 6.0 1.75 1.50

7 TMVW-t MT20 3.0 4.0 1.50 1.50

8 TMVW+p MT20 4.0 4.0 1.25 2.00

9 BMV1+p MT20 2.0 4.0

10 BMVW-t MT20 3.0 4.0 1.50 1.75

11, 15, 16

11 BMVW-t MT20 3.0 4.0

12 BS-t MT20 3.0 6.0

13 BMVW-t MT20 3.0 5.0

14 BMVW-t MT20 3.0 6.0

17 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) 348.1 lbs FACTORED DOWN AT 16-6-8 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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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

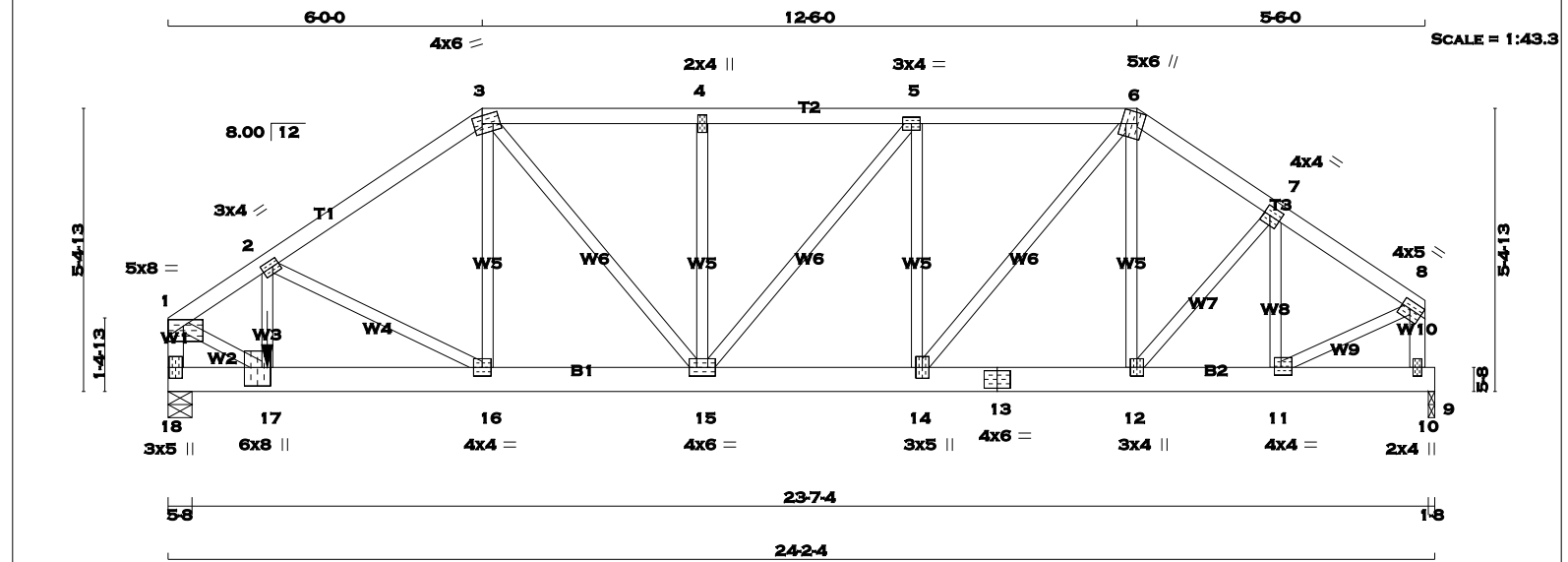
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (10) (INPUT = 0.90)

JSI METAL= 0.28 (6) (INPUT = 1.00)



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
18 - 1	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF
18 - 13	2x6	DRY	No.2	SPF
13 - 9	2x6	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-p	MT20	5.0	8.0	1.50	Edge
2	TMVW-t	MT20	3.0	4.0	1.50	1.50
3	TTWW-m	MT20	4.0	6.0	1.75	2.00
4	TMVW-w	MT20	2.0	4.0		
5	TMVW-t	MT20	3.0	4.0		
6	TTWW+m	MT20	5.0	6.0	2.50	1.50
7	TMVW-t	MT20	4.0	4.0	2.00	1.50
8	TMVW-t	MT20	4.0	5.0	1.75	Edge
10	BMV+p	MT20	2.0	4.0		
11	BMVW-t	MT20	4.0	4.0	1.75	1.50
12	BMVW+t	MT20	3.0	4.0		
13	BS-t	MT20	4.0	6.0		
14	BMVW+t	MT20	3.0	5.0		
15	BMVWVW-t	MT20	4.0	6.0		
16	BMVW-t	MT20	4.0	4.0		
17	BMVW+t	MT20	6.0	8.0	4.25	2.00
18	BMV1+p	MT20	3.0	5.0		
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) 1761.2 lbs. FACTORED DOWN AT 1-10-12 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.



DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
18		2770	0	2770	0	0	5-8	5-8	
9		1271	0	1271	0	0	1-8	1-8	
UNFACTORED REACTIONS									
		1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
18		1944	1360 / 0	0 / 0	0 / 0	0 / 0	584 / 0	0 / 0	
9		892	622 / 0	0 / 0	0 / 0	0 / 0	270 / 0	0 / 0	

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 18, 9

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.04 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING									
TOTAL LOAD CASES: (3)									
CHORDS					WEBS				
		MAX. FACTORED		FACTORED		MAX. FACTORED		FACTORED	
MEMB.		FORCE (LBS)	VERT. LOAD (LBS)	LC1 (PLF)	MAX. CSI (LC)	MEMB.		FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM		TO		FR-TO		TO	
1-2		-2622 / 0	-77.3	-77.3	0.22 (1)	4.04	17-2	0 / 495	0.12 (1)
2-3		-1864 / 0	-77.3	-77.3	0.26 (1)	4.64	2-16	-754 / 0	0.29 (1)
3-4		-1749 / 0	-77.3	-77.3	0.24 (1)	4.77	16-3	0 / 516	0.13 (1)
4-5		-1749 / 0	-77.3	-77.3	0.24 (1)	4.76	3-15	0 / 311	0.08 (1)
5-6		-1632 / 0	-77.3	-77.3	0.24 (1)	4.91	15-4	-343 / 0	0.14 (1)
6-7		-1407 / 0	-77.3	-77.3	0.12 (1)	5.35	15-5	0 / 185	0.05 (1)
7-8		-1308 / 0	-77.3	-77.3	0.12 (1)	5.51	14-5	-490 / 0	0.21 (1)
18-1		-2654 / 0	0.0	0.0	0.30 (1)	5.22	14-6	0 / 741	0.18 (1)
10-8		-1333 / 0	0.0	0.0	0.15 (1)	6.97	12-6	-8 / 43	0.02 (3)
							12-7	0 / 90	0.02 (1)
18-17		0 / 0	-17.5	-17.5	0.14 (1)	10.00	11-7	-371 / 0	0.08 (1)
17-16		0 / 2203	-17.5	-17.5	0.43 (1)	10.00	1-17	0 / 2489	0.62 (1)
16-15		0 / 1549	-17.5	-17.5	0.25 (1)	10.00	11-8	0 / 1212	0.30 (1)
15-14		0 / 1632	-17.5	-17.5	0.25 (1)	10.00			
14-13		0 / 1157	-17.5	-17.5	0.17 (1)	10.00			
13-12		0 / 1157	-17.5	-17.5	0.17 (1)	10.00			
12-11		0 / 1098	-17.5	-17.5	0.16 (1)	10.00			
11-10		0 / 0	-17.5	-17.5	0.18 (1)	10.00			
10-9		0 / 0	-17.5	-17.5	0.18 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)						
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.
17	1-10-12	-1761	-1761	---	FRONT	VERT

DESIGN CRITERIA

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

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

SPACING = 24.0 IN. C/C

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

*** 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 (0.81")
CALCULATED VERT. DEFL.(LL)= L/999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.81")
CALCULATED VERT. DEFL.(TL)= L/999 (0.10")

CSI: TC=0.30 (1-18:1), BC=0.43 (16-17:1), WB=0.62 (1-17:1), SSI=0.84 (9-10:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

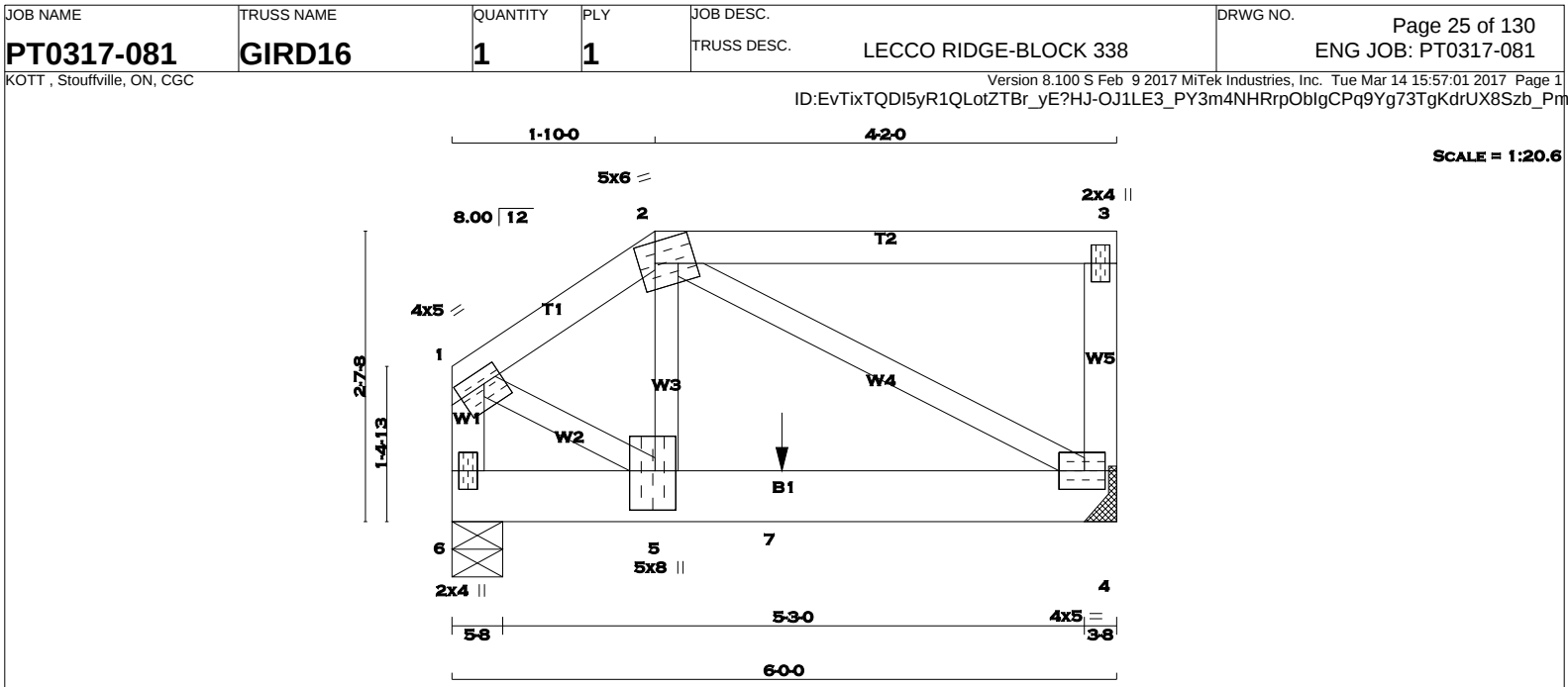
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (8) (INPUT = 0.90)
JSI METAL= 0.48 (17) (INPUT = 1.00)

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ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE
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CONTAINS SPECIFICATIONS AND CRITERIA USED
IN THE DESIGN OF THIS COMPONENT.





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

1 - 2	2x4	DRY	No.2	SPF
2 - 3	2x4	DRY	No.2	SPF
4 - 3	2x4	DRY	No.2	SPF
6 - 1	2x4	DRY	No.2	SPF
6 - 4	2x6	DRY	No.2	SPF

ALL WEBS 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	4.0	5.0	1.50	2.00
2	TTWW-m	MT20	5.0	6.0	2.25	1.75
3	TMV+p	MT20	2.0	4.0		
4	BMVW1-t	MT20	4.0	5.0	2.00	2.25
5	BMVW+t	MT20	5.0	8.0	4.25	2.25
6	BMV1+p	MT20	2.0	4.0		

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

HANGERS NOTES
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 490.2 lbs FACTORED DOWN AT 2-11-12 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG DOWN	REQRD BRG IN-SX
JT	VERT	HORZ	UPLIFT	IN-SX
4	1761	0	0	HANGER BY OTHERS
6	1371	0	0	MIN. SEAT SIZE: 3-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
4	1236	864 / 0	0 / 0	0 / 0	0 / 0	371 / 0	0 / 0
6	962	673 / 0	0 / 0	0 / 0	0 / 0	289 / 0	0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED LC1 (LC)	
FR-TO		FROM TO		FR-TO			
1-2	-1456 / 0	-77.3 -77.3	0.08 (1)	5-33	0 / 1262	0.31 (1)	
2-3	0 / 0	-77.3 -77.3	0.25 (1)	10.00	2-4 -1436 / 0	0.49 (1)	
4-3	-161 / 0	0.0 0.0	0.02 (1)	7.81	1-5 0 / 1357	0.34 (1)	
6-1	-1506 / 0	0.0 0.0	0.17 (1)	6.65			
6-5	0 / 0	-230.9 -230.9	0.51 (1)	10.00			
5-7	0 / 1266	-230.9 -230.9	0.80 (1)	10.00			
7-4	0 / 1266	-493.0 -493.0	0.80 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
7	2-11-12	-490	-490	---	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 =	7.0	PSF
TOTAL LOAD	=	33.3	PSF

SPACING = 24.0 IN. C/C

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

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

GIRDER TYPE: CStdGirder
START DISTANCE = 2-11-12
START SPAN CARRIED = 22-2-2
END DISTANCE = 6-0-0
END SPAN CARRIED = 22-2-2
END WALL WIDTH = 1-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDT'L LOADS BASED ON 55 % OF GSL.

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 859 (0.08")

CSI: TC=0.25 (2-3:1), BC=0.80 (4-5:1), WB=0.49 (2-4:1), SSI=0.86 (4-5:1)

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

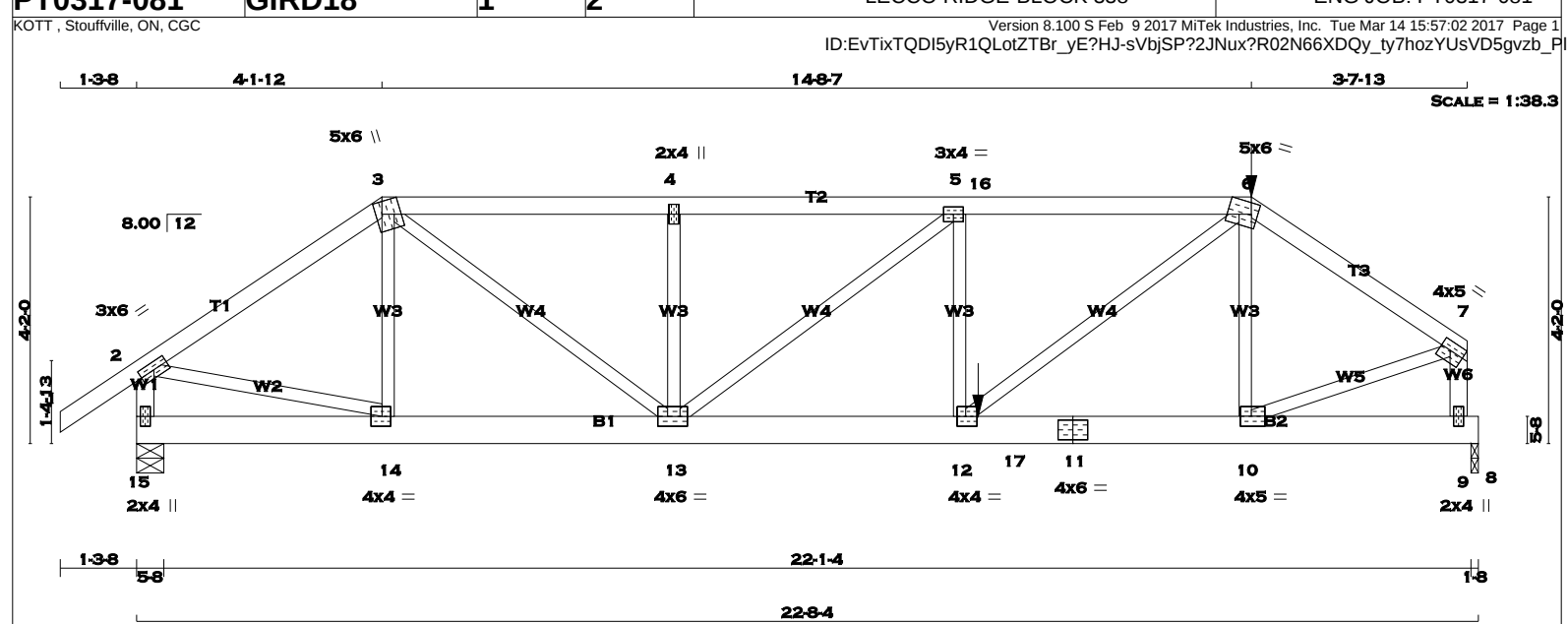
COMPANION LIVE LOAD FACTOR = 0.50

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

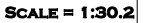


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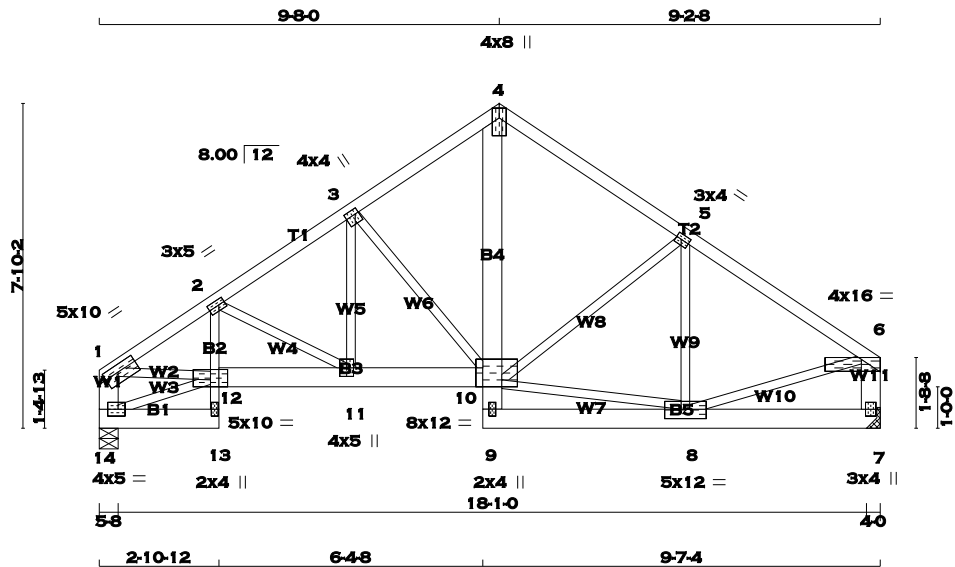


LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. 1 - 3 2x4 DRY No.2 SPF 3 - 6 2x4 DRY No.2 SPF 6 - 7 2x4 DRY No.2 SPF 15 - 2 2x4 DRY No.2 SPF 9 - 7 2x4 DRY No.2 SPF 15 - 11 2x6 DRY No.2 SPF 11 - 8 2x6 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT DRY: SEASONED LUMBER. DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS: CHORDS #ROWS SURFACE SPACING (IN) LOAD(PLF) TOP CHORDS : (0.122"x3") SPIRAL NAILS 1-3 1 12 TOP 3-6 1 12 TOP 6-7 1 12 TOP 15-2 1 12 TOP 9-7 1 12 TOP BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS 15-11 2 12 SIDE(8.7) 11-8 2 12 SIDE(8.7) WEBS : (0.122"x3") SPIRAL NAILS 2x3 1 6 NAILS TO BE DRIVEN FROM ONE SIDE ONLY. GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS. TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY. SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERING. REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP. PLATES (table is in inches) JT TYPE PLATES W LEN Y X 2 TMW-t MT20 3.0 6.0 3 TTWW+m MT20 5.0 6.0 Edge 3.75 4 TMW+w MT20 2.0 4.0		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 15 1749 0 1749 0 0 5-8 5-8 8 2287 0 2287 0 0 1-8 1-8 UNFACTORED REACTIONS 1ST LCASE MAX/MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 15 1224 872 / 0 0 / 0 0 / 0 353 / 0 0 / 0 8 1606 1115 / 0 0 / 0 0 / 0 0 / 0 492 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 15, 8 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.58 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. LOADING TOTAL LOAD CASES: (4) CHORDS WEBS MAX. FACTORED MAX. FACTORED MAX. FACTORED MEMB. FORCE VERT. LOAD LC1 MAX. MEMB. FORCE MAX. (LBS) (PLF) CSI (LC) UNBRAC (LBS) CSI (LC) FR-TO FROM TO LENGTH FR-TO 1-2 0 / 29 -77.3 -77.3 0.06 (1) 10.00 14-3 -267 / 0 0.03 (1) 2-3 -1936 / 0 -77.3 -77.3 0.15 (1) 6.13 3-13 0 / 1668 0.21 (1) 3-4 -2925 / 0 -77.3 -77.3 0.17 (1) 5.22 13-4 -373 / 0 0.05 (1) 4-5 -2925 / 0 -77.3 -77.3 0.25 (1) 5.12 13-5 -970 / 0 0.32 (1) 5-16 -3689 / 0 -77.3 -77.3 0.32 (1) 4.58 12-5 0 / 111 0.02 (4) 16-6 -3689 / 0 -145.8 -145.8 0.32 (1) 4.58 12-6 0 / 1892 0.23 (1) 6-7 -2644 / 0 -77.3 -77.3 0.13 (1) 5.47 10-6 -354 / 29 0.05 (1) 15-2 -1721 / 0 0.0 0.0 0.10 (1) 7.81 2-14 0 / 1652 0.20 (1) 9-7 -2392 / 0 0.0 0.0 0.14 (1) 7.28 10-7 0 / 2330 0.29 (1) 15-14 0 / 0 -17.5 -17.5 0.02 (4) 10.00 14-13 0 / 1601 -17.5 -17.5 0.13 (1) 10.00 13-12 0 / 3689 -17.5 -17.5 0.26 (1) 10.00 12-17 0 / 2186 -17.5 -17.5 0.25 (1) 10.00 17-11 0 / 2186 -33.0 -33.0 0.25 (1) 10.00 11-10 0 / 2186 -33.0 -33.0 0.25 (1) 10.00 10-9 0 / 0 -33.0 -33.0 0.16 (1) 10.00 9-8 0 / 0 -33.0 -33.0 0.16 (1) 10.00 FACTORED CONCENTRATED LOADS (LBS) JT LOC. LC1 MAX- MAX+ FACE DIR. TYPE 6 18-10-3 -220 -220 --- FRONT VERT TOTAL 17 14-2-12 -1124 -1124 --- FRONT VERT TOTAL		DESIGN CRITERIA *** SPECIAL LOADS ANALYSIS *** GEOMETRY AND/OR BASIC LOADS CHANGED BY USER. LOADS WERE DERIVED FROM USER INPUT NO FURTHER MODIFICATIONS WERE MADE SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.0 PSF TOTAL LOAD = 33.3 PSF SPACING = 24.0 IN. C/C LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12 GIRDER TYPE: CPrimeHip LEFT SETBACK = 4-1-12 RIGHT SETBACK = 3-9-7 END SETBACK = 6-0-0 END WALL WIDTH = 5-8 CORNER FRAMING TYPE: CONVENTIONAL END JACK TYPE: CONVENTIONAL APPLIED TO FRONT SIDE - ADDTL LOADS BASED ON 55 % OF GSL. LOADS APPLIED TO FIRST 8-4-14 OF SPAN MEASURED FROM THE RIGHT. *** NON STANDARD GIRDER *** ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES. THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012, BCBC 2012, ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (0.76") CALCULATED VERT. DEFL.(LL) = L/999 (0.06") ALLOWABLE DEFL.(TL)= L/360 (0.76") CALCULATED VERT. DEFL.(TL) = L/999 (0.10") CSI: TC=0.32 (5-6:1), BC=0.26 (12-13:1), WB=0.32 (5-13:1), SSI=0.76 (8-9:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00 COMP=1.00 SHEAR=1.00 TENS=1.00 COMPANION LIVE LOAD FACTOR = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) 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 = 0.5 degrees KOTT CONTINUED ON PAGE 2	
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M]





TOTAL WEIGHT = 2 X 107 = 214 lb [M]

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
1 - 4	2x4	DRY	No.2
4 - 6	2x4	DRY	No.2
14 - 1	2x6	DRY	No.2
7 - 6	2x6	DRY	No.2
14 - 13	2x6	DRY	No.2
13 - 2	2x3	DRY	No.2
12 - 10	2x6	DRY	No.2
9 - 4	2x6	DRY	No.2
9 - 7	2x6	DRY	No.2

ALL WEBS 2x3 DRY No.2 SPF EXCEPT

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
1-4	12	TOP
4-6	12	TOP
14-1	12	TOP
7-6	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
14-13	9	SIDE(237.7)
12-10	9	SIDE(237.7)
4-9	12	TOP
9-7	9	SIDE(237.7)
13-2	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
1	TMVW-t	MT20	5.0	10.0	2.00 4.25
2	TMVW-t	MT20	3.0	5.0	1.50 1.75

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
7	5382	0	5382	0	0	HANGER BY OTHERS			
14	5382	0	5382	0	0	5-8	5-8		

UNFACTORED REACTIONS		1ST LCASE		MAX./MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
7	3777	2642 / 0	0 / 0	0 / 0	0 / 0
14	3777	2642 / 0	0 / 0	0 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.17 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING		TOTAL LOAD CASES: (4)	
CHORDS		WEBS	
MEMB.	FORCE (LBS)	MEMB.	FORCE (LBS)
FR-TO	FROM TO	FR-TO	FROM TO
1-2	-8356 / 0	1-2	-1593 / 0
2-3	-6708 / 0	11-3	0 / 2615
3-4	-4832 / 0	3-10	-2475 / 0
4-5	-4613 / 0	8-5	0 / 614
5-6	-5479 / 0	1-12	0 / 6940
14-1	-4660 / 0	8-6	0 / 4760
7-6	-4517 / 0	14-12	-98 / 0
14-13	0 / 92	10-5	-901 / 0
13-12	0 / 688	10-8	0 / 4262
12-2	0 / 1516		
12-11	0 / 6991		
11-10	0 / 5605		
9-10	0 / 965		
10-4	0 / 4970		
9-8	0 / 374		
8-7	0 / 0		

DESIGN CRITERIA

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

SPACING = 24.0 IN./C/C

GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 22-2-2
END DISTANCE = 18-10-8
END SPAN CARRIED = 22-2-2
END WALL WIDTH = 1-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- 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 (0.63")
CALCULATED VERT. DEFL.(LL)= L/ 999 (0.10")
ALLOWABLE DEFL.(TL)= L/360 (0.63")
CALCULATED VERT. DEFL.(TL)= L/ 999 (0.18")

CSI: TC=0.33 (1-2:1) , BC=0.63 (11-12:1) , WB=0.86 (1-12:1) , SSI=0.47 (8-9:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

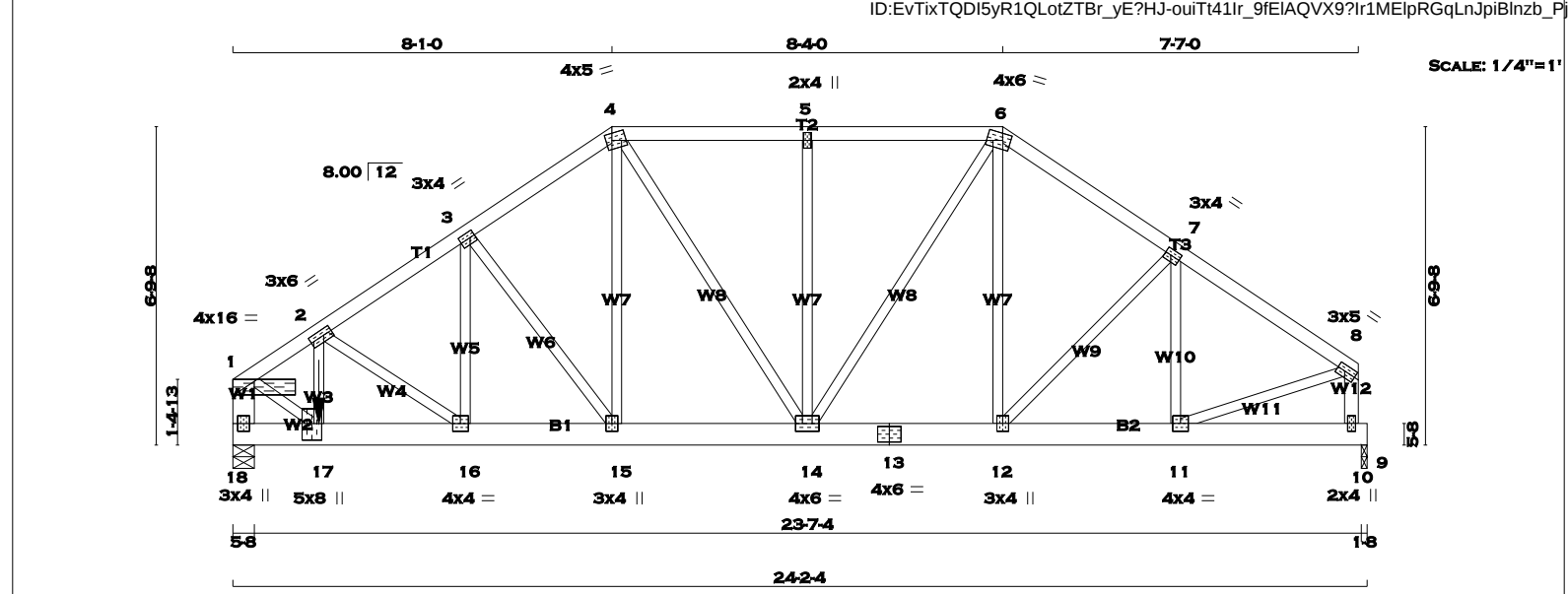
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (11) (INPUT = 0.90)
JSI METAL= 0.67 (1) (INPUT = 1.00)



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TOTAL WEIGHT = 3 X 127 = 381 lb [M]

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2
4 - 6	2x4	DRY	No.2
6 - 8	2x4	DRY	No.2
18 - 1	2x6	DRY	No.2
10 - 8	2x4	DRY	No.2
18 - 13	2x6	DRY	No.2
13 - 9	2x6	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
1-4	12	TOP
4-6	12	TOP
6-8	12	TOP
10-8	12	TOP
18-1	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
18-13	4	SIDE(1501.3)
13-9	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	
STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.		
GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.		
TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.		

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
1	TMWW-p	MT20	4.0	16.0	0.50 Edge
2	TMWW-t	MT20	3.0	6.0	1.50 2.25

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
18	6807	0	6807	0	0	5-8	5-8	5-8	5-8
9	1568	0	1568	0	0	1-8	1-8	1-8	1-8

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX/MIN.	COMPONENT	REACTIONS			
18	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
18	4778	3342 / 0	0 / 0	0 / 0	0 / 0	1435 / 0	0 / 0
9	1100	768 / 0	0 / 0	0 / 0	0 / 0	332 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 18, 9

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.73 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING				TOTAL LOAD CASES: (4)			
CHORDS		WEBS		CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)
FR-TO		FROM TO		FR-TO		FROM TO	
1-2	-6030 / 0	-77.3 -77.3	0.07 (1)	4.73	17-2	0 / 2606	0.20 (1)
2-3	-3610 / 0	-77.3 -77.3	0.06 (1)	5.78	2-16	-2429 / 0	0.20 (1)
3-4	-2469 / 0	-77.3 -77.3	0.05 (1)	6.25	16-3	0 / 1650	0.12 (1)
4-5	-1918 / 0	-77.3 -77.3	0.08 (1)	6.25	3-15	-1644 / 0	0.26 (1)
5-6	-1918 / 0	-77.3 -77.3	0.08 (1)	6.25	15-4	0 / 1361	0.10 (1)
6-7	-1795 / 0	-77.3 -77.3	0.06 (1)	6.25	4-14	-260 / 0	0.10 (1)
7-8	-1768 / 0	-77.3 -77.3	0.06 (1)	6.25	14-5	-382 / 0	0.09 (1)
18-1	-6156 / 0	0.0	0.0 0.13 (1)	7.06	14-6	0 / 809	0.06 (1)
10-8	-1616 / 0	0.0	0.0 0.06 (1)	7.81	12-6	0 / 71	0.01 (4)
					12-7	-16 / 0	0.00 (1)
18-17	0 / 0	-406.8 -406.8	0.12 (1)	10.00	11-7	-347 / 0	0.03 (1)
17-16	0 / 5004	-17.5 -17.5	0.31 (1)	10.00	1-17	0 / 5696	0.43 (1)
16-15	0 / 3024	-17.5 -17.5	0.13 (1)	10.00	11-8	0 / 1570	0.12 (1)
15-14	0 / 2059	-17.5 -17.5	0.09 (1)	10.00			
14-13	0 / 1476	-17.5 -17.5	0.06 (1)	10.00			
13-12	0 / 1476	-17.5 -17.5	0.06 (1)	10.00			
12-11	0 / 1486	-17.5 -17.5	0.07 (1)	10.00			
11-10	0 / 0	-17.5 -17.5	0.07 (1)	10.00			
10-9	0 / 0	-17.5 -17.5	0.07 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)			
JT	LOC.	LC1	MAX- MAX+
17	1-10-0	-5382	-5382 ---

FACE	DIR.	TYPE
FRONT	VERT	TOTAL

DESIGN CRITERIA

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

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.81")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.81")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.05")

CSI: TC=0.13 (1-18:1) , BC=0.31 (16-17:1) , WB=0.43 (1-17:1) , CSI=0.32 (9-10:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.83 (PSI) PLI = 90 (PLI)
JSI METAL= 0.43 (IN) (IN) = 0.0



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IN THE DESIGN OF THIS COMPONENT.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
3	TMWW-t	MT20	3.0	4.0	1.50	1.25
4	TTWW-m	MT20	4.0	5.0	1.75	1.50
5	TMW+w	MT20	2.0	4.0		
6	TTWW-m	MT20	4.0	6.0	1.75	2.00
7	TMWW-t	MT20	3.0	4.0	1.50	1.50
8	TMVW-t	MT20	3.0	5.0	1.50	2.00
10	BMV+p	MT20	2.0	4.0		
11	BMWW-t	MT20	4.0	4.0		
12	BMWW+t	MT20	3.0	4.0		
13	BS-t	MT20	4.0	6.0		
14	BMWWW-t	MT20	4.0	6.0		
15	BMWW+t	MT20	3.0	4.0		
16	BMWW-t	MT20	4.0	4.0		
17	BMWW+t	MT20	5.0	8.0	4.25	2.00
18	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.

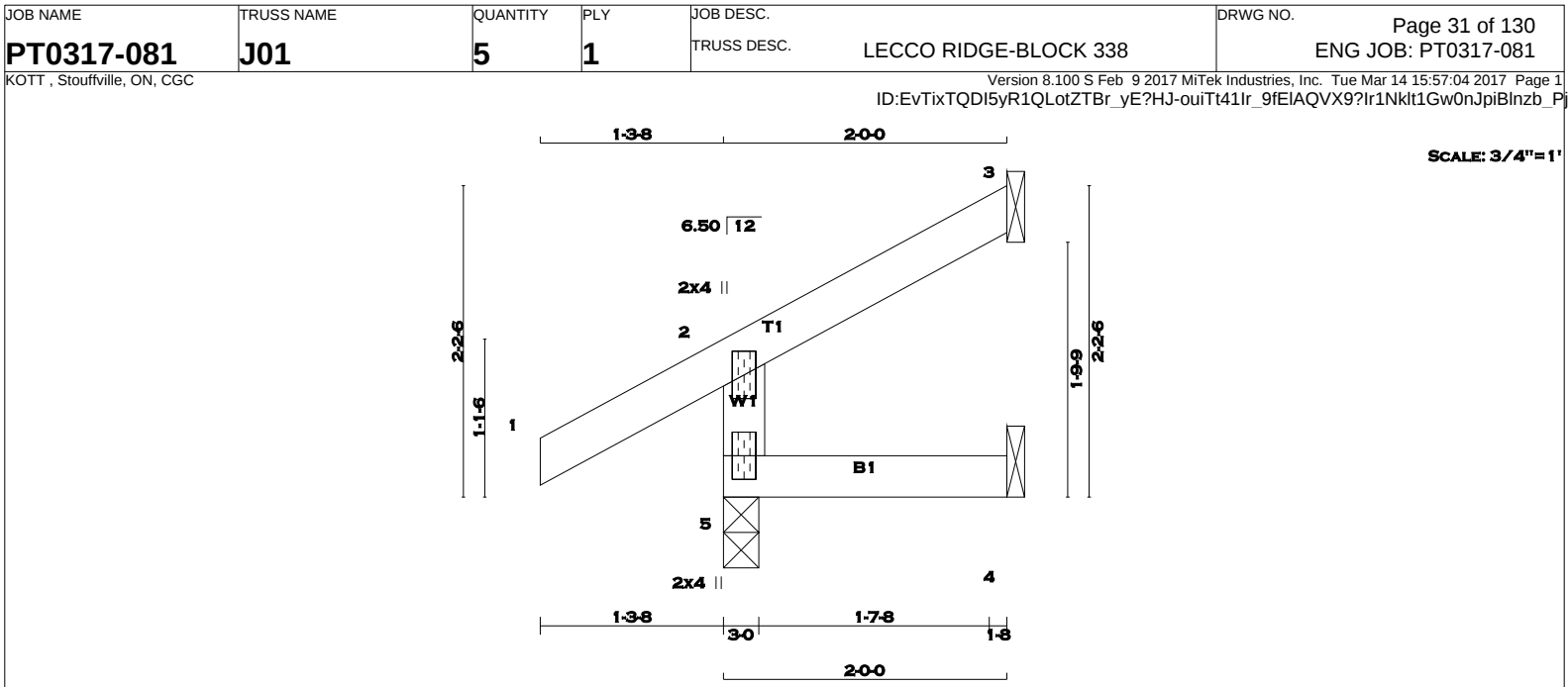
HANGERS NOTES
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 5381.8 lbs. FACTORED DOWN AT 1-10-0 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

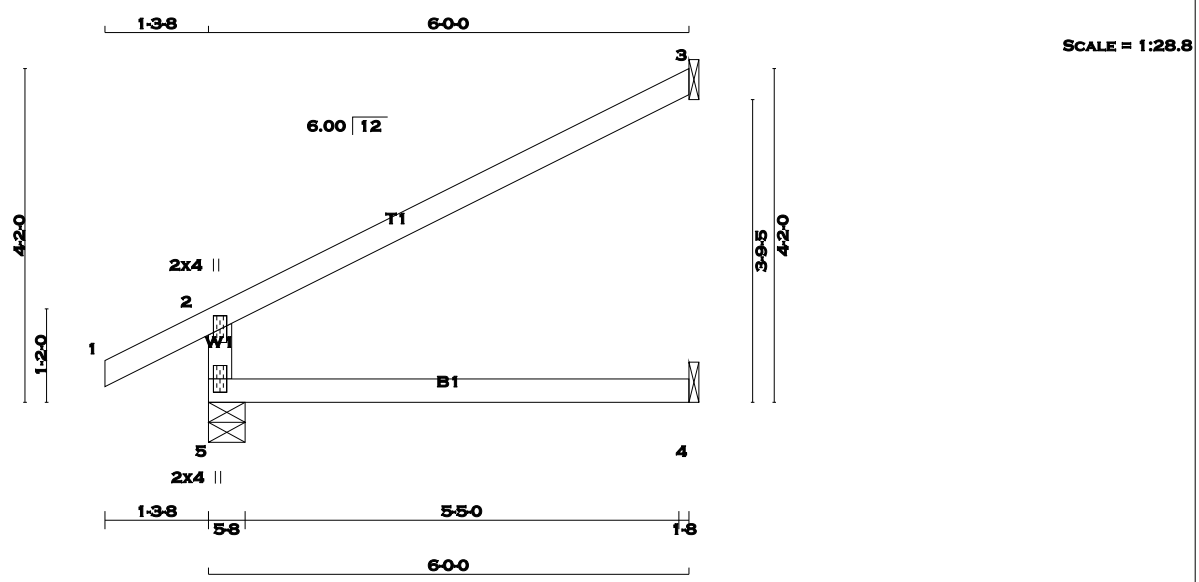


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TOTAL WEIGHT = 22 X 17 = 376 lb [M]

LUMBER
N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

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

BEARINGS

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

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

UNFACTORED REACTIONS

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

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

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

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

LOADING

TOTAL LOAD CASES: (4)

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	-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			

[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/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)	(PLI)
	MAX	MIN	MAX
MT20	618	354	1667

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

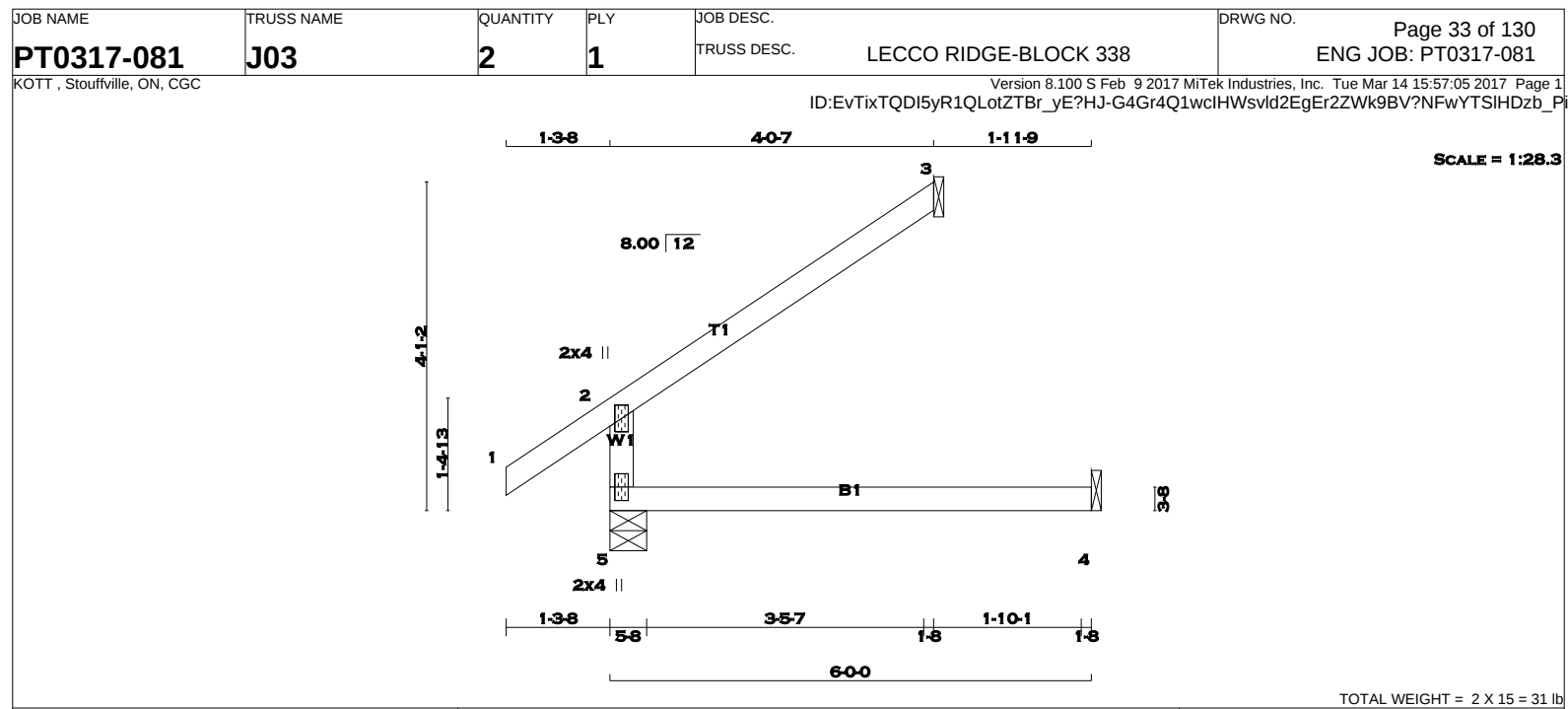
JSI GRIP= 0.23 (2) (INPUT = 0.90)
JSI METAL= 0.09 (2) (INPUT = 1.00)



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LUMBER
N. L. G. A. RULES
CHORDS SIZE LUMBER DESCR. 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							
<u>BEARINGS</u>							
	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT	REQRD	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	BRG IN-SX	BRG IN-SX
5	362	0	362	0	0	5-8	5-8
3	117	0	117	0	0	1-8	1-8
4	44	0	49	0	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS	PERM.LIVE	WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE			
5	254	181 / 0	0 / 0	0 / 0	0 / 0	0 / 0
3	80	71 / 0	0 / 0	0 / 0	0 / 0	0 / 0
4	35	0 / 0	0 / 0	0 / 0	35 / 0	0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (4)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH
FR-TO					FR-TO			
5-2		-301 / 0	0.0	0.0 0.12 (4)	7.81			
1-2		0 / 29	-77.3	-77.3 0.10 (1)	10.00			
2-3		-22 / 0	-77.3	-77.3 0.21 (1)	6.25			
5-4		0 / 0	-17.5	-17.5 0.13 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

CSI: TC=0.21 (2-3:1), BC=0.13 (4-5:4), WB=0.00 (n/a:0), SSI=0.13 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

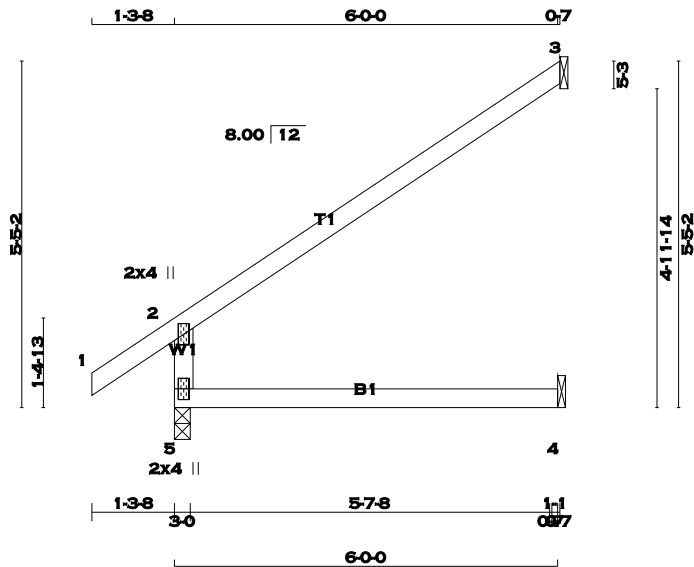
JSI GRIP= 0.19 (2) (INPUT = 0.90)
JSI METAL= 0.07 (2) (INPUT = 1.00)



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SCALE = 1:36.1

TOTAL WEIGHT = 4 X 18 = 73 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		
5	459	0	459	0	3-0	3-0
3	175	0	175	0	1-8	1-8
4	44	0	49	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	319	240 / 0	0 / 0	0 / 0	0 / 0	80 / 0	0 / 0
3	119	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	UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX	FACTORED MAX (LC)	
FR-TO		FROM	TO	LENGTH	FR-TO				
5-2	-398 / 0	0.0	0.0	0.10 (4)		7.81			
1-2	0 / 29	-77.3	-77.3	0.10 (1)		10.00			
2-3	-32 / 0	-77.3	-77.3	0.37 (1)		6.25			
5-4	0 / 0	-17.5	-17.5	0.13 (4)		10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

CSI: TC=0.37 (2-3:1) , BC=0.13 (4-5:4) , WB=0.00 (n/a:0) , SSI=0.19 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

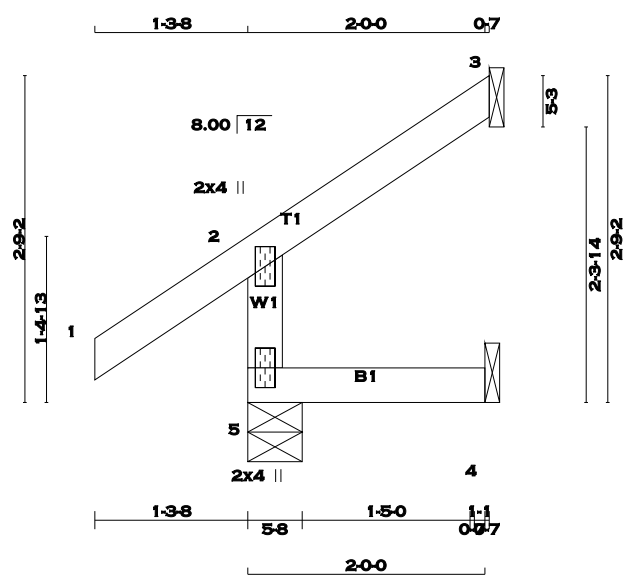
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JSI METAL= 0.10 (2) (INPUT = 1.00)



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

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

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	DOWN	IN-SX	IN-SX
5	223	0	5-8	5-8
3	60	0	1-8	1-8
4	16	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	154	123 / 0	0 / 0	0 / 0	0 / 0	31 / 0	0 / 0
3	40	36 / 0	0 / 0	0 / 0	0 / 0	5 / 0	0 / 0
4	13	0 / 0	0 / 0	0 / 0	0 / 0	13 / 0	0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (5)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
5-2	-204 / 0	0.0	0.0 0.01 (4)	7.81			
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00			
2-3	-11 / 0	-77.3	-77.3 0.05 (1)	6.25			
5-4	0 / 0	-17.5	-17.5 0.02 (4)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

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

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

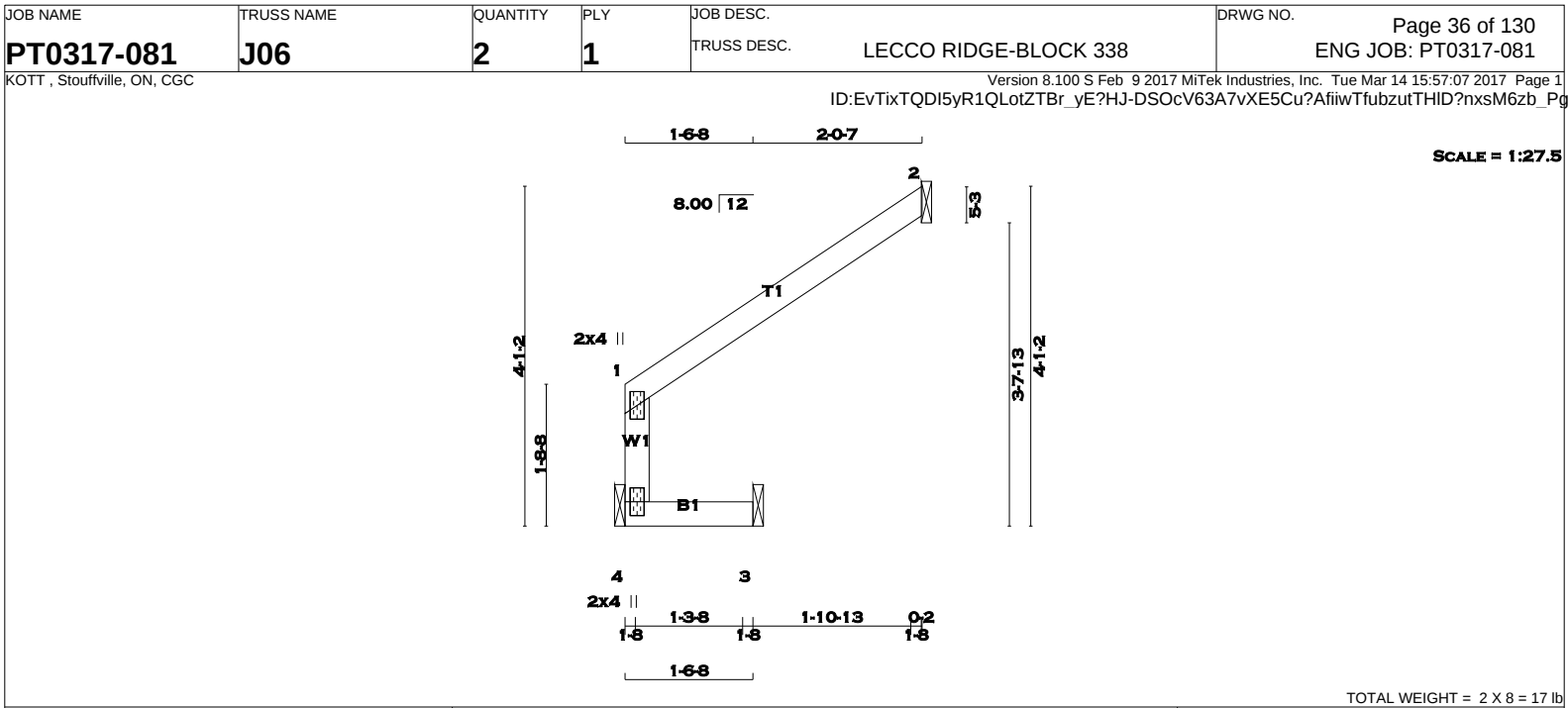
JSI GRIP= 0.13 (2) (INPUT = 0.90)
JSI METAL= 0.05 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 2 X 8 = 17 lb
[M][F]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMV+p	MT20	2.0	4.0		
4	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
4	133	0	133	0	1-8	1-8
2	124	0	124	0	1-8	1-8
3	47	0	47	0	1-8	1-8

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) 4, 2, 3

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
4	92	72 / 0	0 / 0	0 / 0	0 / 0	20 / 0	0 / 0
2	84	74 / 0	0 / 0	0 / 0	0 / 0	10 / 0	0 / 0
3	34	21 / 0	0 / 0	0 / 0	0 / 0	13 / 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. UNBRACED LENGTH	FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRACED LENGTH
FR-TO		FROM TO				FR-TO				
4-1	-153 / 0	0.0	0.0	0.06 (1)	7.81					
1-2	-8 / 0	-77.3	-77.3	0.13 (1)	10.00					
4-3	0 / 0	-17.5	-17.5	0.07 (1)	10.00					

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.19")
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=0.13 (1-2:1), BC=0.07 (3-4:1), WB=0.00 (n/a:0), SSI=0.10 (1-2:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

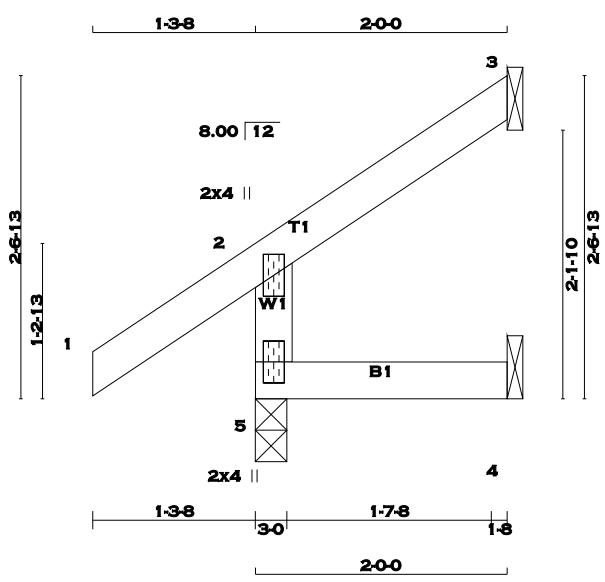
JSI GRIP= 0.10 (1) (INPUT = 0.90)
JSI METAL= 0.04 (1) (INPUT = 1.00)



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SCALE = 1:18.3

TOTAL WEIGHT = 10 X 8 = 79 lb [M]

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

DRY: SEASONED LUMBER.

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

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

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

BEARINGS

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

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

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	153	122 / 0	0 / 0	0 / 0	0 / 0	31 / 0	0 / 0
3	40	35 / 0	0 / 0	0 / 0	0 / 0	5 / 0	0 / 0
4	13	0 / 0	0 / 0	0 / 0	0 / 0	13 / 0	0 / 0

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

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

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

LOADING

TOTAL LOAD CASES: (5)

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

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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- TPIC 2011

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

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

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

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

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

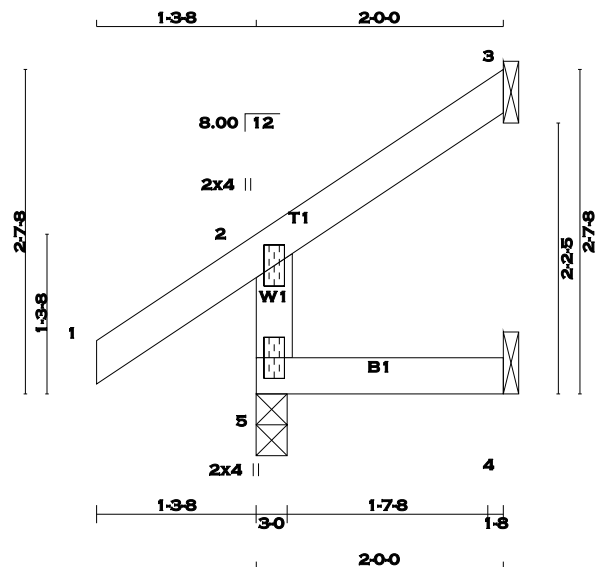
JSI GRIP= 0.13 (2) (INPUT = 0.90)
JSI METAL= 0.05 (2) (INPUT = 1.00)



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SCALE = 1:18.6

TOTAL WEIGHT = 2 X 8 = 16 lb

LUMBER

N. L. G. A. RULES

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

SPF
SPF
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	IN-SX
5	222	0	222	0	0	3-0	3-0	3-0
3	58	0	58	0	0	1-8	1-8	1-8
4	16	0	18	0	0	1-8	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	153	122 / 0	0 / 0	0 / 0	0 / 0	31 / 0	0 / 0
3	40	35 / 0	0 / 0	0 / 0	0 / 0	5 / 0	0 / 0
4	13	0 / 0	0 / 0	0 / 0	0 / 0	13 / 0	0 / 0

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

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (5)

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

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 23.3 PSF

DL = 3.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.0 PSF

TOTAL LOAD = 33.3 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

- CSA 086-09

- TPIC 2011

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEFL.(LL)= L/360 (0.19")

CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")

ALLOWABLE DEFL.(TL)= L/360 (0.19")

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

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

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.13 (2) (INPUT = 0.90)

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



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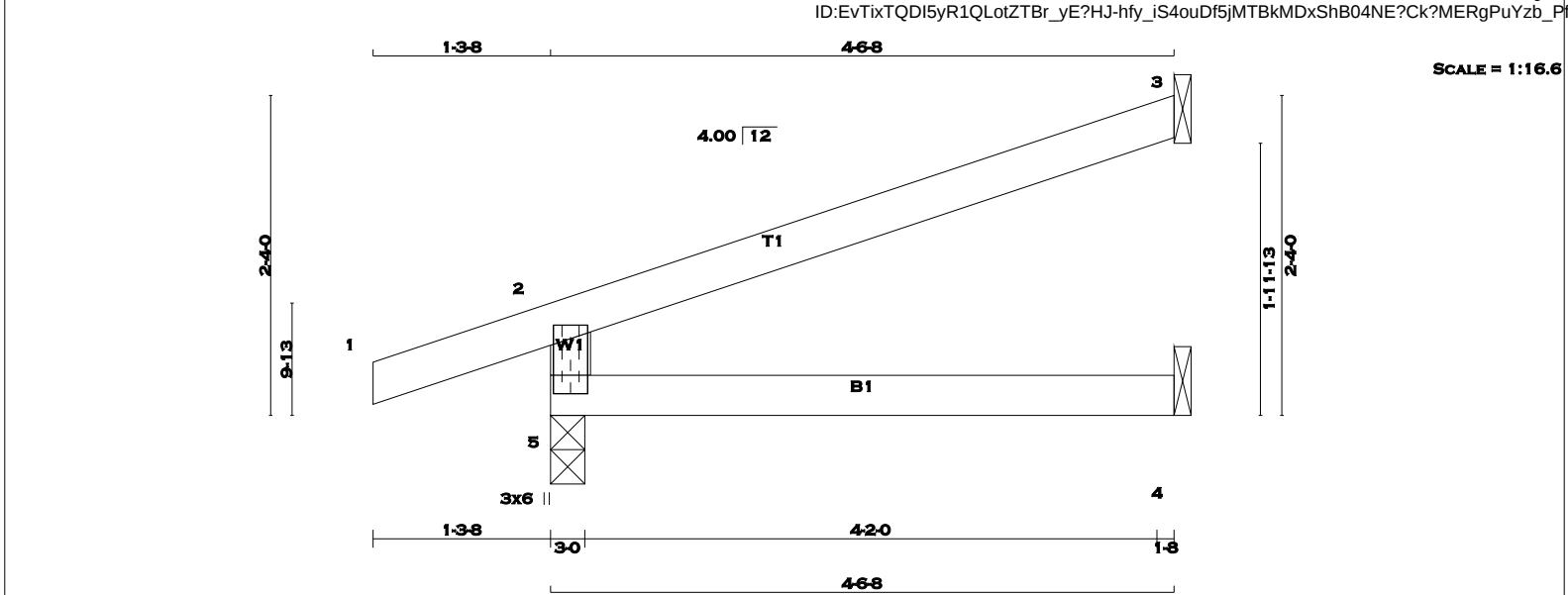
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LUMBER

N. L. G. A. RULES

CHORDS

SIZE

LUMBER

DESCR.

SPF

SPF

5 - 2

2x4

DRY

No.2

1 - 3

2x4

DRY

No.2

5 - 4

2x4

DRY

No.2

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

5

370

0

370

0

0

3-0

3-0

3

132

0

132

0

0

1-8

1-8

4

32

0

36

0

0

1-8

1-8

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

UNFACTORED REACTIONS

1ST LCASE

MAX./MIN. COMPONENT REACTIONS

JT

COMBINED

SNOW

LIVE

PERM.LIVE

WIND

DEAD

SOIL

5

257

194 / 0

0 / 0

0 / 0

0 / 0

63 / 0

0 / 0

3

90

79 / 0

0 / 0

0 / 0

0 / 0

10 / 0

0 / 0

4

26

0 / 0

0 / 0

0 / 0

0 / 0

26 / 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

MAX. FACTORED

FACTORED

WEBS

MAX. FACTORED

MEMB.

FORCE

VERT. LOAD

LC1

MAX

MEMB.

FORCE

MAX

FR-TO

FROM

TO

LENGTH

FR-TO

5-2

-323 / 0

0.0

0.0

0.08 (4)

7.81

1-2

0 / 16

-77.3

-77.3

0.10 (1)

10.00

2-3

-14 / 0

-77.3

-77.3

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, 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 (0.01")

CSI: TC=0.27 (2-3:1) , BC=0.08 (4-5:4) , WB=0.00 (n/a:0) , SSI=0.16 (2-3:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

PLATE

GRIP(DRY)

SHEAR

SECTION

(PSI)

(PLI)

(PLI)

(PLI)

MAX

MIN

MAX

MIN

MAX

MIN

MT20

618

354

1667

822

2284

1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.28 (5) (INPUT = 0.90)

JSI METAL= 0.04 (5) (INPUT = 1.00)



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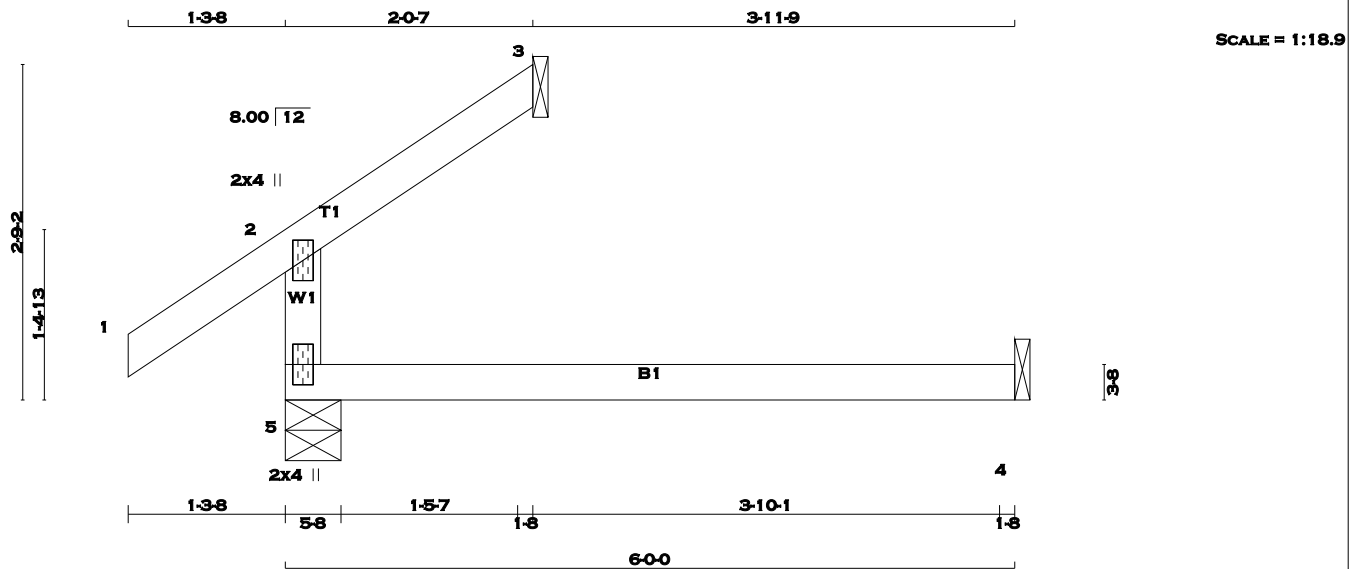
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TOTAL WEIGHT = 2 X 13 = 25 lb [M]

LUMBER

N. L. G. A. RULES		LUMBER		DESCR.
CHORDS	SIZE			SPF
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		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
5		265	0	265	0	0	5-8	5-8	
3		60	0	60	0	0	1-8	1-8	
4		44	0	49	0	0	1-8	1-8	

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.	LIVE	WIND	DEAD	SOIL	
5	188	123 / 0	0 / 0	0 / 0	0 / 0	0 / 0	65 / 0	0 / 0	
3	40	36 / 0	0 / 0	0 / 0	0 / 0	0 / 0	5 / 0	0 / 0	
4	35	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	35 / 0	0 / 0	

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

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

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

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

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

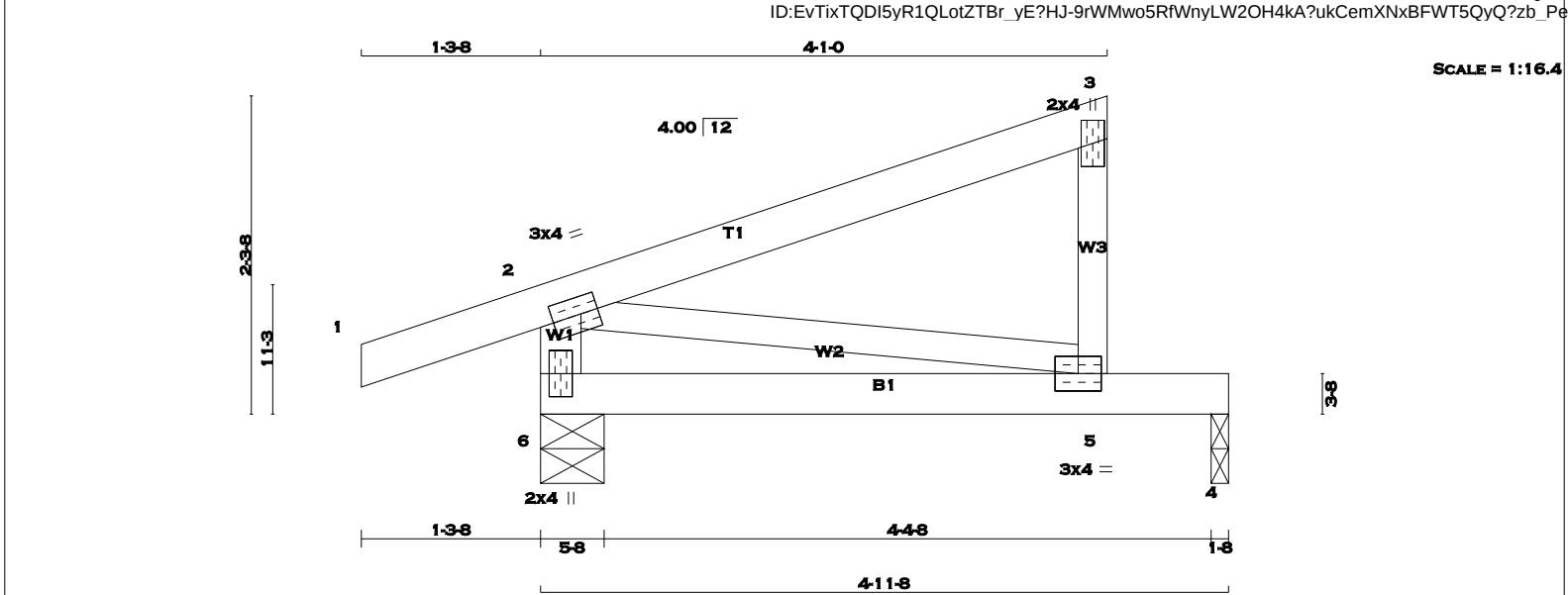
JSI GRIP= 0.13 (2) (INPUT = 0.90)
JSI METAL= 0.05 (2) (INPUT = 1.00)



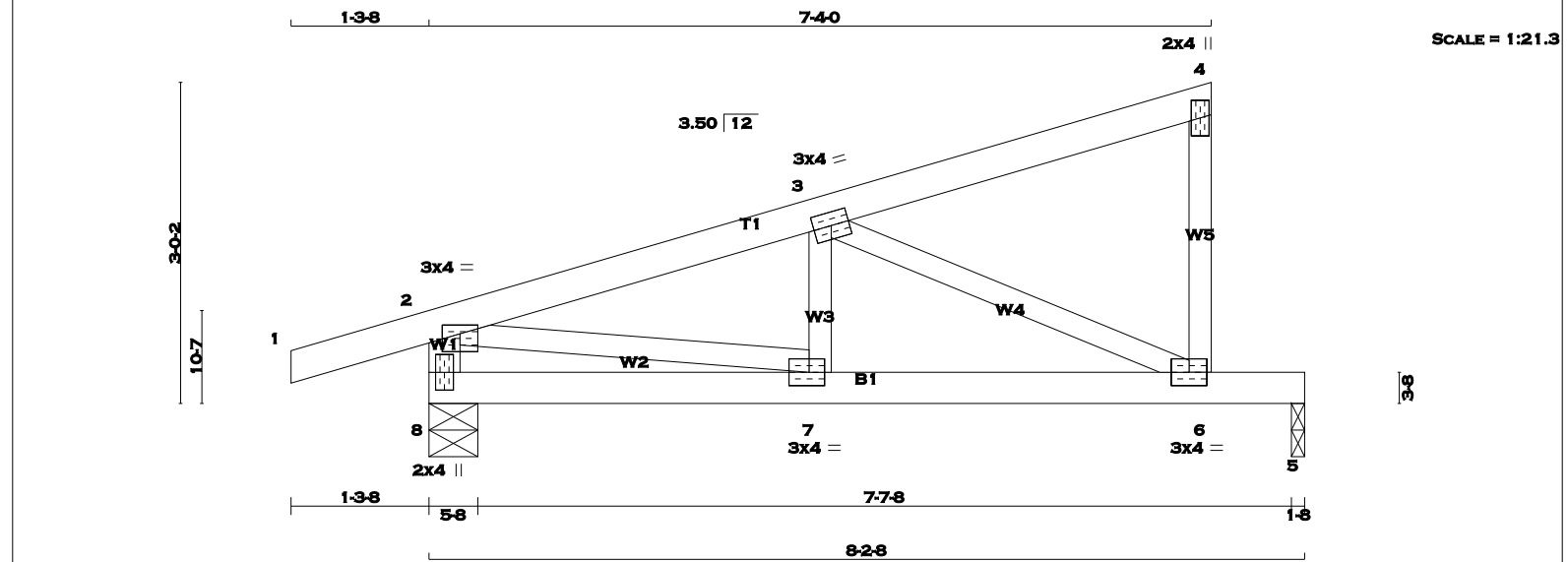
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LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. 1 - 3 2x4 DRY No.2 SPF 5 - 3 2x3 DRY No.2 SPF 6 - 2 2x4 DRY No.2 SPF 6 - 4 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF DRY: SEASONED LUMBER.				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR 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 6 333 0 333 0 0 5-8 5-8 4 173 0 173 0 0 1-8 1-8 UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 6 231 174 / 0 0 / 0 0 / 0 57 / 0 0 / 0 4 123 78 / 0 0 / 0 0 / 0 0 / 0 45 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6, 4 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. LOADING TOTAL LOAD CASES: (4) CHORDS WEBS MEMB. MAX. FACTORED FORCE VERT. LOAD LC1 MAX. MAX. MEMB. MAX. FACTORED FORCE MAX. (LBS) (PLF) CSI (LC) UNBRAC LENGTH FR-TO (LBS) CSI (LC) FR-TO FROM TO 1-2 0 / 16 -77.3 -77.3 0.10 (1) 10.00 2-5 0 / 0 0.00 (1) 2-3 0 / 0 -77.3 -77.3 0.22 (1) 10.00 5-3 -158 / 0 0.0 0.0 0.03 (1) 7.81 6-2 -261 / 0 0.0 0.0 0.03 (1) 7.81 6-5 0 / 0 -17.5 -17.5 0.20 (1) 10.00 5-4 0 / 0 -17.5 -17.5 0.20 (1) 10.00				DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.0 PSF TOTAL LOAD = 33.3 PSF SPACING = 24.0 IN. C/C THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (0.19") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03") ALLOWABLE DEFL.(TL)= L/360 (0.19") CALCULATED VERT. DEFL.(TL) = L/ 872 (0.07") CSI: TC=0.22 (2-3:1) , BC=0.20 (5-6:1) , WB=0.00 (2-5:1) , SSI=0.14 (4-5:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 822 2284 1656 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.24 (2) (INPUT = 0.90) JSI METAL= 0.05 (6) (INPUT = 1.00)			
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TOTAL WEIGHT = 18 X 29 = 519 lb
[M][F]

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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-p	MT20	3.0	4.0	1.00	2.00
3	TMVW-t	MT20	3.0	4.0		
4	TMV+p	MT20	2.0	4.0		
6	BMVW-t	MT20	3.0	4.0		
7	BMVW-t	MT20	3.0	4.0	1.50	1.75
8	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT		GROSS REACTION		GROSS REACTION		BRG		BRG	
8	489	0	489	0	0	5-8	5-8		
5	325	0	325	0	0	1-8	1-8		

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX/MIN.	COMPONENT	REACTIONS			
8	341	251 / 0	0 / 0	PERM.LIVE	WIND	DEAD	SOIL
5	230	153 / 0	0 / 0	0 / 0	0 / 0	77 / 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		FACTORED		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX	MEMB.	FORCE (LBS)	MAX	CSI (LC)
FR-TO		FROM TO	LENGTH	FR-TO			
1-2	0 / 14	-77.3 -77.3	0.10 (1)	10.00	7-3	0 / 94	0.03 (4)
2-3	-604 / 0	-77.3 -77.3	0.12 (1)	6.25	3-6	-644 / 0	0.17 (1)
3-4	-8 / 0	-77.3 -77.3	0.12 (1)	10.00	2-7	0 / 595	0.13 (1)
6-4	-112 / 0	0.0 0.0	0.02 (1)	7.81			
8-2	-478 / 0	0.0 0.0	0.05 (1)	7.81			
8-7	0 / 0	-17.5 -17.5	0.11 (1)	10.00			
7-6	0 / 588	-17.5 -17.5	0.47 (1)	10.00			
6-5	0 / 0	-17.5 -17.5	0.38 (1)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C/C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.27")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.27")
CALCULATED VERT. DEFL.(TL) = L/ 921 (0.11")

CSI: TC=0.12 (2-3:1) , BC=0.47 (6-7:1) , WB=0.17 (3-6:1) , SSI=0.25 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

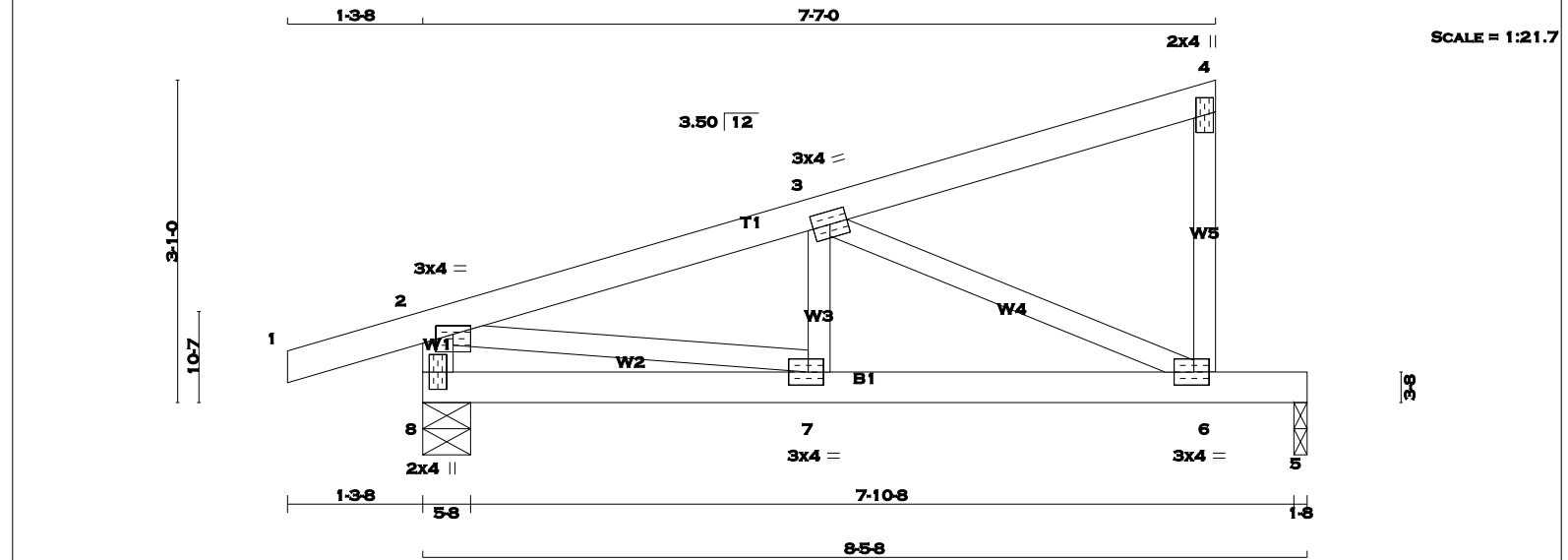
JSI GRIP= 0.89 (6) (INPUT = 0.90)
JSI METAL= 0.22 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 7 X 30 = 208 lb [M][F]

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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-p	MT20	3.0	4.0	1.00	2.00
3	TMVW-t	MT20	3.0	4.0		
4	TMV+p	MT20	2.0	4.0		
6	BMVW-t	MT20	3.0	4.0	1.50	1.75
7	BMVW-t	MT20	3.0	4.0	1.50	1.75
8	BMV1+p	MT20	2.0	4.0		

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

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

		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
8		501	0	501	0	0	5-8	5-8	
5		337	0	337	0	0	1-8	1-8	

UNFACTORED REACTIONS							
JT	1ST LCASE	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
8		349	257 / 0	0 / 0	0 / 0	0 / 0	92 / 0
5		238	158 / 0	0 / 0	0 / 0	0 / 0	80 / 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. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FORCE (LBS)	FACTORED MAX. CSI (LC)		
FR-TO		FROM TO			FR-TO				
1-2	0 / 14	-77.3	-77.3 0.10 (1)	10.00	7-3	0 / 97	0.03 (4)		
2-3	-629 / 0	-77.3	-77.3 0.13 (1)	6.25	3-6	-670 / 0	0.19 (1)		
3-4	-9 / 0	-77.3	-77.3 0.13 (1)	10.00	2-7	0 / 619	0.14 (1)		
6-4	-115 / 0	0.0	0.0 0.03 (1)	7.81					
8-2	-489 / 0	0.0	0.0 0.05 (1)	7.81					
8-7	0 / 0	-17.5	-17.5 0.11 (1)	10.00					
7-6	0 / 612	-17.5	-17.5 0.49 (1)	10.00					
6-5	0 / 0	-17.5	-17.5 0.39 (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 (0.28")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.28")
CALCULATED VERT. DEFL.(TL) = L/ 873 (0.12")

CSI: TC=0.13 (2-3:1) , BC=0.49 (6-7:1) , WB=0.19 (3-6:1) , SSI=0.26 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) 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.

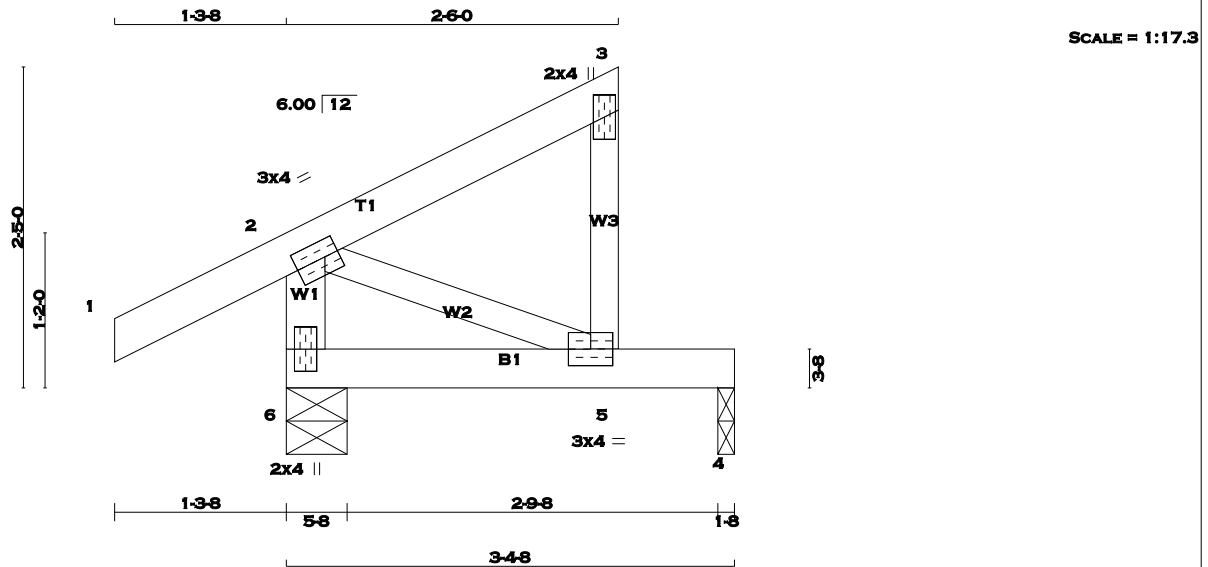
JSI GRIP= 0.83 (7) (INPUT = 0.90)
JSI METAL= 0.23 (7) (INPUT = 1.00)



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

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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	4.0	1.50	1.25
3	TMV+p	MT20	2.0	4.0		
5	BMVW-t	MT20	3.0	4.0		
6	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
6	256	0	256	0	0	5-8	5-8	5-8	
4	101	0	101	0	0	1-8	1-8	1-8	

UNFACTORED REACTIONS							
JT	1ST LCASE	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
6	178	136	0	0/0	0/0	0/0	41/0
4	72	43	0	0/0	0/0	0/0	29/0

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

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

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

LOADING							
TOTAL LOAD CASES: (5)							
CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	FR-TO
1-2	0/23	-77.3	-77.3 0.10 (1)	2-5	0/0	0.00 (1)	
2-3	0/0	-77.3	-77.3 0.08 (1)				
5-3	-97/0	0.0	0.0 0.02 (1)				
6-2	-202/0	0.0	0.0 0.02 (1)				
6-5	0/0	-17.5	-17.5 0.11 (1)				
5-4	0/0	-17.5	-17.5 0.11 (1)				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

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

SPACING = 24.0 IN./C/C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.02")

CSI: TC=0.10 (1-2:1), BC=0.11 (4-5:1), WB=0.00 (2-5:1), SSI=0.08 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

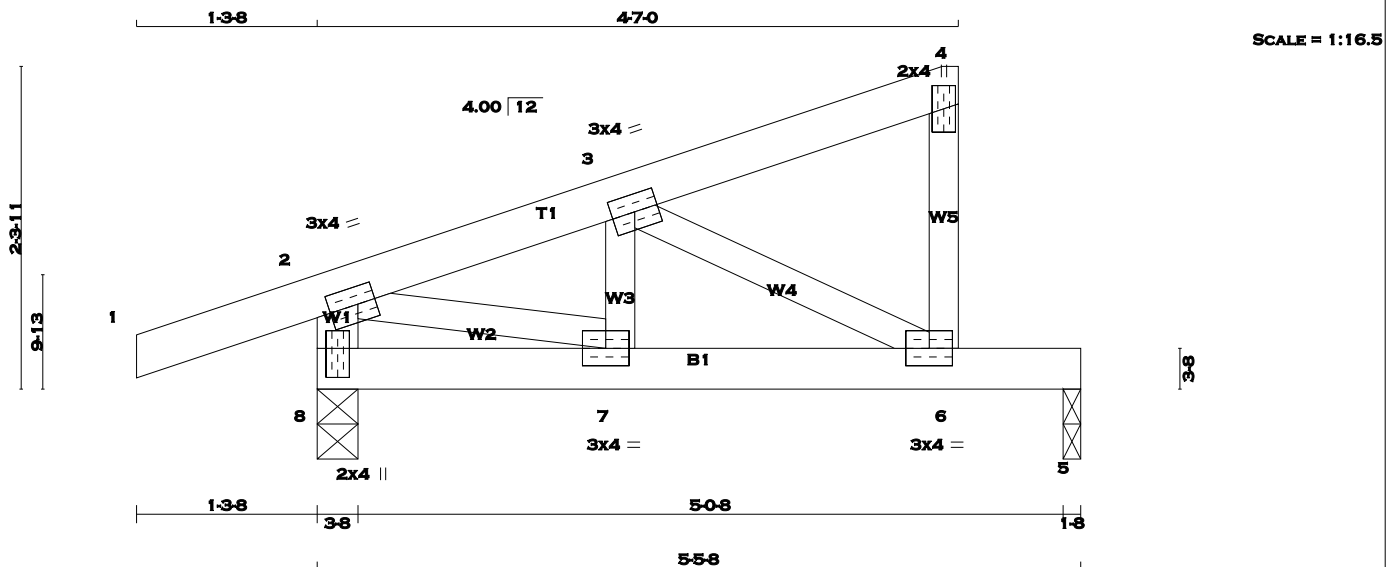
JSI GRIP= 0.18 (2) (INPUT = 0.90)
JSI METAL= 0.04 (6) (INPUT = 1.00)



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TOTAL WEIGHT = 19 lb [M]

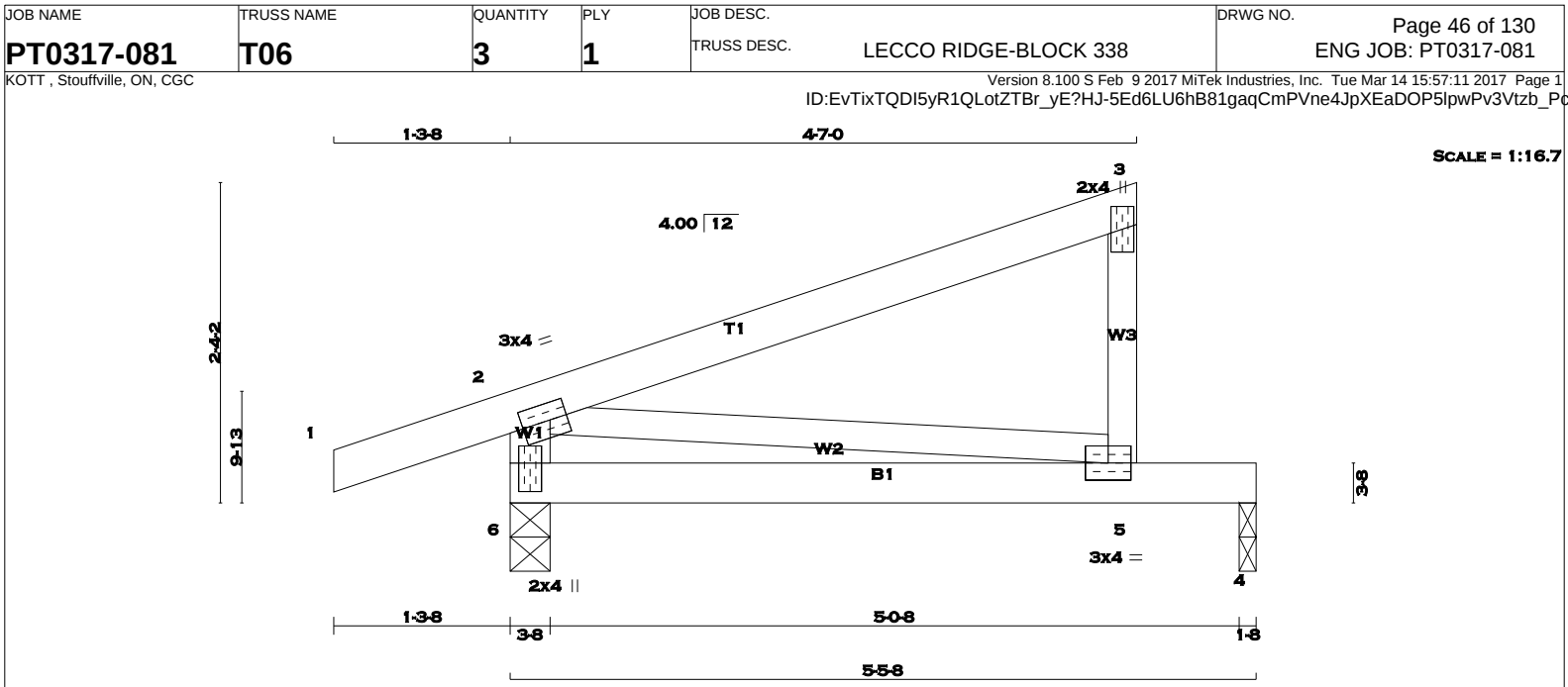
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR.				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS				DESIGN CRITERIA			
1 - 4	2x4	DRY	No.2	SPF	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG	SPECIFIED LOADS:	TOP CH.	LL = 23.3 PSF
6 - 4	2x3	DRY	No.2	SPF	VERT	HORZ	DOWN	HORZ	DL = 3.0 PSF	BOT CH.	LL = 0.0 PSF
8 - 2	2x4	DRY	No.2	SPF	8 357 0	5 197 0	357 0	197 0	DL = 7.0 PSF	TOTAL LOAD	= 33.3 PSF
8 - 5	2x4	DRY	No.2	SPF			0 0	0 0			
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	UNFACTORED REACTIONS 1ST LCASE MAX/MIN. COMPONENT REACTIONS				SPACING = 24.0 IN./C		
DRY: SEASONED LUMBER.					JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL				THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010		
					8 248 186 / 0 0 / 0 0 / 0 0 / 0 62 / 0 0 / 0				THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014 - CSA 086-09 - TPIC 2011		
					5 139 90 / 0 0 / 0 0 / 0 0 / 0 50 / 0 0 / 0				(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD		
PLATES (table is in inches) JT TYPE PLATES W LEN Y X					BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8, 5				ALLOWABLE DEFL.(LL)= L/360 (0.19") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02") ALLOWABLE DEFL.(TL)= L/360 (0.19") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")		
2 TMVW-t MT20 3.0 4.0 1.50 1.50					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.				CSI: TC=0.10 (1-2:1) , BC=0.28 (6-7:1) , WB=0.08 (2-7:1) , SSI=0.15 (5-6:1)		
3 TMVW-t MT20 3.0 4.0					ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.				DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10		
4 TMV+p MT20 2.0 4.0					LOADING TOTAL LOAD CASES: (4)				COMPANION LIVE LOAD FACTOR = 0.50		
6 BMVW-t MT20 3.0 4.0					CHORDS	WEBS			TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .		
7 BMVW-t MT20 3.0 4.0					MEMB. MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LC)	UNBRAC LENGTH	MEMB. MAX. FORCE (LBS)	FACTORED MAX (LC)	
8 BMV1+p MT20 2.0 4.0 2.50 1.00					FR-TO	FROM TO			FR-TO		
					1-2 0 / 16	-77.3 -77.3	0.10 (1)	10.00	7-3 0 / 65	0.02 (4)	
					2-3 -336 / 0	-77.3 -77.3	0.05 (1)	6.25	3-6 -365 / 0	0.06 (1)	
					3-4 -5 / 0	-77.3 -77.3	0.05 (1)	10.00	2-7 0 / 334	0.08 (1)	
					6-4 -78 / 0	0.0 0.0	0.01 (1)	7.81			
					8-2 -356 / 0	0.0 0.0	0.04 (1)	7.81			
					8-7 0 / 0	-17.5 -17.5	0.05 (1)	10.00			
					7-6 0 / 324	-17.5 -17.5	0.28 (1)	10.00			
					6-5 0 / 0	-17.5 -17.5	0.22 (1)	10.00			
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.											



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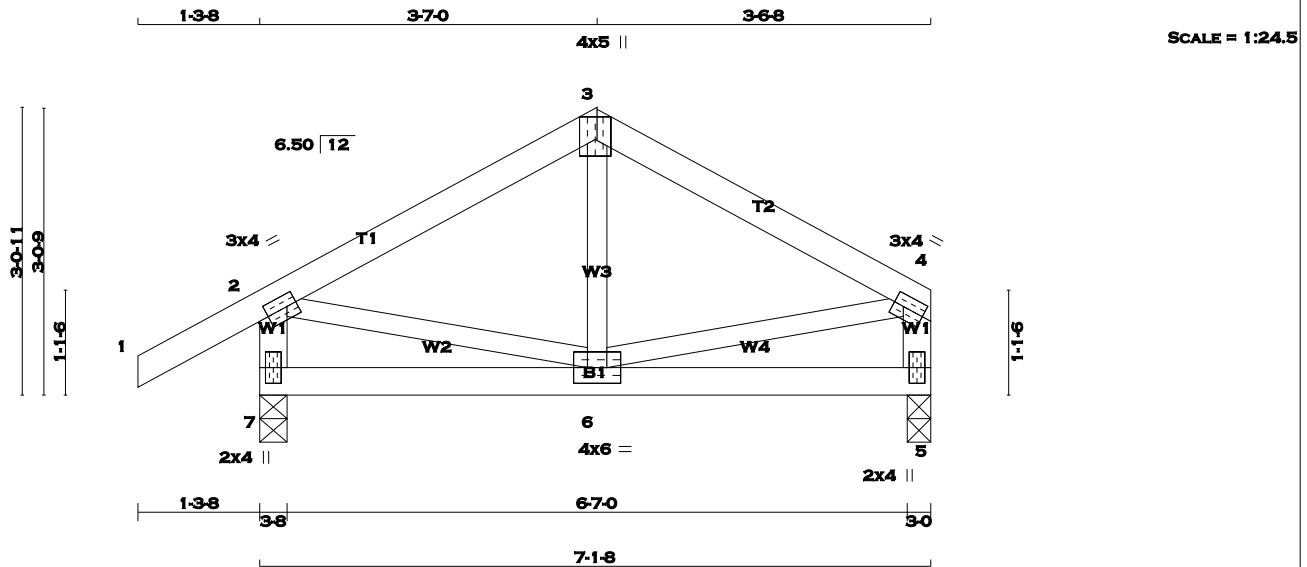
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. 1 - 3 2x4 DRY No.2 SPF 5 - 3 2x3 DRY No.2 SPF 6 - 2 2x4 DRY No.2 SPF 6 - 4 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF DRY: SEASONED LUMBER.										DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS <table><tr><th></th><th colspan="2">FACTORED GROSS REACTION</th><th colspan="2">MAXIMUM FACTORED GROSS REACTION</th><th>INPUT BRG</th><th>REQRD BRG</th></tr><tr><th>JT</th><th>VERT</th><th>HORZ</th><th>DOWN</th><th>HORZ</th><th>UPLIFT</th><th>IN-SX</th></tr><tr><td>6</td><td>357</td><td>0</td><td>357</td><td>0</td><td>0</td><td>3-8</td></tr><tr><td>4</td><td>197</td><td>0</td><td>197</td><td>0</td><td>0</td><td>1-8</td></tr></table> UNFACTORED REACTIONS <table><tr><th>JT</th><th>1ST LCASE COMBINED</th><th colspan="2">MAX./MIN. SNOW</th><th colspan="2">MAX./MIN. LIVE</th><th>PERM. LIVE</th><th>WIND</th><th>DEAD</th><th>SOIL</th></tr><tr><td>6</td><td>248</td><td>186 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>62 / 0</td><td>0 / 0</td></tr><tr><td>4</td><td>139</td><td>90 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>50 / 0</td><td>0 / 0</td></tr></table> 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) <table><tr><th colspan="4">CHORDS</th><th colspan="4">WEBS</th></tr><tr><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>FACTORED VERT. LOAD (PLF)</th><th>MAX. LC1 (LC)</th><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>MAX. LC1 (LC)</th><th></th></tr><tr><td>FR-TO</td><td></td><td>FROM</td><td>TO</td><td>FR-TO</td><td></td><td></td><td></td></tr><tr><td>1-2</td><td>0 / 16</td><td>-77.3</td><td>-77.3 0.10 (1)</td><td>10.00</td><td>2-5</td><td>0 / 0</td><td>0.00 (1)</td></tr><tr><td>2-3</td><td>0 / 0</td><td>-77.3</td><td>-77.3 0.28 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>5-3</td><td>-177 / 0</td><td>0.0</td><td>0.0 0.03 (1)</td><td>7.81</td><td></td><td></td><td></td></tr><tr><td>6-2</td><td>-281 / 0</td><td>0.0</td><td>0.0 0.03 (1)</td><td>7.81</td><td></td><td></td><td></td></tr><tr><td>6-5</td><td>0 / 0</td><td>-17.5</td><td>-17.5 0.23 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>5-4</td><td>0 / 0</td><td>-17.5</td><td>-17.5 0.22 (1)</td><td>10.00</td><td></td><td></td><td></td></tr></table>											FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG	JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	6	357	0	357	0	0	3-8	4	197	0	197	0	0	1-8	JT	1ST LCASE COMBINED	MAX./MIN. SNOW		MAX./MIN. LIVE		PERM. LIVE	WIND	DEAD	SOIL	6	248	186 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	62 / 0	0 / 0	4	139	90 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	50 / 0	0 / 0	CHORDS				WEBS				MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)		FR-TO		FROM	TO	FR-TO				1-2	0 / 16	-77.3	-77.3 0.10 (1)	10.00	2-5	0 / 0	0.00 (1)	2-3	0 / 0	-77.3	-77.3 0.28 (1)	10.00				5-3	-177 / 0	0.0	0.0 0.03 (1)	7.81				6-2	-281 / 0	0.0	0.0 0.03 (1)	7.81				6-5	0 / 0	-17.5	-17.5 0.23 (1)	10.00				5-4	0 / 0	-17.5	-17.5 0.22 (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/ 682 (0.10") CSI: TC=0.28 (2-3:1) , BC=0.23 (5-6:1) , WB=0.00 (2-5:1) , SSI=0.15 (4-5:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 822 2284 1656 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.26 (2) (INPUT = 0.90) JSI METAL= 0.05 (6) (INPUT = 1.00)									
	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG																																																																																																																																																									
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX																																																																																																																																																									
6	357	0	357	0	0	3-8																																																																																																																																																									
4	197	0	197	0	0	1-8																																																																																																																																																									
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FR-TO		FROM	TO	FR-TO																																																																																																																																																											
1-2	0 / 16	-77.3	-77.3 0.10 (1)	10.00	2-5	0 / 0	0.00 (1)																																																																																																																																																								
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TOTAL WEIGHT = 3 X 28 = 84 lb
[M][F]

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

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

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

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	GROSS REACTION	HORZ	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
7	443	0	443	0	0	3-8	3-8	3-8	3-8
5	338	0	338	0	0	3-0	3-0	3-0	3-0

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
7	309	229 / 0	0 / 0	0 / 0	0 / 0	79 / 0	0 / 0		
5	237	166 / 0	0 / 0	0 / 0	0 / 0	71 / 0	0 / 0		

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

BRACING

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

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

LOADING

TOTAL Load CASES: (4)

CHORDS		MAX. FACTORED		FACTORED		W E B S		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	LC1 MAX (PLF)	LC1 (LC)	UNBRAC LENGTH FR-TO	MEMB.	FORCE (LBS)	MAX (LBS)	LC1 (LC)
1-2	0 / 25	-77.3	-77.3	0.10 (1)	10.00	6-3	-28 / 52	0.02 (4)	
2-3	-259 / 0	-77.3	-77.3	0.13 (1)	6.25	2-6	0 / 234	0.05 (1)	
3-4	-260 / 0	-77.3	-77.3	0.12 (1)	6.25	6-4	0 / 234	0.05 (1)	
7-2	-418 / 0	0.0	0.0	0.04 (1)	7.81				
5-4	-313 / 0	0.0	0.0	0.03 (1)	7.81				
7-6	0 / 0	-17.5	-17.5	0.06 (4)	10.00				
6-5	0 / 0	-17.5	-17.5	0.06 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C/C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.24")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.24")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.13 (2-3:1), BC=0.06 (6-7:4), WB=0.05 (4-6:1), SSI=0.10 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR 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.

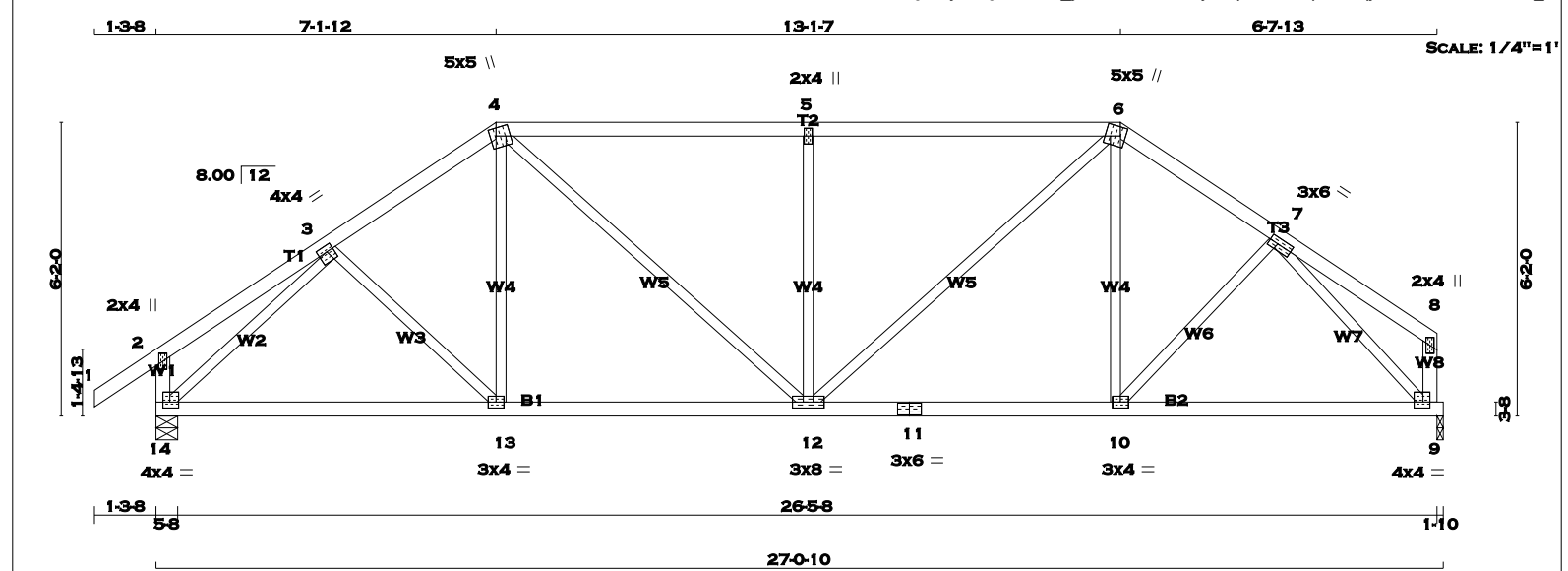
JSI GRIP= 0.57 (4) (INPUT = 0.90)
JSI METAL= 0.14 (2) (INPUT = 1.00)



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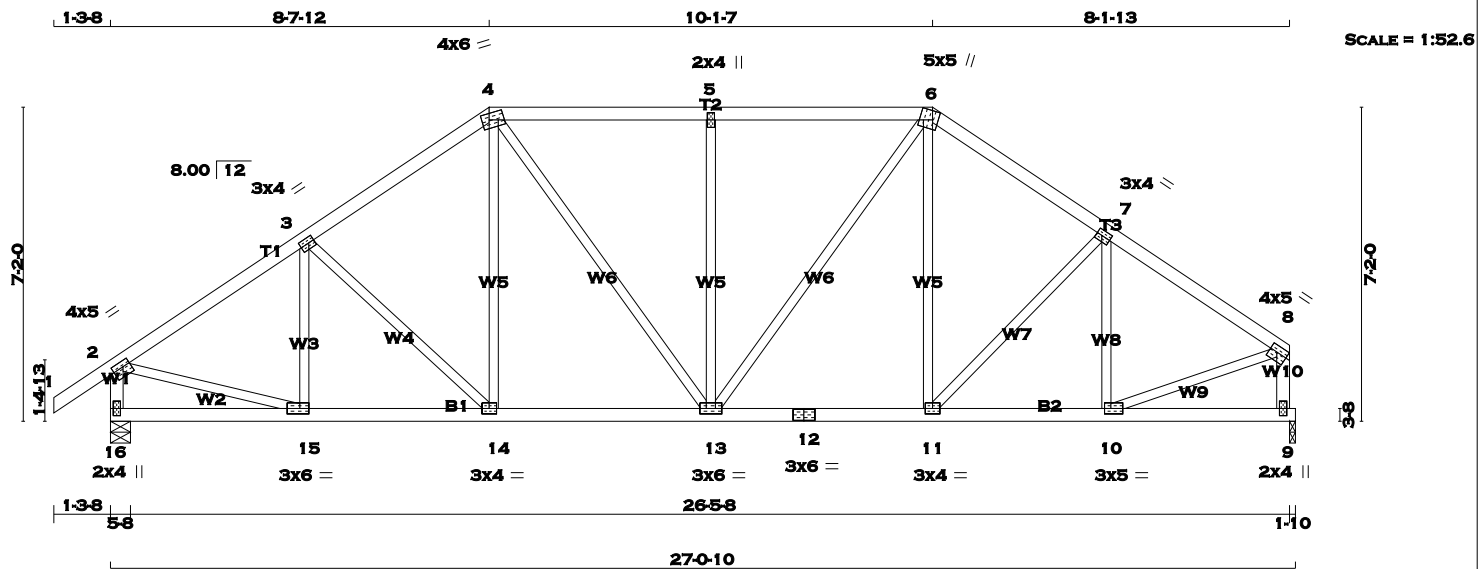
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. 1 - 4 2x4 DRY No.2 SPF 4 - 6 2x4 DRY No.2 SPF 6 - 8 2x4 DRY No.2 SPF 14 - 2 2x4 DRY No.2 SPF 9 - 8 2x4 DRY No.2 SPF 14 - 11 2x4 DRY No.2 SPF 11 - 9 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT DRY: SEASONED LUMBER.			DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED MAXIMUM FACTORED INPUT REQ'D GROSS REACTION GROSS REACTION BRG BRG JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX 14 1383 0 1383 0 0 5-8 5-8 9 1276 0 1276 0 0 1-10 1-10 UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 14 968 691 / 0 0 / 0 0 / 0 277 / 0 0 / 0 9 896 627 / 0 0 / 0 0 / 0 0 / 0 269 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 14, 9 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.76 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. LOADING TOTAL LOAD CASES: (4) CHORDS WEBS MEMB. MAX. FACTORED FORCE VERT. LOAD LC1 MAX. MAX. MEMB. MAX. FACTORED FORCE MAX. (LBS) (PLF) CSI (LC) UNBRAC LENGTH FR-TO (LBS) CSI (LC) FR-TO FROM TO 1-2 0 / 29 -77.3 -77.3 0.10 (1) 10.00 3-13 0 / 51 0.02 (4) 2-3 0 / 16 -77.3 -77.3 0.14 (1) 10.00 13-4 0 / 134 0.04 (4) 3-4 -1410 / 0 -77.3 -77.3 0.13 (1) 5.37 4-12 0 / 506 0.11 (1) 4-5 -1537 / 0 -77.3 -77.3 0.47 (1) 4.76 12-5 -623 / 0 0.37 (1) 5-6 -1537 / 0 -77.3 -77.3 0.47 (1) 4.76 12-6 0 / 579 0.13 (1) 6-7 -1345 / 0 -77.3 -77.3 0.11 (1) 5.49 10-6 0 / 95 0.03 (4) 7-8 0 / 15 -77.3 -77.3 0.12 (1) 10.00 10-7 0 / 104 0.03 (4) 14-2 -215 / 0 0.0 0.0 0.02 (1) 7.81 14-3 -1604 / 0 0.63 (1) 9-8 -102 / 0 0.0 0.0 0.01 (1) 7.81 7-9 -1529 / 0 0.58 (1) 14-13 0 / 1151 -17.5 -17.5 0.30 (1) 10.00 13-12 0 / 1160 -17.5 -17.5 0.30 (1) 10.00 12-11 0 / 1105 -17.5 -17.5 0.29 (1) 10.00 11-10 0 / 1105 -17.5 -17.5 0.29 (1) 10.00 10-9 0 / 1033 -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 6.00/12 THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (0.90") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06") ALLOWABLE DEFL.(TL)= L/360 (0.90") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11") CSI: TC=0.47 (4-5:1) , BC=0.30 (12-13:1) , WB=0.63 (3-14:1) , SSI=0.25 (5-6:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 822 2284 1656 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.89 (14) (INPUT = 0.90) JSI METAL= 0.59 (3) (INPUT = 1.00)		
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IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 2 X 121 = 243 lb
[M][F]

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2
4 - 6	2x4	DRY	No.2
6 - 8	2x4	DRY	No.2
16 - 2	2x4	DRY	No.2
9 - 8	2x4	DRY	No.2
16 - 12	2x4	DRY	No.2
12 - 9	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
SPF			
DRY: SEASONED LUMBER.			

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	5.0	1.50	2.00
3	TMVW-t	MT20	3.0	4.0	1.50	1.50
4	TTWW-m	MT20	4.0	6.0	1.75	2.00
5	TMVW-w	MT20	2.0	4.0		
6	TTWW+m	MT20	5.0	5.0	2.50	1.50
7	TMVW-t	MT20	3.0	4.0	1.50	1.50
8	TMVW-t	MT20	4.0	5.0	1.75	Edge
9	BMV1+p	MT20	2.0	4.0		
10	BMVW-t	MT20	3.0	5.0	1.50	1.75
11	BMVW-t	MT20	3.0	4.0		
12	BS-t	MT20	3.0	6.0		
13	BMVWV-t	MT20	3.0	6.0		
14	BMVW-t	MT20	3.0	4.0		
15	BMVW-t	MT20	3.0	6.0	1.50	2.50
16	BMV1+p	MT20	2.0	4.0		
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.						
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.						

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

BEARINGS			
FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION	
JT	VERT	HORZ	DOWN
16	1383	0	1383
9	1276	0	1276

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX. SNOW	MIN. LIVE	PERM. LIVE	WIND	DEAD	SOIL
16	968	691 / 0	0 / 0	0 / 0	0 / 0	277 / 0	0 / 0
9	896	627 / 0	0 / 0	0 / 0	0 / 0	269 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.24 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING			
TOTAL LOAD CASES: (4)			
CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)
FR-TO	FROM	TO	LENGTH
1-2	0 / 29	-77.3	-77.3
2-3	-1443 / 0	-77.3	-77.3
3-4	-1339 / 0	-77.3	-77.3
4-5	-1288 / 0	-77.3	-77.3
5-6	-1288 / 0	-77.3	-77.3
6-7	-1297 / 0	-77.3	-77.3
7-8	-1318 / 0	-77.3	-77.3
16-2	-1348 / 0	0.0	0.0
9-8	-1244 / 0	0.0	0.0
16-15	0 / 0	-17.5	-17.5
15-14	0 / 1218	-17.5	-17.5
14-13	0 / 1097	-17.5	-17.5
13-12	0 / 1062	-17.5	-17.5
12-11	0 / 1062	-17.5	-17.5
11-10	0 / 1113	-17.5	-17.5
10-9	0 / 0	-17.5	-17.5

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.90")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.90")
CALCULATED VERT. DEFL.(TL) = L/999 (0.09")

CSI: TC=0.27 (4-5:1), BC=0.24 (14-15:1), WB=0.43 (5-13:1), 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)
MT20	618	354	1667	822	2284

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

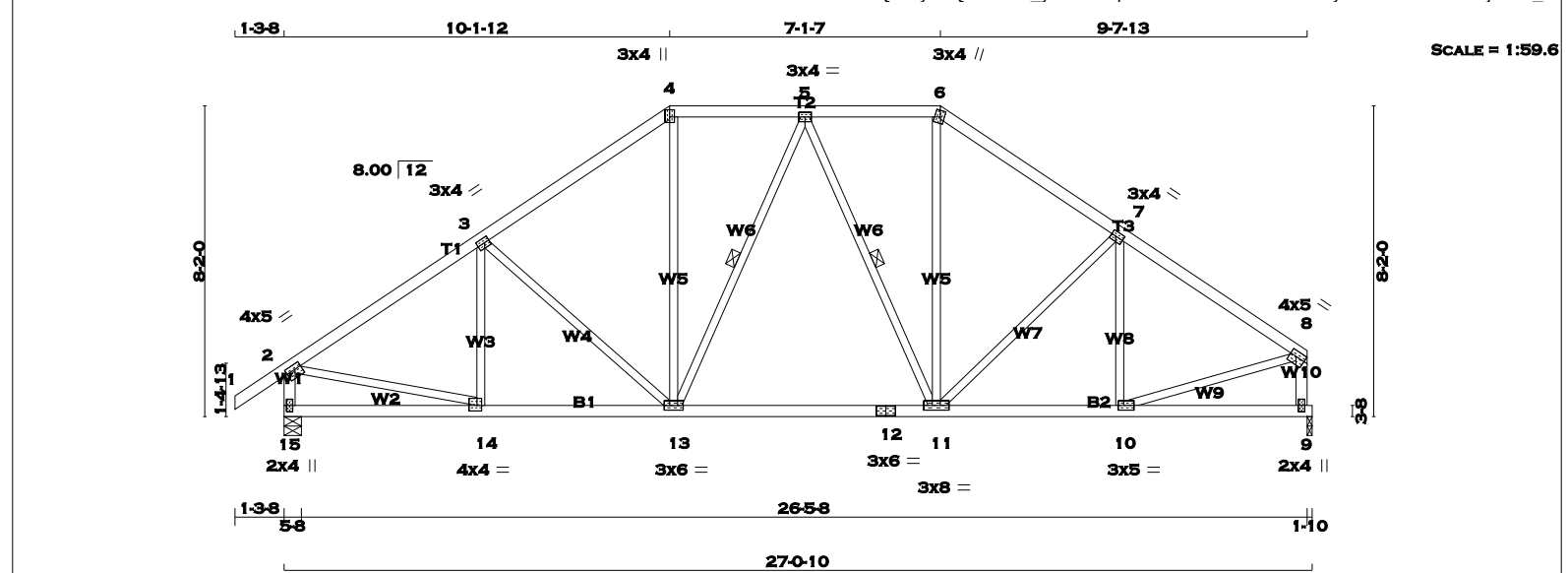
JSI GRIP= 0.90 (10) (INPUT = 0.90)
JSI METAL= 0.48 (2) (INPUT = 1.00)



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IN THE DESIGN OF THIS COMPONENT.





LUMBER

N. L. G. A. RULES

CHORDS SIZE

LUMBER

DESCR.

1 - 4

2x4

DRY

No.2

SPF

4 - 6

2x4

DRY

No.2

SPF

6 - 8

2x4

DRY

No.2

SPF

15 - 2

2x4

DRY

No.2

SPF

9 - 8

2x4

DRY

No.2

SPF

15 - 12

2x4

DRY

No.2

SPF

12 - 9

2x4

DRY

No.2

SPF

ALL WEBS

2x3

DRY

No.2

SPF

EXCEPT

DRY: SEASONED LUMBER.

TOTAL WEIGHT = 2 X 122 = 244 lb

[M][F]

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
15		1383	0	1383	0	0	5-8	5-8	
9		1276	0	1276	0	0	1-10	1-10	
UNFACTORED REACTIONS									
JT	1ST LCASE	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
15		968	691 / 0	0 / 0	0 / 0	0 / 0	277 / 0	0 / 0	
9		896	627 / 0	0 / 0	0 / 0	0 / 0	269 / 0	0 / 0	

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.12 FT.

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

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-13, 5-11. DBS = 20-0-0 . CBF = 26 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)	MAX UNBRAC LENGTH	
FR-TO		FROM TO			FR-TO				
1-2	0 / 29	-77.3 -77.3	0.10 (1)	10.00	14-3	-168 / 29	0.06 (1)		
2-3	-1461 / 0	-77.3 -77.3	0.29 (1)	5.12	3-13	-276 / 0	0.24 (1)		
3-4	-1267 / 0	-77.3 -77.3	0.27 (1)	5.42	13-4	0 / 434	0.10 (1)		
4-5	-1037 / 0	-77.3 -77.3	0.12 (1)	6.04	13-5	-153 / 0	0.08 (1)		
5-6	-1016 / 0	-77.3 -77.3	0.12 (1)	6.08	5-11	-205 / 0	0.10 (1)		
6-7	-1241 / 0	-77.3 -77.3	0.25 (1)	5.50	11-6	0 / 427	0.10 (1)		
7-8	-1352 / 0	-77.3 -77.3	0.25 (1)	5.32	11-7	-188 / 0	0.16 (1)		
15-2	-1343 / 0	0.0 0.0	0.14 (1)	6.99	10-7	-244 / 2	0.09 (1)		
9-8	-1239 / 0	0.0 0.0	0.13 (1)	7.22	2-14	0 / 1263	0.28 (1)		
					10-8	0 / 1191	0.27 (1)		
15-14	0 / 0	-17.5 -17.5	0.10 (4)	10.00					
14-13	0 / 1237	-17.5 -17.5	0.28 (1)	10.00					
13-12	0 / 1098	-17.5 -17.5	0.25 (1)	10.00					
12-11	0 / 1098	-17.5 -17.5	0.25 (1)	10.00					
11-10	0 / 1145	-17.5 -17.5	0.26 (1)	10.00					
10-9	0 / 0	-17.5 -17.5	0.09 (4)	10.00					

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

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

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 23.3 PSF

DL = 3.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.0 PSF

TOTAL LOAD = 33.3 PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

- CSA 086-09

- TPIC 2011

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

ALLOWABLE DEFL.(LL)= L/360 (0.90")

CALCULATED VERT. DEFL.(LL) = L/999 (0.04")

ALLOWABLE DEFL.(TL)= L/360 (0.90")

CALCULATED VERT. DEFL.(TL) = L/999 (0.11")

CSI: TC=0.29 (2-3:1) , BC=0.28 (13-14:1) , WB=0.28 (2-14:1) , SSI=0.16 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

MAX MIN MAX MIN MAX MIN

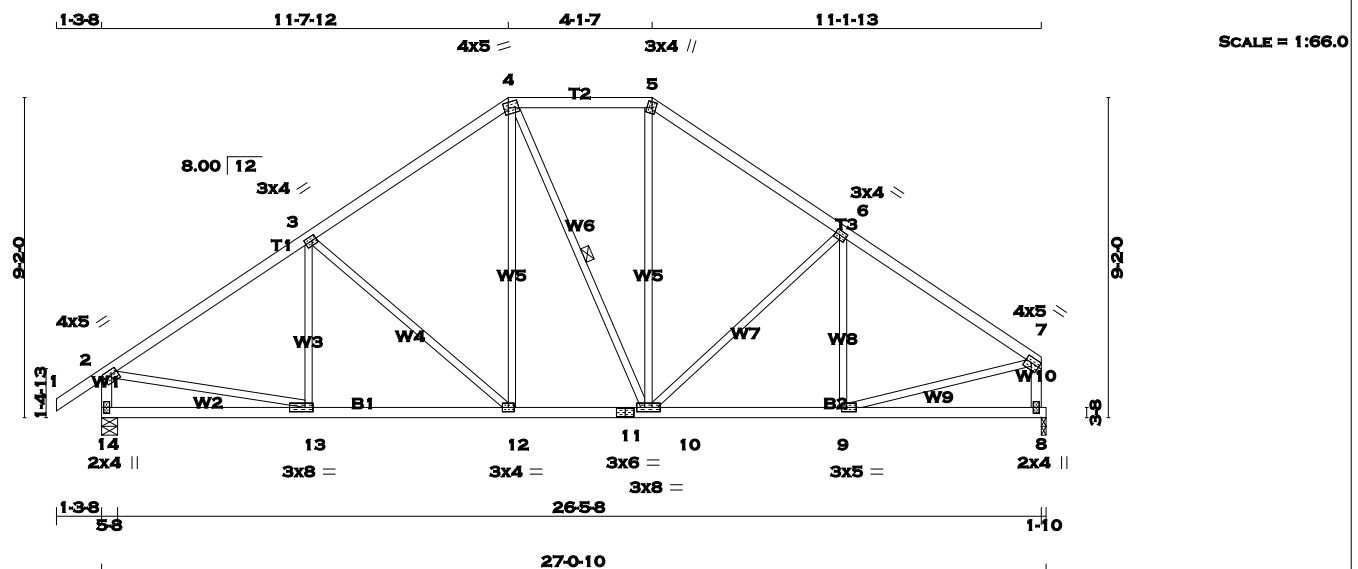
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL= 0.49 (2) (INPUT = 1.00)



TOTAL WEIGHT = 2 X 122 = 244 lb
[M][F]

LUMBER				
N. L. G. A. RULES				
CHORDS		SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 5	2x4	DRY	No.2	SPF
5 - 7	2x4	DRY	No.2	SPF
14 - 2	2x4	DRY	No.2	SPF
8 - 7	2x4	DRY	No.2	SPF
14 - 11	2x4	DRY	No.2	SPF
11 - 8	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT		2x3 DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMVW-t	MT20	4.0	5.0	1.50 2.00
3	TMVW-t	MT20	3.0	4.0	1.50 1.50
4	TTWW-m	MT20	4.0	5.0	1.75 1.50
5	TTW+m	MT20	3.0	4.0	2.00 1.25
6	TMVW-t	MT20	3.0	4.0	1.50 1.50
7	TMVW-t	MT20	4.0	5.0	1.75 Edge
8	BMV1+p	MT20	2.0	4.0	
9	BMVW-t	MT20	3.0	5.0	1.50 1.75
10	BMVW-t	MT20	3.0	8.0	
11	BS-t	MT20	3.0	6.0	
12	BMVW-t	MT20	3.0	4.0	
13	BMVW-t	MT20	3.0	8.0	1.50 2.75
14	BMV1+p	MT20	2.0	4.0	

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

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	GROSS REACTION	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	BRG	IN-SX
14	1383	0	1383	0	0	5-8	5-8		
8	1276	0	1276	0	0	1-10	1-10		

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX/MIN.	COMPONENT	REACTIONS			
14	968	691 / 0	0 / 0	0 / 0	0 / 0	277 / 0	0 / 0
8	896	627 / 0	0 / 0	0 / 0	0 / 0	269 / 0	0 / 0

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

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

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-10. DBS = 20-0-0 . CBF = 3 LBS.

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

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

LOADING

TOTAL LOAD CASES: (4)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED	FACTORED		MEMB.	MAX. FACTORED	FACTORED	
	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)		FORCE (LBS)	MAX (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	13-3	-110 / 67	0.05 (1)
2-3	-1468 / 0	-77.3	-77.3 0.39 (1)	4.99	3-12	-390 / 0	0.47 (1)
3-4	-1176 / 0	-77.3	-77.3 0.36 (1)	5.45	12-4	0 / 335	0.08 (1)
4-5	-945 / 0	-77.3	-77.3 0.18 (1)	6.17	4-10	-25 / 0	0.02 (1)
5-6	-1163 / 0	-77.3	-77.3 0.33 (1)	5.52	10-5	0 / 312	0.07 (1)
6-7	-1372 / 0	-77.3	-77.3 0.35 (1)	5.17	10-6	-306 / 0	0.36 (1)
14-2	-1340 / 0	0.0	0.0 0.14 (1)	7.00	9-6	-180 / 42	0.08 (1)
8-7	-1236 / 0	0.0	0.0 0.13 (1)	7.22	2-13	0 / 1267	0.29 (1)
					9-7	0 / 1201	0.27 (1)
14-13	0 / 0	-17.5	-17.5 0.15 (4)	10.00			
13-12	0 / 1246	-17.5	-17.5 0.28 (1)	10.00			
12-11	0 / 956	-17.5	-17.5 0.20 (1)	10.00			
11-10	0 / 956	-17.5	-17.5 0.20 (1)	10.00			
10-9	0 / 1165	-17.5	-17.5 0.25 (1)	10.00			
9-8	0 / 0	-17.5	-17.5 0.14 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.90")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.90")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.09")

CSI: TC=0.39 (2-3:1), BC=0.28 (12-13:1), WB=0.47 (3-12:1), SSI=0.18 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

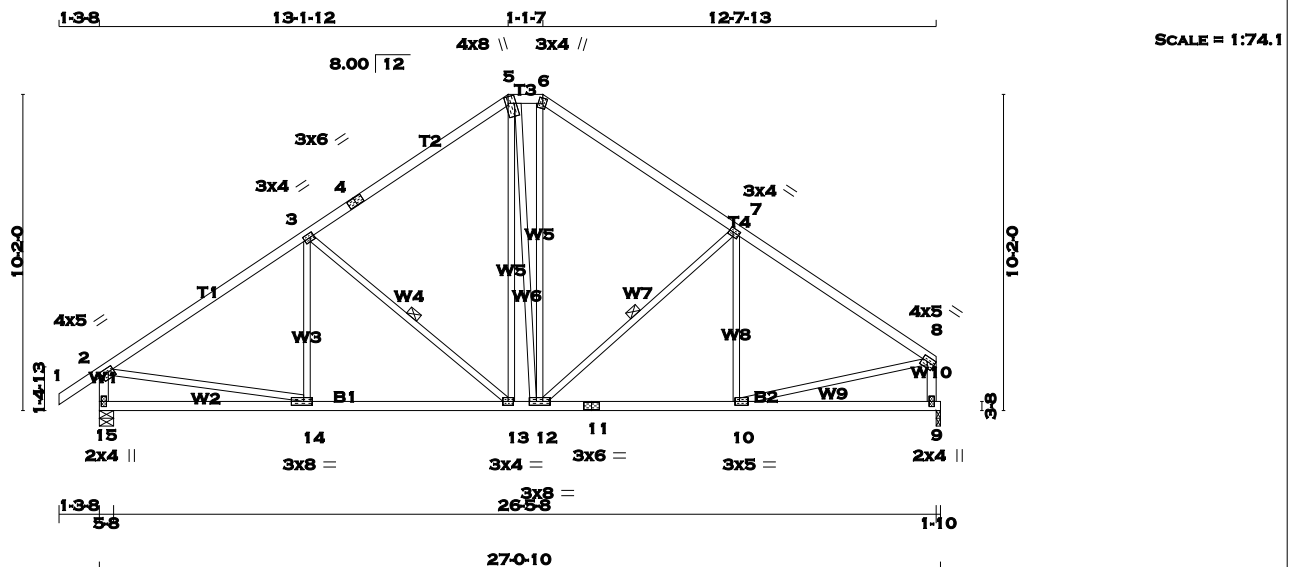
JSI GRIP= 0.90 (10) (INPUT = 0.90)
JSI METAL= 0.50 (2) (INPUT = 1.00)



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

LUMBER				DESCR.	
N. L. G. A. RULES		LUMBER			
CHORDS	SIZE				
1 - 4	2x4	DRY	No.2	SPF	
4 - 5	2x4	DRY	No.2	SPF	
5 - 6	2x4	DRY	No.2	SPF	
6 - 8	2x4	DRY	No.2	SPF	
15 - 2	2x4	DRY	No.2	SPF	
9 - 8	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.					

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	5.0	1.50	2.00
3	TMVW-t	MT20	3.0	4.0	1.50	1.50
4	TS-t	MT20	3.0	6.0		
5	TTWW+m	MT20	4.0	8.0	2.50	1.00
6	TTW+m	MT20	3.0	4.0	2.00	1.25
7	TMVW-t	MT20	3.0	4.0	1.50	1.50
8	TMVW-t	MT20	4.0	5.0	1.75	Edge
9	BMV1+p	MT20	2.0	4.0		
10	BMVW-t	MT20	3.0	5.0	1.50	1.75
11	BS-t	MT20	3.0	6.0		
12	BMVW-t	MT20	3.0	8.0		
13	BMVW-t	MT20	3.0	4.0		
14	BMVW-t	MT20	3.0	8.0	1.50	3.25
15	BMV1+p	MT20	2.0	4.0		

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

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ		DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
15	1383	0		1383	0	0	5-8	5-8	
9	1276	0		1276	0	0	1-10	1-10	

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
15	968	691 / 0	0 / 0	0 / 0	0 / 0	277 / 0	0 / 0
9	896	627 / 0	0 / 0	0 / 0	0 / 0	269 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.82 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 3-13, 7-12. DBS = 20-0-0 . CBF = 62 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

C H O R D S				W E B S			
MEMB.		MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED UNBRACED LENGTH (LC1)	MEMB.		MAX. FACTORED FORCE (LBS)
FR-TO				TO	FR-TO		
1-2	0 / 29	-77.3	-77.3	0.10 (1)	10-00	14-3	-67 / 92
2-3	-1464 / 0	-77.3	-77.3	0.51 (1)	4.82	3-13	-492 / 0
3-4	-1081 / 0	-77.3	-77.3	0.47 (1)	5.46	13-5	0 / 343
4-5	-1081 / 0	-77.3	-77.3	0.47 (1)	5.46	5-12	0 / 9
5-6	-874 / 0	-77.3	-77.3	0.02 (1)	6.25	12-6	0 / 359
6-7	-1081 / 0	-77.3	-77.3	0.43 (1)	5.52	12-7	-407 / 0
7-8	-1378 / 0	-77.3	-77.3	0.46 (1)	5.00	10-7	-136 / 67
15-2	-1336 / 0	0.0	0.0	0.14 (1)	7.00	2-14	0 / 1262
9-8	-1230 / 0	0.0	0.0	0.13 (1)	7.23	10-8	0 / 1201
15-14	0 / 0	-17.5	-17.5	0.19 (4)	10.00		
14-13	0 / 1246	-17.5	-17.5	0.30 (1)	10.00		
13-12	0 / 873	-17.5	-17.5	0.22 (1)	10.00		
12-11	0 / 1173	-17.5	-17.5	0.27 (1)	10.00		
11-10	0 / 1173	-17.5	-17.5	0.27 (1)	10.00		
10-9	0 / 0	-17.5	-17.5	0.17 (4)	10.00		

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.90")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.90")
CALCULATED VERT. DEFL.(TL) = L/999 (0.11")

CSI: TC=0.51 (2-3:1), BC=0.30 (13-14:1), WB=0.28 (2-14:1), SSI=0.21 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

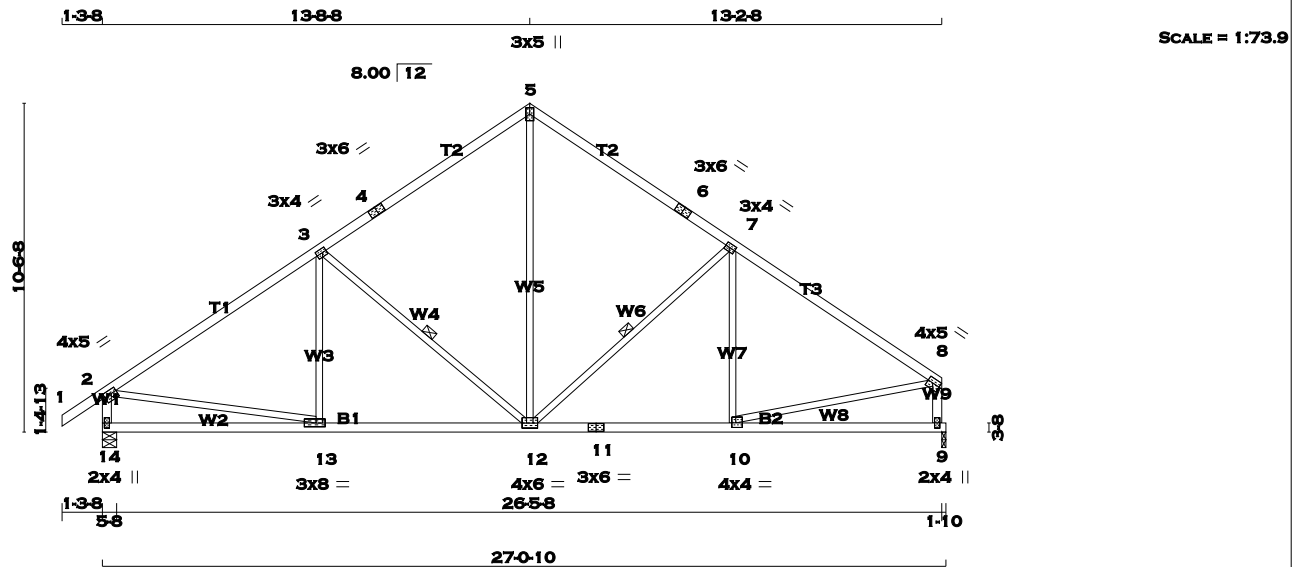
JSI GRIP= 0.90 (10) (INPUT = 0.90)
JSI METAL= 0.50 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 2 X 114 = 228 lb
[M][F]

LUMBER					
N. L. G. A. RULES					
CHORDS		SIZE	LUMBER		DESCR.
1 - 4	2x4	DRY	No.2	SPF	
4 - 5	2x4	DRY	No.2	SPF	
5 - 6	2x4	DRY	No.2	SPF	
6 - 8	2x4	DRY	No.2	SPF	
14 - 2	2x4	DRY	No.2	SPF	
9 - 8	2x4	DRY	No.2	SPF	
14 - 11	2x4	DRY	No.2	SPF	
11 - 9	2x4	DRY	No.2	SPF	
ALL WEBS		2x3	DRY	No.2	SPF
EXCEPT					
DRY: SEASONED LUMBER.					

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	5.0	1.50	2.00
3	TMVW-t	MT20	3.0	4.0	1.50	1.50
4	TS-t	MT20	3.0	6.0		
5	TTW+p	MT20	3.0	5.0		
6	TS-t	MT20	3.0	6.0		
7	TMVW-t	MT20	3.0	4.0	1.50	1.50
8	TMVW-t	MT20	4.0	5.0	1.75	Edge
9	BMV1+p	MT20	2.0	4.0		
10	BMVW-t	MT20	4.0	4.0	1.75	1.50
11	BS-t	MT20	3.0	6.0		
12	BMVW-t	MT20	4.0	6.0		
13	BMVW-t	MT20	3.0	8.0	1.50	3.50
14	BMV1+p	MT20	2.0	4.0		
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.						
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.						

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

BEARINGS							
		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG		
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX
14		1383	0	1383	0	0	5-8
9		1276	0	1276	0	0	1-10

UNFACTORED REACTIONS							
		1ST LCASE	MAX./MIN.	COMPONENT REACTIONS			
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
14		968	691 / 0	0 / 0	0 / 0	0 / 0	277 / 0
9		896	627 / 0	0 / 0	0 / 0	0 / 0	269 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.75 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 3-12, 7-12. DBS = 20-0-0. CBF = 65 LBS.

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

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

LOADING							
TOTAL LOAD CASES: (4)							
CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	MAX. FORCE (LBS)	VERT. LOAD	MAX. (PLF)	MEMB.	MAX. FORCE (LBS)	MAX. UNBRACED LENGTH	MAX. (LC)
FR-TO		FROM	TO	FR-TO			
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	13-3	-59 / 97	0.03 (1)
2-3	-1458 / 0	-77.3	-77.3 0.56 (1)	4.75	3-12	-520 / 0	0.28 (1)
3-4	-1053 / 0	-77.3	-77.3 0.51 (1)	5.44	12-5	0 / 744	0.17 (1)
4-5	-1053 / 0	-77.3	-77.3 0.51 (1)	5.44	12-7	-443 / 0	0.23 (1)
5-6	-1052 / 0	-77.3	-77.3 0.47 (1)	5.52	10-7	-119 / 74	0.07 (1)
6-7	-1052 / 0	-77.3	-77.3 0.47 (1)	5.52	2-13	0 / 1257	0.28 (1)
7-8	-1377 / 0	-77.3	-77.3 0.51 (1)	4.94	10-8	0 / 1200	0.27 (1)
14-2	-1333 / 0	0.0	0.0 0.14 (1)	7.02			
9-8	-1228 / 0	0.0	0.0 0.13 (1)	7.23			
14-13	0 / 0	-17.5	-17.5 0.20 (4)	10.00			
13-12	0 / 1243	-17.5	-17.5 0.30 (1)	10.00			
12-11	0 / 1174	-17.5	-17.5 0.29 (1)	10.00			
11-10	0 / 1174	-17.5	-17.5 0.29 (1)	10.00			
10-9	0 / 0	-17.5	-17.5 0.19 (4)	10.00			

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

SPACING = 24.0 IN./C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.90")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.90")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11")

CSI: TC=0.56 (2-3:1), BC=0.30 (12-13:1), WB=0.28 (2-13:1), SSI=0.22 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE POSITIONING TOL. = 5.0 Deg.

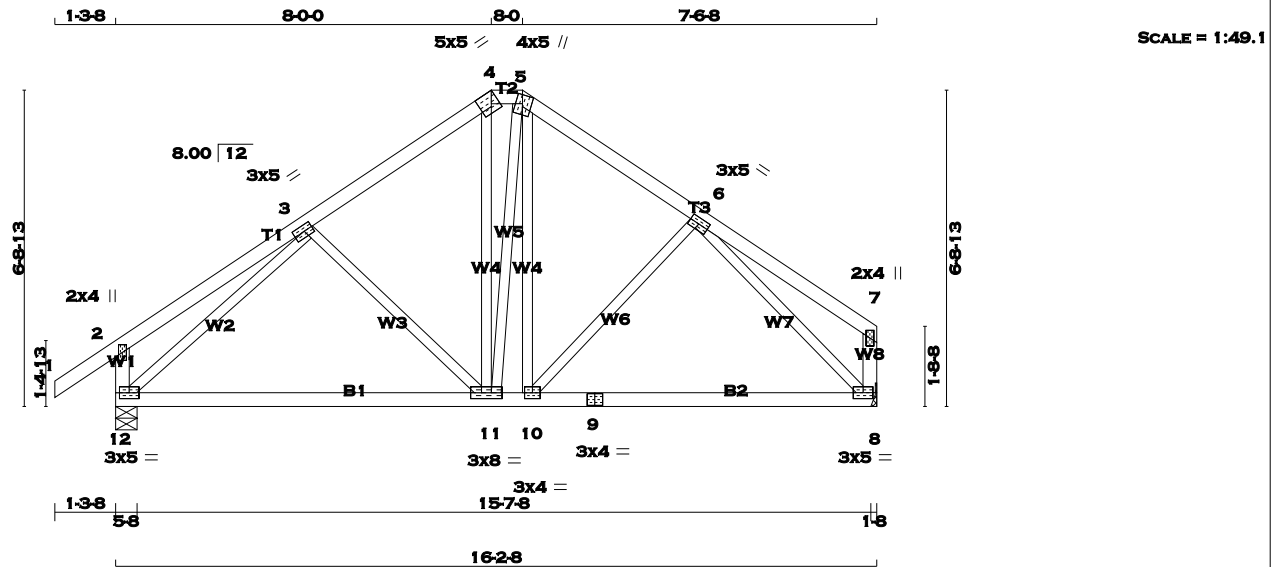
JSI GRIP= 0.90 (8) (INPUT = 0.90)
JSI METAL= 0.50 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 77 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 - 7	2x4	DRY	No.2			SPF	
12 - 2	2x4	DRY	No.2			SPF	
8 - 7	2x4	DRY	No.2			SPF	
12 - 9	2x4	DRY	No.2			SPF	
9 - 8	2x4	DRY	No.2			SPF	
ALL WEBS EXCEPT	2x3	DRY	No.2			SPF	
DRY: SEASONED LUMBER.							

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
3	TMWW-t	MT20	3.0	5.0	1.50	2.25
4	TTW-h	MT20	5.0	5.0	Edge	2.00
5	TTWW+m	MT20	4.0	5.0	2.25	1.75
6	TMWW-t	MT20	3.0	5.0		
7	TMV+p	MT20	2.0	4.0		
8	BMVW1-t	MT20	3.0	5.0		
9	BS-t	MT20	3.0	4.0		
10	BMWW-t	MT20	3.0	4.0		
11	BMWW-t	MT20	3.0	8.0		
12	BMVW1-t	MT20	3.0	5.0		

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

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

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

FACTORED			MAXIMUM FACTORED			INPUT	REQRD
GROSS REACTION			GROSS REACTION			BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
12	875	0	875	0	0	5-8	5-8
8	769	0	769	0	0	HANGER BY OTHERS	
							MIN. SEAT SIZE: 1-8

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS		PERM.LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	JT	COMBINED	SNOW	LIVE
12	612	441 / 0	0 / 0	0 / 0	0 / 0	170 / 0	0 / 0	12	612	441 / 0	0 / 0
8	539	377 / 0	0 / 0	0 / 0	0 / 0	162 / 0	0 / 0	8	539	377 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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		MAX. FACTORED		WEBS		FACTORED		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 (LC)	MAX. UNBRAC	MEMB.	FORCE (LBS)	MAX. UNBRAC	MEMB.	FORCE (LBS)	MAX. UNBRAC	MEMB.
FR-TO		FROM	TO	LENGTH	FR-TO		FROM	TO	LENGTH	FR-TO	
1-2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	3-11	-180 / 3	0.09 (1)			
2-3	0 / 20	-77.3	-77.3	0.20 (1)	10.00	11-4	0 / 194	0.04 (1)			
3-4	-629 / 0	-77.3	-77.3	0.16 (1)	6.25	11-5	0 / 46	0.01 (1)			
4-5	-503 / 0	-77.3	-77.3	0.01 (1)	6.25	10-5	0 / 151	0.03 (1)			
5-6	-620 / 0	-77.3	-77.3	0.14 (1)	6.25	10-6	-124 / 14	0.06 (1)			
6-7	0 / 19	-77.3	-77.3	0.18 (1)	10.00	12-3	-871 / 0	0.42 (1)			
12-2	-225 / 0	0.0	0.0	0.02 (1)	7.81	6-8	-840 / 0	0.40 (1)			
8-7	-112 / 0	0.0	0.0	0.01 (1)	7.81						
12-11	0 / 636	-17.5	-17.5	0.31 (4)	10.00						
11-10	0 / 497	-17.5	-17.5	0.31 (4)	10.00						
10-9	0 / 584	-17.5	-17.5	0.27 (4)	10.00						
9-8	0 / 584	-17.5	-17.5	0.27 (4)	10.00						

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.54")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.54")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.10")

CSI: TC=0.20 (2-3:1), BC=0.31 (11-12:4), WB=0.42 (3-12:1), SSI=0.12 (3-4:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

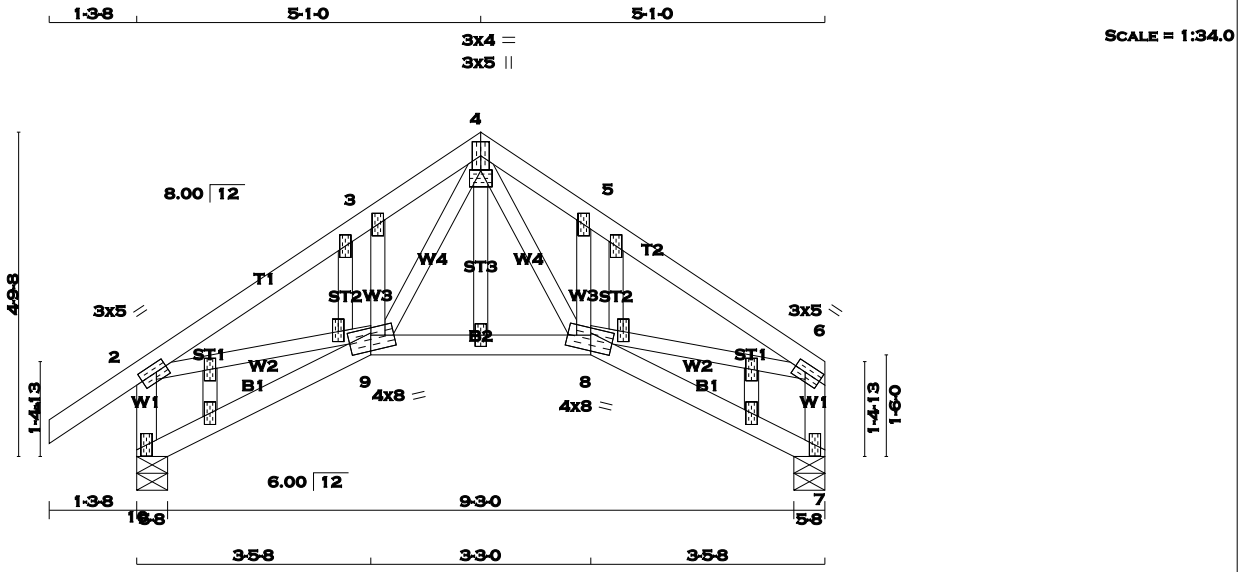
JSI GRIP= 0.86 (12) (INPUT = 0.90)
JSI METAL= 0.25 (3) (INPUT = 1.00)



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TOTAL WEIGHT = 50 lb
[M][F]

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2
4 - 6	2x4	DRY	No.2
10 - 2	2x4	DRY	No.2
7 - 6	2x4	DRY	No.2
10 - 9	2x4	DRY	No.2
9 - 8	2x4	DRY	No.2
8 - 7	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
ALL GABLE WEBS	2x3	DRY	No.2
DRY: SEASONED LUMBER.			
GABLE STUDS SPACED AT 2'-0" O.C.			

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	TMW+w	MT20	2.0	4.0	
4	TTWW+p	MT20	3.0	5.0	
4	NP-p	MT20	3.0	4.0	0.25 2.00
5	TMW+w	MT20	2.0	4.0	
6	TMVW-t	MT20	3.0	5.0	1.50 2.00
7	BMV1+p	MT20	2.0	4.0	
8	BBWWW-m	MT20	4.0	8.0	2.75 4.00
8	NP+w	MT20	2.0	4.0	2.00 0.25
9	BBWWW-m	MT20	4.0	8.0	2.75 4.00
9	NP+w	MT20	2.0	4.0	2.00 0.25
10	BMV1+p	MT20	2.0	4.0	
11, 12, 13, 14, 15, 16, 17					
11	NP+w	MT20	2.0	4.0	
A SIZE FOR SIZE SUBSTITUTION OF MIITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.					

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

BEARINGS			
FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION	
JT	VERT	DOWN	HORZ
10	588	0	588
7	482	0	482

UNFACTORED REACTIONS			
1ST LCASE		MAX./MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE
10	411	301 / 0	0 / 0
7	338	237 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 10, 7

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

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

LOADING			
TOTAL LOAD CASES: (4)			
CHORDS		WEBS	
MEMB.	FORCE	MEMB.	FORCE
(LBS)	(LBS)	(LBS)	(LBS)
FR-TO	FROM	FR-TO	FROM
1-2	0 / 29	4-8	0 / 445
2-3	-732 / 0	8-5	-255 / 0
3-4	-767 / 0	9-4	0 / 445
4-5	-767 / 0	9-3	-255 / 0
5-6	-732 / 0	2-9	0 / 622
10-2	-558 / 0	8-6	0 / 622
7-6	-452 / 0		
10-9	0 / 0		
9-8	0 / 406		
8-7	0 / 0		

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 (0.34")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.34")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")

CSI: TC=0.12 (2-3:1) , BC=0.10 (8-9:1) , WB=0.14 (2-9:1) , SSI=0.10 (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

AUTOSOLVE HEELS OFF

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

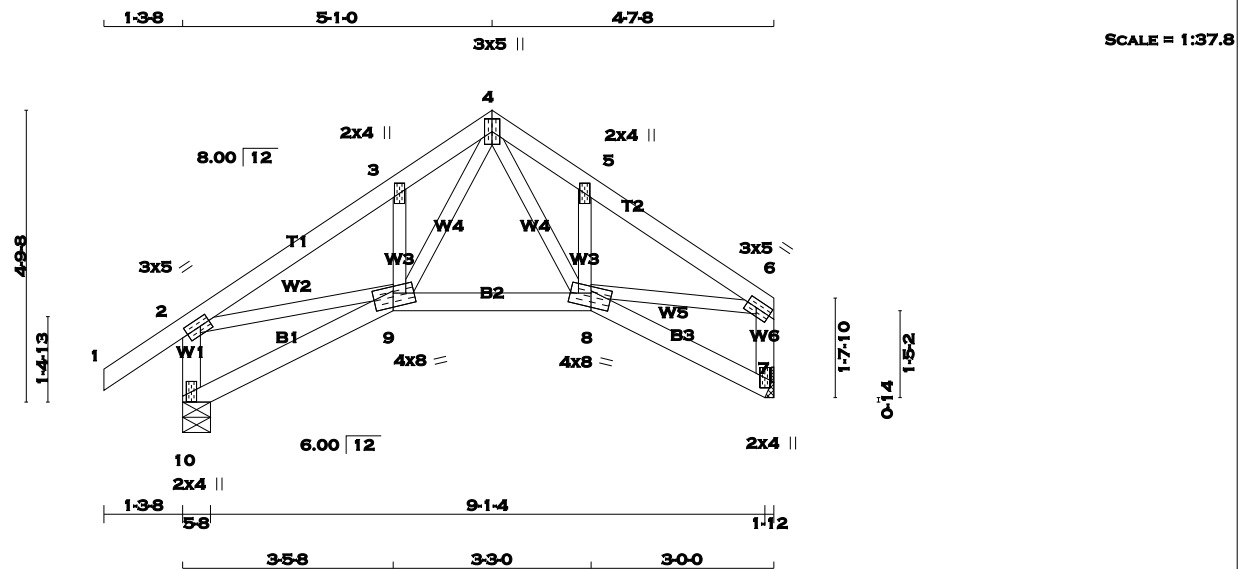
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JSI METAL= 0.26 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 43 lb
[M][F]

LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
10 - 2	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
10 - 9	2x4	DRY	No.2	SPF
9 - 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	5.0	1.50	2.00
3	TMW+w	MT20	2.0	4.0		
4	TTWW+p	MT20	3.0	5.0		
5	TMW+w	MT20	2.0	4.0		
6	TMVW-t	MT20	3.0	5.0	1.50	2.00
7	BMV1+p	MT20	2.0	4.0		
8	BBWWW-m	MT20	4.0	8.0	2.75	4.00
9	BBWWW-m	MT20	4.0	8.0	2.75	4.00
10	BMV1+p	MT20	2.0	4.0		

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

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER							
BEARINGS							
	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG			
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
10	567	0	567	0	0	5-8	5-8
7	460	0	460	0	0	HANGER BY OTHERS	
MIN. SEAT SIZE: 1-12							

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN.	COMPONENT	REACTIONS			
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
10	395	290 / 0	0 / 0	0 / 0	0 / 0	105 / 0	0 / 0
7	323	226 / 0	0 / 0	0 / 0	0 / 0	97 / 0	0 / 0

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

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

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

LOADING									
TOTAL LOAD CASES: (4)									
CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)		
FR-TO		FROM	TO		FR-TO				
1-2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	9-3	-256 / 0	0.04 (1)	
2-3	-684 / 0	-77.3	-77.3	0.12 (1)	6.25	9-4	0 / 441	0.10 (1)	
3-4	-720 / 0	-77.3	-77.3	0.07 (1)	6.25	4-8	0 / 341	0.08 (1)	
4-5	-656 / 0	-77.3	-77.3	0.05 (1)	6.25	8-5	-223 / 0	0.03 (1)	
5-6	-629 / 0	-77.3	-77.3	0.09 (1)	6.25	2-9	0 / 582	0.13 (1)	
10-2	-536 / 0	0.0	0.0	0.06 (1)	7.81	8-6	0 / 531	0.12 (1)	
7-6	-434 / 0	0.0	0.0	0.05 (1)	7.81				
10-9	0 / 0	-17.5	-17.5	0.06 (4)	10.00				
9-8	0 / 369	-17.5	-17.5	0.09 (1)	10.00				
8-7	0 / 0	-17.5	-17.5	0.05 (4)	10.00				

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

SPACING = 24.0 IN./C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.32")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.32")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")

CSI: TC=0.12 (2-3:1), BC=0.09 (8-9:1), WB=0.13 (2-9:1), SSI=0.10 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

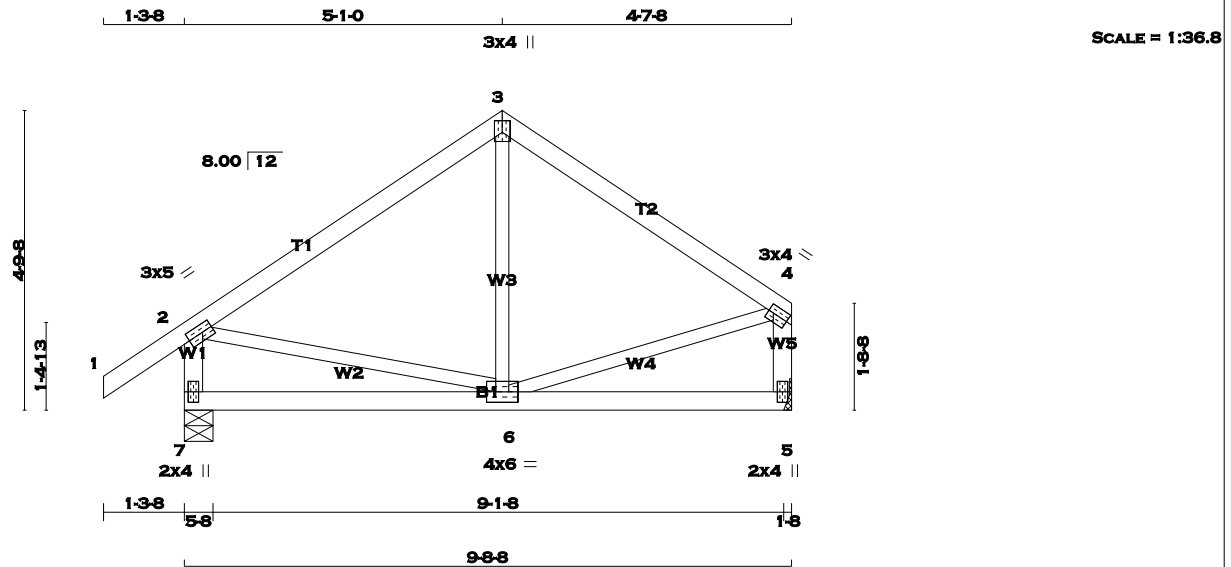
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JSI METAL= 0.25 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 2 X 40 = 80 lb [M][F]

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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	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
5	BMV1+p	MT20	2.0	4.0		
6	BMVWW-t	MT20	4.0	6.0		
7	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQRD
GROSS REACTION		GROSS REACTION	DOWN	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
7	567	0	567	0	0
5	460	0	460	0	0
HANGER BY OTHERS					
MIN. SEAT SIZE: 1-8					

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
7	395	290 / 0	0 / 0	0 / 0	0 / 0	105 / 0	0 / 0
5	323	226 / 0	0 / 0	0 / 0	0 / 0	97 / 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. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 29	-77.3 -77.3	0.10 (1)	6-3	-29 / 74	0.03 (4)	
2-3	-313 / 0	-77.3 -77.3	0.26 (1)	2-6	0 / 266	0.06 (1)	
3-4	-311 / 0	-77.3 -77.3	0.21 (1)	6-4	0 / 271	0.06 (1)	
7-2	-530 / 0	0.0 0.0	0.05 (1)				
5-4	-432 / 0	0.0 0.0	0.05 (1)				
7-6	0 / 0	-17.5 -17.5	0.12 (4)				
6-5	0 / 0	-17.5 -17.5	0.12 (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

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

ALLOWABLE DEFL.(LL)= L/360 (0.32")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.32")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.02")

CSI: TC=0.26 (2-3:1) , BC=0.12 (6-7:4) , WB=0.06 (4-6:1) , SSI=0.13 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) 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.

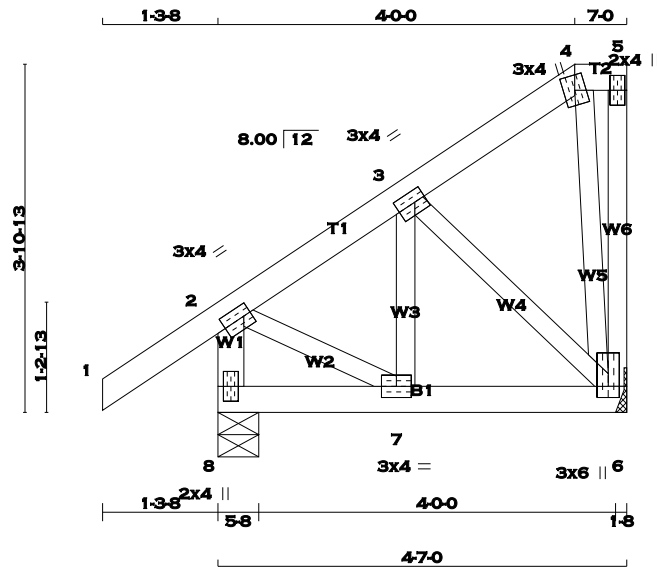
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JSI METAL= 0.15 (4) (INPUT = 1.00)



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TOTAL WEIGHT = 2 X 25 = 50 lb [M]

LUMBER				DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	
1 - 4	2x4	DRY	No.2	SPF
4 - 5	2x4	DRY	No.2	SPF
6 - 5	2x3	DRY	No.2	SPF
8 - 2	2x4	DRY	No.2	SPF
8 - 6	2x4	DRY	No.2	SPF

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	4.0	1.50	1.00
3	TMVW-t	MT20	3.0	4.0	1.50	1.50
4	TTW+m	MT20	3.0	4.0		
5	TMV+p	MT20	2.0	4.0		
6	BMVWV1+p	MT20	3.0	6.0	1.50	1.50
7	BMVWV-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.

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

BEARINGS						INPUT BRG	REQRD BRG
JT	FACTORED GROSS REACTION	FACTORED GROSS REACTION	DOWN	HORZ	UPLIFT		
6	217	0	217	0	0	5-8	5-8
8	324	0	324	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
6	153	107 / 0	0 / 0	0 / 0	0 / 0	46 / 0	0 / 0
8	225	171 / 0	0 / 0	0 / 0	0 / 0	54 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)	
FR-TO		FROM	TO	FR-TO		FROM	TO
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	7-3	-8 / 38	0.01 (4)
2-3	-141 / 0	-77.3	-77.3 0.05 (1)	6.25	3-6	-156 / 0	0.03 (1)
3-4	-24 / 0	-77.3	-77.3 0.05 (1)	6.25	4-6	-70 / 0	0.02 (1)
4-5	0 / 0	-77.3	-77.3 0.00 (1)	10.00	2-7	0 / 136	0.03 (1)
6-5	-23 / 0	0.0	0.0 0.01 (1)	7.81			
8-2	-308 / 0	0.0	0.0 0.03 (1)	7.81			
8-7	0 / 0	-17.5	-17.5 0.02 (4)	10.00			
7-6	0 / 125	-17.5	-17.5 0.03 (1)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C/C

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

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

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

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

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

CSI: TC=0.10 (1-2:1), BC=0.03 (6-7:1), WB=0.03 (3-6:1), SSI=0.07 (1-2:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) 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.

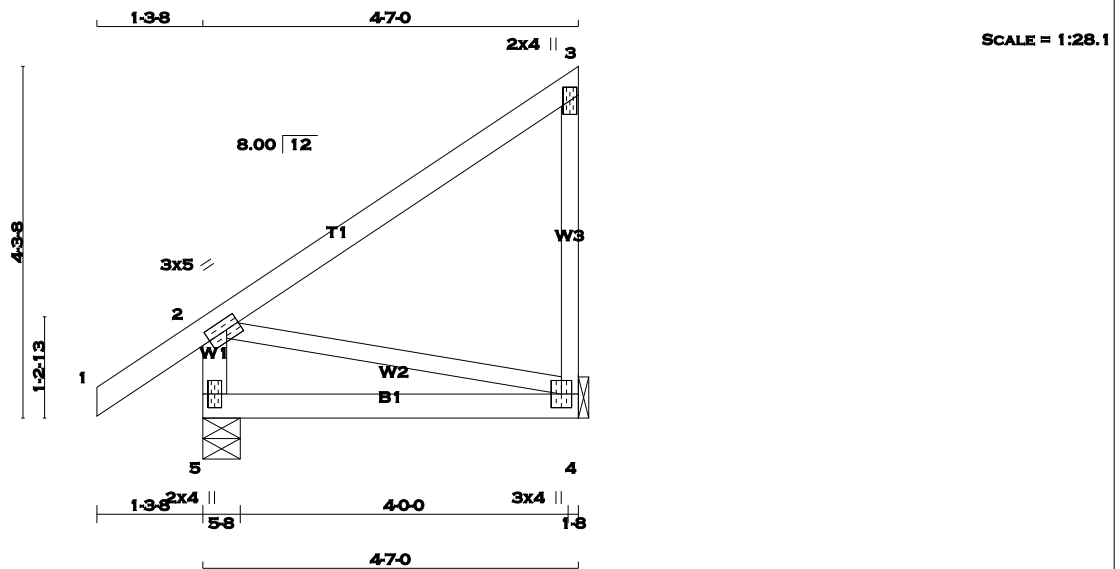
JSI GRIP= 0.45 (2) (INPUT = 0.90)
JSI METAL= 0.09 (2) (INPUT = 1.00)



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BUILDING DIVISION

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TOTAL WEIGHT = 10 X 21 = 208 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
5 - 2	2x4	No.2	SPF
1 - 3	2x4	No.2	SPF
4 - 3	2x3	No.2	SPF
5 - 4	2x4	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	TMV+p	MT20	2.0	4.0		
4	BMVW1+p	MT20	3.0	4.0		
5	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
5	324	0	324	0	5-8	5-8
4	217	0	217	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	COMBINED	1ST LCASE MAX./MIN. COMPONENT REACTIONS		LIVE	PERM.LIVE	WIND	DEAD	SOIL
		SNOW	DOWN					
5	225	171 / 0	0 / 0	0 / 0	0 / 0	0 / 0	54 / 0	0 / 0
4	153	107 / 0	0 / 0	0 / 0	0 / 0	0 / 0	46 / 0	0 / 0

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					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	-283 / 0	0.0	0.0 0.03 (1)	7.81	2-4	0 / 0	0.00 (1)		
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00					
2-3	0 / 0	-77.3	-77.3 0.28 (1)	10.00					
4-3	-177 / 0	0.0	0.0 0.07 (1)	7.81					
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.(TL)= L/360 (0.19")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.28 (2-3:1), BC=0.11 (4-5:4), WB=0.00 (2-4:1), SSI=0.12 (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.

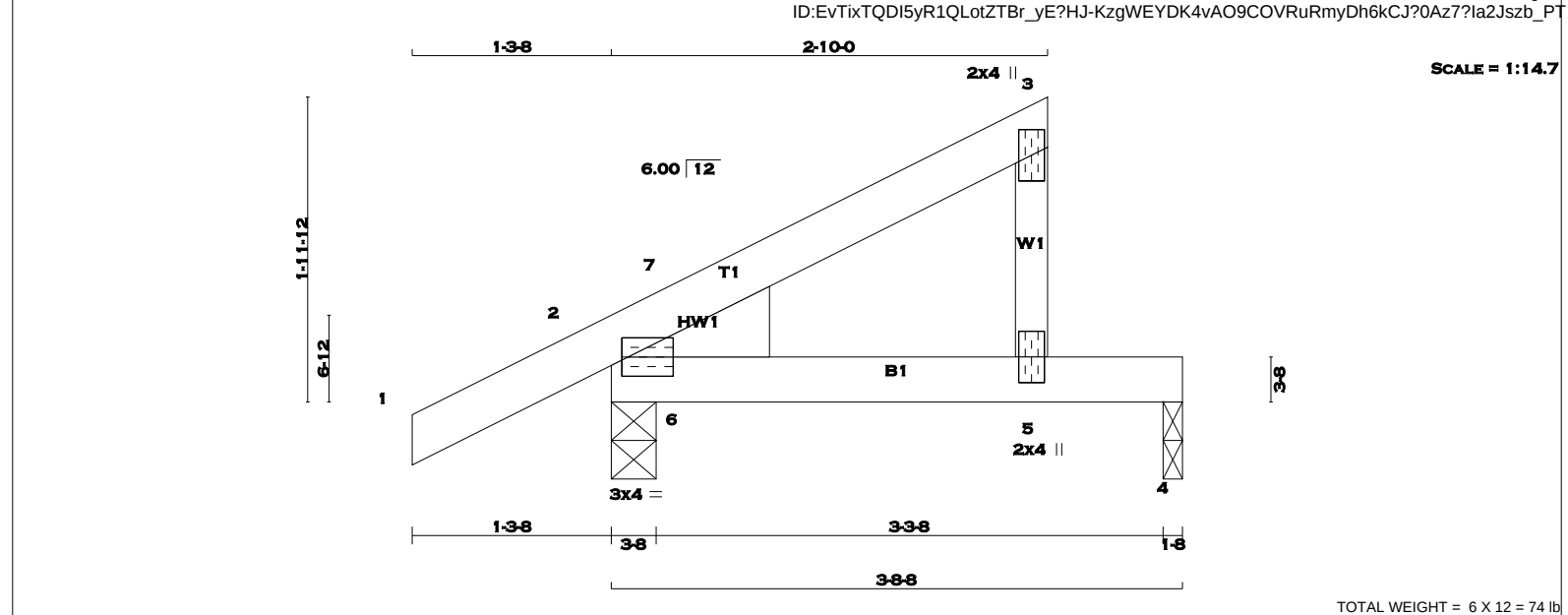
JSI GRIP= 0.26 (2) (INPUT = 0.90)
 JSI METAL= 0.06 (2) (INPUT = 1.00)



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LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR.		DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS		DESIGN CRITERIA	
1 - 3	2x4 DRY No.2	SPF		SPECIFIED LOADS:	
5 - 3	2x3 DRY No.2	SPF		TOP CH. LL = 23.3 PSF	
2 - 4	2x4 DRY No.2	SPF		DL = 3.0 PSF	
DRY: SEASONED LUMBER.				BOT CH. LL = 0.0 PSF	
				DL = 7.0 PSF	
				TOTAL LOAD = 33.3 PSF	
				SPACING = 24.0 IN. C/C	
				THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010	
				THIS DESIGN COMPLIES WITH:	
				- PART 9 OF OBC 2012, BCBC 2012, ABC 2014	
				- CSA 086-09	
				- TPIC 2011	
				(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD	
				ALLOWABLE DEFL.(LL)= L/360 (0.19")	
				CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")	
				ALLOWABLE DEFL.(TL)= L/360 (0.19")	
				CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")	
				CSI: TC=0.10 (1-2:1), BC=0.13 (5-6:1), WB=0.00 (6-7:1), SSI=0.09 (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= 0.60 (2) (INPUT = 0.90)	
				JSI METAL= 0.04 (2) (INPUT = 1.00)	

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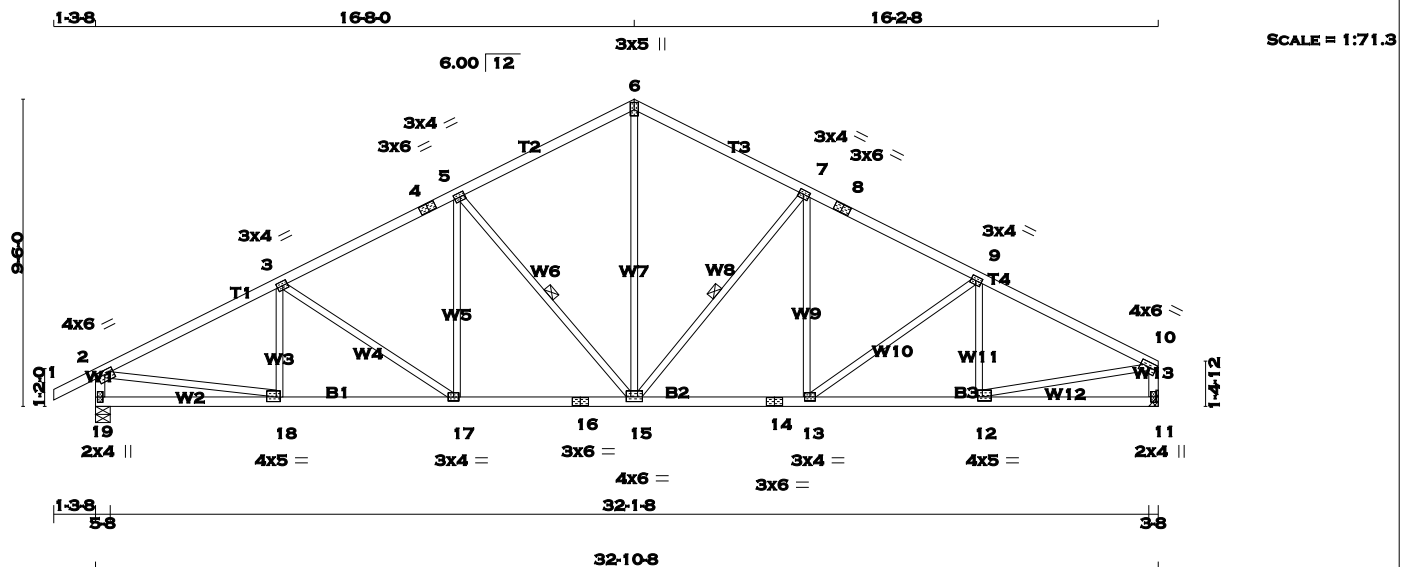
TOWN OF MILTON

MAR 29, 2017

17-5233

BUILDING DIVISION

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TOTAL WEIGHT = 6 X 138 = 830 lb
[M][F]

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

PLATES (table is in inches)							
JT	TYPE	PLATES	W	LEN	Y	X	
2	TMVW-t	MT20	4.0	6.0	1.50	2.75	
3, 5, 7, 9							
3	TMVW-t	MT20	3.0	4.0	1.50	1.75	
4	TS-t	MT20	3.0	6.0			
6	TTW+p	MT20	3.0	5.0	2.75	1.50	
8	TS-t	MT20	3.0	6.0			
10	TMVW-t	MT20	4.0	6.0	1.75	2.75	
11	BMV1+p	MT20	2.0	4.0			
12	BMVW-t	MT20	4.0	5.0	1.50	1.75	
13	BMVW-t	MT20	3.0	4.0			
14	BS-t	MT20	3.0	6.0			
15	BMVWVW-t	MT20	4.0	6.0	1.75	3.00	
16	BS-t	MT20	3.0	6.0			
17	BMVW-t	MT20	3.0	4.0			
18	BMVW-t	MT20	4.0	5.0	1.75	1.50	
19	BMV1+p	MT20	2.0	4.0			

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

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER							
BEARINGS							
FACTORED GROSS REACTION			MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
19	1664	0	1664	0	0	5-8	5-8
11	1559	0	1559	0	0	HANGER BY OTHERS	
MIN. SEAT SIZE: 3-8							

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
19	1165	829 / 0	0 / 0	0 / 0	0 / 0	337 / 0	0 / 0
11	1094	765 / 0	0 / 0	0 / 0	0 / 0	329 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 19

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.20 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-15, 7-15. DBS = 20-0-0. CBF = 82 LBS.

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

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

LOADING							
TOTAL LOAD CASES: (4)							

C H O R D S				W E B S			
MAX. FACTORED		FACTORED		MAX. FACTORED			
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	MAX. UNBRAC	MEMB.	FORCE (LBS)	MAX (LC)
FR-TO		FROM TO		LENGTH	FR-TO		
1-2	0 / 23	-77.3	-77.3 0.10 (1)	10.00	18-3	-205 / 31	0.05 (1)
2-3	-2276 / 0	-77.3	-77.3 0.39 (1)	4.20	3-17	-275 / 0	0.22 (1)
3-4	-2039 / 0	-77.3	-77.3 0.32 (1)	4.47	17-5	0 / 247	0.06 (1)
4-5	-2039 / 0	-77.3	-77.3 0.32 (1)	4.47	5-15	-655 / 0	0.32 (1)
5-6	-1582 / 0	-77.3	-77.3 0.31 (1)	4.94	15-6	0 / 1060	0.24 (1)
6-7	-1582 / 0	-77.3	-77.3 0.29 (1)	4.96	15-7	-595 / 0	0.29 (1)
7-8	-1986 / 0	-77.3	-77.3 0.30 (1)	4.54	13-7	0 / 199	0.05 (4)
8-9	-1986 / 0	-77.3	-77.3 0.30 (1)	4.54	13-9	-187 / 0	0.15 (1)
9-10	-2137 / 0	-77.3	-77.3 0.36 (1)	4.34	12-9	-275 / 8	0.07 (1)
19-2	-1620 / 0	0.0	0.0 0.16 (1)	6.50	2-18	0 / 2075	0.47 (1)
11-10	-1517 / 0	0.0	0.0 0.16 (1)	6.67	12-10	0 / 1964	0.44 (1)
19-18	0 / 0	-17.5	-17.5 0.12 (4)	10.00			
18-17	0 / 2052	-17.5	-17.5 0.38 (1)	10.00			
17-16	0 / 1824	-17.5	-17.5 0.36 (1)	10.00			
16-15	0 / 1824	-17.5	-17.5 0.36 (1)	10.00			
15-14	0 / 1776	-17.5	-17.5 0.35 (1)	10.00			
14-13	0 / 1776	-17.5	-17.5 0.35 (1)	10.00			
13-12	0 / 1927	-17.5	-17.5 0.36 (1)	10.00			
12-11	0 / 0	-17.5	-17.5 0.12 (4)	10.00			

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

SPACING = 24.0 IN./C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPC 1011

(55 % OF 27.2 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 (1.10")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.11")
ALLOWABLE DEFL.(TL)= L/360 (1.10")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.20")

CSI: TC=0.39 (2-3:1), BC=0.38 (17-18:1), WB=0.47 (2-18:1), SSI=0.18 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

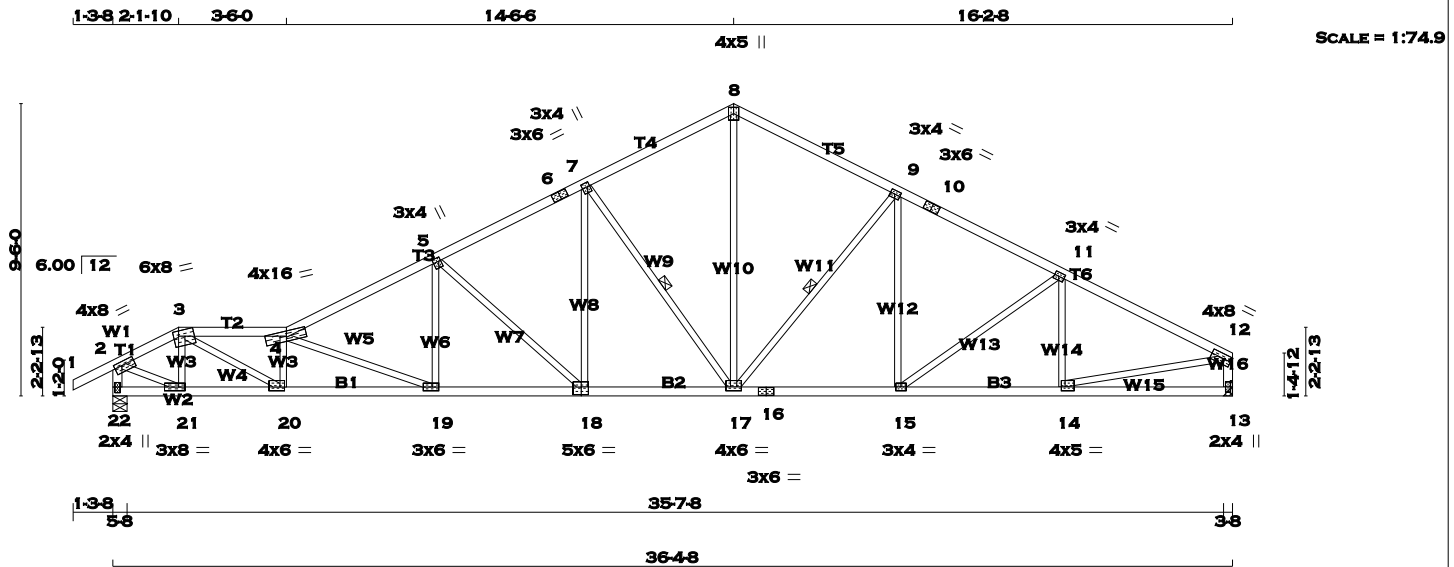
JSI GRIP= 0.90 (10) (INPUT = 0.90)
JSI METAL= 0.62 (18) (INPUT = 1.00)



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TOTAL WEIGHT = 2 X 154 = 308 lb
[M][F]

LUMBER				N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.	CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF			
3 - 4	2x4	DRY	No.2	SPF			
4 - 6	2x4	DRY	No.2	SPF			
6 - 8	2x4	DRY	No.2	SPF			
8 - 10	2x4	DRY	No.2	SPF			
10 - 12	2x4	DRY	No.2	SPF			
22 - 2	2x4	DRY	No.2	SPF			
13 - 12	2x4	DRY	No.2	SPF			
22 - 18	2x4	DRY	No.2	SPF			
18 - 16	2x4	DRY	No.2	SPF			
16 - 13	2x4	DRY	No.2	SPF			
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF			
DRY: SEASONED LUMBER.							

PLATES (table is in inches)				N. L. G. A. RULES			
JT	TYPE	PLATES	W	LEN	Y	X	DESCR.
2	TMVW-t	MT20	4.0	8.0	1.50	3.00	
3	TTWW-m	MT20	6.0	8.0	2.00	2.00	
4	TTWW-m	MT20	4.0	16.0	2.00	7.75	
5	TMWW-t	MT20	3.0	4.0	1.50	0.75	
6	TS-t	MT20	3.0	6.0			
7	TMWW-t	MT20	3.0	4.0	1.75	0.75	
8	TTW+p	MT20	4.0	5.0			
9	TMWW-t	MT20	3.0	4.0	1.50	1.75	
10	TS-t	MT20	3.0	6.0			
11	TMWW-t	MT20	3.0	4.0	1.50	1.75	
12	TMVW-t	MT20	4.0	8.0	1.75	Edge	
13	BMV1+p	MT20	2.0	4.0			
14	BMWW-t	MT20	4.0	5.0	1.50	1.50	
15	BMWW-t	MT20	3.0	4.0			
16	BS-t	MT20	3.0	6.0			
17	BMWWW-t	MT20	4.0	6.0	1.50	3.00	
18	BSWW-l	MT20	5.0	6.0	3.00	2.75	
19	BMWW-t	MT20	3.0	6.0	1.50	2.50	
20	BMWW-t	MT20	4.0	6.0	1.50	1.75	
21	BMWW-t	MT20	3.0	8.0	1.50	2.50	
22	BMV1+p	MT20	2.0	4.0	2.25	1.00	
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.							
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.							

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
22	1830	0	1830	0	0	5-8	5-8
13	1725	0	1725	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
22	1282	910 / 0	0 / 0	0 / 0	0 / 0	372 / 0	0 / 0
13	1211	847 / 0	0 / 0	0 / 0	0 / 0	364 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-17. DBS = 14-0-0. CBF = 90 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 9-17. DBS = 20-0-0. CBF = 71 LBS.

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

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

LOADING				TOTAL LOAD CASES: (4)			
C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 23	-77.3 -77.3 0.10 (1)	10.00	21-3	-615 / 0	0.09 (1)	
2-3	-2069 / 0	-77.3 -77.3 0.09 (1)	4.66	3-20	0 / 2682	0.60 (1)	
3-4	-4145 / 0	-77.3 -77.3 0.31 (1)	3.25	20-4	-1307 / 0	0.20 (1)	
4-5	-3345 / 0	-77.3 -77.3 0.38 (1)	3.58	4-19	-1300 / 0	0.61 (1)	
5-6	-2557 / 0	-77.3 -77.3 0.28 (1)	4.11	19-5	0 / 593	0.13 (1)	
6-7	-2557 / 0	-77.3 -77.3 0.28 (1)	4.11	5-18	-968 / 0	0.74 (1)	
7-8	-1907 / 0	-77.3 -77.3 0.26 (1)	4.65	18-7	0 / 720	0.16 (1)	
8-9	-1909 / 0	-77.3 -77.3 0.31 (1)	4.59	7-17	-1024 / 0	0.48 (1)	
9-10	-2295 / 0	-77.3 -77.3 0.32 (1)	4.26	17-8	0 / 1372	0.31 (1)	
10-11	-2295 / 0	-77.3 -77.3 0.32 (1)	4.26	17-9	-569 / 0	0.27 (1)	
11-12	-2403 / 0	-77.3 -77.3 0.38 (1)	4.11	15-9	0 / 171	0.04 (4)	
22-2	-1826 / 0	0.0 0.0 0.18 (1)	6.20	15-11	-139 / 0	0.11 (1)	
13-12	-1683 / 0	0.0 0.0 0.17 (1)	6.40	14-11	-323 / 0	0.08 (1)	
				2-21	0 / 1978	0.45 (1)	
22-21	0 / 0	-17.5 -17.5 0.05 (1)	10.00	14-12	0 / 2206	0.50 (1)	
21-20	0 / 1814	-17.5 -17.5 0.37 (1)	10.00				
20-19	0 / 4215	-17.5 -17.5 0.78 (1)	10.00				
19-18	0 / 3008	-17.5 -17.5 0.54 (1)	10.00				
18-17	0 / 2287	-17.5 -17.5 0.43 (1)	10.00				
17-16	0 / 2052	-17.5 -17.5 0.39 (1)	10.00				
16-15	0 / 2052	-17.5 -17.5 0.39 (1)	10.00				
15-14	0 / 2165	-17.5 -17.5 0.39 (1)	10.00				
14-13	0 / 0	-17.5 -17.5 0.12 (4)	10.00				

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

SPACING = 24.0 IN./C/C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.21")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.23")
ALLOWABLE DEFL.(TL)= L/360 (1.21")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.41")

CSI: TC=0.38 (11-12:1), BC=0.78 (19-20:1), WB=0.74 (5-18:1), SSI=0.18 (11-12:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

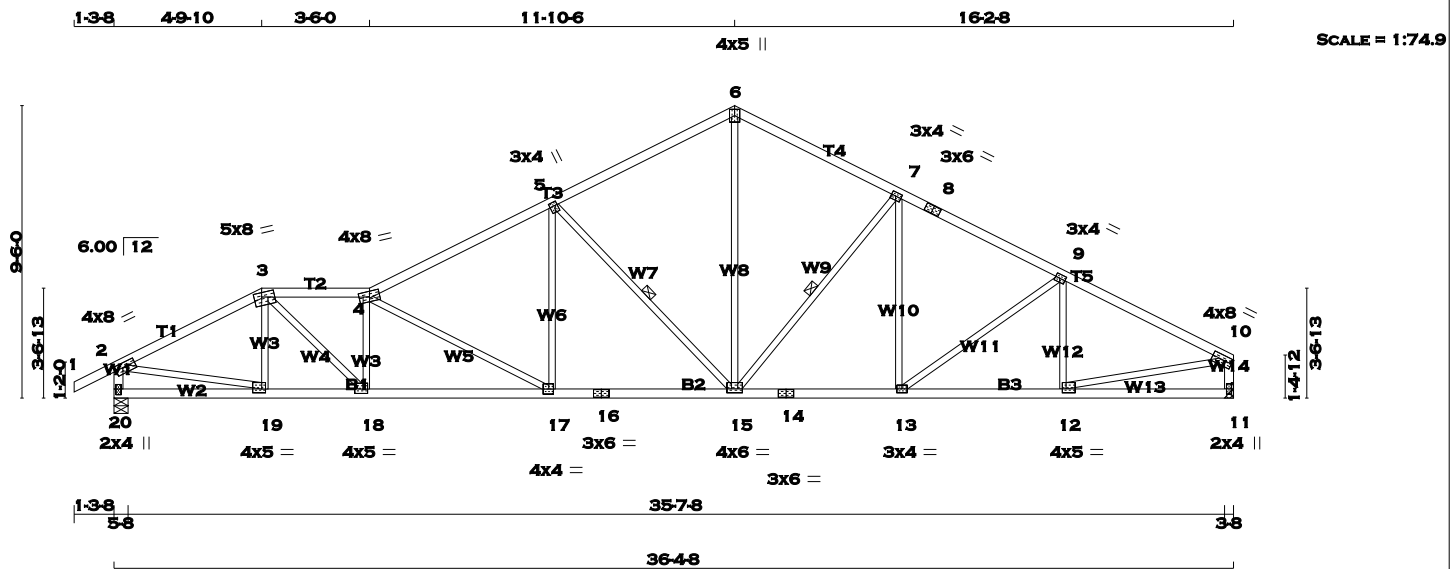
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (3) (INPUT = 0.90)
JSI METAL= 0.65 (14) (INPUT = 1.00)



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TOTAL WEIGHT = 2 X 152 = 303 lb
[M][F]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
1 - 3	2x4	DRY	No.2	SPF
3 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 8	2x4	DRY	No.2	SPF
8 - 10	2x4	DRY	No.2	SPF
20 - 2	2x4	DRY	No.2	SPF
11 - 10	2x4	DRY	No.2	SPF
20 - 16	2x4	DRY	No.2	SPF
16 - 14	2x4	DRY	No.2	SPF
14 - 11	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				
DRY: SEASONED LUMBER.				

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
2	TMVW-t	MT20	4.0	8.0 1.75 3.00
3	TTWW-m	MT20	5.0	8.0 1.75 3.00
4	TTWW-m	MT20	4.0	8.0 2.25 4.00
5	TMVW+t	MT20	3.0	4.0 1.50 0.75
6	TTW+p	MT20	4.0	5.0
7	TMVW-t	MT20	3.0	4.0 1.50 1.75
8	TS-t	MT20	3.0	6.0
9	TMVW-t	MT20	3.0	4.0 1.50 1.75
10	TMVW-t	MT20	4.0	8.0 1.75 Edge
11	BMV1+p	MT20	2.0	4.0
12	BMVW-t	MT20	4.0	5.0 1.50 1.50
13	BMVW-t	MT20	3.0	4.0
14	BS-t	MT20	3.0	6.0
15	BMVW+t	MT20	4.0	6.0 1.50 3.00
16	BS-t	MT20	3.0	6.0
17	BMVW-t	MT20	4.0	4.0 2.00 1.75
18	BMVW-t	MT20	4.0	5.0 1.75 1.75
19	BMVW-t	MT20	4.0	5.0 1.50 1.50
20	BMV1+p	MT20	2.0	4.0 2.25 1.00

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

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

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

FACTORED GROSS REACTION			MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
20	1830	0	1830	0	0	5-8	5-8
11	1725	0	1725	0	0	HANGER BY OTHERS	
MIN. SEAT SIZE: 3-8							

UNFACTORED REACTIONS

JT	1ST LCASE	2ND LCASE	3RD LCASE	4TH LCASE	5TH LCASE	6TH LCASE	7TH LCASE	8TH LCASE
20	1282	910 / 0	0 / 0	0 / 0	0 / 0	372 / 0	0 / 0	0 / 0
11	1211	847 / 0	0 / 0	0 / 0	0 / 0	364 / 0	0 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.66 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-15. DBS = 12-0-0. CBF = 84 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-15. DBS = 20-0-0. CBF = 71 LBS.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED UNBRACED LENGTH (LC)	
FR-TO				FR-TO			
1-2	0 / 23	-77.3	-77.3 0.10 (1)	10.00	19-3	-304 / 0	0.06 (1)
2-3	-2482 / 0	-77.3	-77.3 0.32 (1)	4.11	3-18	0 / 1581	0.36 (1)
3-4	-3349 / 0	-77.3	-77.3 0.25 (1)	3.66	18-4	-1031 / 0	0.22 (1)
4-5	-2726 / 0	-77.3	-77.3 0.49 (1)	3.78	4-17	-1050 / 0	0.92 (1)
5-6	-1916 / 0	-77.3	-77.3 0.42 (1)	4.45	17-5	0 / 620	0.14 (1)
6-7	-1909 / 0	-77.3	-77.3 0.31 (1)	4.59	5-15	-1115 / 0	0.56 (1)
7-8	-2295 / 0	-77.3	-77.3 0.32 (1)	4.26	15-6	0 / 1350	0.30 (1)
8-9	-2295 / 0	-77.3	-77.3 0.32 (1)	4.26	15-7	-569 / 0	0.27 (1)
9-10	-2403 / 0	-77.3	-77.3 0.38 (1)	4.11	13-7	0 / 170	0.04 (4)
20-2	-1792 / 0	0.0	0.0 0.18 (1)	6.24	13-9	-139 / 0	0.11 (1)
11-10	-1683 / 0	0.0	0.0 0.17 (1)	6.40	12-9	-322 / 0	0.08 (1)
					2-19	0 / 2252	0.51 (1)
					12-10	0 / 2206	0.50 (1)
20-19	0 / 0	-17.5	-17.5 0.09 (4)	10.00			
19-18	0 / 2209	-17.5	-17.5 0.39 (1)	10.00			
18-17	0 / 3381	-17.5	-17.5 0.62 (1)	10.00			
17-16	0 / 2461	-17.5	-17.5 0.46 (1)	10.00			
16-15	0 / 2461	-17.5	-17.5 0.46 (1)	10.00			
15-14	0 / 2052	-17.5	-17.5 0.40 (1)	10.00			
14-13	0 / 2052	-17.5	-17.5 0.40 (1)	10.00			
13-12	0 / 2165	-17.5	-17.5 0.39 (1)	10.00			
12-11	0 / 0	-17.5	-17.5 0.12 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.21")
CALCULATED VERT. DEFL.(LL) = L/999 (0.20")
ALLOWABLE DEFL.(TL)= L/360 (1.21")
CALCULATED VERT. DEFL.(TL) = L/999 (0.36")

CSI: TC=0.49 (4-5:1), BC=0.62 (17-18:1), WB=0.92 (4-17:1), SSI=0.20 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) 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.

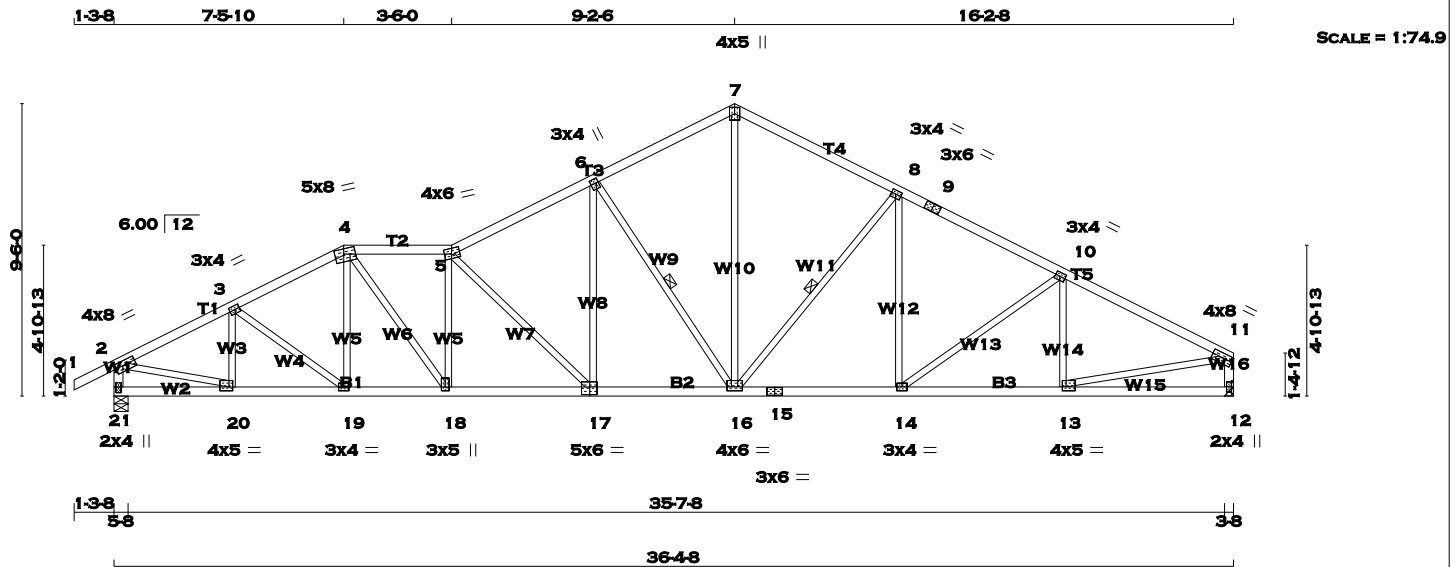
JSI GRIP= 0.90 (3) (INPUT = 0.90)
JSI METAL= 0.66 (19) (INPUT = 1.00)



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TOTAL WEIGHT = 2 X 159 = 319 lb
[M][F]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
1 - 4	2x4	DRY	No.2	SPF
4 - 5	2x4	DRY	No.2	SPF
5 - 7	2x4	DRY	No.2	SPF
7 - 9	2x4	DRY	No.2	SPF
9 - 11	2x4	DRY	No.2	SPF
21 - 2	2x4	DRY	No.2	SPF
12 - 11	2x4	DRY	No.2	SPF
21 - 17	2x4	DRY	No.2	SPF
17 - 15	2x4	DRY	No.2	SPF
15 - 12	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	4.0	8.0	1.75	3.00
3, 8, 10						
3	TMWW-t	MT20	3.0	4.0	1.50	1.75
4	TTWW-m	MT20	5.0	8.0	2.00	3.50
5	TTWW-m	MT20	4.0	6.0	2.25	2.75
6	TMWW-t	MT20	3.0	4.0	1.75	0.75
7	TTW+p	MT20	4.0	5.0		
9	TS-t	MT20	3.0	6.0		
11	TMVW-t	MT20	4.0	8.0	1.75	Edge
12	BMV1+p	MT20	2.0	4.0		
13	BMWW-t	MT20	4.0	5.0	1.50	1.50
14	BMWW-t	MT20	3.0	4.0		
15	BS-t	MT20	3.0	6.0		
16	BMWWW-t	MT20	4.0	6.0	1.50	3.00
17	BSWW-l	MT20	5.0	6.0	3.00	2.75
18	BMWWW-t	MT20	3.0	5.0	1.50	1.50
19	BMWWW-t	MT20	3.0	4.0		
20	BMWWW-t	MT20	4.0	5.0	1.50	1.50
21	BMV1+p	MT20	2.0	4.0	2.25	1.00

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

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

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

FACTORED			MAXIMUM FACTORED			INPUT	REQRD
GROSS REACTION			GROSS REACTION			BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
21	1830	0	1830	0	0	5-8	5-8
12	1725	0	1725	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
21	1282	910 / 0	0 / 0	0 / 0	0 / 0	372 / 0	0 / 0
12	1211	847 / 0	0 / 0	0 / 0	0 / 0	364 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 21

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.96 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 6-16. DBS = 14-0-0. CBF = 89 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 8-16. DBS = 20-0-0. CBF = 71 LBS.

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

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

LOADING									
TOTAL LOAD CASES: (4)									
C H O R D S					W E B S				
MEMB.	MAX. FACTORED	FACTORED			MEMB.	MAX. FACTORED			
	FORCE	VERT. LOAD	LC1 MAX	MAX.		FORCE	MAX		
	(LBS)	(PLF)	CSI (LC)	UNBRAC		(LBS)	CSI (LC)		
FR-TO		FROM	TO	LENGTH	FR-TO				
1-2	0 / 23	-77.3	-77.3	0.10 (1)	10.00	20-3	-427 / 0		0.08 (1)
2-3	-2413 / 0	-77.3	-77.3	0.19 (1)	4.28	3-19	0 / 77		0.02 (1)
3-4	-2509 / 0	-77.3	-77.3	0.19 (1)	4.22	19-4	0 / 51		0.02 (4)
4-5	-2855 / 0	-77.3	-77.3	0.21 (1)	3.96	4-18	0 / 1050		0.24 (1)
5-6	-2505 / 0	-77.3	-77.3	0.29 (1)	4.13	18-5	-784 / 0		0.28 (1)
6-7	-1909 / 0	-77.3	-77.3	0.25 (1)	4.65	5-17	-868 / 0		0.67 (1)
7-8	-1908 / 0	-77.3	-77.3	0.31 (1)	4.59	17-6	0 / 692		0.16 (1)
8-9	-2295 / 0	-77.3	-77.3	0.32 (1)	4.26	6-16	-1022 / 0		0.48 (1)
9-10	-2295 / 0	-77.3	-77.3	0.32 (1)	4.26	16-7	0 / 1387		0.31 (1)
10-11	-2403 / 0	-77.3	-77.3	0.38 (1)	4.11	16-8	-570 / 0		0.28 (1)
21-2	-1795 / 0	0.0	0.0	0.18 (1)	6.24	14-8	0 / 172		0.04 (4)
12-11	-1683 / 0	0.0	0.0	0.17 (1)	6.40	14-10	-139 / 0		0.11 (1)
						13-10	-323 / 0		0.09 (1)
21-20	0 / 0	-17.5	-17.5	0.05 (4)	10.00	2-20	0 / 2222		0.50 (1)
20-19	0 / 2169	-17.5	-17.5	0.38 (1)	10.00	13-11	0 / 2206		0.50 (1)
19-18	0 / 2231	-17.5	-17.5	0.39 (1)	10.00				
18-17	0 / 2872	-17.5	-17.5	0.51 (1)	10.00				
17-16	0 / 2259	-17.5	-17.5	0.42 (1)	10.00				
16-15	0 / 2052	-17.5	-17.5	0.39 (1)	10.00				
15-14	0 / 2052	-17.5	-17.5	0.39 (1)	10.00				
14-13	0 / 2164	-17.5	-17.5	0.39 (1)	10.00				
13-12	0 / 0	-17.5	-17.5	0.12 (4)	10.00				

DESIGN CRITERIA

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

SPACING = 24.0 IN./C/C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.21")
CALCULATED VERT. DEFL.(LL)= L/999 (0.17")
ALLOWABLE DEFL.(TL)= L/360 (1.21")
CALCULATED VERT. DEFL.(TL)= L/999 (0.31")

CSI: TC=0.38 (10-11:1), BC=0.51 (17-18:1), WB=0.67 (5-17:1), SSI=0.18 (10-11:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

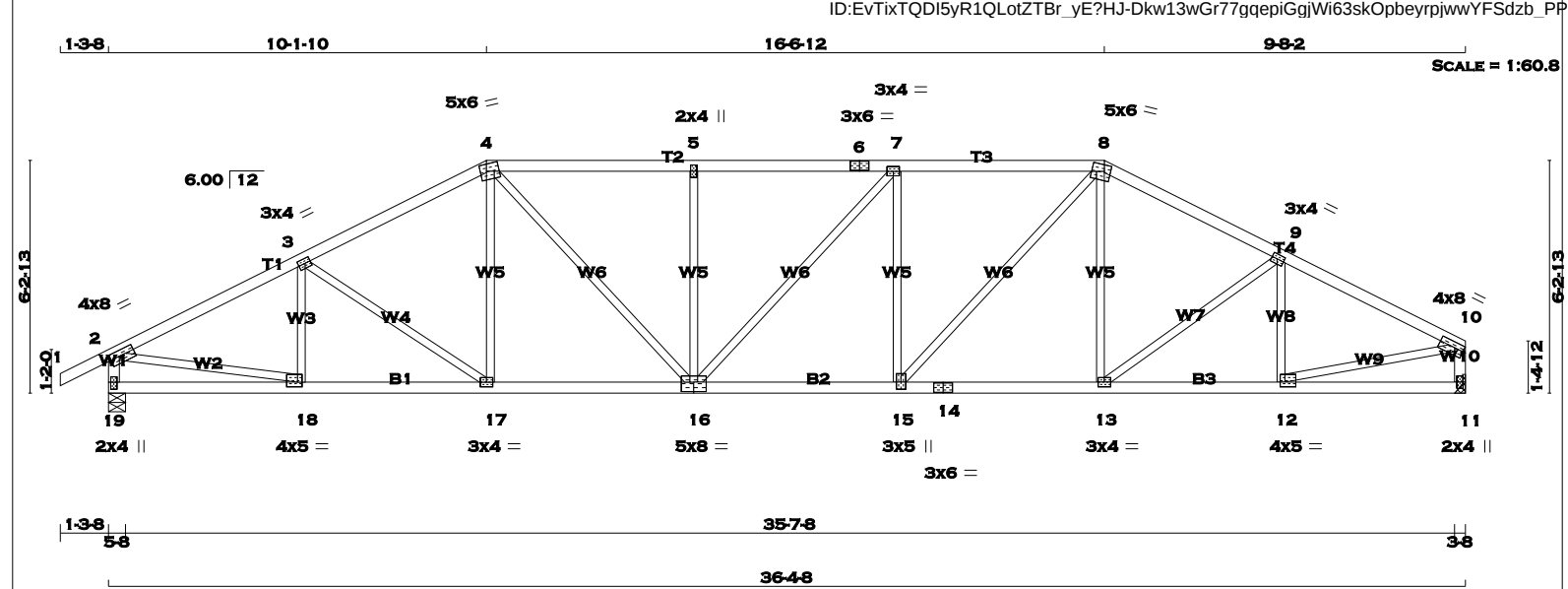
JSI GRIP= 0.89 (18) (INPUT = 0.90)
JSI METAL= 0.65 (20) (INPUT = 1.00)



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TOTAL WEIGHT = 2 X 149 = 298 lb										[M][F]									
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR.					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA				
1 - 4 2x4 DRY No.2 SPF					BEARINGS										SPECIFIED LOADS:				
4 - 6 2x4 DRY No.2 SPF					FACTORED MAXIMUM FACTORED INPUT REQ'D										TOP CH. LL = 23.3 PSF				
6 - 8 2x4 DRY No.2 SPF					GROSS REACTION GROSS REACTION BRG BRG										DL = 3.0 PSF				
8 - 10 2x4 DRY No.2 SPF					JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX										BOT CH. LL = 0.0 PSF				
19 - 2 2x4 DRY No.2 SPF					19 1830 0 1830 0 0 5-8 5-8										DL = 7.0 PSF				
11 - 10 2x4 DRY No.2 SPF					11 1725 0 1725 0 0 HANGER BY OTHERS										TOTAL LOAD = 33.3 PSF				
19 - 16 2x4 DRY No.2 SPF					MIN. SEAT SIZE: 3-8														
16 - 14 2x4 DRY No.2 SPF																			
14 - 11 2x4 DRY No.2 SPF																			
ALL WEBS 2x3 DRY No.2 SPF																			
EXCEPT																			
DRY: SEASONED LUMBER.																			
															</				



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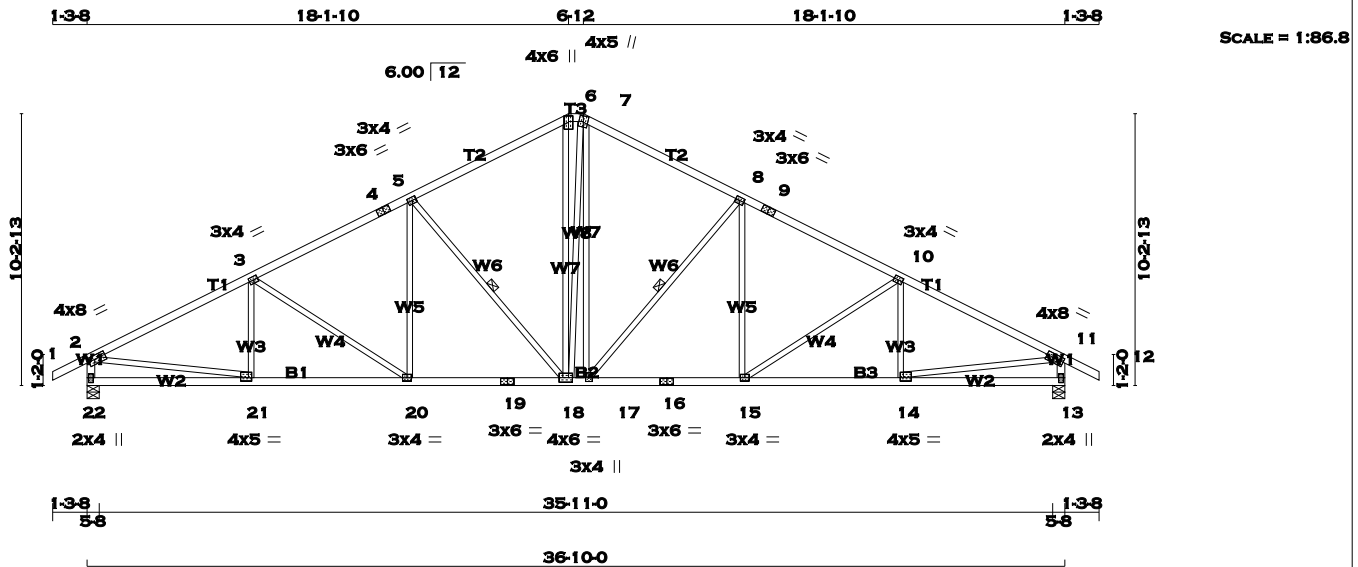
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JSI GRIP= 0.87 (16) (INPUT = 0.90)
JSI METAL= 0.72 (16) (INPUT = 1.00)





TOTAL WEIGHT = 169 lb
[M][F]

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2
4 - 6	2x4	DRY	No.2
6 - 7	2x4	DRY	No.2
7 - 9	2x4	DRY	No.2
9 - 12	2x4	DRY	No.2
22 - 2	2x4	DRY	No.2
13 - 11	2x4	DRY	No.2
22 - 19	2x4	DRY	No.2
19 - 16	2x4	DRY	No.2
16 - 13	2x4	DRY	No.2

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	X
2	TMVW-t	MT20	4.0	8.0	1.75 3.00
3, 5, 8, 10					
3	TMWW-t	MT20	3.0	4.0	1.50 1.75
4	TS-t	MT20	3.0	6.0	
6	TTW+p	MT20	4.0	6.0	2.50 2.00
7	TTWW+m	MT20	4.0	5.0	
9	TS-t	MT20	3.0	6.0	
11	TMVW-t	MT20	4.0	8.0	1.75 3.00
13	BMV1+p	MT20	2.0	4.0	2.25 1.00
14	BMWW-t	MT20	4.0	5.0	1.50 1.50
15	BMWW-t	MT20	3.0	4.0	
16	BS-t	MT20	3.0	6.0	
17	BMWW+t	MT20	3.0	4.0	1.75 1.50
18	BMWWW-t	MT20	4.0	6.0	
19	BS-t	MT20	3.0	6.0	
20	BMWW-t	MT20	3.0	4.0	
21	BMWW-t	MT20	4.0	5.0	1.50 1.50
22	BMV1+p	MT20	2.0	4.0	2.25 1.00

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



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

BEARINGS			
FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION	
JT	VERT	HORZ	UPLIFT
22	1852	0	0
13	1852	0	0

UNFACTORED REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
22	1297	921 / 0	0 / 0	0 / 0	0 / 0	376 / 0	0 / 0
13	1297	921 / 0	0 / 0	0 / 0	0 / 0	376 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 22, 13

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.86 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-18, 8-17. DBS = 20-0-0. CBF = 91 LBS.

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

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

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 23	-77.3 -77.3	0.10 (1)	10.00	21-3	-211 / 38	0.06 (1)
2-3	-2614 / 0	-77.3 -77.3	0.50 (1)	3.86	3-20	-313 / 0	0.31 (1)
3-4	-2342 / 0	-77.3 -77.3	0.40 (1)	4.15	20-5	0 / 267	0.06 (1)
4-5	-2342 / 0	-77.3 -77.3	0.40 (1)	4.15	5-18	-714 / 0	0.41 (1)
5-6	-1847 / 0	-77.3 -77.3	0.39 (1)	4.56	18-6	0 / 611	0.14 (1)
6-7	-1626 / 0	-77.3 -77.3	0.03 (1)	5.19	18-7	0 / 81	0.02 (1)
7-8	-1840 / 0	-77.3 -77.3	0.39 (1)	4.57	17-7	0 / 527	0.12 (1)
8-9	-2344 / 0	-77.3 -77.3	0.40 (1)	4.15	17-8	-728 / 0	0.42 (1)
9-10	-2344 / 0	-77.3 -77.3	0.40 (1)	4.15	15-8	0 / 281	0.06 (1)
10-11	-2613 / 0	-77.3 -77.3	0.50 (1)	3.86	15-10	-309 / 0	0.31 (1)
11-12	0 / 23	-77.3 -77.3	0.10 (1)	10.00	14-10	-215 / 36	0.06 (1)
22-2	-1805 / 0	0.0	0.0 0.18 (1)	6.23	2-21	0 / 2378	0.54 (1)
13-11	-1805 / 0	0.0	0.0 0.18 (1)	6.23	14-11	0 / 2377	0.53 (1)

22-21	0 / 0	-17.5 -17.5	0.15 (4)	10.00
21-20	0 / 2355	-17.5 -17.5	0.44 (1)	10.00
20-19	0 / 2094	-17.5 -17.5	0.44 (1)	10.00
19-18	0 / 2094	-17.5 -17.5	0.44 (1)	10.00
18-17	0 / 1621	-17.5 -17.5	0.36 (1)	10.00
17-16	0 / 2097	-17.5 -17.5	0.41 (1)	10.00
16-15	0 / 2097	-17.5 -17.5	0.41 (1)	10.00
15-14	0 / 2354	-17.5 -17.5	0.45 (1)	10.00
14-13	0 / 0	-17.5 -17.5	0.14 (4)	10.00

DESIGN CRITERIA

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

SPACING = 24.0 IN./C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.23")
CALCULATED VERT. DEFL.(LL) = L/999 (0.15")
ALLOWABLE DEFL.(TL)= L/360 (1.23")
CALCULATED VERT. DEFL.(TL) = L/999 (0.28")

CSI: TC=0.50 (2-3:1), BC=0.45 (14-15:1), WB=0.54 (2-21:1), SSI=0.20 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

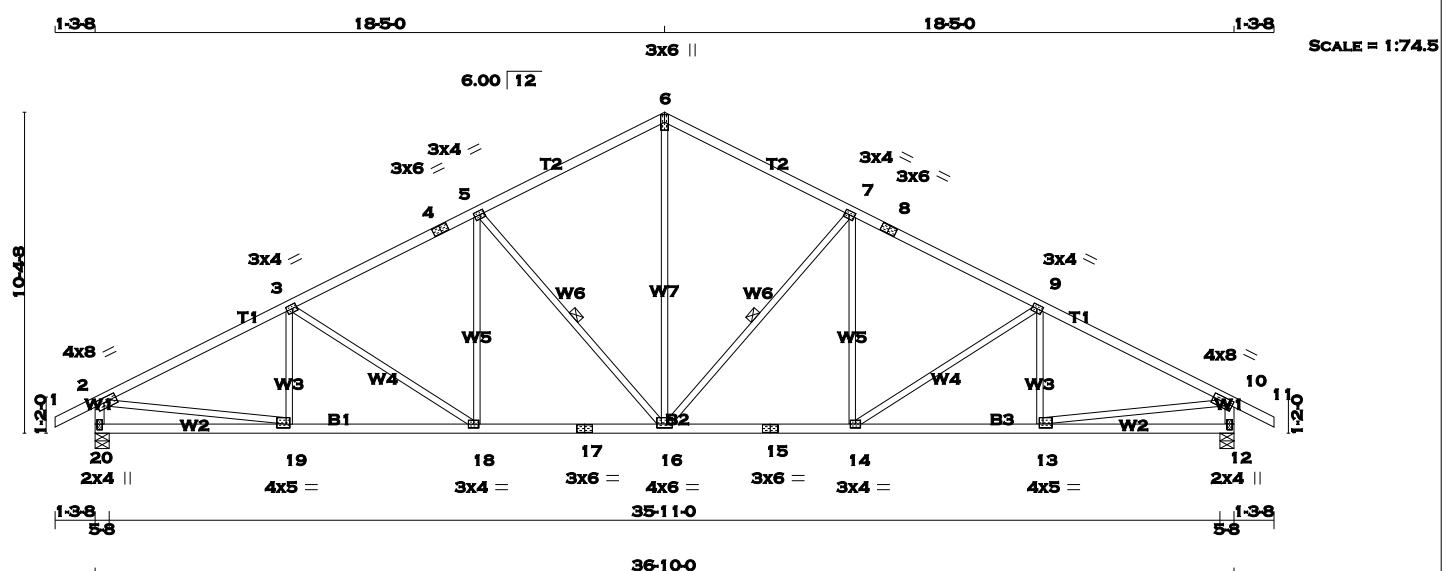
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (21) (INPUT = 0.90)
JSI METAL= 0.71 (21) (INPUT = 1.00)

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TOTAL WEIGHT = 3 X 155 = 464 lb
[M][F]

LUMBER				DESCR.	
N. L. G. A. RULES					
CHORDS	SIZE	LUMBER			
1 - 4	2x4	DRY	No.2	SPF	
4 - 6	2x4	DRY	No.2	SPF	
6 - 8	2x4	DRY	No.2	SPF	
8 - 11	2x4	DRY	No.2	SPF	
20 - 2	2x4	DRY	No.2	SPF	
12 - 10	2x4	DRY	No.2	SPF	
20 - 17	2x4	DRY	No.2	SPF	
17 - 15	2x4	DRY	No.2	SPF	
15 - 12	2x4	DRY	No.2	SPF	
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	
DRY: SEASONED LUMBER.					

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMVW-t	MT20	4.0	8.0	1.75 3.00
3, 5, 7, 9					
3	TMVW-t	MT20	3.0	4.0	1.50 1.75
4	TS-t	MT20	3.0	6.0	
6	TTW+p	MT20	3.0	6.0	
8	TS-t	MT20	3.0	6.0	
10	TMVW-t	MT20	4.0	8.0	1.75 3.00
12	BMV1+p	MT20	2.0	4.0	2.25 1.00
13	BMVW-t	MT20	4.0	5.0	1.50 1.50
14	BMVW-t	MT20	3.0	4.0	
15	BS-t	MT20	3.0	6.0	
16	BMVW-t	MT20	4.0	6.0	1.50 3.00
17	BS-t	MT20	3.0	6.0	
18	BMVW-t	MT20	3.0	4.0	
19	BMVW-t	MT20	4.0	5.0	1.50 1.50
20	BMV1+p	MT20	2.0	4.0	2.25 1.00

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

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
20	1852	0	1852	0	0	5-8	5-8
12	1852	0	1852	0	0	5-8	5-8

UNFACTORED REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
20	1297	921 / 0	0 / 0	0 / 0	0 / 0	376 / 0	0 / 0
12	1297	921 / 0	0 / 0	0 / 0	0 / 0	376 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 20, 12

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

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-16, 5-16. DBS = 20-0-0 . CBF = 92 LBS.

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)
FR-TO		FROM	TO	FR-TO		FROM	TO
1-2	0 / 23	-77.3	-77.3 0.10 (1)	10.00	16-6	0 / 1225	0.28 (1)
2-3	-2616 / 0	-77.3	-77.3 0.52 (1)	3.85	16-7	-735 / 0	0.44 (1)
3-4	-2330 / 0	-77.3	-77.3 0.42 (1)	4.14	14-7	0 / 283	0.06 (1)
4-5	-2330 / 0	-77.3	-77.3 0.42 (1)	4.14	14-9	-327 / 0	0.34 (1)
5-6	-1813 / 0	-77.3	-77.3 0.40 (1)	4.58	13-9	-206 / 41	0.06 (1)
6-7	-1813 / 0	-77.3	-77.3 0.40 (1)	4.58	5-16	-735 / 0	0.44 (1)
7-8	-2330 / 0	-77.3	-77.3 0.42 (1)	4.14	18-5	0 / 283	0.06 (1)
8-9	-2330 / 0	-77.3	-77.3 0.42 (1)	4.14	3-18	-327 / 0	0.34 (1)
9-10	-2616 / 0	-77.3	-77.3 0.52 (1)	3.85	19-3	-206 / 41	0.06 (1)
10-11	0 / 23	-77.3	-77.3 0.10 (1)	10.00	2-19	0 / 2379	0.54 (1)
20-2	-1804 / 0	0.0	0.0 0.18 (1)	6.23	13-10	0 / 2379	0.54 (1)
12-10	-1804 / 0	0.0	0.0 0.18 (1)	6.23			
20-19	0 / 0	-17.5	-17.5 0.15 (4)	10.00			
19-18	0 / 2357	-17.5	-17.5 0.44 (1)	10.00			
18-17	0 / 2084	-17.5	-17.5 0.41 (1)	10.00			
17-16	0 / 2084	-17.5	-17.5 0.41 (1)	10.00			
16-15	0 / 2084	-17.5	-17.5 0.41 (1)	10.00			
15-14	0 / 2084	-17.5	-17.5 0.41 (1)	10.00			
14-13	0 / 2357	-17.5	-17.5 0.44 (1)	10.00			
13-12	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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING 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 (1.23")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.15")
ALLOWABLE DEFL.(TL)= L/360 (1.23")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.27")

CSI: TC=0.52 (2-3:1) , BC=0.44 (18-19:1) , WB=0.54 (10-13:1) , SSI=0.20 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (6) (INPUT = 0.90)
JSI METAL= 0.71 (13) (INPUT = 1.00)



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DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL)= $L/360$ (1.23")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.15")
ALLOWABLE DEFL.(TL)= $L/360$ (1.23")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.27")

CSI: TC=0.56 (2-3:1) , BC=0.45 (16-17:1) ,
WB=0.55 (5-14:1) , 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 .

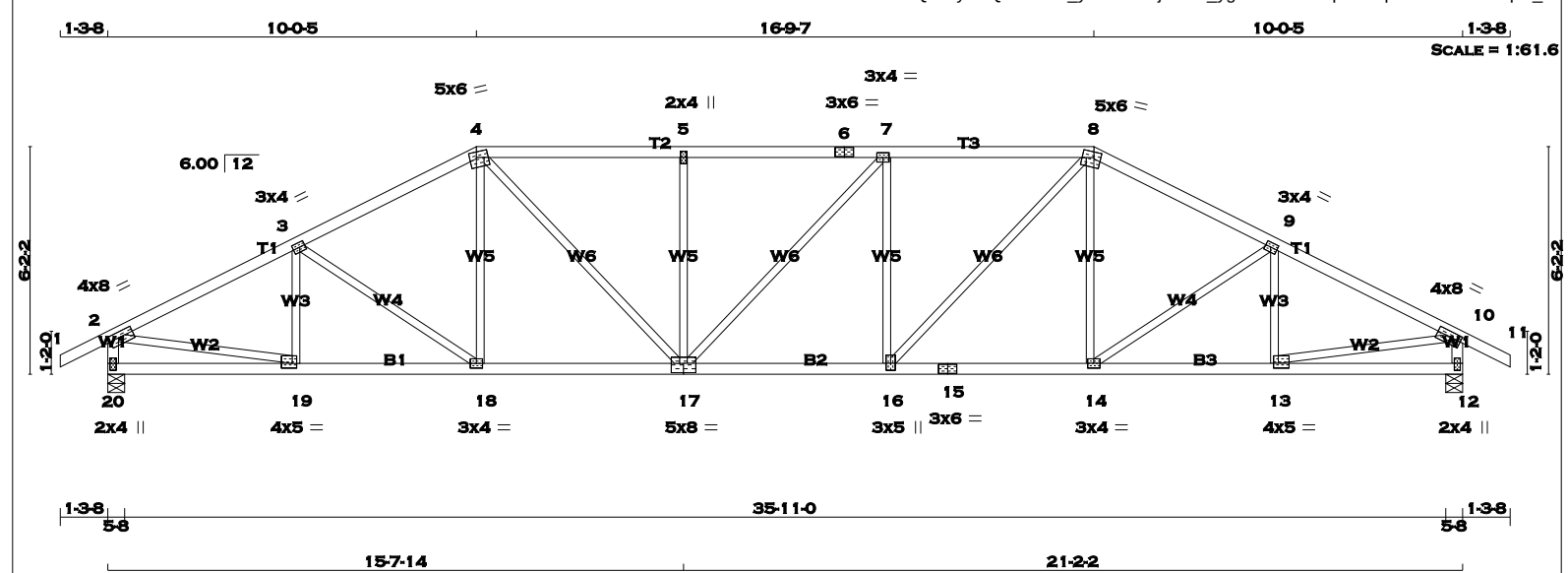
NAIL VALUES						
PLATE	GRIP(DRY)		SHEAR		SECTION	
	(PSI)		(PLI)		(PLI)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (17) (INPUT = 0.90)
JSI METAL= 0.71 (11) (INPUT = 1.00)





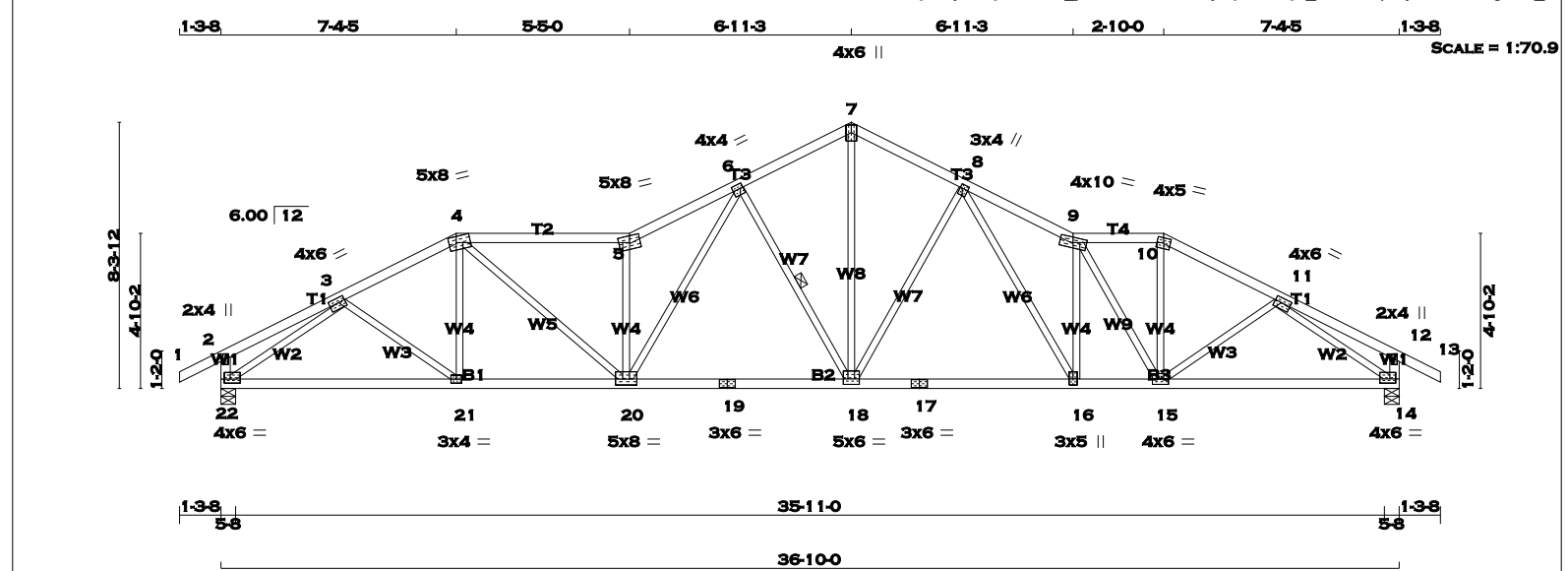
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. LUMBER DESCR. 1 - 4 2x4 DRY No.2 SPF 4 - 6 2x4 DRY No.2 SPF 6 - 8 2x4 DRY No.2 SPF 8 - 11 2x4 DRY No.2 SPF 20 - 2 2x4 DRY No.2 SPF 12 - 10 2x4 DRY No.2 SPF 20 - 17 2x4 DRY No.2 SPF 17 - 15 2x4 DRY No.2 SPF 15 - 12 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 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 20 1852 0 1852 0 0 5-8 5-8 12 1852 0 1852 0 0 5-8 5-8 UNFACTORED REACTIONS 1ST LCASE MAX/MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 20 1297 921 / 0 0 / 0 0 / 0 376 / 0 0 / 0 12 1297 921 / 0 0 / 0 0 / 0 376 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 20, 12 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.88 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED. LOADING TOTAL LOAD CASES: (4) CHORDS WEBS MAX. FACTORED MAX. FACTORED MAX. FACTORED MEMB. FORCE VERT. LOAD LC1 MAX. MEMB. FORCE MAX. (LBS) (PLF) CSI (LC) UNBRAC (LBS) CSI (LC) FR-TO FROM TO LENGTH FR-TO 1-2 0 / 23 -77.3 -77.3 0.10 (1) 10.00 19-3 -302 / 0 0.07 (1) 2-3 -2576 / 0 -77.3 -77.3 0.34 (1) 4.03 3-18 -180 / 0 0.12 (1) 3-4 -2451 / 0 -77.3 -77.3 0.32 (1) 4.13 18-4 0 / 201 0.05 (1) 4-5 -2715 / 0 -77.3 -77.3 0.39 (1) 3.88 4-17 0 / 779 0.18 (1) 5-6 -2715 / 0 -77.3 -77.3 0.36 (1) 3.92 17-5 -467 / 0 0.28 (1) 6-7 -2715 / 0 -77.3 -77.3 0.36 (1) 3.92 17-7 -2 / 0 0.00 (1) 7-8 -2716 / 0 -77.3 -77.3 0.39 (1) 3.88 16-7 -468 / 0 0.28 (1) 8-9 -2450 / 0 -77.3 -77.3 0.32 (1) 4.13 16-8 0 / 781 0.18 (1) 9-10 -2576 / 0 -77.3 -77.3 0.34 (1) 4.03 14-8 0 / 200 0.04 (1) 10-11 0 / 23 -77.3 -77.3 0.10 (1) 10.00 14-9 -180 / 0 0.12 (1) 20-2 -1810 / 0 0.0 0.0 0.18 (1) 6.22 13-9 -302 / 0 0.07 (1) 12-10 -1810 / 0 0.0 0.0 0.18 (1) 6.21 2-19 0 / 2354 0.53 (1) 13-10 0 / 2354 0.53 (1) 20-19 0 / 0 -17.5 -17.5 0.09 (4) 10.00 19-18 0 / 2321 -17.5 -17.5 0.43 (1) 10.00 18-17 0 / 2176 -17.5 -17.5 0.41 (1) 10.00 17-16 0 / 2716 -17.5 -17.5 0.49 (1) 10.00 16-15 0 / 2176 -17.5 -17.5 0.41 (1) 10.00 15-14 0 / 2176 -17.5 -17.5 0.41 (1) 10.00 14-13 0 / 2321 -17.5 -17.5 0.43 (1) 10.00 13-12 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 6.00/12 THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012, BCBC 2012, ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (1.23") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.18") ALLOWABLE DEFL.(TL)= L/360 (1.23") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.32") CSI: TC=0.39 (4-5:1), BC=0.49 (16-17:1), WB=0.53 (10-13:1), SSI=0.20 (7-8:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 822 2284 1656 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.89 (4) (INPUT = 0.90) JSI METAL= 0.70 (13) (INPUT = 1.00)			
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READ ALL NOTES ON THIS PAGE AND ON THE
ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE
IS AN INTEGRAL PART OF THIS DRAWING AS IT
CONTAINS SPECIFICATIONS AND CRITERIA USED
IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 159 lb
[M][F]

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

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	6.0	1.75 2.50
4	TTWW-m	MT20	5.0	8.0	2.25 2.75
5	TTW-m	MT20	5.0	8.0	
6	TMWW-t	MT20	4.0	4.0	1.75 1.00
7	TTW+p	MT20	4.0	6.0	Edge
8	TMWW+t	MT20	3.0	4.0	1.50 0.75
9	TTWW-m	MT20	4.0	10.0	
10	TTW-m	MT20	4.0	5.0	1.75 2.50
11	TMWW-t	MT20	4.0	6.0	1.75 2.50
12	TMV+p	MT20	2.0	4.0	
14	BMVW1-t	MT20	4.0	6.0	1.50 2.25
15	BMWWV-t	MT20	4.0	6.0	
16	BMWW+t	MT20	3.0	5.0	2.25 1.50
17	BS-t	MT20	3.0	6.0	
18	BMWWV-t	MT20	5.0	6.0	2.00 3.00
19	BS-t	MT20	3.0	6.0	
20	BMWWV-t	MT20	5.0	8.0	2.25 4.00
21	BMWW-t	MT20	3.0	4.0	
22	BMVW1-t	MT20	4.0	6.0	1.50 2.25
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.					
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.					



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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
22	1852	0	1852	0	0
14	1852	0	1852	0	0

UNFACTORED REACTIONS		1ST LCASE	MAX/MIN.	COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE	PERM.LIVE
22	1297	921 / 0	0 / 0	0 / 0
14	1297	921 / 0	0 / 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 = 3.53 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.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 6-18. DBS = 12-0-0 . CBF = 81 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		FACTORED		WEBS		FACTORED	
MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FORCE (LBS)	MAX (LC)
FR-TO		FROM TO			FR-TO		
1-2	0 / 23	-77.3 -77.3	0.10 (1)	10.00	3-21	0 / 161	0.04 (4)
2-3	0 / 11	-77.3 -77.3	0.13 (1)	10.00	21-4	0 / 86	0.03 (4)
3-4	-2564 / 0	-77.3 -77.3	0.19 (1)	4.18	4-20	0 / 1197	0.27 (1)
4-5	-3191 / 0	-77.3 -77.3	0.44 (1)	3.55	20-5	-1923 / 0	0.66 (1)
5-6	-3600 / 0	-77.3 -77.3	0.27 (1)	3.53	20-6	0 / 1409	0.32 (1)
6-7	-2264 / 0	-77.3 -77.3	0.17 (1)	4.41	6-18	-1087 / 0	0.38 (1)
7-8	-2263 / 0	-77.3 -77.3	0.16 (1)	4.43	18-7	0 / 1804	0.41 (1)
8-9	-3173 / 0	-77.3 -77.3	0.22 (1)	3.78	18-8	-804 / 0	0.80 (1)
9-10	-2300 / 0	-77.3 -77.3	0.14 (1)	4.42	8-16	0 / 910	0.20 (1)
10-11	-2561 / 0	-77.3 -77.3	0.19 (1)	4.17	16-9	-743 / 0	0.26 (1)
11-12	0 / 11	-77.3 -77.3	0.13 (1)	10.00	9-15	-1039 / 0	0.47 (1)
12-13	0 / 23	-77.3 -77.3	0.10 (1)	10.00	15-10	0 / 918	0.21 (1)
22-2	-222 / 0	0.0 0.0	0.02 (1)	7.81	15-11	0 / 162	0.04 (4)
14-12	-224 / 0	0.0 0.0	0.02 (1)	7.81	22-3	-2665 / 0	0.90 (1)
					11-14	-2662 / 0	0.90 (1)
22-21	0 / 2150	-17.5 -17.5	0.46 (1)	10.00			
21-20	0 / 2282	-17.5 -17.5	0.48 (1)	10.00			
20-19	0 / 2538	-17.5 -17.5	0.54 (1)	10.00			
19-18	0 / 2538	-17.5 -17.5	0.54 (1)	10.00			
18-17	0 / 2402	-17.5 -17.5	0.52 (1)	10.00			
17-16	0 / 2402	-17.5 -17.5	0.52 (1)	10.00			
16-15	0 / 2835	-17.5 -17.5	0.55 (1)	10.00			
15-14	0 / 2147	-17.5 -17.5	0.47 (1)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.23")
CALCULATED VERT. DEFL.(LL) = L/999 (0.24")
ALLOWABLE DEFL.(TL)= L/360 (1.23")
CALCULATED VERT. DEFL.(TL) = L/998 (0.44")

CSI: TC=0.44 (4-5:1) , BC=0.55 (15-16:1) , WB=0.90 (3-22:1) , SSI=0.16 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

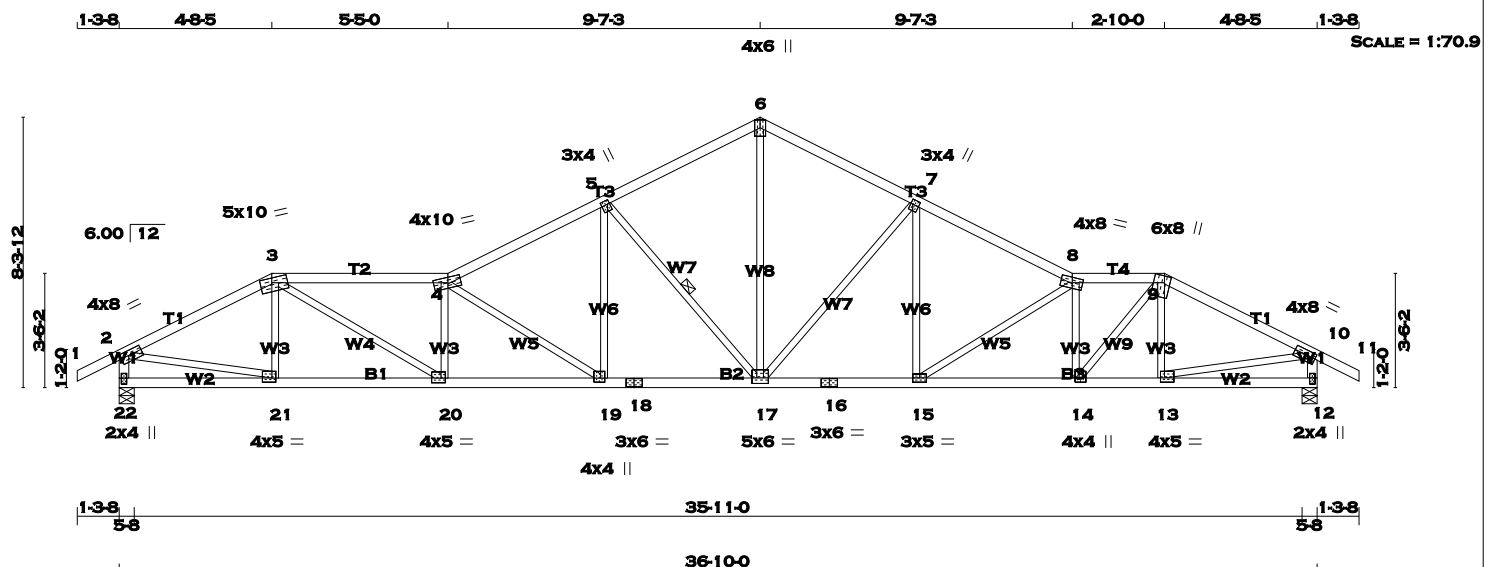
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (22) (INPUT = 0.90)
JSI METAL= 0.81 (9) (INPUT = 1.00)

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



TOTAL WEIGHT = 153 lb

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 8	2x4	DRY	No.2	SPF
8 - 9	2x4	DRY	No.2	SPF
9 - 11	2x4	DRY	No.2	SPF
22 - 2	2x4	DRY	No.2	SPF
12 - 10	2x4	DRY	No.2	SPF
22 - 18	2x4	DRY	No.2	SPF
18 - 16	2x4	DRY	No.2	SPF
16 - 12	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TTMW-t	MT20	4.0	8.0	1.75 3.00
3	TTVW-m	MT20	5.0	10.0	1.75 4.25
4	TTVW-m	MT20	4.0	10.0	2.00 4.75
5	TMWW+t	MT20	3.0	4.0	1.50 0.75
6	TTW+p	MT20	4.0	6.0	Edge
7	TMWW+t	MT20	3.0	4.0	1.75 0.75
8	TTVW-m	MT20	4.0	8.0	2.00 3.75
9	TTVW+m	MT20	6.0	8.0	2.50 2.00
10	TMVW-t	MT20	4.0	8.0	1.75 3.00
12	BMV1+p	MT20	2.0	4.0	2.25 1.00
13	BMWW-t	MT20	4.0	5.0	1.50 1.50
14	BMWW+t	MT20	4.0	4.0	1.50 1.50
15	BMWW-t	MT20	3.0	5.0	
16	BS-t	MT20	3.0	6.0	
17	BMWWW-t	MT20	5.0	6.0	2.00 3.00
18	BS-t	MT20	3.0	6.0	
19	BMWWW+t	MT20	4.0	4.0	1.50 1.50
20	BMWW-t	MT20	4.0	5.0	1.75 1.50
21	BMWW-t	MT20	4.0	5.0	1.50 1.50
22	BMV1+p	MT20	2.0	4.0	2.25 1.00

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

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

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

	FACTORED		MAXIMUM FACTORED			INPUT	REQRD
	GROSS		GROSS			BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
22	1852	0	1852	0	0	5-8	5-8
12	1852	0	1852	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
22	1297	921/0	0/0	0/0	0/0	376/0	0/0
12	1297	921/0	0/0	0/0	0/0	376/0	0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 22, 12

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.14 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY
APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 5-17. DBS = 12-0-0 . CBF = 92 LBS.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX FACTORED CSI (LC)
FR-TO		FROM TO		LENGTH	FR-TO		
1-2	0 / 23	-77.3	-77.3 0.10 (1)	10.00	21-3	-297 / 0	0.06 (1)
2-3	-2519 / 0	-77.3	-77.3 0.31 (1)	4.09	3-20	0 / 2001	0.45 (1)
3-4	-3954 / 0	-77.3	-77.3 0.53 (1)	3.14	20-4	-963 / 0	0.20 (1)
4-5	-3117 / 0	-77.3	-77.3 0.36 (1)	3.69	4-19	-1418 / 0	0.83 (1)
5-6	-2260 / 0	-77.3	-77.3 0.29 (1)	4.30	19-5	0 / 875	0.20 (1)
6-7	-2260 / 0	-77.3	-77.3 0.29 (1)	4.30	5-17	-1232 / 0	0.45 (1)
7-8	-2883 / 0	-77.3	-77.3 0.34 (1)	3.84	17-6	0 / 1718	0.39 (1)
8-9	-3215 / 0	-77.3	-77.3 0.19 (1)	3.78	17-7	-910 / 0	0.97 (1)
9-10	-2511 / 0	-77.3	-77.3 0.31 (1)	4.10	15-7	0 / 527	0.12 (1)
10-11	0 / 23	-77.3	-77.3 0.10 (1)	10.00	15-8	-787 / 0	0.46 (1)
22-2	-1819 / 0	0.0	0.0 0.18 (1)	6.20	14-8	-1110 / 0	0.23 (1)
12-10	-1814 / 0	0.0	0.0 0.18 (1)	6.21	14-9	0 / 1515	0.34 (1)
					13-9	-319 / 0	0.07 (1)
22-21	0 / 0	-17.5	-17.5 0.10 (4)	10.00	2-21	0 / 2287	0.51 (1)
21-20	0 / 2242	-17.5	-17.5 0.42 (1)	10.00	13-10	0 / 2280	0.51 (1)
20-19	0 / 3985	-17.5	-17.5 0.70 (1)	10.00			
19-18	0 / 2807	-17.5	-17.5 0.51 (1)	10.00			
18-17	0 / 2807	-17.5	-17.5 0.51 (1)	10.00			
17-16	0 / 2597	-17.5	-17.5 0.47 (1)	10.00			
16-15	0 / 2597	-17.5	-17.5 0.47 (1)	10.00			
15-14	0 / 3251	-17.5	-17.5 0.59 (1)	10.00			
14-13	0 / 2234	-17.5	-17.5 0.39 (1)	10.00			
13-12	0 / 0	-17.5	-17.5 0.09 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

LOADING IN ALL FLAT SECTIONS BASED ON A
SLOPE OF 6.00/12

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.23")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.27")
ALLOWABLE DEFL.(TL)= L/360 (1.23")
CALCULATED VERT. DEFL.(TL) = L/ 909 (0.49")

CSI: TC=0.53 (3-4:1) , BC=0.70 (19-20:1) ,
WB=0.97 (7-17:1) , SSI=0.16 (3-4:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

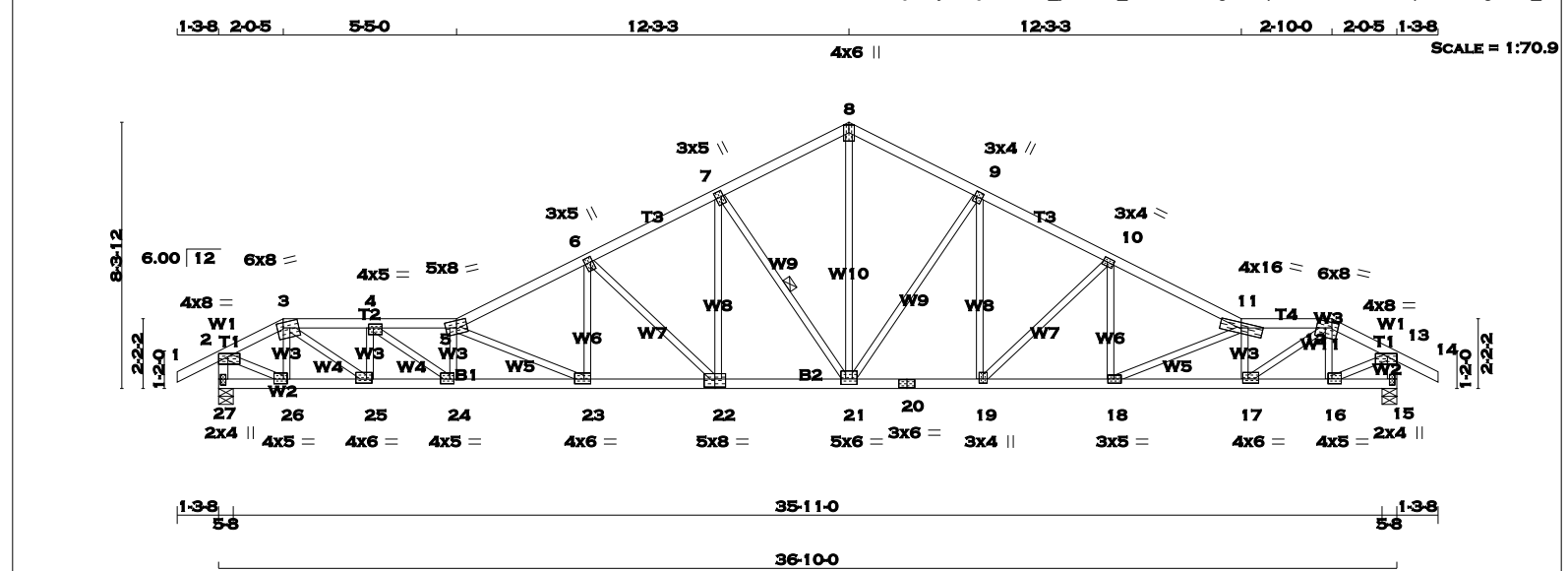
JSI GRIP= 0.90 (19) (INPUT = 0.90)
JSI METAL= 0.70 (18) (INPUT = 1.00)



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IN THE DESIGN OF THIS COMPONENT.**



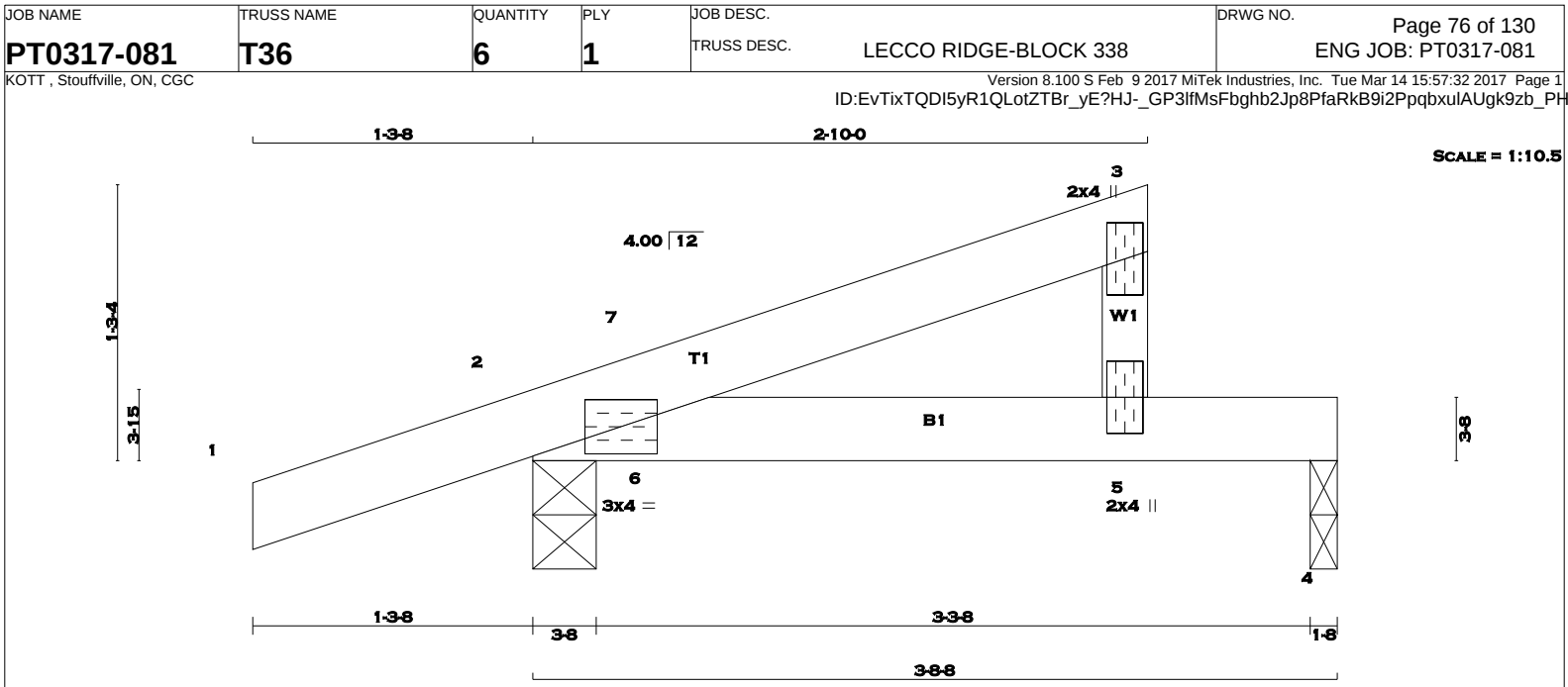


LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. SPF 1 - 3 2x4 DRY No.2 SPF 3 - 5 2x4 DRY No.2 SPF 5 - 8 2x4 DRY No.2 SPF 8 - 11 2x4 DRY No.2 SPF 11 - 12 2x4 DRY No.2 SPF 12 - 14 2x4 DRY No.2 SPF 27 - 2 2x4 DRY No.2 SPF 15 - 13 2x4 DRY No.2 SPF 27 - 22 2x4 DRY No.2 SPF 22 - 20 2x4 DRY No.2 SPF 20 - 15 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 27 1852 0 1852 0 0 5-8 5-8 15 1852 0 1852 0 0 5-8 5-8 UNFACTORED REACTIONS 1ST LCASE MAX/MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 27 1297 921 / 0 0 / 0 0 / 0 376 / 0 0 / 0 15 1297 921 / 0 0 / 0 0 / 0 376 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 27, 15 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.77 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED. 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-21. DBS = 12-0-0 . CBF = 86 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 MEMB. MAX. FACTORED FORCE (LBS) FACTORED VERT. LOAD (PLF) LC1 MAX. UNBRAC LENGTH FR-TO FR-TO 1-2 0 / 23 -77.3 -77.3 0.10 (1) 10.00 26-3 -677 / 0 0.10 (1) 2-3 -2045 / 0 -77.3 -77.3 0.08 (1) 4.69 3-25 0 / 2472 0.56 (1) 3-4 -3820 / 0 -77.3 -77.3 0.23 (1) 3.46 25-4 -1350 / 0 0.20 (1) 4-5 -5414 / 0 -77.3 -77.3 0.38 (1) 2.77 4-24 0 / 1969 0.44 (1) 5-6 -3976 / 0 -77.3 -77.3 0.35 (1) 3.31 24-5 -1148 / 0 0.17 (1) 6-7 -2970 / 0 -77.3 -77.3 0.23 (1) 3.89 5-23 -2099 / 0 0.73 (1) 7-8 -2254 / 0 -77.3 -77.3 0.21 (1) 4.39 23-6 0 / 981 0.22 (1) 8-9 -2254 / 0 -77.3 -77.3 0.21 (1) 4.39 6-22 -1264 / 0 0.68 (1) 9-10 -2782 / 0 -77.3 -77.3 0.22 (1) 4.02 22-7 0 / 930 0.21 (1) 10-11 -3404 / 0 -77.3 -77.3 0.29 (1) 3.61 7-21 -1151 / 0 0.41 (1) 11-12 -3811 / 0 -77.3 -77.3 0.23 (1) 3.46 21-8 0 / 1744 0.39 (1) 12-13 -2052 / 0 -77.3 -77.3 0.08 (1) 4.68 21-9 -854 / 0 0.86 (1) 13-14 0 / 23 -77.3 -77.3 0.10 (1) 10.00 19-9 0 / 602 0.14 (1) 27-2 -1840 / 0 0.0 0.0 0.19 (1) 6.17 19-10 -788 / 0 0.43 (1) 15-13 -1845 / 0 0.0 0.0 0.19 (1) 6.16 18-10 0 / 480 0.11 (1) 18-11 -914 / 0 0.32 (1) 27-11 -1383 / 0 0.21 (1) 26-25 0 / 1788 -17.5 -17.5 0.31 (1) 10.00 17-12 0 / 2447 0.55 (1) 25-24 0 / 3820 -17.5 -17.5 0.72 (1) 10.00 16-12 -653 / 0 0.10 (1) 24-23 0 / 5477 -17.5 -17.5 1.00 (1) 10.00 2-26 0 / 1968 0.44 (1) 23-22 0 / 3570 -17.5 -17.5 0.61 (1) 10.00 16-13 0 / 1975 0.44 (1) 22-21 0 / 2656 -17.5 -17.5 0.48 (1) 10.00 21-20 0 / 2488 -17.5 -17.5 0.46 (1) 10.00 20-19 0 / 2488 -17.5 -17.5 0.46 (1) 10.00 19-18 0 / 3058 -17.5 -17.5 0.53 (1) 10.00 18-17 0 / 3888 -17.5 -17.5 0.72 (1) 10.00 17-16 0 / 1796 -17.5 -17.5 0.37 (1) 10.00 16-15 0 / 1796 -17.5 -17.5 0.37 (1) 10.00 15-14 0 / 1796 -17.5 -17.5 0.37 (1) 10.00 14-13 0 / 1796 -17.5 -17.5 0.37 (1) 10.00 13-12 0 / 1796 -17.5 -17.5 0.37 (1) 10.00 12-11 0 / 1796 -17.5 -17.5 0.37 (1) 10.00 11-10 0 / 1796 -17.5 -17.5 0.37 (1) 10.00 10-9 0 / 1796 -17.5 -17.5 0.37 (1) 10.00 9-8 0 / 1796 -17.5 -17.5 0.37 (1) 10.00 8-7 0 / 1796 -17.5 -17.5 0.37 (1) 10.00 7-6 0 / 1796 -17.5 -17.5 0.37 (1) 10.00 6-5 0 / 1796 -17.5 -17.5 0.37 (1) 10.00 5-4 0 / 1796 -17.5 -17.5 0.37 (1) 10.00 4-3 0 / 1796 -17.5 -17.5 0.37 (1) 10.00 3-2 0 / 1796 -17.5 -17.5 0.37 (1) 10.00 2-1 0 / 1796 -17.5 -17.5 0.37 (1) 10.00 1-0 0 / 1796 -17.5 -17.5 0.37 (1) 10.00 WEBS MEMB. MAX. FACTORED FORCE (LBS) MAX. UNBRAC LENGTH FR-TO FR-TO 26-3 -677 / 0 0.10 (1) 3-25 0 / 2472 0.56 (1) 25-4 -1350 / 0 0.20 (1) 4-24 0 / 1969 0.44 (1) 24-5 -1148 / 0 0.17 (1) 5-23 -2099 / 0 0.73 (1) 23-6 0 / 981 0.22 (1) 6-22 -1264 / 0 0.68 (1) 22-7 0 / 930 0.21 (1) 7-21 -1151 / 0 0.41 (1) 21-8 0 / 1744 0.39 (1) 21-9 -854 / 0 0.86 (1) 19-9 0 / 602 0.14 (1) 19-10 -788 / 0 0.43 (1) 18-10 0 / 480 0.11 (1) 18-11 -914 / 0 0.32 (1) 17-11 -1383 / 0 0.21 (1) 17-12 0 / 2447 0.55 (1) 16-12 -653 / 0 0.10 (1) 2-26 0 / 1968 0.44 (1) 16-13 0 / 1975 0.44 (1) PLATES (table is in inches) JT TYPE PLATES W LEN Y X 2 TMVW-p MT20 4.0 8.0 1.25 3.50 3 TTWW-m MT20 6.0 8.0 2.00 2.25 4 TMVW-t MT20 4.0 5.0 1.50 1.75 5 TTWW-m MT20 5.0 8.0 2.75 4.00 6 TMVW-t MT20 3.0 5.0 2.00 0.75 7 TMVW-t MT20 3.0 5.0 2.25 0.75 8 TTW+p MT20 4.0 6.0 Edge 9 TMVW-t MT20 3.0 4.0 2.00 0.75 10 TMVW-t MT20 3.0 4.0 1.50 1.50 11 TTWW-m MT20 4.0 16.0 12 TTWW-m MT20 6.0 8.0 2.00 2.25 13 TMVW-p MT20 4.0 8.0 1.25 3.50 15 BMV1+p MT20 2.0 4.0 2.25 1.00 16, 24, 26 16 BMVW-t MT20 4.0 5.0 1.75 1.50 17 BMVW-t MT20 4.0 6.0 1.50 2.00 18 BMVW-t MT20 3.0 5.0 1.50 2.25 19 BMVW-t MT20 3.0 4.0 1.50 1.50 20 BS-t MT20 3.0 6.0 21 BMVW-t MT20 5.0 6.0 2.00 3.00 22 BSWW-l MT20 5.0 8.0 3.00 4.00 23 BMVW-t MT20 4.0 6.0 1.75 2.50 25 BMVW-t MT20 4.0 6.0 1.50 2.00 27 BMV1+p MT20 2.0 4.0 2.25 1.00 Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD. A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.			DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.0 PSF TOTAL LOAD = 33.3 PSF SPACING = 24.0 IN./C LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12 THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012, BCBC 2012, ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (1.23") CALCULATED VERT. DEFL.(LL) = L/999 (0.35") ALLOWABLE DEFL.(TL)= L/360 (1.23") CALCULATED VERT. DEFL.(TL) = L/715 (0.62") CSI: TC=0.38 (4-5-1), BC=1.00 (23-24-1), WB=0.86 (9-21-1), SSI=0.13 (7-8-1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 822 2284 1656 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.90 (23) (INPUT = 0.90) JSI METAL= 0.67 (22) (INPUT = 1.00)		
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LUMBER
N. L. G. A. RULES
CHORDS SIZE LUMBER DESCR. SPF

1 - 3	2x4	DRY	No.2	SPF
5 - 3	2x3	DRY	No.2	SPF
2 - 4	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	FACTORED GROSS REACTION HORZ	INPUT BRG DOWN	REQRD BRG UPLIFT
2	271	0	271	0
4	116	0	116	0

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX/MIN. SNOW	MAX/MIN. LIVE	MAX/MIN. PERM. LIVE	WIND	DEAD	SOIL
2	188	144 / 0	0 / 0	0 / 0	0 / 0	44 / 0	0 / 0
4	83	50 / 0	0 / 0	0 / 0	0 / 0	32 / 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: (5)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MAX. UNBRACED LENGTH	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)
FR-TO			FROM	TO		FR-TO			
1-2		0 / 15	-77.3	-77.3	0.10 (1)	10.00	6-7	-18 / 32	0.00 (1)
2-7		-25 / 0	-77.3	-77.3	0.06 (1)	6.25			
7-3		0 / 6	-77.3	-77.3	0.10 (1)	10.00			
5-3		-106 / 0	0.0	0.0	0.01 (1)	7.81			
2-6		0 / 0	-17.5	-17.5	0.06 (1)	10.00			
6-5		0 / 0	-17.5	-17.5	0.13 (1)	10.00			
5-4		0 / 0	-17.5	-17.5	0.13 (1)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")

CSI: TC=0.10 (3-7:1), BC=0.13 (5-6:1), WB=0.00 (6-7:1), SSI=0.09 (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 (PSI)	SECTION (PLI)
	MAX	MIN	MAX MIN
MT20	618	354	1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

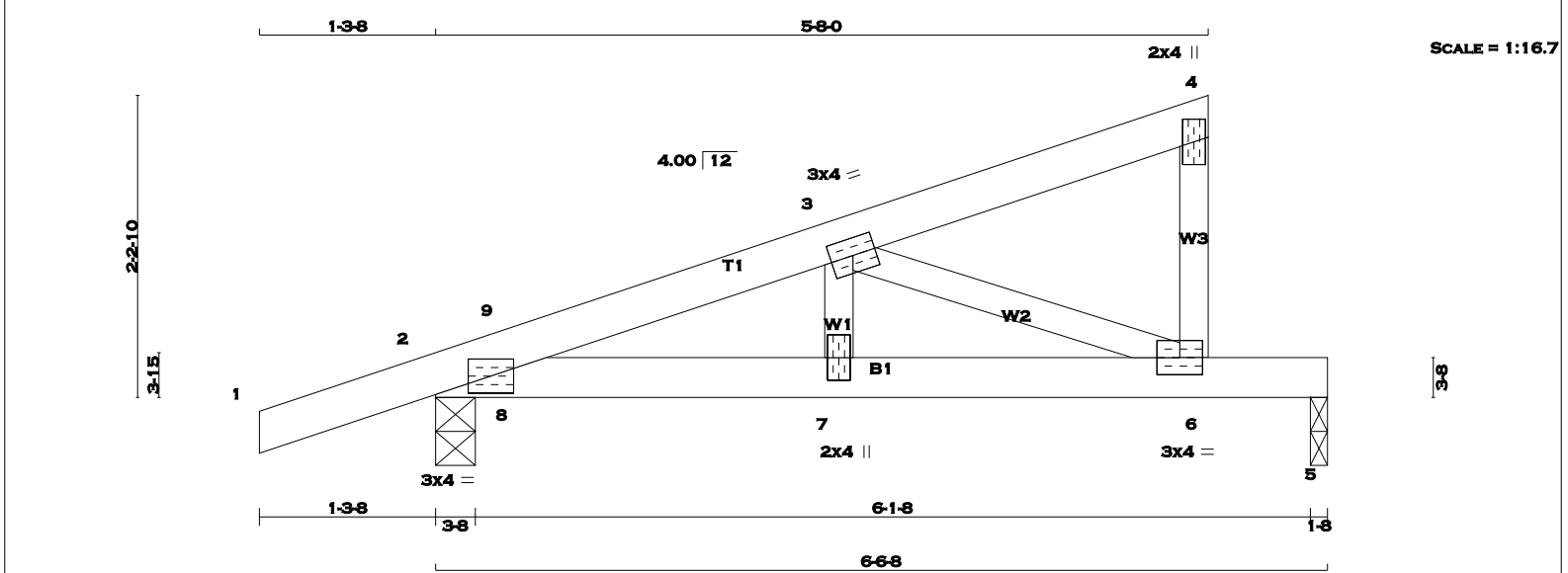
JSI GRIP= 0.12 (2) (INPUT = 0.90)
JSI METAL= 0.04 (2) (INPUT = 1.00)



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LUMBER

N. L. G. A. RULES

CHORDS

SIZE

DRY

No.2

SPF

LUMBER

DESCR.

SPF

ALL WEBS

2x3

DRY

No.2

SPF

DRY: SEASONED LUMBER.

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	UPLIFT	IN-SX
2	409	0	0	3-8
5	247	0	0	1-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX/MIN. SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
2	285	212 / 0	0 / 0	0 / 0	0 / 0	73 / 0	0 / 0
5	175	114 / 0	0 / 0	0 / 0	0 / 0	61 / 0	0 / 0

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

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO		FROM TO			FR-TO		
1-2	0 / 15	-77.3 -77.3	0.10 (1)	10.00	7-3	0 / 178	0.04 (1)
2-9	-607 / 0	-77.3 -77.3	0.01 (1)	6.25	3-6	-606 / 0	0.11 (1)
9-3	-593 / 0	-77.3 -77.3	0.05 (1)	6.25	8-9	-74 / 2	0.00 (1)
3-4	-4 / 0	-77.3 -77.3	0.06 (1)	10.00			
6-4	-91 / 0	0.0 0.0	0.01 (1)	7.81			
2-8	0 / 568	-17.5 -17.5	0.14 (1)	10.00			
8-7	0 / 568	-17.5 -17.5	0.16 (1)	10.00			
7-6	0 / 568	-17.5 -17.5	0.38 (1)	10.00			
6-5	0 / 0	-17.5 -17.5	0.29 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.22")

CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")

ALLOWABLE DEFL.(TL)= L/360 (0.22")

CALCULATED VERT. DEFL.(TL) = L/ 999 (0.06")

CSI: TC=0.10 (1-2:1) , BC=0.38 (6-7:1) , WB=0.11 (3-6:1) , SSI=0.19 (5-6:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (6) (INPUT = 0.90)

JSI METAL= 0.21 (6) (INPUT = 1.00)

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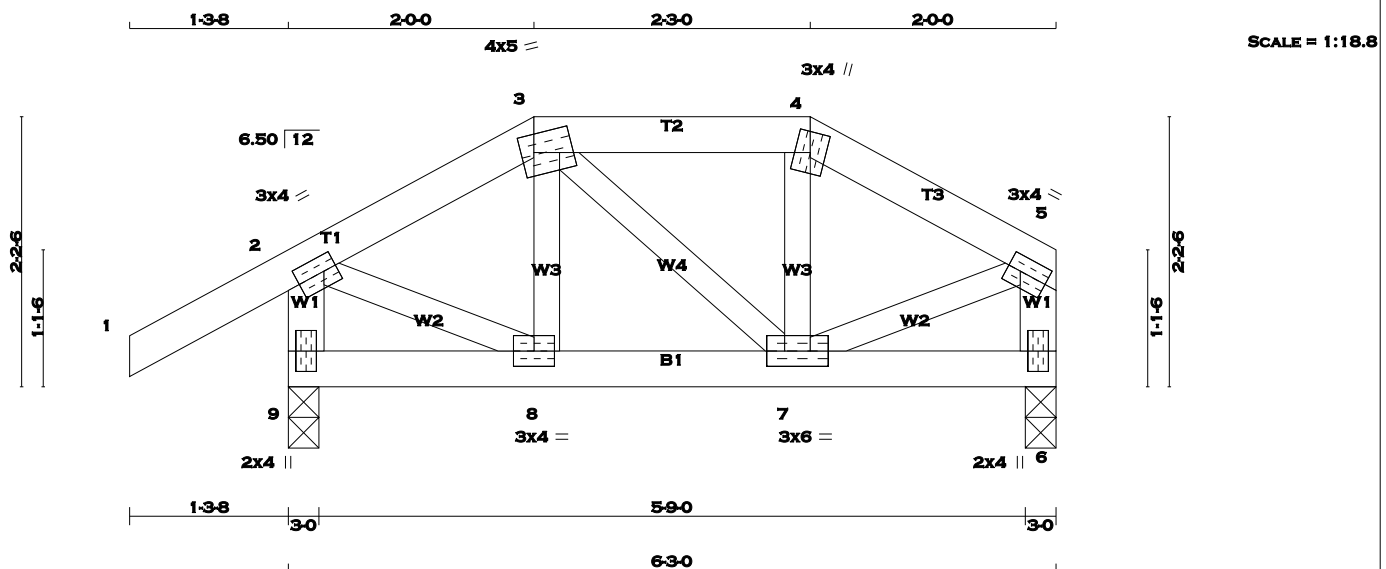
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TOTAL WEIGHT = 2 X 26 = 52 lb

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 4	2x4	DRY	No.2	SPF
4 - 5	2x4	DRY	No.2	SPF
9 - 2	2x4	DRY	No.2	SPF
6 - 5	2x4	DRY	No.2	SPF
9 - 6	2x4	DRY	No.2	SPF

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

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

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
9	402	0	402	0	0	3-0	3-0
6	296	0	296	0	0	3-0	3-0

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
9	280	209 / 0	0 / 0	0 / 0	0 / 0	71 / 0	0 / 0
6	208	146 / 0	0 / 0	0 / 0	0 / 0	63 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 9, 6

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX FACTORED CSI (LC)
FR-TO		FROM TO			FR-TO		
1-2	0 / 25	-77.3	-77.3 0.10 (1)	10.00	8-3	-45 / 18	0.01 (1)
2-3	-248 / 0	-77.3	-77.3 0.04 (1)	6.25	3-7	0 / 0	0.00 (1)
3-4	-215 / 0	-77.3	-77.3 0.05 (1)	6.25	7-4	-45 / 19	0.01 (1)
4-5	-248 / 0	-77.3	-77.3 0.04 (1)	6.25	2-8	0 / 233	0.05 (1)
9-2	-385 / 0	0.0	0.0 0.04 (1)	7.81	7-5	0 / 233	0.05 (1)
6-5	-279 / 0	0.0	0.0 0.03 (1)	7.81			
9-8	0 / 0	-17.5	-17.5 0.02 (4)	10.00			
8-7	0 / 215	-17.5	-17.5 0.04 (1)	10.00			
7-6	0 / 0	-17.5	-17.5 0.02 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.21")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.21")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.00")

CSI: TC=0.10 (1-2:1) , BC=0.04 (7-8:1) , WB=0.05 (2-8:1) , SSI=0.07 (1-2:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES						
PLATE	GRIP(DRY)		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.

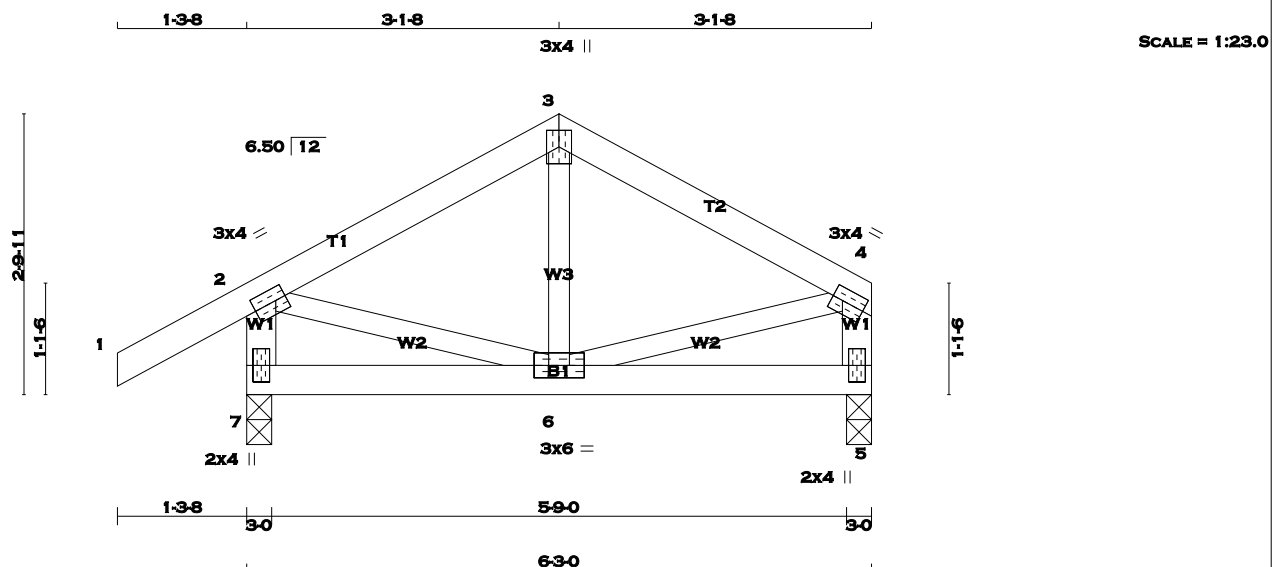
JSI GRIP= 0.59 (2) (INPUT = 0.90)
JSI METAL= 0.13 (2) (INPUT = 1.00)



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IN THE DESIGN OF THIS COMPONENT.**





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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	4.0	1.50	1.25
3	TTW+p	MT20	3.0	4.0		
4	TMVW-t	MT20	3.0	4.0	1.50	1.25
5	BMV1+p	MT20	2.0	4.0		
6	BMVWW-t	MT20	3.0	6.0		
7	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	GROSS REACTION	HORZ	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
7	402	0	402	0	0	3-0	3-0	3-0	3-0
5	296	0	296	0	0	3-0	3-0	3-0	3-0

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	2ND LCASE	MAX/MIN. COMPONENT REACTIONS
7	280	209 / 0	0 / 0	0 / 0
5	208	146 / 0	0 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FORCE (LBS)	FACTORED MAX. LC1 (LC)	UNBRACED LENGTH
FR-TO		FROM TO		FR-TO			
1-2	0 / 25	-77.3 -77.3	0.10 (1)	10.00	6-3	-34 / 43	0.01 (4)
2-3	-218 / 0	-77.3 -77.3	0.10 (1)	6.25	2-6	0 / 198	0.04 (1)
3-4	-218 / 0	-77.3 -77.3	0.10 (1)	6.25	6-4	0 / 198	0.04 (1)
7-2	-379 / 0	0.0 0.0	0.04 (1)	7.81			
5-4	-274 / 0	0.0 0.0	0.03 (1)	7.81			
7-6	0 / 0	-17.5 -17.5	0.05 (4)	10.00			
6-5	0 / 0	-17.5 -17.5	0.05 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.21")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.21")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.00")

CSI: TC=0.10 (1-2:1), BC=0.05 (6-7:4), WB=0.04 (2-6:1), SSI=0.08 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

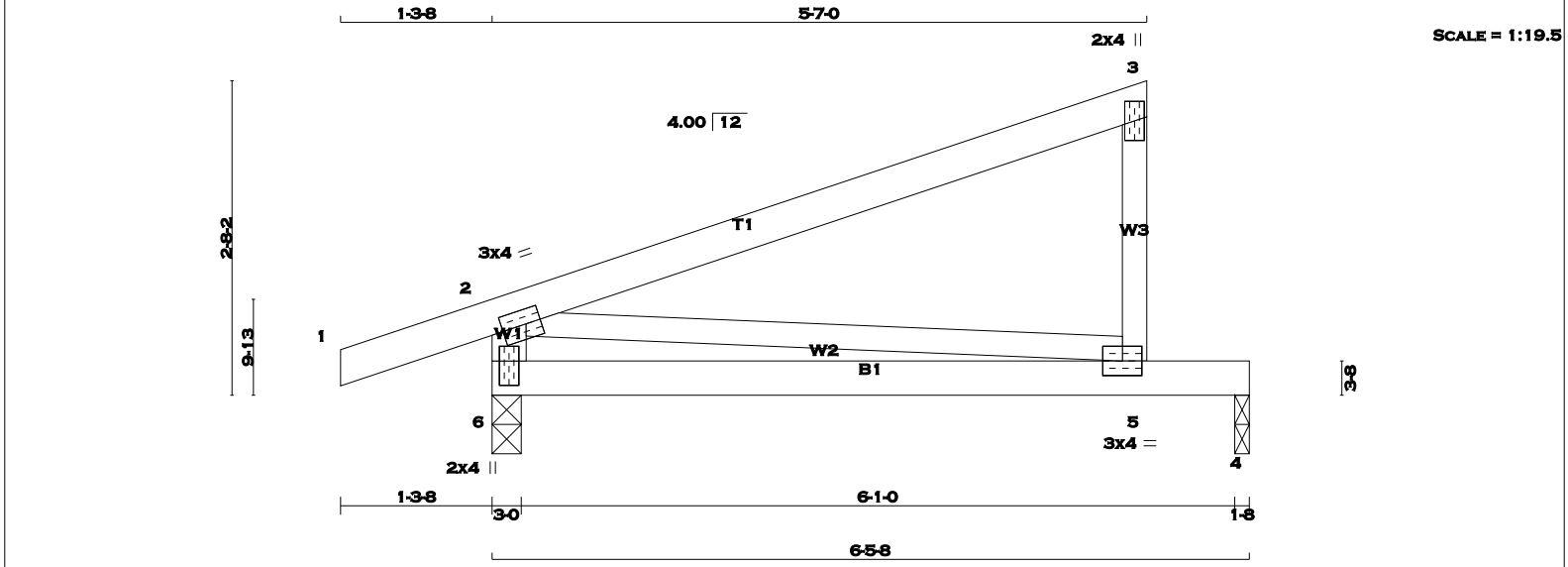
JSI GRIP= 0.49 (2) (INPUT = 0.90)
JSI METAL= 0.12 (4) (INPUT = 1.00)



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LUMBER

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

ALL WEBS

2x3

DRY

No.2

SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	4.0	1.50	1.50
3	TMV+p	MT20	2.0	4.0		
5	BMVW-t	MT20	3.0	4.0		
6	BMV1+p	MT20	2.0	4.0	2.50	1.00

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH

TEE-LOK TL20 PLATES IS ALLOWED.

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
6	405	0	405	0	3-0	3-0
4	243	0	243	0	1-8	1-8

UNFACTORED REACTIONS

JT	COMBINED	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
		SNOW	LIVE	PERM.LIVE	WIND			
6	282	210 / 0	0 / 0	0 / 0	0 / 0	72 / 0	0 / 0	0 / 0
4	172	112 / 0	0 / 0	0 / 0	0 / 0	60 / 0	0 / 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. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FORCE (LBS)	MAX. LC1 (LC)
FR-TO		FROM TO			FR-TO		
1-2	0 / 16	-77.3 -77.3	0.10 (1)	10.00	2-5	0 / 0	0.00 (1)
2-3	0 / 0	-77.3 -77.3	0.41 (1)	10.00			
5-3	-216 / 0	0.0 0.0	0.04 (1)	7.81			
6-2	-319 / 0	0.0 0.0	0.03 (1)	7.81			
6-5	0 / 0	-17.5 -17.5	0.29 (1)	10.00			
5-4	0 / 0	-17.5 -17.5	0.28 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.

LL = 23.3 PSF

DL = 3.0 PSF

BOT CH.

LL = 0.0 PSF

DL = 7.0 PSF

TOTAL LOAD = 33.3 PSF

SPACING = 24.0 IN./C/C

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

THIS DESIGN COMPLIES WITH:

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

- CSA 086-09

- TPIC 2011

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

ALLOWABLE DEFL.(LL)= L/360 (0.22")

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

ALLOWABLE DEFL.(TL)= L/360 (0.22")

CALCULATED VERT. DEFL.(TL) = L/ 444 (0.17")

CSI: TC=0.41 (2-3:1) , BC=0.29 (5-6:1) , WB=0.00 (2-5:1) , SSI=0.19 (4-5:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.29 (2) (INPUT = 0.90)

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



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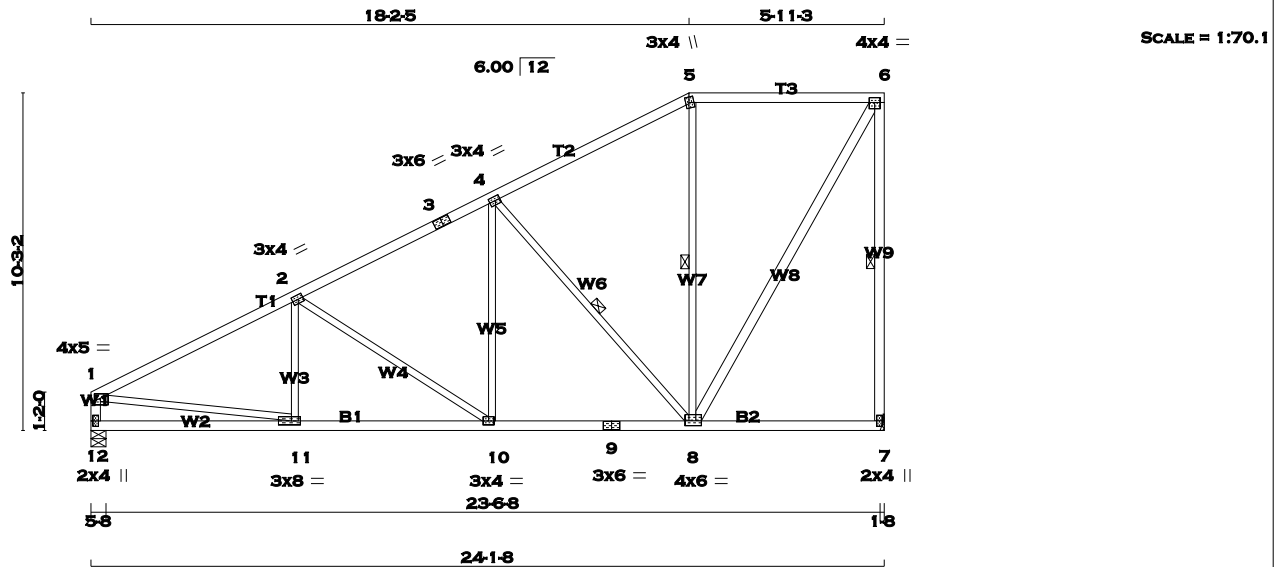
ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE

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IN THE DESIGN OF THIS COMPONENT.





LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
5 - 6	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
12 - 1	2x4	DRY	No.2	SPF
12 - 9	2x4	DRY	No.2	SPF
9 - 7	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
8 - 6	2x4	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	X
1	TMVW-p	MT20	4.0	5.0	1.50 2.25
2	TMVW-t	MT20	3.0	4.0	1.50 1.75
3	TS-t	MT20	3.0	6.0	
4	TMVW-t	MT20	3.0	4.0	1.50 1.75
5	TTW+m	MT20	3.0	4.0	2.00 1.25
6	TMVW-t	MT20	4.0	4.0	1.75 2.00
7	BMV1+p	MT20	2.0	4.0	
8	BMVWV-t	MT20	4.0	6.0	1.75 1.50
9	BS-t	MT20	3.0	6.0	
10	BMVW-t	MT20	3.0	4.0	
11	BMVW-t	MT20	3.0	8.0	1.50 3.25
12	BMV1+p	MT20	2.0	4.0	

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

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

BEARINGS					
FACTORED GROSS REACTION			MAXIMUM FACTORED GROSS REACTION		
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
7	1144	0	1144	0	0
12	1144	0	1144	0	0

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
7	803	562 / 0	0 / 0	0 / 0	0 / 0	241 / 0	0 / 0
12	803	562 / 0	0 / 0	0 / 0	0 / 0	241 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.85 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 6-7. DBS = 12-0-0 . CBF = 83 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-8. DBS = 18-0-0 . CBF = 89 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-8. DBS = 20-0-0 . CBF = 20 LBS.

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

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

LOADING
TOTAL LOAD CASES: (4)

C H O R D S				W E B S			
MEMB.		MAX. FACTORED FORCE (LBS)		MAX. FACTORED VERT. LOAD (PLF)		MAX. FACTORED UNBRAC LENGTH (LC)	
FR-TO				FROM TO		FR-TO	
1-2	-1562 / 0	-77.3	-77.3	0.40 (1)	4.85	11-2	-79 / 77
2-3	-1160 / 0	-77.3	-77.3	0.32 (1)	5.55	2-10	-453 / 0
3-4	-1160 / 0	-77.3	-77.3	0.32 (1)	5.55	10-4	0 / 350
4-5	-595 / 0	-77.3	-77.3	0.33 (1)	6.25	4-8	-795 / 0
5-6	-512 / 0	-77.3	-77.3	0.35 (1)	6.25	8-5	-159 / 33
7-6	-1104 / 0	0.0	0.0	0.57 (1)	6.03	8-6	0 / 1014
12-1	-1098 / 0	0.0	0.0	0.11 (1)	7.55	1-11	0 / 1429
12-11	0 / 0	-17.5	-17.5	0.15 (4)	10.00		
11-10	0 / 1415	-17.5	-17.5	0.30 (1)	10.00		
10-9	0 / 1037	-17.5	-17.5	0.25 (1)	10.00		
9-8	0 / 1037	-17.5	-17.5	0.25 (1)	10.00		
8-7	0 / 0	-17.5	-17.5	0.15 (4)	10.00		

DESIGN CRITERIA

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

SPACING = 24.0 IN./C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.80")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.80")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11")

CSI: TC=0.57 (6-7:1) , BC=0.30 (10-11:1) , WB=0.48 (4-8:1) , SSI=0.20 (1-2:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) 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 (6) (INPUT = 0.90)
JSI METAL= 0.39 (1) (INPUT = 1.00)

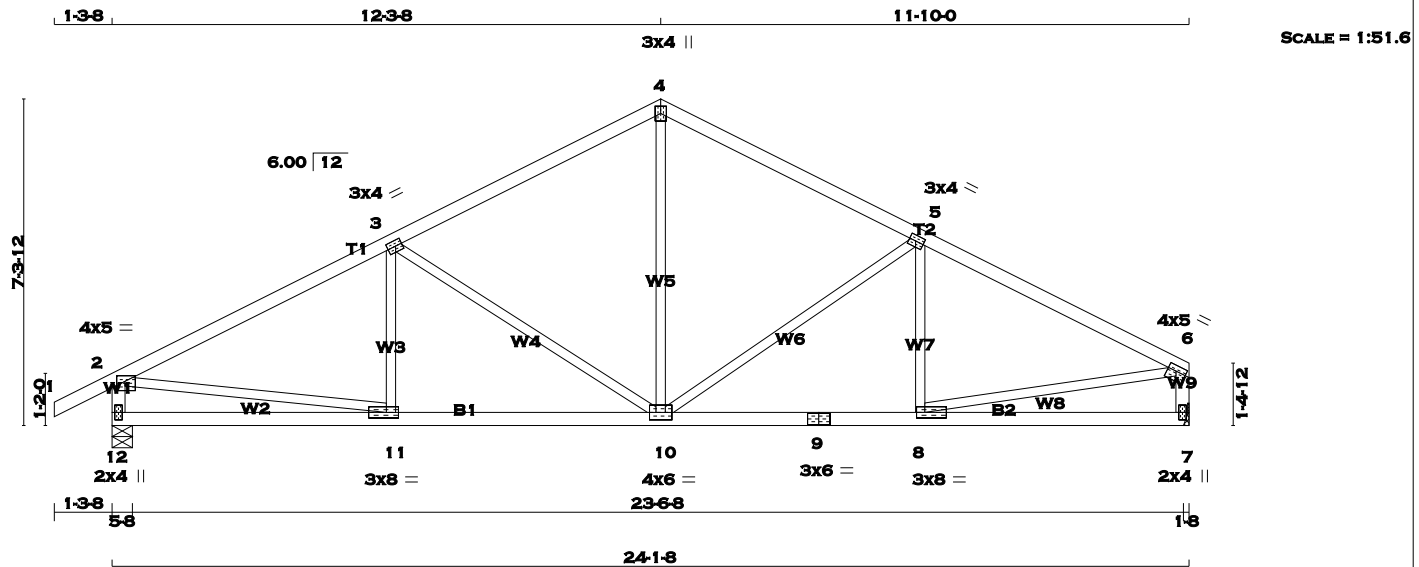


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LUMBER

N. L. G. A. RULES

CHORDS SIZE

LUMBER

DESCR.

1 - 4

2x4

DRY

No.2

SPF

4 - 6

2x4

DRY

No.2

SPF

12 - 2

2x4

DRY

No.2

SPF

7 - 6

2x4

DRY

No.2

SPF

12 - 9

2x4

DRY

No.2

SPF

9 - 7

2x4

DRY

No.2

SPF

ALL WEBS

2x3

DRY

No.2

SPF

EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-p	MT20	4.0	5.0	1.50	2.25
3	TMVW-t	MT20	3.0	4.0	1.50	1.75
4	TTW+p	MT20	3.0	4.0		
5	TMVW-t	MT20	3.0	4.0	1.50	1.75
6	TMVW-t	MT20	4.0	5.0	1.50	2.25
7	BMV1+p	MT20	2.0	4.0		
8	BMVW-t	MT20	3.0	8.0	1.50	2.25
9	BS-t	MT20	3.0	6.0		
10	BMVWV-t	MT20	4.0	6.0		
11	BMVW-t	MT20	3.0	8.0	1.50	3.25
12	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS

	FACTORED		MAXIMUM FACTORED		INPUT	REQRD
	GROSS REACTION	GROSS REACTION	BRG	BRG		
JT	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX
12	1249	0	1249	0	0	5-8
7	1144	0	1144	0	0	5-8

HANGER BY OTHERS

MIN. SEAT SIZE: 1-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
12	874	625 / 0	0 / 0	0 / 0	0 / 0	249 / 0	0 / 0
7	803	562 / 0	0 / 0	0 / 0	0 / 0	241 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.79 FT.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS				
MEMB.	MAX. FACTORED	FACTORED		MEMB.	MAX. FACTORED			
	FORCE	VERT. LOAD	MAX		FORCE	MAX		
	(LBS)	(PLF)	CSI (LC)		(LBS)	CSI (LC)		
FR-TO		FROM TO		LENGTH	FR-TO			
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00	11- 3	-79 / 79	0.03 (4)
2- 3	-1575 / 0	-77.3	-77.3	0.43 (1)	4.79	3-10	-526 / 0	0.54 (1)
3- 4	-1135 / 0	-77.3	-77.3	0.39 (1)	5.47	10- 4	0 / 647	0.15 (1)
4- 5	-1134 / 0	-77.3	-77.3	0.36 (1)	5.52	10- 5	-441 / 0	0.43 (1)
5- 6	-1488 / 0	-77.3	-77.3	0.39 (1)	4.95	8- 5	-132 / 59	0.04 (1)
12- 2	-1203 / 0	0.0	0.0	0.12 (1)	7.29	2-11	0 / 1445	0.33 (1)
7- 6	-1100 / 0	0.0	0.0	0.11 (1)	7.55	8- 6	0 / 1374	0.31 (1)
12-11	0 / 0	-17.5	-17.5	0.16 (4)	10.00			
11-10	0 / 1431	-17.5	-17.5	0.30 (1)	10.00			
10- 9	0 / 1352	-17.5	-17.5	0.28 (1)	10.00			
9- 8	0 / 1352	-17.5	-17.5	0.28 (1)	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

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

THIS DESIGN COMPLIES WITH:

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

- CSA 086-09

- TPIC 2011

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

ALLOWABLE DEFL.(LL)= L/360 (0.80")

CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")

ALLOWABLE DEFL.(TL)= L/360 (0.80")

CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11")

CSI: TC=0.43 (2-3:1) , BC=0.30 (10-11:1) , WB=0.54 (3-10:1) , SSI=0.21 (2-3:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (8) (INPUT = 0.90)

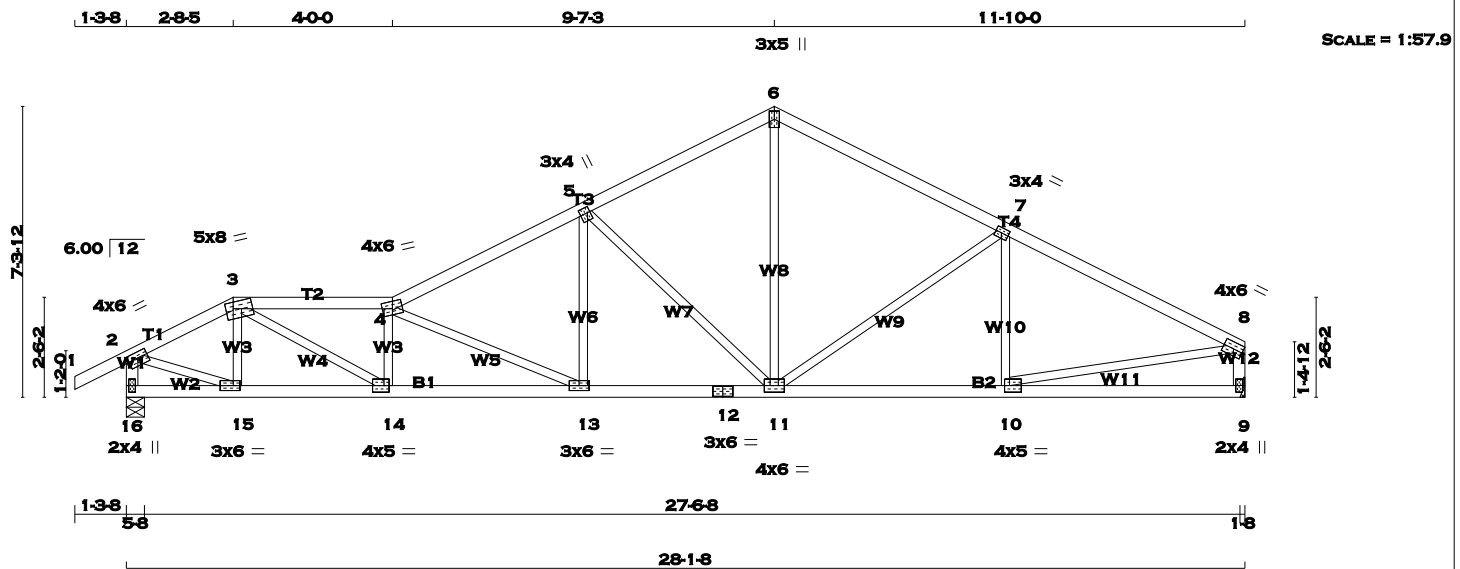
JSI METAL= 0.48 (6) (INPUT = 1.00)



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CONTAINS SPECIFICATIONS AND CRITERIA USED
IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 111 lb

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 8	2x4	DRY	No.2	SPF
16 - 2	2x4	DRY	No.2	SPF
9 - 8	2x4	DRY	No.2	SPF
16 - 12	2x4	DRY	No.2	SPF
12 - 9	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)		PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	6.0	1.75	3.00
3	TTWW-m	MT20	5.0	8.0	2.00	2.25
4	TTWW-m	MT20	4.0	6.0	2.25	3.00
5	TMWWW-t	MT20	3.0	4.0	1.75	0.75
6	TTW+p	MT20	3.0	5.0		
7	TMWW-t	MT20	3.0	4.0	1.50	1.75
8	TMVW-t	MT20	4.0	6.0		Edge
9	BMV1+p	MT20	2.0	4.0		
10	BMWW-t	MT20	4.0	5.0	2.00	1.50
11	BMWWWW-t	MT20	4.0	6.0		
12	BS-t	MT20	3.0	6.0		
13	BMWW-t	MT20	3.0	6.0		
14	BMWW-t	MT20	4.0	5.0	2.00	1.50
15	BMWW-t	MT20	3.0	6.0	1.50	2.00
16	BMV1+p	MT20	2.0	4.0		

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

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

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER			BEARINGS			
FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG	
VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
JT 16	1439	0	1439	0	0	5-8
9	1334	0	1334	0	0	5-8
					HANGER BY OTHERS	
					MIN. SEAT SIZE: 1-8	

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
16	1007	718 / 0	0 / 0	0 / 0	0 / 0	289 / 0	0 / 0
9	936	655 / 0	0 / 0	0 / 0	0 / 0	281 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.81 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY
APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LOAD CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM	TO		FR-TO		
1-2	0/23	-77.3	-77.3 0.10 (1)	10.00	15-3	-380/0	0.06 (1)
2-3	-1678/0	-77.3	-77.3 0.10 (1)	5.05	3-14	0/1773	0.40 (1)
3-4	-3024/0	-77.3	-77.3 0.27 (1)	3.81	14-4	-825/0	0.13 (1)
4-5	-2239/0	-77.3	-77.3 0.29 (1)	4.32	4-13	-1146/0	0.55 (1)
5-6	-1485/0	-77.3	-77.3 0.25 (1)	5.13	13-5	0/574	0.13 (1)
6-7	-1491/0	-77.3	-77.3 0.38 (1)	4.96	5-11	-984/0	0.80 (1)
7-8	-1799/0	-77.3	-77.3 0.41 (1)	4.58	11-6	0/999	0.22 (1)
16-2	-1424/0	0.0	0.0 0.14 (1)	6.84	11-7	-390/0	0.38 (1)
9-8	-1289/0	0.0	0.0 0.13 (1)	7.10	10-7	-181/46	0.05 (1)
					2-15	0/1568	0.35 (1)
16-15	0/0	-17.5	-17.5 0.04 (4)	10.00	10-8	0/1657	0.37 (1)
15-14	0/1481	-17.5	-17.5 0.29 (1)	10.00			
14-13	0/3062	-17.5	-17.5 0.56 (1)	10.00			
13-12	0/2021	-17.5	-17.5 0.38 (1)	10.00			
12-11	0/2021	-17.5	-17.5 0.38 (1)	10.00			
11-10	0/1630	-17.5	-17.5 0.33 (1)	10.00			
10-9	0/0	-17.5	-17.5 0.15 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

LOADING IN ALL FLAT SECTIONS BASED ON A
SLOPE OF 6.00/12

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.94")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.15")
ALLOWABLE DEFL.(TL)= L/360 (0.94")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.26")

CSI: TC=0.41 (7-8:1), BC=0.56 (13-14:1),
WB=0.80 (5-11:1), SSI=0.20 (7-8:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES						
PLATE	GRIP(DRY)		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.

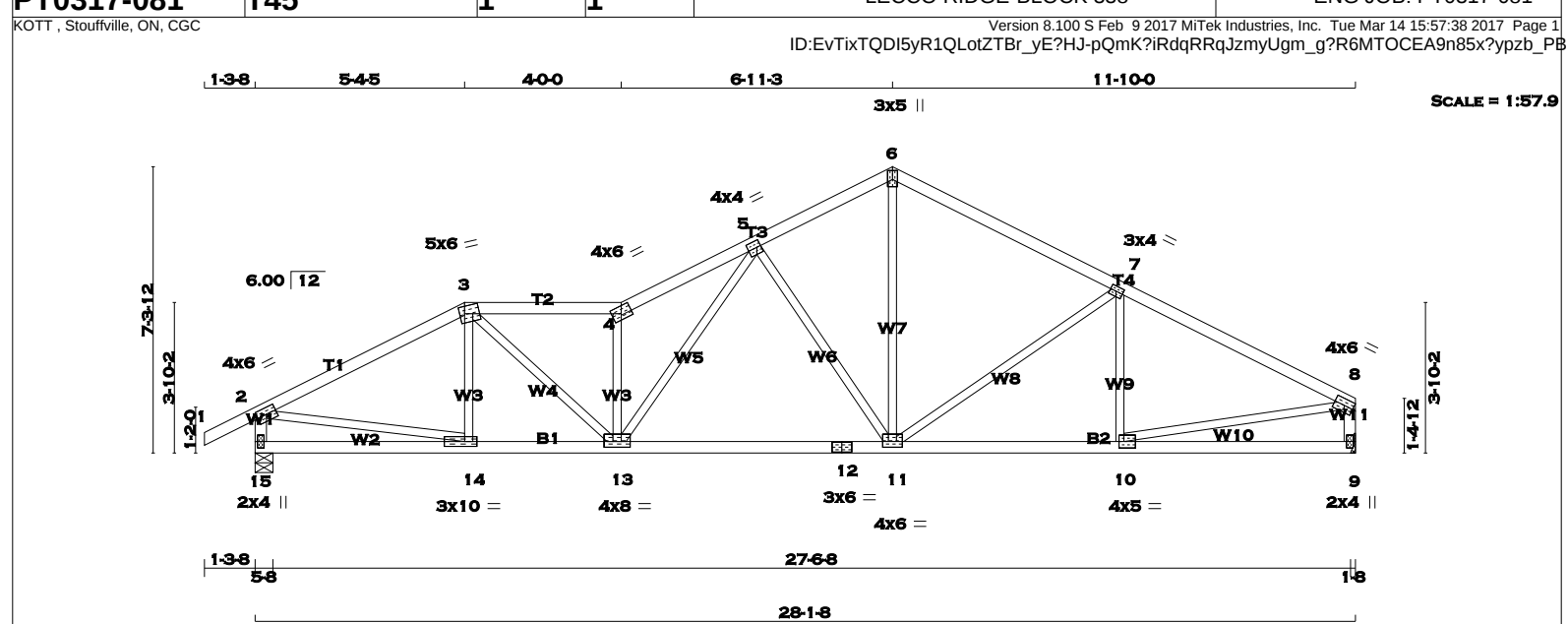
JSI GRIP= 0.90 (10) (INPUT = 0.90)
JSI METAL= 0.50 (12) (INPUT = 1.00)



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LUMBER
N. L. G. A. RULES
CHORDS SIZE LUMBER DESCR.
1 - 3 2x4 DRY No.2 SPF
3 - 4 2x4 DRY No.2 SPF
4 - 6 2x4 DRY No.2 SPF
6 - 8 2x4 DRY No.2 SPF
15 - 2 2x4 DRY No.2 SPF
9 - 8 2x4 DRY No.2 SPF
15 - 12 2x4 DRY No.2 SPF
12 - 9 2x4 DRY No.2 SPF

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

N. L. G. A. RULES						BUILDING DESIGNER										DESIGN CRITERIA			
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						
4 - 6	2x4	DRY	No.2	SPF	JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	DL = 3.0 PSF						
6 - 8	2x4	DRY	No.2	SPF	15	1439	0	1439	0	0	5-8	5-8	BOT CH. LL = 0.0 PSF						
15 - 2	2x4	DRY	No.2	SPF	9	1334	0	1334	0	0	HANGER BY OTHERS				DL = 7.0 PSF				
9 - 8	2x4	DRY	No.2	SPF											TOTAL LOAD = 33.3 PSF				
15 - 12	2x4	DRY	No.2	SPF											SPACING = 24.0 IN. C/C				
12 - 9	2x4	DRY	No.2	SPF															

UNFACTORED REACTIONS									
		1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
15		1007	718 / 0	0 / 0	0 / 0	0 / 0	289 / 0	0 / 0	
9		936	655 / 0	0 / 0	0 / 0	0 / 0	281 / 0	0 / 0	

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.11 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS									
		MAX. FACTORED		FACTORED		MAX. FACTORED		MAX. FACTORED	
MEMB.		FORCE (LBS)	VERT. LOAD (PLF)	LC1 (LC)	MAX. UNBRACED	MEMB.	FORCE (LBS)	MAX. UNBRACED	MAX. FACTORED
FR-TO			FROM	TO	LENGTH	FR-TO			
1-2		0 / 23	-77.3	-77.3	0.10 (1)	10.00	14-3	-169 / 19	0.04 (1)
2-3		-1843 / 0	-77.3	-77.3	0.34 (1)	4.61	3-13	0 / 940	0.21 (1)
3-4		-2337 / 0	-77.3	-77.3	0.22 (1)	4.30	13-4	-1441 / 0	0.33 (1)
4-5		-2644 / 0	-77.3	-77.3	0.20 (1)	4.11	13-5	0 / 1077	0.24 (1)
5-6		-1486 / 0	-77.3	-77.3	0.14 (1)	5.25	5-11	-836 / 0	0.59 (1)
6-7		-1496 / 0	-77.3	-77.3	0.38 (1)	4.95	11-6	0 / 1044	0.23 (1)
7-8		-1797 / 0	-77.3	-77.3	0.41 (1)	4.58	11-7	-382 / 0	0.37 (1)
15-2		-1397 / 0	0.0	0.0	0.14 (1)	6.89	10-7	-190 / 38	0.05 (1)
9-8		-1288 / 0	0.0	0.0	0.13 (1)	7.11	2-14	0 / 1667	0.38 (1)
							10-8	0 / 1654	0.37 (1)
15-14		0 / 0	-17.5	-17.5	0.11 (4)	10.00			
14-13		0 / 1642	-17.5	-17.5	0.31 (1)	10.00			
13-12		0 / 1775	-17.5	-17.5	0.39 (1)	10.00			
12-11		0 / 1775	-17.5	-17.5	0.39 (1)	10.00			
11-10		0 / 1628	-17.5	-17.5	0.36 (1)	10.00			
10-9		0 / 0	-17.5	-17.5	0.13 (4)	10.00			

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

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

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

SPACING = 24.0 IN./C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.94")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.12")
ALLOWABLE DEFL.(TL)= L/360 (0.94")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.25")

CSI: TC=0.41 (7-8:1), BC=0.39 (11-13:1), WB=0.59 (5-11:1), SSI=0.20 (7-8:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

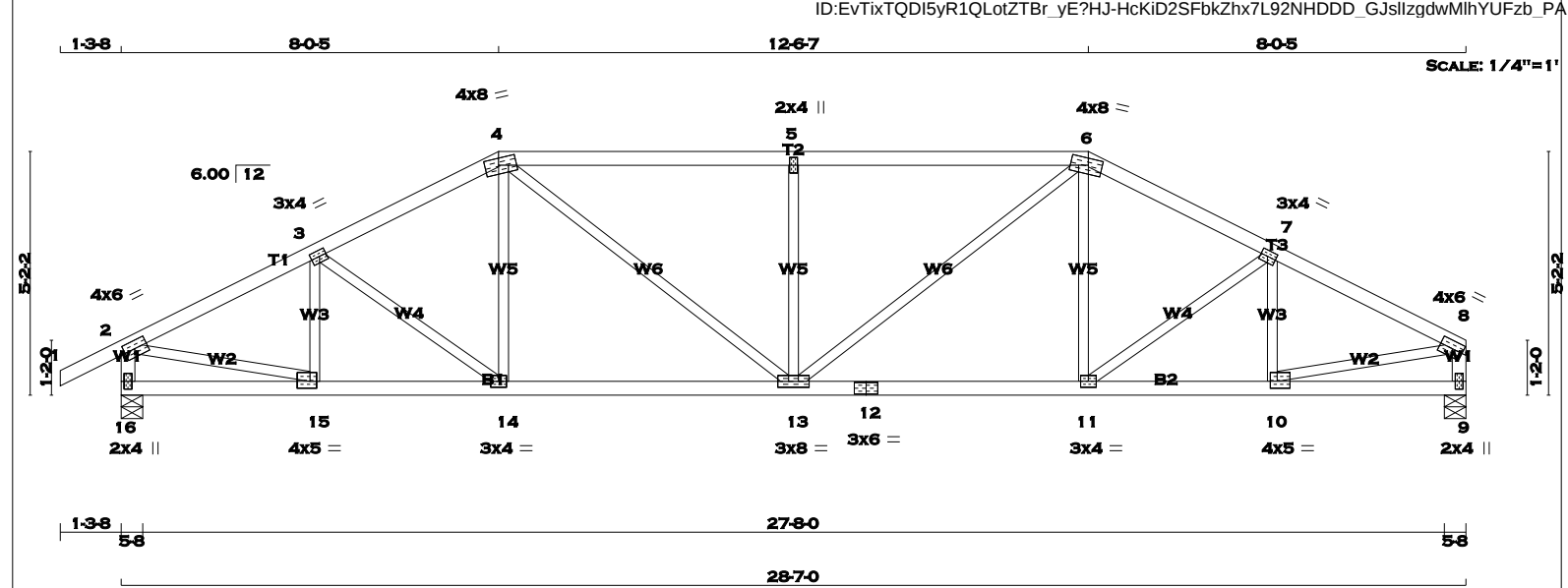
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (10) (INPUT = 0.90)
JSI METAL= 0.52 (4) (INPUT = 1.00)

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LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR.			DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS			DESIGN CRITERIA		
1 - 4	2x4	DRY	No.2	SPF		SPECIFIED LOADS:		
4 - 6	2x4	DRY	No.2	SPF		TOP CH. LL = 23.3 PSF		
6 - 8	2x4	DRY	No.2	SPF		DL = 3.0 PSF		
16 - 2	2x4	DRY	No.2	SPF		BOT CH. LL = 0.0 PSF		
9 - 8	2x4	DRY	No.2	SPF		DL = 7.0 PSF		
16 - 12	2x4	DRY	No.2	SPF		TOTAL LOAD = 33.3 PSF		
12 - 9	2x4	DRY	No.2	SPF		SPACING = 24.0 IN. C/C		
ALL WEBS	2x3	DRY	No.2	SPF		LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12		
EXCEPT						THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010		
DRY: SEASONED LUMBER.						THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012, BCBC 2012, ABC 2014 - CSA 086-09 - TPIC 2011		
PLATES (table is in inches)			UNFACTORED REACTIONS			(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD		
JT	TYPE	PLATES	W	LEN	Y	X	1ST LCASE	
2	TMVW-t	MT20	4.0	6.0	2.00	2.75	JT	COMBINED
4	TMVW-t	MT20	3.0	4.0	1.50	1.75	16	1023
4	TTWW-m	MT20	4.0	8.0	1.75	3.50	9	951
5	TMVW-w	MT20	2.0	4.0				
6	TTWW-m	MT20	4.0	8.0	1.75	3.50		
7	TMVW-t	MT20	3.0	4.0	1.50	1.75		
8	TMVW-t	MT20	4.0	6.0	2.00	2.75		
9	BMV1+p	MT20	2.0	4.0				
10	BMVW-t	MT20	4.0	5.0	1.75	1.75		
11	BMVW-t	MT20	3.0	4.0				
12	BS-t	MT20	3.0	6.0				
13	BMVWVW-t	MT20	3.0	8.0				
14	BMVW-t	MT20	3.0	4.0				
15	BMVW-t	MT20	4.0	5.0	1.75	1.75		
16	BMV1+p	MT20	2.0	4.0				
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.			BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 16, 9			ALLOWABLE DEFL.(LL)= L/360 (0.95")		
			BRACING			CALCULATED VERT. DEFL.(LL) = L/ 999 (0.10")		
			TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.25 FT.			ALLOWABLE DEFL.(TL)= L/360 (0.95")		
			MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.			CALCULATED VERT. DEFL.(TL) = L/ 999 (0.18")		
			ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.			CSI: TC=0.46 (4-5:1), BC=0.33 (14-15:1), WB=0.39 (8-10:1), SSI=0.23 (4-5:1)		
			LOADING			DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10		
			TOTAL LOAD CASES: (4)			COMPANION LIVE LOAD FACTOR = 0.50		
			CHORDS			TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .		
			MEMB. MAX. FACTORED FORCE (LBS)			NAIL VALUES		
			VERT. LOAD LC1 MAX (PLF)			PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)		
			CSI (LC)			MAX MIN MAX MIN MAX MIN		
			UNBRAC			MT20 618 354 1667 822 2284 1656		
			LENGTH FR-TO			PLATE PLACEMENT TOL. = 0.250 inches		
			FR-TO			PLATE ROTATION TOL. = 5.0 Deg.		
			1-2			JSI GRIP= 0.89 (2) (INPUT = 0.90)		
			2-3			JSI METAL= 0.50 (15) (INPUT = 1.00)		
			3-4					
			4-5					
			5-6					
			6-7					
			7-8					
			16-2					
			9-8					
			16-15					
			15-14					
			14-13					
			13-12					
			12-11					
			11-10					
			10-9					



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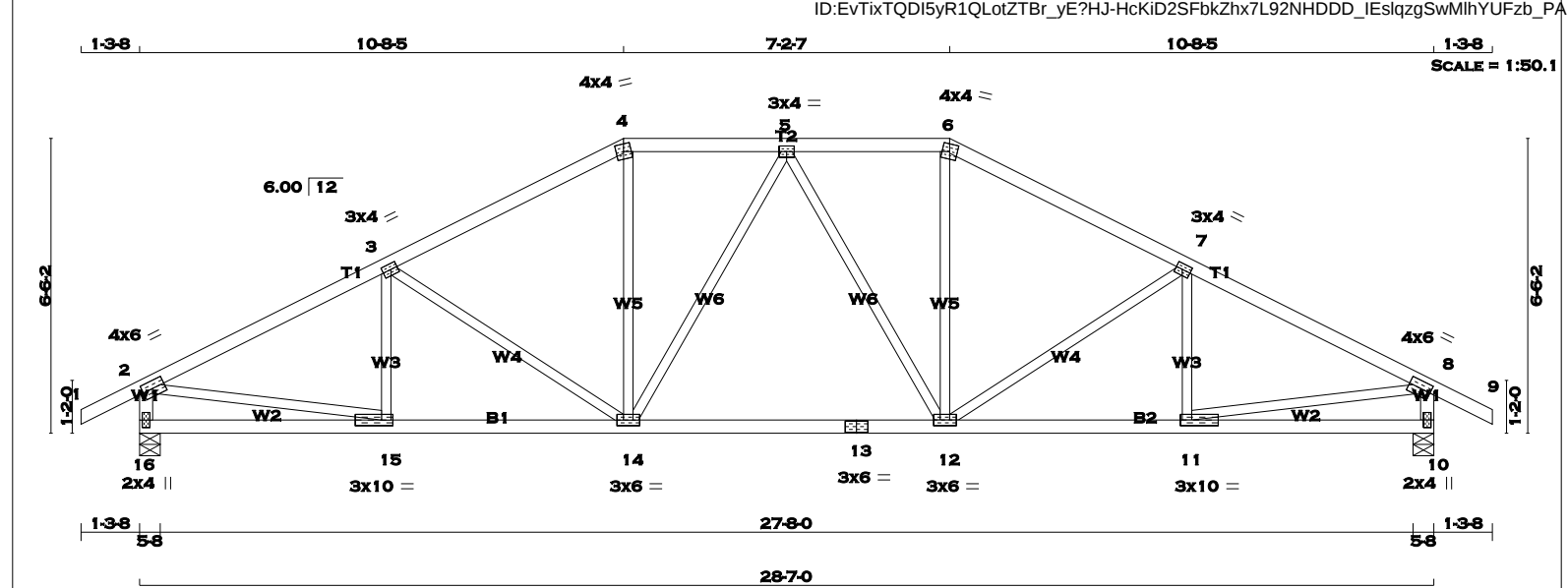
ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE

IS AN INTEGRAL PART OF THIS DRAWING AS IT

CONTAINS SPECIFICATIONS AND CRITERIA USED

IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 118 lb
[M][F]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 9	2x4	DRY	No.2	SPF
16 - 2	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF
16 - 13	2x4	DRY	No.2	SPF
13 - 10	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMVW-t	MT20	4.0	6.0	2.00 2.75
3	TMVW-t	MT20	3.0	4.0	1.50 1.75
4	TTW-m	MT20	4.0	4.0	
5	TMVW-t	MT20	3.0	4.0	
6	TTW-m	MT20	4.0	4.0	
7	TMVW-t	MT20	3.0	4.0	1.50 1.75
8	TMVW-t	MT20	4.0	6.0	2.00 2.75
10	BMV1+p	MT20	2.0	4.0	
11	BMVW-t	MT20	3.0	10.0	1.50 3.00
12	BMVW-t	MT20	3.0	6.0	
13	BS-t	MT20	3.0	6.0	
14	BMVW-t	MT20	3.0	6.0	
15	BMVW-t	MT20	3.0	10.0	1.50 3.00
16	BMV1+p	MT20	2.0	4.0	
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.					



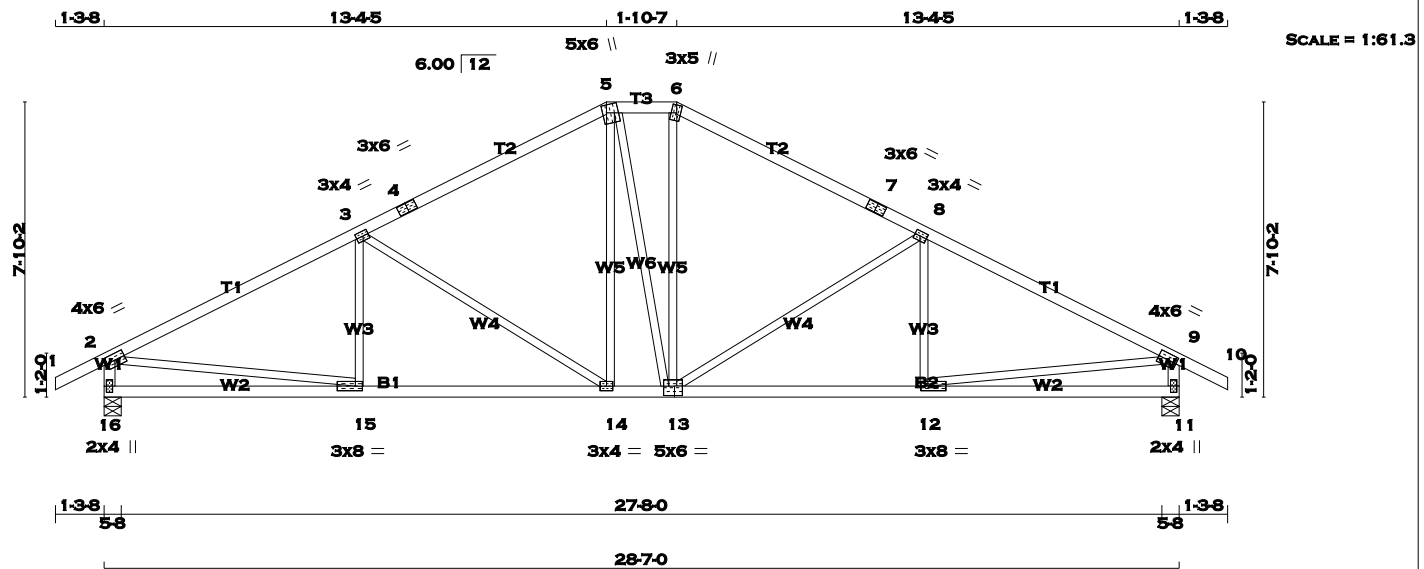
DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG		
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
16	1460	0	1460	0	0	5-8	5-8		
10	1460	0	1460	0	0	5-8	5-8		
UNFACTORED REACTIONS									
1ST LCASE MAX./MIN. COMPONENT REACTIONS									
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
16	1023	729 / 0	0 / 0	0 / 0	0 / 0	294 / 0	0 / 0		
10	1023	729 / 0	0 / 0	0 / 0	0 / 0	294 / 0	0 / 0		
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 16, 10									
BRACING									
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.53 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									
MEMB.	MAX. FACTORED FORCE (LBS)		FACTORED VERT. LOAD (PLF)		MAX. LC1 MAX (LC)		WEBS		
							MEMB.	MAX. FACTORED FORCE (LBS)	MAX (LC)
FR-TO			FROM TO		LENGTH		FR-TO		
1-2	0 / 23		-77.3	-77.3	0.10 (1)	10.00	15-3	-182 / 30	0.04 (1)
2-3	-1933 / 0		-77.3	-77.3	0.34 (1)	4.53	3-14	-339 / 0	0.25 (1)
3-4	-1662 / 0		-77.3	-77.3	0.31 (1)	4.83	14-4	0 / 469	0.11 (1)
4-5	-1474 / 0		-77.3	-77.3	0.14 (1)	5.27	14-5	-191 / 0	0.19 (1)
5-6	-1474 / 0		-77.3	-77.3	0.14 (1)	5.27	5-12	-191 / 0	0.19 (1)
6-7	-1662 / 0		-77.3	-77.3	0.31 (1)	4.83	12-6	0 / 469	0.11 (1)
7-8	-1933 / 0		-77.3	-77.3	0.34 (1)	4.53	12-7	-339 / 0	0.25 (1)
8-9	0 / 23		-77.3	-77.3	0.10 (1)	10.00	11-7	-182 / 30	0.04 (1)
16-2	-1418 / 0		0.0	0.0	0.14 (1)	6.85	2-15	0 / 1769	0.40 (1)
10-8	-1418 / 0		0.0	0.0	0.14 (1)	6.85	11-8	0 / 1769	0.40 (1)
16-15	0 / 0		-17.5	-17.5	0.11 (4)	10.00			
15-14	0 / 1748		-17.5	-17.5	0.36 (1)	10.00			
14-13	0 / 1567		-17.5	-17.5	0.33 (1)	10.00			
13-12	0 / 1567		-17.5	-17.5	0.33 (1)	10.00			
12-11	0 / 1748		-17.5	-17.5	0.36 (1)	10.00			
11-10	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									
LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12									
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010									
THIS DESIGN COMPLIES WITH:									
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014									
- CSA 086-09									
- TPIC 2011									
(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD									
ALLOWABLE DEFL.(LL)= L/360 (0.95")									
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.08")									
ALLOWABLE DEFL.(TL)= L/360 (0.95")									
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.17")									
CSI: TC=0.34 (2-3:1), BC=0.36 (14-15:1), WB=0.40 (2-15:1), SSI=0.18 (2-3:1)									
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10									
COMP=1.10 SHEAR=1.10 TENS=1.10									
COMPANION LIVE LOAD FACTOR = 0.50									
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .									
NAIL VALUES									
PLATE	GRIP(DRY)	SHEAR	SECTION						
	(PSI)	(PLI)	(PLI)						
	MAX MIN	MAX MIN	MAX MIN						
MT20	618 354	1667 822	2284 1656						
PLATE PLACEMENT TOL. = 0.250 inches									
PLATE ROTATION TOL. = 5.0 Deg.									
JSI GRIP= 0.90 (11) (INPUT = 0.90)									
JSI METAL= 0.52 (8) (INPUT = 1.00)									

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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.	CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF			
4 - 5	2x4	DRY	No.2	SPF			
5 - 6	2x4	DRY	No.2	SPF			
6 - 7	2x4	DRY	No.2	SPF			
7 - 10	2x4	DRY	No.2	SPF			
16 - 2	2x4	DRY	No.2	SPF			
11 - 9	2x4	DRY	No.2	SPF			
16 - 13	2x4	DRY	No.2	SPF			
13 - 11	2x4	DRY	No.2	SPF			
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF			
DRY: SEASONED LUMBER.							

PLATES (table is in inches)							
JT	TYPE	PLATES	W	LEN	Y	X	
2	TMVW-t	MT20	4.0	6.0	2.00	2.75	
3	TMWW-t	MT20	3.0	4.0	1.50	1.75	
4	TS-t	MT20	3.0	6.0			
5	TTWW+m	MT20	5.0	6.0	2.50	1.25	
6	TTW+m	MT20	3.0	5.0	2.50	1.25	
7	TS-t	MT20	3.0	6.0			
8	TMWW-t	MT20	3.0	4.0	1.50	1.75	
9	TMVW-t	MT20	4.0	6.0	2.00	2.75	
11	BMV1+p	MT20	2.0	4.0			
12	BMWW-t	MT20	3.0	8.0	1.50	2.25	
13	BSWWW-t	MT20	5.0	6.0	3.00	2.50	
14	BMWW-t	MT20	3.0	4.0			
15	BMWW-t	MT20	3.0	8.0	1.50	2.25	
16	BMV1+p	MT20	2.0	4.0			

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



DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
16		1460	0	1460	0	0	5-8	5-8	
11		1460	0	1460	0	0	5-8	5-8	
UNFACTORED REACTIONS									
		1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
16		1023	729 / 0	0 / 0	0 / 0	0 / 0	294 / 0	0 / 0	
11		1023	729 / 0	0 / 0	0 / 0	0 / 0	294 / 0	0 / 0	
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 16, 11									

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.26 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING									
TOTAL LOAD CASES: (4)									
CHORDS					WEBS				
MEMB.		MAX. FACTORED FORCE (LBS)		FACTORED VERT. LOAD LC1 (PLF)		MAX. UNBRACED LENGTH FR-TO		MEMB. MAX. FACTORED FORCE (LBS)	
				FROM TO					
1-2		0 / 23		-77.3	-77.3 0.10 (1)	10.00	15-3	-90 / 88	0.03 (4)
2-3		-1945 / 0		-77.3	-77.3 0.55 (1)	4.26	3-14	-576 / 0	0.75 (1)
3-4		-1458 / 0		-77.3	-77.3 0.49 (1)	4.84	14-5	0 / 368	0.08 (1)
4-5		-1458 / 0		-77.3	-77.3 0.49 (1)	4.84	5-13	0 / 9	0.00 (1)
5-6		-1285 / 0		-77.3	-77.3 0.05 (1)	5.65	13-6	0 / 378	0.09 (1)
6-7		-1460 / 0		-77.3	-77.3 0.49 (1)	4.83	13-8	-573 / 0	0.75 (1)
7-8		-1460 / 0		-77.3	-77.3 0.49 (1)	4.83	12-8	-93 / 87	0.03 (4)
8-9		-1944 / 0		-77.3	-77.3 0.55 (1)	4.26	2-15	0 / 1778	0.40 (1)
9-10		0 / 23		-77.3	-77.3 0.10 (1)	10.00	12-9	0 / 1778	0.40 (1)
16-2		-1411 / 0		0.0	0.0 0.14 (1)	6.86			
11-9		-1411 / 0		0.0	0.0 0.14 (1)	6.87			
16-15		0 / 0		-17.5	-17.5 0.20 (4)	10.00			
15-14		0 / 1764		-17.5	-17.5 0.38 (1)	10.00			
14-13		0 / 1283		-17.5	-17.5 0.28 (1)	10.00			
13-12		0 / 1763		-17.5	-17.5 0.37 (1)	10.00			
12-11		0 / 0		-17.5	-17.5 0.19 (4)	10.00			

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.95")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.09")
ALLOWABLE DEFL.(TL)= L/360 (0.95")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.17")

CSI: TC=0.55 (2-3:1), BC=0.38 (14-15:1), WB=0.75 (3-14:1), SSI=0.23 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

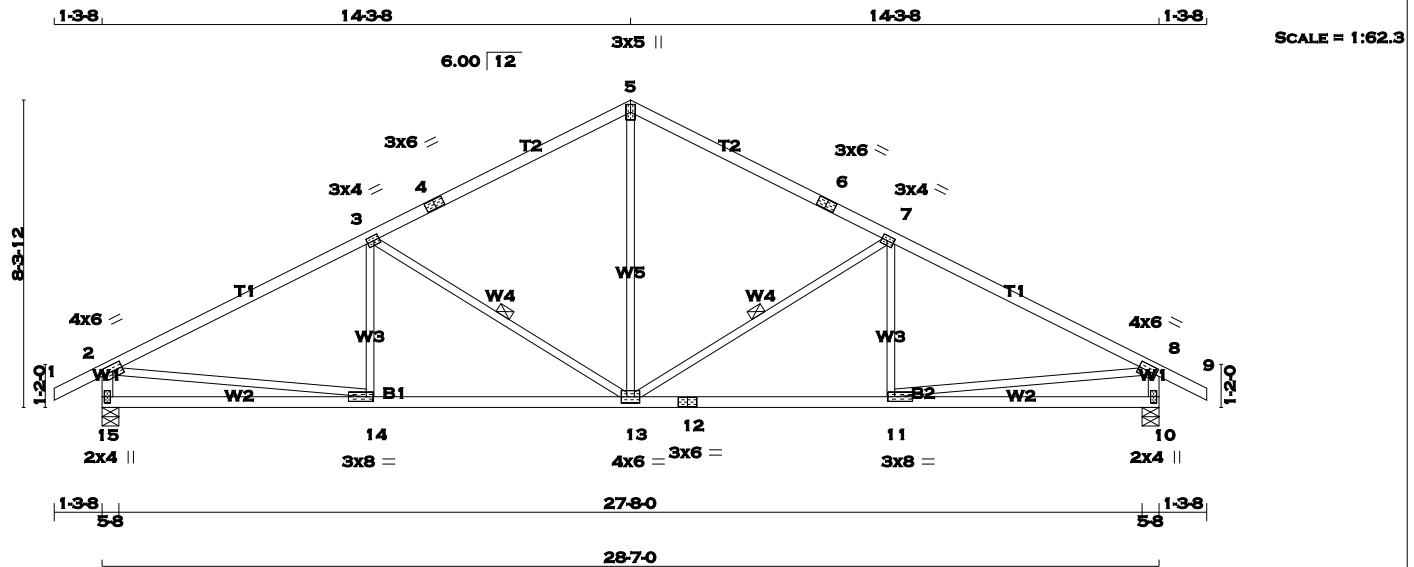
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (15) (INPUT = 0.90)
JSI METAL= 0.53 (2) (INPUT = 1.00)

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LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
1 - 4	2x4	DRY	No.2	SPF
4 - 5	2x4	DRY	No.2	SPF
5 - 6	2x4	DRY	No.2	SPF
6 - 9	2x4	DRY	No.2	SPF
15 - 2	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF
15 - 12	2x4	DRY	No.2	SPF
12 - 10	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMVW-t	MT20	4.0	6.0	2.00 2.75
3	TMVW-t	MT20	3.0	4.0	1.50 1.75
4	TS-t	MT20	3.0	6.0	
5	TTW+p	MT20	3.0	5.0	
6	TS-t	MT20	3.0	6.0	
7	TMVW-t	MT20	3.0	4.0	1.50 1.75
8	TMVW-t	MT20	4.0	6.0	2.00 2.75
10	BMV1+p	MT20	2.0	4.0	
11	BMVW-t	MT20	3.0	8.0	1.50 2.25
12	BS-t	MT20	3.0	6.0	
13	BMVW-t	MT20	4.0	6.0	
14	BMVW-t	MT20	3.0	8.0	1.50 2.25
15	BMV1+p	MT20	2.0	4.0	
A SIZE FOR SIZE SUBSTITUTION OF MIITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.					

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
15		1460	0	1460	0	0	5-8	5-8	
10		1460	0	1460	0	0	5-8	5-8	

UNFACTORED REACTIONS							
		1ST LCASE	MAX./MIN. COMPONENT REACTIONS				
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
15		1023	729 / 0	0 / 0	0 / 0	0 / 0	294 / 0
10		1023	729 / 0	0 / 0	0 / 0	0 / 0	294 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 15, 10

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.14 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-13, 3-13. DBS = 20-0-0 . CBF = 80 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"x3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 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. (PLF)	LOAD LC1	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)		
FR-TO		FROM	TO	LENGTH	FR-TO				
1-2	0 / 23	-77.3	-77.3	0.10 (1)	10.00	13-5	0 / 809	0.18 (1)	
2-3	-1938 / 0	-77.3	-77.3	0.64 (1)	4.14	13-7	-641 / 0	0.30 (1)	
3-4	-1393 / 0	-77.3	-77.3	0.56 (1)	4.80	11-7	-71 / 98	0.03 (4)	
4-5	-1393 / 0	-77.3	-77.3	0.56 (1)	4.80	3-13	-641 / 0	0.30 (1)	
5-6	-1393 / 0	-77.3	-77.3	0.56 (1)	4.80	14-3	-71 / 98	0.03 (4)	
6-7	-1393 / 0	-77.3	-77.3	0.56 (1)	4.80	2-14	0 / 1772	0.40 (1)	
7-8	-1938 / 0	-77.3	-77.3	0.64 (1)	4.14	11-8	0 / 1772	0.40 (1)	
8-9	0 / 23	-77.3	-77.3	0.10 (1)	10.00				
15-2	-1408 / 0	0.0	0.0	0.14 (1)	6.87				
10-8	-1408 / 0	0.0	0.0	0.14 (1)	6.87				
15-14	0 / 0	-17.5	-17.5	0.21 (4)	10.00				
14-13	0 / 1759	-17.5	-17.5	0.39 (1)	10.00				
13-12	0 / 1759	-17.5	-17.5	0.39 (1)	10.00				
12-11	0 / 1759	-17.5	-17.5	0.39 (1)	10.00				
11-10	0 / 0	-17.5	-17.5	0.21 (4)	10.00				

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING 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 (0.95")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.09")
ALLOWABLE DEFL.(TL)= L/360 (0.95")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.17")

CSI: TC=0.64 (2-3:1) , BC=0.39 (13-14:1) , WB=0.40 (2-14:1) , SSI=0.24 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) 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.

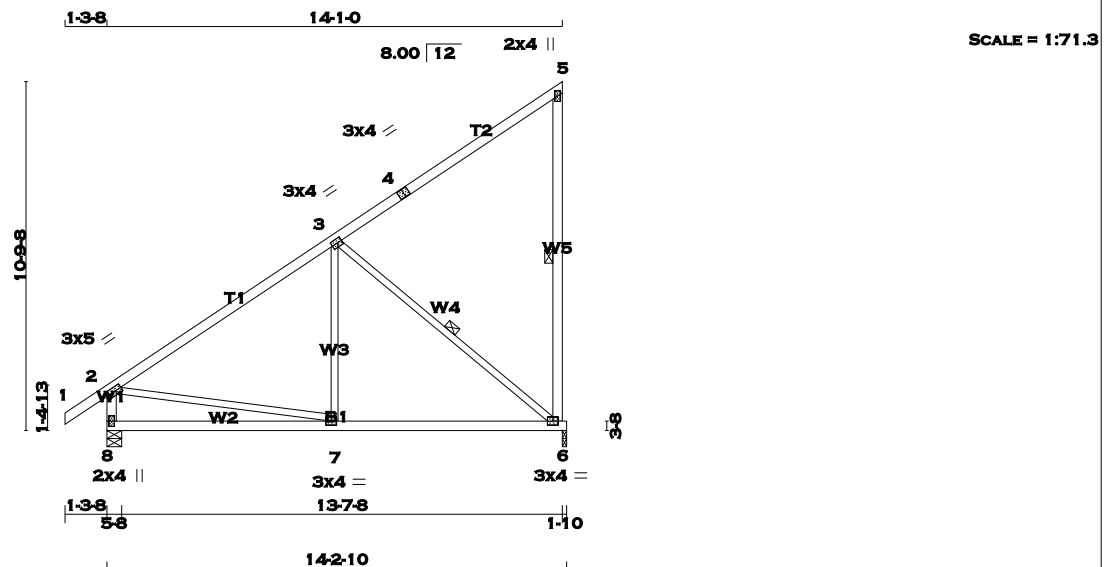
JSI GRIP= 0.88 (2) (INPUT = 0.90)
JSI METAL= 0.53 (8) (INPUT = 1.00)



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TOTAL WEIGHT = 8 X 67 = 537 lb
[M][F]

LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
1 - 4	2x4	DRY	No.2		SPF
4 - 5	2x4	DRY	No.2		SPF
6 - 5	2x4	DRY	No.2		SPF
8 - 2	2x4	DRY	No.2		SPF
8 - 6	2x4	DRY	No.2		SPF
ALL WEBS 2x3 DRY No.2 EXCEPT					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	TMVW-t	MT20	3.0	4.0	1.50	1.50
4	TS-t	MT20	3.0	4.0		
5	TMV+p	MT20	2.0	4.0		
6	BMVW1-t	MT20	3.0	4.0		
7	BMVW-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.

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	
6	668	0	668	0	0	1-10	1-10	
8	774	0	774	0	0	5-8	5-8	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX./MIN. SNOW		LIVE		PERM.LIVE		WIND		DEAD		SOIL	
6	469	328 / 0			0 / 0		0 / 0	0 / 0	0 / 0	141 / 0	141 / 0	0 / 0	0 / 0	0 / 0
8	541	392 / 0			0 / 0		0 / 0	0 / 0	0 / 0	149 / 0	149 / 0	0 / 0	0 / 0	0 / 0

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

BRACING

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

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-6, 3-6. DBS = 20-0-0 . CBF = 82 LBS.

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

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

LOADING

TOTAL LOAD CASES: (4)

C H O R D S				W E B S			
MEMB.		MAX. FACTORED FORCE (LBS)		MAX. FACTORED VERT. LOAD (PLF)		MAX. FACTORED UNBRAC LENGTH (LC)	
FR-TO		FROM	TO	FR-TO		FROM	TO
1-2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	7-3	0 / 149
2-3	-572 / 0	-77.3	-77.3	0.52 (1)	6.25	3-6	-656 / 0
3-4	-37 / 0	-77.3	-77.3	0.51 (1)	6.25	2-7	0 / 513
4-5	-37 / 0	-77.3	-77.3	0.51 (1)	6.25		
6-5	-205 / 0	0.0	0.0	0.12 (1)	6.25		
8-2	-727 / 0	0.0	0.0	0.07 (1)	7.81		
8-7	0 / 0	-17.5	-17.5	0.25 (4)	10.00		
7-6	0 / 507	-17.5	-17.5	0.29 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.47")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.47")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.06")

CSI: TC=0.52 (2-3:1) , BC=0.29 (6-7:4) , WB=0.37 (3-6:1) , SSI=0.22 (3-5:1)

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
MT20	618	354	1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

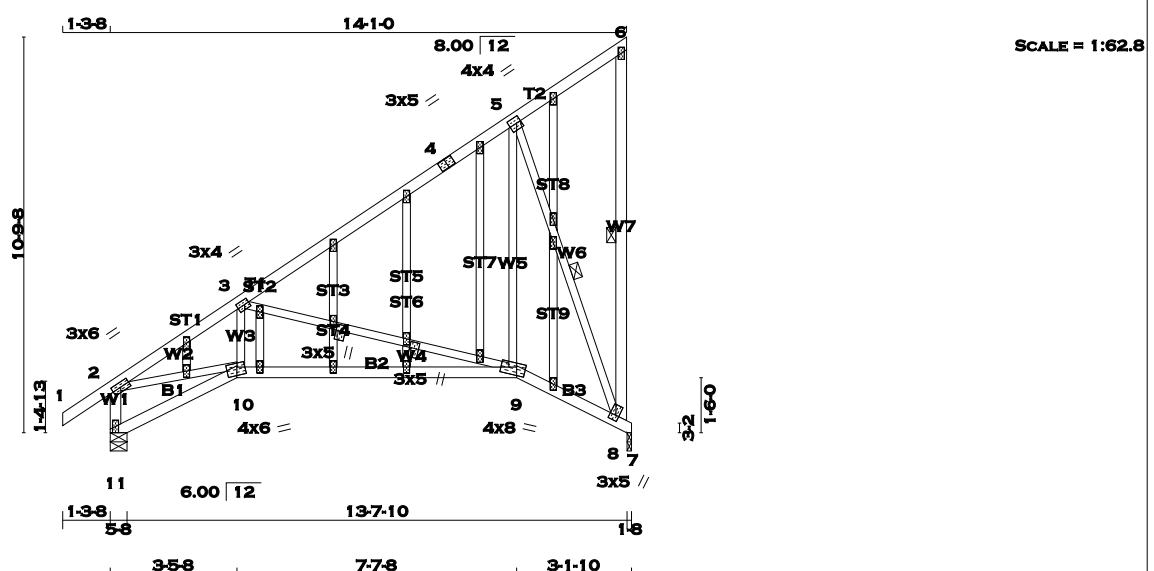
JSI GRIP= 0.87 (7) (INPUT = 0.90)
JSI METAL= 0.23 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 93 lb [M]

LUMBER				DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
8 - 6	2x4	DRY	No.2	SPF
11 - 2	2x4	DRY	No.2	SPF
11 - 10	2x4	DRY	No.2	SPF
10 - 9	2x4	DRY	No.2	SPF
9 - 7	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
ALL GABLE WEBS	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				
GABLE STUDS SPACED AT 2'-0" O.C.				

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMVW-t	MT20	3.0	6.0	
3	TMWW-t	MT20	3.0	4.0	1.50 1.50
4	TS-t	MT20	3.0	5.0	
5	TMVW-t	MT20	4.0	4.0	2.00 1.50
6	TMV+p	MT20	2.0	4.0	
8	BMVW+t	MT20	3.0	5.0	1.75 1.00
9	BBWW-m	MT20	4.0	8.0	2.75 3.00
10	BBWW-m	MT20	4.0	6.0	2.75 2.50
11	BMV1+p	MT20	2.0	4.0	
12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26	NP+ww	MT20	2.0	4.0	
19	NP+t	MT20	3.0	5.0	2.00 0.25
20	NP+t	MT20	3.0	5.0	2.00 0.25

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

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
11	782	0	782	0	0
7	663	0	663	0	0

UNFACTORED REACTIONS		1ST LCASE	MAX./MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
11	547	396 / 0	0 / 0	0 / 0	0 / 0	151 / 0	0 / 0
7	465	324 / 0	0 / 0	0 / 0	0 / 0	142 / 0	0 / 0

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

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 6-8. DBS = 20'-0" . CBF = 3 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-8. DBS = 16'-0" . CBF = 85 LBS.

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 29	-77.3 -77.3	0.10 (1)	10-3	0 / 231	0.05 (1)	
2-3	-1253 / 0	-77.3 -77.3	0.41 (1)	3-9	-804 / 0	0.98 (1)	
3-4	-343 / 0	-77.3 -77.3	0.43 (1)	9-5	0 / 479	0.11 (1)	
4-5	-343 / 0	-77.3 -77.3	0.43 (1)	5-8	-847 / 0	0.45 (1)	
5-6	-54 / 0	-77.3 -77.3	0.41 (1)	2-10	0 / 1086	0.24 (1)	
8-6	-24 / 0	0.0 0.0	0.01 (1)				
11-2	-752 / 0	0.0 0.0	0.08 (1)				
11-10	0 / 0	-17.5 -17.5	0.06 (4)				
10-9	0 / 1065	-17.5 -17.5	0.37 (4)				
9-8	0 / 346	-17.5 -17.5	0.21 (1)				
8-7	-296 / 0	-17.5 -17.5	0.16 (1)				

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.48")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.48")
CALCULATED VERT. DEFL.(TL) = L/ 855 (0.20")

CSI: TC=0.43 (3-5:1) , BC=0.37 (9-10:4) , WB=0.98 (3-9:1) , SSI=0.46 (7-8:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

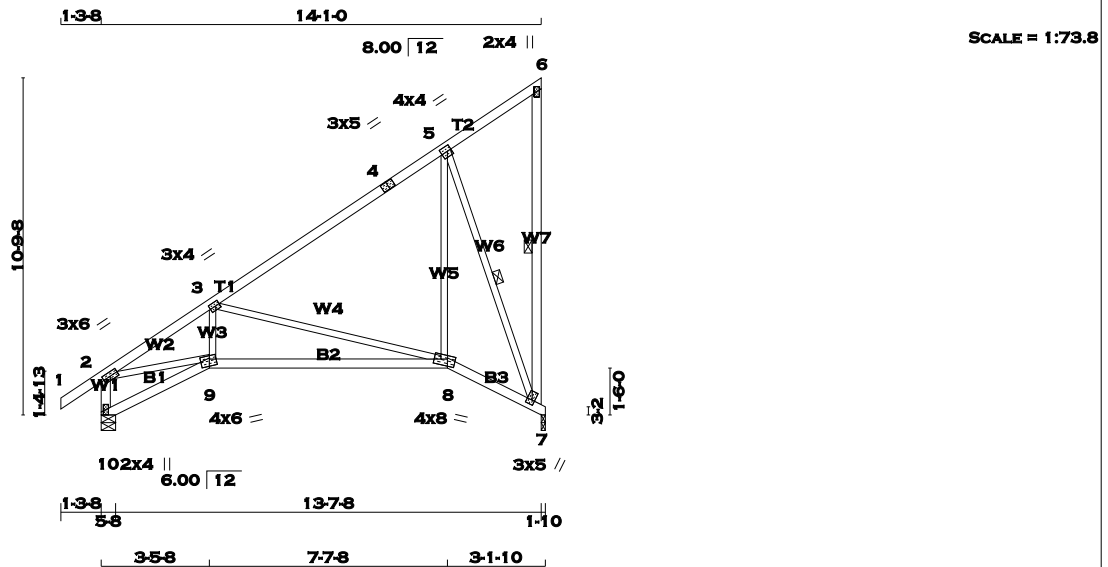
JSI GRIP= 0.88 (3) (INPUT = 0.90)
JSI METAL= 0.35 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 74 lb

[M][F]

LUMBER				DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
10 - 2	2x4	DRY	No.2	SPF
10 - 9	2x4	DRY	No.2	SPF
9 - 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	
4	TMVW-t	MT20	3.0	4.0	1.50 1.50
4	TS-t	MT20	3.0	5.0	
5	TMVW-t	MT20	4.0	4.0	2.00 1.50
6	TMV+p	MT20	2.0	4.0	
7	BMVW1+t	MT20	3.0	5.0	1.75 1.00
8	BBWW-m	MT20	4.0	8.0	2.75 3.00
9	BBWW-m	MT20	4.0	6.0	2.75 2.50
10	BMV1+p	MT20	2.0	4.0	

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

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
7		668	0	668	0	0	1-10	1-10	
10		774	0	774	0	0	5-8	5-8	

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX/MIN.	SNOW	LIVE	PERM.LIVE	WIND	DEAD
7	COMBINED		328 / 0	0 / 0	0 / 0	0 / 0	141 / 0
10			392 / 0	0 / 0	0 / 0	0 / 0	149 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 7, 10

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.42 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 6-7. DBS = 20-0-0 . CBF = 3 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-7. DBS = 18-0-0 . CBF = 91 LBS.
DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"x3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

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

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 29	-77.3 -77.3	0.10 (1)	10.00	9-3	0 / 229	0.05 (1)
2-3	-1235 / 0	-77.3 -77.3	0.31 (1)	5.42	3-8	-802 / 0	0.98 (1)
3-4	-327 / 0	-77.3 -77.3	0.37 (1)	6.25	8-5	0 / 433	0.10 (1)
4-5	-327 / 0	-77.3 -77.3	0.37 (1)	6.25	5-7	-808 / 0	0.43 (1)
5-6	-54 / 0	-77.3 -77.3	0.31 (1)	6.25	2-9	0 / 1071	0.24 (1)
7-6	-23 / 0	0.0 0.0	0.01 (1)	6.25			
10-2	-744 / 0	0.0 0.0	0.08 (1)	7.81			
10-9	0 / 0	-17.5 -17.5	0.06 (4)	10.00			
9-8	0 / 1050	-17.5 -17.5	0.37 (4)	10.00			
8-7	0 / 313	-17.5 -17.5	0.08 (1)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.47")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.47")
CALCULATED VERT. DEFL.(TL) = L/ 868 (0.19")

CSI: TC=0.37 (3-5:1) , BC=0.37 (8-9:4) , WB=0.98 (3-8:1) , SSI=0.19 (3-5:1)

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

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

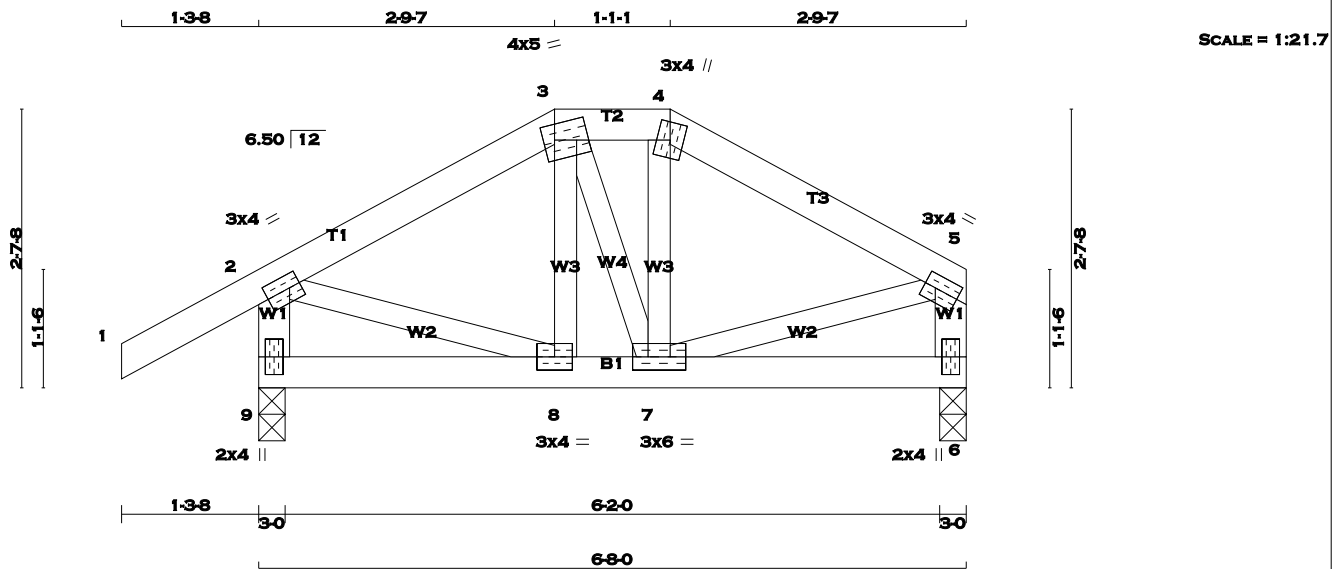
JSI GRIP= 0.88 (3) (INPUT = 0.90)
JSI METAL= 0.34 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 29 lb
[M][F]

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2
3 - 4	2x4	DRY	No.2
4 - 5	2x4	DRY	No.2
9 - 2	2x4	DRY	No.2
6 - 5	2x4	DRY	No.2
9 - 6	2x4	DRY	No.2

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

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

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

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

BEARINGS			
FACTORED		MAXIMUM FACTORED	
GROSS REACTION		GROSS REACTION	
JT	VERT	HORZ	UPLIFT
9	421	0	0
6	316	0	0

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
9	293	219 / 0	0 / 0	0 / 0	0 / 0	75 / 0	0 / 0
6	222	155 / 0	0 / 0	0 / 0	0 / 0	67 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 9, 6

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

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

LOADING			
TOTAL LOAD CASES: (4)			
CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)
FR-TO		FROM TO	LENGTH FR-TO
1-2	0 / 25	-77.3 -77.3	0.10 (1)
2-3	-257 / 0	-77.3 -77.3	0.08 (1)
3-4	-224 / 0	-77.3 -77.3	0.01 (1)
4-5	-257 / 0	-77.3 -77.3	0.08 (1)
9-2	-399 / 0	0.0 0.0	0.04 (1)
6-5	-293 / 0	0.0 0.0	0.03 (1)
9-8	0 / 0	-17.5 -17.5	0.03 (4)
8-7	0 / 225	-17.5 -17.5	0.05 (1)
7-6	0 / 0	-17.5 -17.5	0.03 (4)

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.22")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.22")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.00")

CSI: TC=0.10 (1-2:1), BC=0.05 (7-8:1), WB=0.05 (2-8:1), SSI=0.07 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

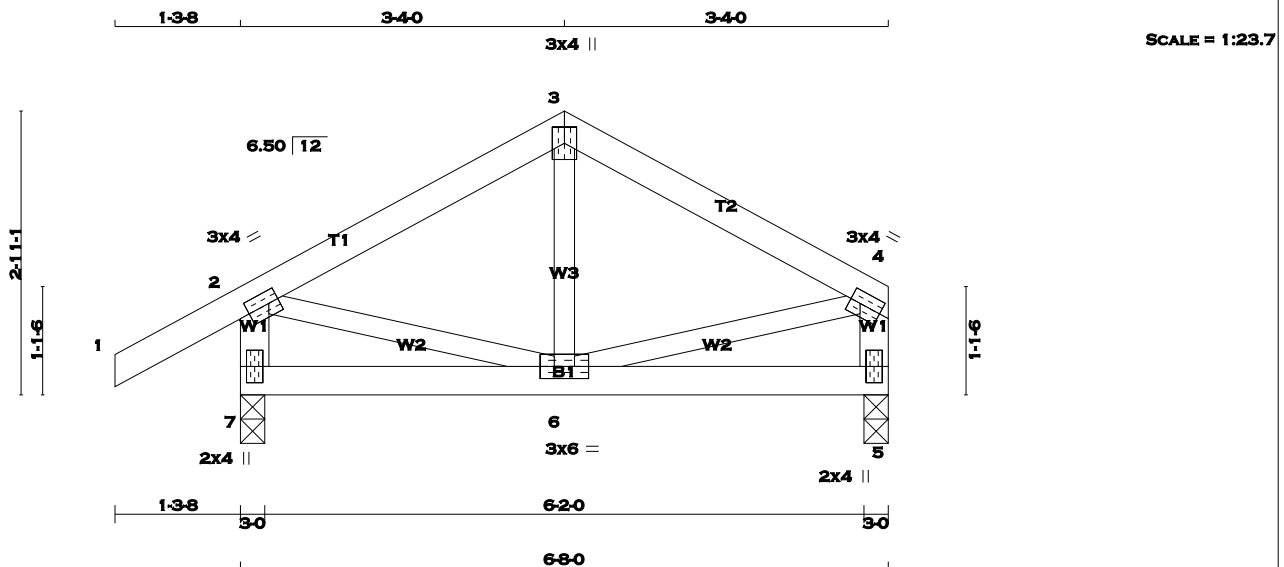
JSI GRIP= 0.58 (2) (INPUT = 0.90)
JSI METAL= 0.13 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 2 X 27 = 53 lb [M][F]

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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	4.0	1.50	1.25
3	TTW+p	MT20	3.0	4.0		
4	TMVW-t	MT20	3.0	4.0	1.50	1.25
5	BMV1+p	MT20	2.0	4.0		
6	BMVWW-t	MT20	3.0	6.0		
7	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
7	421	0	421	0	0
5	316	0	316	0	0

UNFACTORED REACTIONS							
JT	1ST LCASE	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
7	293	219 / 0	0 / 0	0 / 0	0 / 0	0 / 0	75 / 0
5	222	155 / 0	0 / 0	0 / 0	0 / 0	0 / 0	67 / 0

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

BRACING

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

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

LOADING							
TOTAL LOAD CASES: (4)							
CHORDS				WEBS			
MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FORCE (LBS)	FACTORED MAX (LC)
FR-TO		FROM	TO		FR-TO		
1-2	0 / 25	-77.3	-77.3	0.10 (1)	10.00	6-3	-31 / 47
2-3	-238 / 0	-77.3	-77.3	0.11 (1)	6.25	2-6	0 / 215
3-4	-238 / 0	-77.3	-77.3	0.11 (1)	6.25	6-4	0 / 215
7-2	-398 / 0	0.0	0.0	0.04 (1)	7.81		
5-4	-293 / 0	0.0	0.0	0.03 (1)	7.81		
7-6	0 / 0	-17.5	-17.5	0.05 (4)	10.00		
6-5	0 / 0	-17.5	-17.5	0.05 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 23.3 PSF
DL = 3.0 PSF

BOT CH. LL = 0.0 PSF
DL = 7.0 PSF

TOTAL LOAD = 33.3 PSF

SPACING = 24.0 IN./C/C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.22")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.22")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.11 (3-4:1), BC=0.05 (5-6:4), WB=0.05 (2-6:1), SSI=0.09 (3-4:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.54 (4) (INPUT = 0.90)
JSI METAL= 0.13 (2) (INPUT = 1.00)



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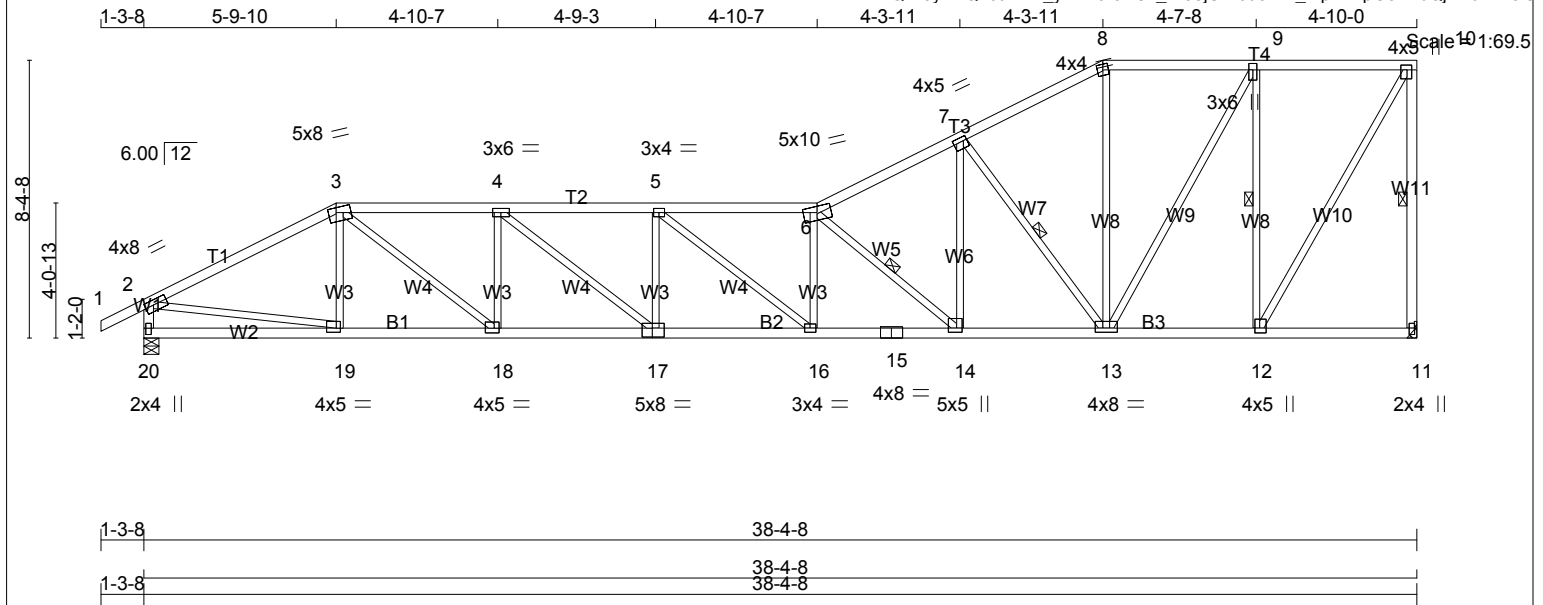
MAR 29, 2017
17-5233
BUILDING DIVISION

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.



JOB NAME T-BLOCK338	TRUSS NAME T55	QUANTITY 1	PLY 1	JOB DESC. LECCO RIDGE-BLOCK 338	DRWG NO. ENG JOB: PT0317-081
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KOTT, Stouffville, ON, Alan Attwater

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ID:EvTixTQDI5yR1QLotZTBr_yE?HJ-oACz_Hi3eJlUWou9ATl_?lpf1WpGozwbQjHFuvRzalsn

TOTAL WEIGHT = 173 lb

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
1 - 3	2x4	DRY	No.2	SPF
3 - 6	2x4	DRY	No.2	SPF
6 - 8	2x4	DRY	No.2	SPF
8 - 10	2x4	DRY	No.2	SPF
11 - 10	2x4	DRY	No.2	SPF
20 - 2	2x4	DRY	No.2	SPF
20 - 17	2x4	DRY	No.2	SPF
17 - 15	2x4	DRY	No.2	SPF
15 - 11	2x4	DRY	No.2	SPF

ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	8.0	1.75	3.00
3	TTWW-m	MT20	5.0	8.0	1.75	2.75
4	TMVW-t	MT20	3.0	6.0		
5	TMVW-t	MT20	3.0	4.0		
6	TTWW-m	MT20	5.0	10.0	2.25	5.00
7	TMVW-t	MT20	4.0	5.0	1.50	1.25
8	TTW-m	MT20	4.0	4.0		
9	TMVW-t	MT20	3.0	6.0	2.25	1.50
10	TMVW-p	MT20	4.0	5.0	1.75	1.75
11	BMV1+p	MT20	2.0	4.0	2.25	1.00
12	BMVW+t	MT20	4.0	5.0	1.75	1.75
13	BMVW+t	MT20	4.0	8.0	1.50	4.00
14	BMVW+t	MT20	5.0	5.0	1.50	2.00
15	BS-t	MT20	4.0	8.0		
16	BMVW-t	MT20	3.0	4.0		
17	BSWV-l	MT20	5.0	8.0	3.25	3.75
18	BMVW-t	MT20	4.0	5.0	1.75	1.75
19	BMVW-t	MT20	4.0	5.0	1.50	1.50
20	BMV1+p	MT20	2.0	4.0	2.25	1.00

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

FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
11	1820	0	1820	0	0		
20	1925	0	1925	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN	COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
11	1277	893 / 0	0 / 0	0 / 0	0 / 0	384 / 0	0 / 0
20	1349	957 / 0	0 / 0	0 / 0	0 / 0	392 / 0	0 / 0

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

BRACINGTOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.89 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

- 1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF 10-11. DBS = 18-0-0. CBF = 201 LBS.
- 1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF 6-14. DBS = 12-0-0. CBF = 186 LBS.
- 1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-13. DBS = 16-0-0. CBF = 194 LBS.
- 1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF 9-12. DBS = 20-0-0. CBF = 193 LBS.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 23	-77.3 -77.3	0.10 (1)	10.00	19-3	-239 / 18	0.06 (1)
2-3	-2684 / 0	-77.3 -77.3	0.70 (1)	3.56	3-18	0 / 1725	0.39 (1)
3-4	-3757 / 0	-77.3 -77.3	0.45 (1)	3.30	18-4	-983 / 0	0.25 (1)
4-5	-4478 / 0	-77.3 -77.3	0.54 (1)	2.95	4-17	0 / 928	0.21 (1)
5-6	-4616 / 0	-77.3 -77.3	0.57 (1)	2.89	17-5	-494 / 0	0.12 (1)
6-7	-3053 / 0	-77.3 -77.3	0.39 (1)	3.67	5-16	0 / 160	0.04 (1)
7-8	-1796 / 0	-77.3 -77.3	0.29 (1)	4.69	16-6	-26 / 52	0.02 (4)
8-9	-1596 / 0	-77.3 -77.3	0.32 (1)	4.86	6-14	-2483 / 0	0.60 (1)
9-10	-981 / 0	-77.3 -77.3	0.30 (1)	5.90	14-7	0 / 1713	0.39 (1)
11-10	-1785 / 0	0.0 0.0	0.57 (1)	5.00	7-13	-1938 / 0	0.71 (1)
20-2	-1881 / 0	0.0 0.0	0.19 (1)	6.12	13-8	0 / 532	0.12 (1)
					13-9	0 / 1260	0.28 (1)
20-19	0 / 0	-17.5 -17.5	0.13 (4)	10.00	12-9	-1547 / 0	0.69 (1)
19-18	0 / 2393	-17.5 -17.5	0.45 (1)	10.00	12-10	0 / 1910	0.43 (1)
18-17	0 / 3757	-17.5 -17.5	0.65 (1)	10.00	2-19	0 / 2424	0.55 (1)
17-16	0 / 4491	-17.5 -17.5	0.78 (1)	10.00			
16-15	0 / 4617	-17.5 -17.5	0.80 (1)	10.00			
15-14	0 / 4617	-17.5 -17.5	0.80 (1)	10.00			
14-13	0 / 2748	-17.5 -17.5	0.48 (1)	10.00			
13-12	0 / 981	-17.5 -17.5	0.21 (1)	10.00			

DESIGN CRITERIA**SPECIFIED LOADS:**

TOP CH. LL	=	23.3	PSF
DL	=	3.0	PSF
BOT CH. LL	=	0.0	PSF
DL	=	7.0	PSF
TOTAL LOAD	=	33.3	PSF

SPACING = 24.0 IN. C/C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, 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 (1.28")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.38")
 ALLOWABLE DEFL.(TL)= L/360 (1.28")
 CALCULATED VERT. DEFL.(TL) = L/682 (0.68")

CSI: TC=0.70 (2-3:1), BC=0.80 (14-16:1), WB=0.71 (7-13:1), SSI=0.18 (9-10:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MAX	MIN	MAX	MIN
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (12) (INPUT = 0.90)
JSI METAL= 0.90 (15) (INPUT = 1.00)

CONTINUED ON PAGE 2



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READ ALL NOTES ON THIS PAGE AND ON THE
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IS AN INTEGRAL PART OF THIS DRAWING AS IT
CONTAINS SPECIFICATIONS AND CRITERIA USED
IN THE DESIGN OF THIS COMPONENT.



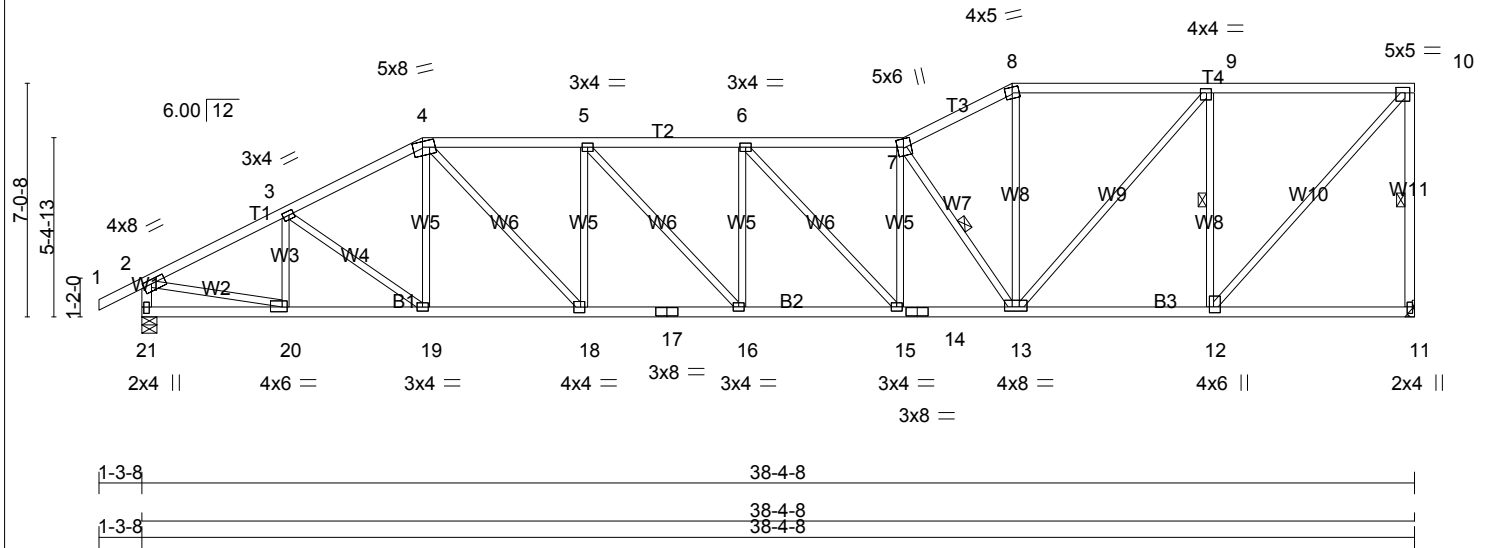
JOB NAME T-BLOCK338	TRUSS NAME T56	QUANTITY 1	PLY 1	JOB DESC. LECCO RIDGE-BLOCK 338	DRWG NO. ENG JOB: PT0317-081
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ID:EvTixTQDI5yR1QLotZTBr_yE?HJ-8HRAKsYj2quWnvPnzMAJz8t4AFFFEflaArZ8Izam01

1-3-8 4-4-1 4-1-9 4-10-7 4-9-3 4-10-7 3-3-5 5-11-8 6-2-0

Scale = 1:69.5



TOTAL WEIGHT = 170 lb

LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA	
N. L. G. A. RULES				BEARINGS										SPECIFIED LOADS:	
CHORDS	SIZE	LUMBER	DESCR.	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG								
1 - 4	2x4	DRY	No.2	SPF	DOWN	HORIZ	UPLIFT	IN-SX	IN-SX						
4 - 7	2x4	DRY	No.2	SPF	11	1820	0	1820	0	5-8	5-8				
7 - 8	2x4	DRY	No.2	SPF	21	1925	0	1925	0	5-8	5-8				
8 - 10	2x4	DRY	No.2	SPF											
11 - 10	2x4	DRY	No.2	SPF											
21 - 2	2x4	DRY	No.2	SPF											
21 - 17	2x4	DRY	No.2	SPF											
17 - 14	2x4	DRY	No.2	SPF											
14 - 11	2x4	DRY	No.2	SPF											
ALL WEBS EXCEPT				SPF											
DRY: SEASONED LUMBER.														SPACING = 24.0 IN. C/C	
														LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12	
														THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, 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 (1.28") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.25") ALLOWABLE DEFL.(TL)= L/360 (1.28") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.44")	
														CSI: TC=0.63 (8-9:1), BC=0.61 (15-16:1), WB=0.54 (2-20:1), SSI=0.23 (9-10:1)	
														DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10	
														COMPANION LIVE LOAD FACTOR = 0.50	
														TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.	
														NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)	
														MAX MIN MAX MIN MAX MIN MT20 618 354 1667 822 2284 1656	
														PLATE PLACEMENT TOL. = 0.250 inches	
														PLATE ROTATION TOL. = 5.0 Deg.	
														JSI GRIP= 0.90 (12) (INPUT = 0.90) JSI METAL= 0.83 (14) (INPUT = 1.00)	

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	8.0	1.50	3.00
3	TMVW-t	MT20	3.0	4.0	1.50	1.75
4	TTWW-m	MT20	5.0	8.0	2.00	3.50
5	TMVW-t	MT20	3.0	4.0		
6	TMVW-t	MT20	3.0	4.0		
7	TTWW+m	MT20	5.0	6.0	3.00	2.25
8	TTWW-m	MT20	4.0	5.0		
9	TMVW-t	MT20	4.0	4.0	1.50	1.75
10	TMVW-t	MT20	5.0	5.0	2.00	1.75
11	BMV1+p	MT20	2.0	4.0	2.25	1.00
12	BMVW+t	MT20	4.0	6.0	2.00	1.50
13	BMVWVW-t	MT20	4.0	8.0	1.50	4.00
14	BS-t	MT20	3.0	8.0		
15, 16, 19						
15	BMVW-t	MT20	3.0	4.0		
17	BS-t	MT20	3.0	8.0		
18	BMVW-t	MT20	4.0	4.0	2.00	1.50
20	BMVW-t	MT20	4.0	6.0	1.75	1.75
21	BMV1+p	MT20	2.0	4.0	2.25	1.00

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 23	-77.3 -77.3	0.10 (1)	10-00	20-3	-400 / 0	0.08 (1)
2-3	-2625 / 0	-77.3 -77.3	0.32 (1)	4-00	3-19	0 / 7	0.00 (4)
3-4	-2657 / 0	-77.3 -77.3	0.31 (1)	3-98	19-4	0 / 90	0.03 (4)
4-5	-3136 / 0	-77.3 -77.3	0.40 (1)	3-63	4-18	0 / 1120	0.25 (1)
5-6	-3443 / 0	-77.3 -77.3	0.42 (1)	3-45	18-5	-731 / 0	0.32 (1)
6-7	-3294 / 0	-77.3 -77.3	0.41 (1)	3-54	5-16	0 / 451	0.10 (1)
7-8	-2480 / 0	-77.3 -77.3	0.22 (1)	4-19	16-6	-240 / 0	0.10 (1)
8-9	-2231 / 0	-77.3 -77.3	0.63 (1)	3-88	6-15	-219 / 0	0.20 (1)
9-10	-1456 / 0	-77.3 -77.3	0.55 (1)	4-70	15-7	0 / 219	0.05 (1)
11-10	-1776 / 0	0.0 0.0	0.40 (1)	5-01	7-13	-1938 / 0	0.52 (1)
21-2	-1887 / 0	0.0 0.0	0.19 (1)	6-11	13-8	0 / 806	0.18 (1)
					13-9	0 / 1182	0.27 (1)
21-20	0 / 0	-17.5 -17.5	0.07 (4)	10-00	12-9	-1471 / 0	0.46 (1)
20-19	0 / 2361	-17.5 -17.5	0.43 (1)	10-00	12-10	0 / 2158	0.49 (1)
19-18	0 / 2362	-17.5 -17.5	0.43 (1)	10-00	2-20	0 / 2407	0.54 (1)
18-17	0 / 3136	-17.5 -17.5	0.54 (1)	10-00			
17-16	0 / 3136	-17.5 -17.5	0.54 (1)	10-00			
16-15	0 / 3443	-17.5 -17.5	0.61 (1)	10-00			
15-14	0 / 3289	-17.5 -17.5	0.56 (1)	10-00			
14-13	0 / 3289	-17.5 -17.5	0.56 (1)	10-00			
13-12	0 / 1456	-17.5 -17.5	0.32 (1)	10-00			

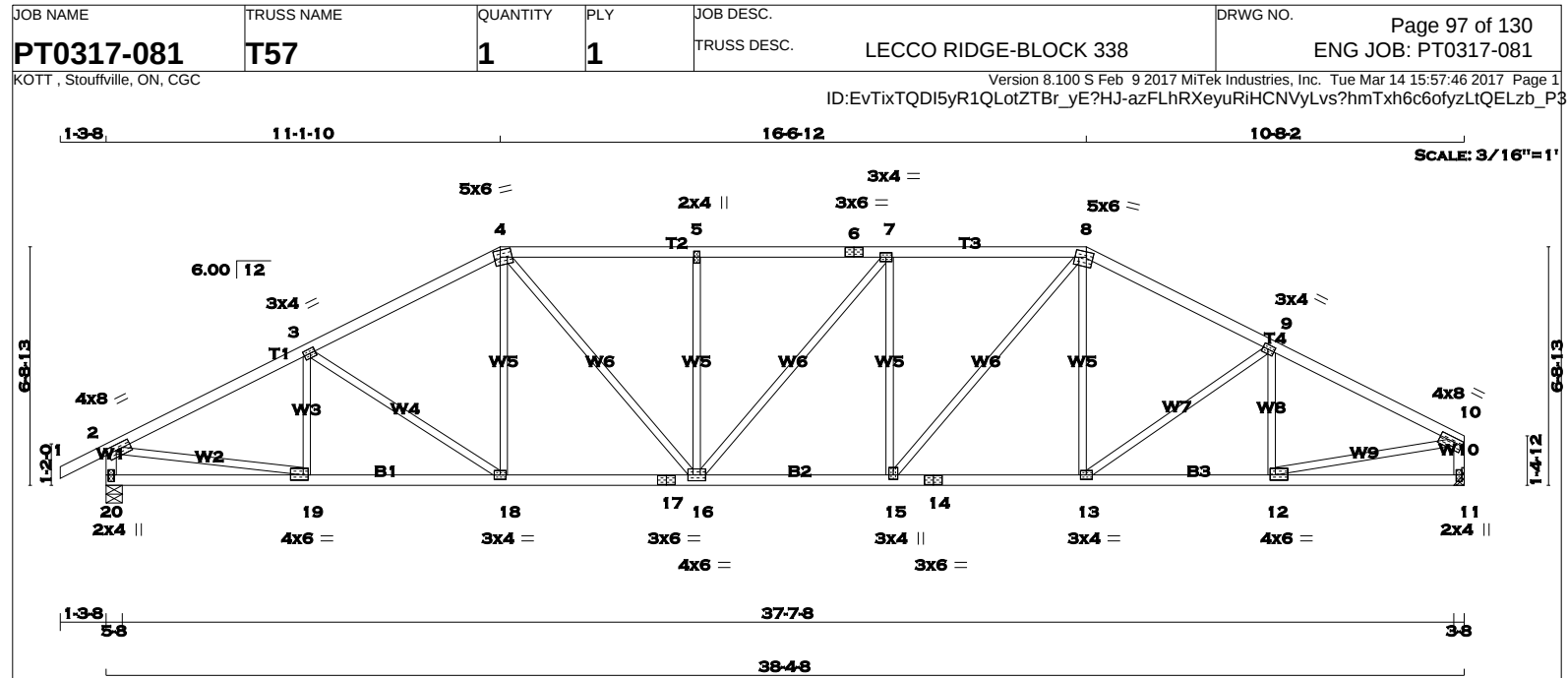


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MAR 29, 2017
17-5233
BUILDING DIVISION

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.

CONTINUED ON PAGE 2





TOTAL WEIGHT = 159 lb [M][F]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2
4 - 6	2x4	DRY	No.2
6 - 8	2x4	DRY	No.2
8 - 10	2x4	DRY	No.2
20 - 2	2x4	DRY	No.2
11 - 10	2x4	DRY	No.2
20 - 17	2x4	DRY	No.2
17 - 14	2x4	DRY	No.2
14 - 11	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	4.0	8.0	1.75	3.00
3	TMVW-t	MT20	3.0	4.0	1.50	1.75
4	TTWW-m	MT20	5.0	6.0	2.25	2.00
5	TMVW-w	MT20	2.0	4.0		
6	TS-t	MT20	3.0	6.0		
7	TMVW-t	MT20	3.0	4.0		
8	TTWW-m	MT20	5.0	6.0	1.75	2.25
9	TMVW-t	MT20	3.0	4.0	1.50	1.75
10	TMVW-t	MT20	4.0	8.0	1.50	3.00
11	BMV1+p	MT20	2.0	4.0	2.25	1.00
12	BMVW-t	MT20	4.0	6.0	1.75	1.75
13	BMVW-t	MT20	3.0	4.0		
14	BS-t	MT20	3.0	6.0		
15	BMVW+t	MT20	3.0	4.0	1.50	1.50
16	BMVWVW-t	MT20	4.0	6.0		
17	BS-t	MT20	3.0	6.0		
18	BMVW-t	MT20	3.0	4.0		
19	BMVW-t	MT20	4.0	6.0	1.75	1.75
20	BMV1+p	MT20	2.0	4.0	2.25	1.00

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.



DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
20	1925	0	1925	0
11	1820	0	1820	0

MIN. SEAT SIZE: 3-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. LIVE	PERM. LIVE	WIND	DEAD	SOIL
20	1349	957 / 0	0 / 0	0 / 0	392 / 0	0 / 0
11	1277	893 / 0	0 / 0	0 / 0	384 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 20

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.84 FT.
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.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED (LC1)	MEMB.	FORCE (LBS)	MAX. FACTORED (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
1-2	0 / 23	-77.3	-77.3 0.10 (1)	10.00	19-3	-272 / 12	0.07 (1)
2-3	-2733 / 0	-77.3	-77.3 0.43 (1)	3.84	3-18	-269 / 0	0.22 (1)
3-4	-2528 / 0	-77.3	-77.3 0.40 (1)	4.00	18-4	0 / 251	0.06 (1)
4-5	-2703 / 0	-77.3	-77.3 0.38 (1)	3.90	4-16	0 / 703	0.16 (1)
5-6	-2703 / 0	-77.3	-77.3 0.35 (1)	3.94	16-5	-461 / 0	0.35 (1)
6-7	-2703 / 0	-77.3	-77.3 0.35 (1)	3.94	16-7	0 / 26	0.01 (1)
7-8	-2686 / 0	-77.3	-77.3 0.38 (1)	3.91	15-7	-483 / 0	0.37 (1)
8-9	-2465 / 0	-77.3	-77.3 0.37 (1)	4.07	15-8	0 / 764	0.17 (1)
9-10	-2557 / 0	-77.3	-77.3 0.38 (1)	4.00	13-8	0 / 185	0.04 (4)
20-2	-1880 / 0	0.0	0.0 0.19 (1)	6.12	13-9	-149 / 0	0.12 (1)
11-10	-1777 / 0	0.0	0.0 0.18 (1)	6.26	12-9	-364 / 0	0.09 (1)
					2-19	0 / 2491	0.56 (1)
					12-10	0 / 2351	0.53 (1)
20-19	0 / 0	-17.5	-17.5 0.12 (4)	10.00			
19-18	0 / 2463	-17.5	-17.5 0.46 (1)	10.00			
18-17	0 / 2244	-17.5	-17.5 0.42 (1)	10.00			
17-16	0 / 2244	-17.5	-17.5 0.42 (1)	10.00			
16-15	0 / 2686	-17.5	-17.5 0.48 (1)	10.00			
15-14	0 / 2187	-17.5	-17.5 0.41 (1)	10.00			
14-13	0 / 2187	-17.5	-17.5 0.41 (1)	10.00			
13-12	0 / 2305	-17.5	-17.5 0.43 (1)	10.00			
12-11	0 / 0	-17.5	-17.5 0.11 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	PSF
DL	23.3	PSF
DL	3.0	PSF

BOT CH.

LL	PSF
DL	0.0
DL	7.0

TOTAL LOAD = 33.3 PSF

SPACING = 24.0 IN./C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.28")
CALCULATED VERT. DEFL.(LL) = L/999 (0.18")
ALLOWABLE DEFL.(TL)= L/360 (1.28")
CALCULATED VERT. DEFL.(TL) = L/999 (0.32")

CSI: TC=0.43 (2-3:1), BC=0.48 (15-16:1), WB=0.56 (2-19:1), SSI=0.20 (7-8:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	
MAX	MIN	MAX	MIN
MT20	618	354	1667
		822	2284
			1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

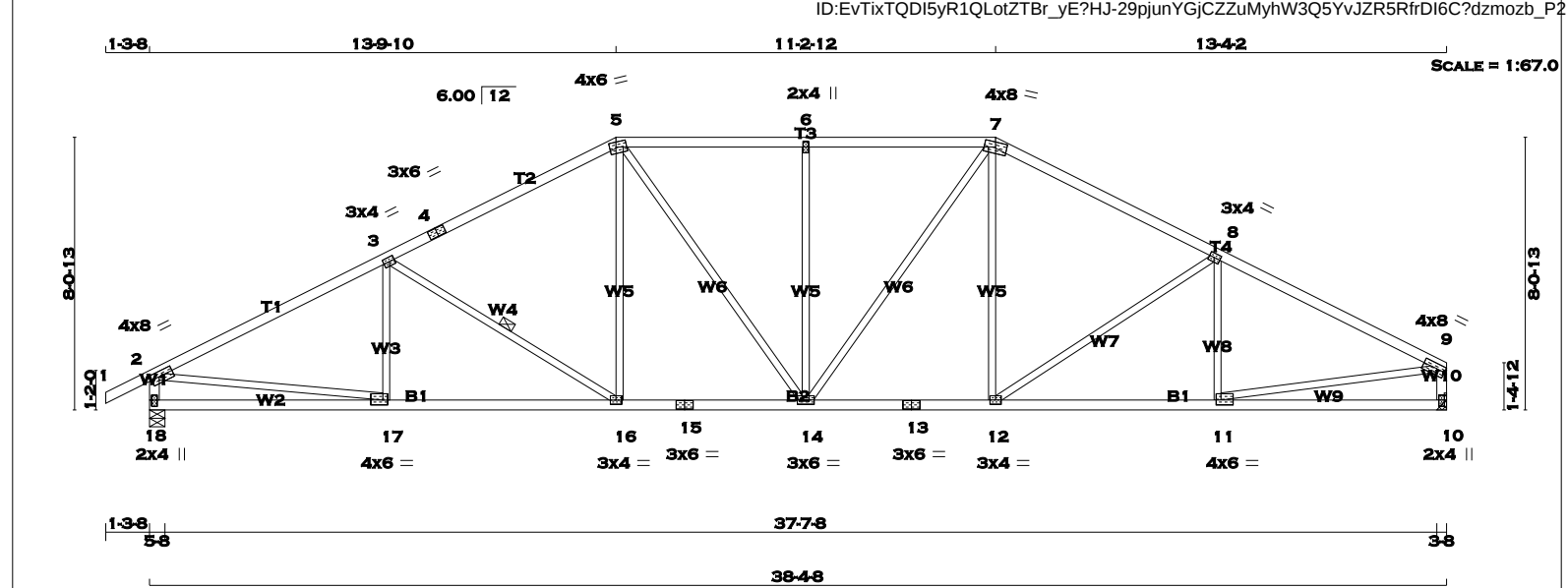
JSI GRIP= 0.89 (15) (INPUT = 0.90)

JSI METAL= 0.62 (19) (INPUT = 1.00)

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TOTAL WEIGHT = 158 LB		[M][F]																																																																																																																																																																																			
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. 1 - 4 2x4 DRY No.2 SPF 4 - 5 2x4 DRY No.2 SPF 5 - 7 2x4 DRY No.2 SPF 7 - 9 2x4 DRY No.2 SPF 18 - 2 2x4 DRY No.2 SPF 10 - 9 2x4 DRY No.2 SPF 18 - 15 2x4 DRY No.2 SPF 15 - 13 2x4 DRY No.2 SPF 13 - 10 2x4 DRY No.2 SPF ALL WEBS 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 18 1925 0 1925 0 0 5-8 5-8 10 1820 0 1820 0 0 HANGER BY OTHERS MIN. SEAT SIZE: 3-8 UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 18 1349 957 / 0 0 / 0 0 / 0 392 / 0 0 / 0 10 1277 893 / 0 0 / 0 0 / 0 384 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 18 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.53 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. 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 3-16. DBS = 20-0-0 . CBF = 64 LBS. DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"x3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12. END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW LOADING TOTAL LOAD CASES: (4) <table><tr><th colspan="4">C H O R D S</th><th colspan="4">W E B S</th></tr><tr><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>FACTORED VERT. LOAD (PLF)</th><th>MAX LC1 MAX CSI (LC)</th><th>MAX. UNBRAC LENGTH</th><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>MAX CSI (LC)</th></tr><tr><td>FR-TO</td><td></td><td>FROM TO</td><td></td><td></td><td>FR-TO</td><td></td><td></td></tr><tr><td>1-2</td><td>0 / 23</td><td>-77.3 -77.3</td><td>0.10 (1)</td><td>10.00</td><td>17-3</td><td>-174 / 65</td><td>0.06 (1)</td></tr><tr><td>2-3</td><td>-2774 / 0</td><td>-77.3 -77.3</td><td>0.71 (1)</td><td>3.53</td><td>3-16</td><td>-511 / 0</td><td>0.23 (1)</td></tr><tr><td>3-4</td><td>-2348 / 0</td><td>-77.3 -77.3</td><td>0.62 (1)</td><td>3.87</td><td>16-5</td><td>0 / 385</td><td>0.09 (1)</td></tr><tr><td>4-5</td><td>-2348 / 0</td><td>-77.3 -77.3</td><td>0.62 (1)</td><td>3.87</td><td>5-14</td><td>0 / 354</td><td>0.08 (1)</td></tr><tr><td>5-6</td><td>-2286 / 0</td><td>-77.3 -77.3</td><td>0.39 (1)</td><td>4.16</td><td>14-6</td><td>-531 / 0</td><td>0.66 (1)</td></tr><tr><td>6-7</td><td>-2286 / 0</td><td>-77.3 -77.3</td><td>0.39 (1)</td><td>4.16</td><td>14-7</td><td>0 / 409</td><td>0.09 (1)</td></tr><tr><td>7-8</td><td>-2313 / 0</td><td>-77.3 -77.3</td><td>0.57 (1)</td><td>3.96</td><td>12-7</td><td>0 / 332</td><td>0.07 (1)</td></tr><tr><td>8-9</td><td>-2628 / 0</td><td>-77.3 -77.3</td><td>0.63 (1)</td><td>3.69</td><td>12-8</td><td>-400 / 0</td><td>0.54 (1)</td></tr><tr><td>18-2</td><td>-1873 / 0</td><td>0.0 0.0</td><td>0.19 (1)</td><td>6.13</td><td>11-8</td><td>-253 / 38</td><td>0.09 (1)</td></tr><tr><td>10-9</td><td>-1770 / 0</td><td>0.0 0.0</td><td>0.18 (1)</td><td>6.27</td><td>2-17</td><td>0 / 2524</td><td>0.57 (1)</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>11-9</td><td>0 / 2405</td><td>0.54 (1)</td></tr><tr><td>18-17</td><td>0 / 0</td><td>-17.5 -17.5</td><td>0.20 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>17-16</td><td>0 / 2506</td><td>-17.5 -17.5</td><td>0.49 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>16-15</td><td>0 / 2079</td><td>-17.5 -17.5</td><td>0.41 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>15-14</td><td>0 / 2079</td><td>-17.5 -17.5</td><td>0.41 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>14-13</td><td>0 / 2047</td><td>-17.5 -17.5</td><td>0.40 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>13-12</td><td>0 / 2047</td><td>-17.5 -17.5</td><td>0.40 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>12-11</td><td>0 / 2374</td><td>-17.5 -17.5</td><td>0.47 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>11-10</td><td>0 / 0</td><td>-17.5 -17.5</td><td>0.19 (4)</td><td>10.00</td><td></td><td></td><td></td></tr></table>		C H O R D S				W E B S				MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)	FR-TO		FROM TO			FR-TO			1-2	0 / 23	-77.3 -77.3	0.10 (1)	10.00	17-3	-174 / 65	0.06 (1)	2-3	-2774 / 0	-77.3 -77.3	0.71 (1)	3.53	3-16	-511 / 0	0.23 (1)	3-4	-2348 / 0	-77.3 -77.3	0.62 (1)	3.87	16-5	0 / 385	0.09 (1)	4-5	-2348 / 0	-77.3 -77.3	0.62 (1)	3.87	5-14	0 / 354	0.08 (1)	5-6	-2286 / 0	-77.3 -77.3	0.39 (1)	4.16	14-6	-531 / 0	0.66 (1)	6-7	-2286 / 0	-77.3 -77.3	0.39 (1)	4.16	14-7	0 / 409	0.09 (1)	7-8	-2313 / 0	-77.3 -77.3	0.57 (1)	3.96	12-7	0 / 332	0.07 (1)	8-9	-2628 / 0	-77.3 -77.3	0.63 (1)	3.69	12-8	-400 / 0	0.54 (1)	18-2	-1873 / 0	0.0 0.0	0.19 (1)	6.13	11-8	-253 / 38	0.09 (1)	10-9	-1770 / 0	0.0 0.0	0.18 (1)	6.27	2-17	0 / 2524	0.57 (1)						11-9	0 / 2405	0.54 (1)	18-17	0 / 0	-17.5 -17.5	0.20 (4)	10.00				17-16	0 / 2506	-17.5 -17.5	0.49 (1)	10.00				16-15	0 / 2079	-17.5 -17.5	0.41 (1)	10.00				15-14	0 / 2079	-17.5 -17.5	0.41 (1)	10.00				14-13	0 / 2047	-17.5 -17.5	0.40 (1)	10.00				13-12	0 / 2047	-17.5 -17.5	0.40 (1)	10.00				12-11	0 / 2374	-17.5 -17.5	0.47 (1)	10.00				11-10	0 / 0	-17.5 -17.5	0.19 (4)	10.00				DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.0 PSF TOTAL LOAD = 33.3 PSF SPACING = 24.0 IN. C/C LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12 THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012, BCBC 2012, ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (1.28") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.16") ALLOWABLE DEFL.(TL)= L/360 (1.28") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.28") CSI: TC=0.71 (2-3:1), BC=0.49 (16-17:1), WB=0.66 (6-14:1), SSI=0.23 (2-3:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) 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 (9) (INPUT = 0.90) JSI METAL= 0.63 (17) (INPUT = 1.00)	
C H O R D S				W E B S																																																																																																																																																																																	
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)																																																																																																																																																																														
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18-2	-1873 / 0	0.0 0.0	0.19 (1)	6.13	11-8	-253 / 38	0.09 (1)																																																																																																																																																																														
10-9	-1770 / 0	0.0 0.0	0.18 (1)	6.27	2-17	0 / 2524	0.57 (1)																																																																																																																																																																														
					11-9	0 / 2405	0.54 (1)																																																																																																																																																																														
18-17	0 / 0	-17.5 -17.5	0.20 (4)	10.00																																																																																																																																																																																	
17-16	0 / 2506	-17.5 -17.5	0.49 (1)	10.00																																																																																																																																																																																	
16-15	0 / 2079	-17.5 -17.5	0.41 (1)	10.00																																																																																																																																																																																	
15-14	0 / 2079	-17.5 -17.5	0.41 (1)	10.00																																																																																																																																																																																	
14-13	0 / 2047	-17.5 -17.5	0.40 (1)	10.00																																																																																																																																																																																	
13-12	0 / 2047	-17.5 -17.5	0.40 (1)	10.00																																																																																																																																																																																	
12-11	0 / 2374	-17.5 -17.5	0.47 (1)	10.00																																																																																																																																																																																	
11-10	0 / 0	-17.5 -17.5	0.19 (4)	10.00																																																																																																																																																																																	

LICENSED PROFESSIONAL ENGINEER
P. M. TREVISAN
100136551
March 14th, 2017
PROVINCE OF ONTARIO

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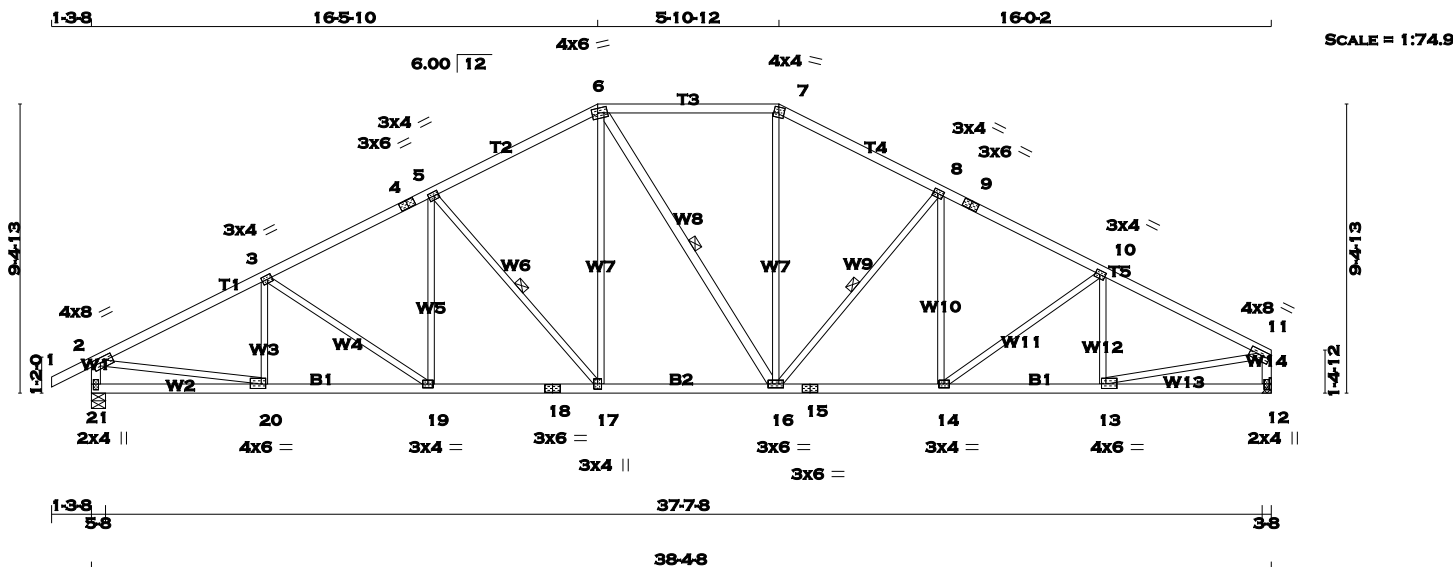
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IN THE DESIGN OF THIS COMPONENT.





LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 7	2x4	DRY	No.2	SPF
7 - 9	2x4	DRY	No.2	SPF
9 - 11	2x4	DRY	No.2	SPF
21 - 2	2x4	DRY	No.2	SPF
12 - 11	2x4	DRY	No.2	SPF
21 - 18	2x4	DRY	No.2	SPF
18 - 15	2x4	DRY	No.2	SPF
15 - 12	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				
6 - 16	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMVW-t	MT20	4.0	8.0	1.75 3.00
3, 5, 8, 10					
3	TMWW-t	MT20	3.0	4.0	1.50 1.75
4	TS-t	MT20	3.0	6.0	
6	TTWW-m	MT20	4.0	6.0	1.75 2.25
7	TTW-m	MT20	4.0	4.0	2.25 2.00
9	TS-t	MT20	3.0	6.0	
11	TMVW-t	MT20	4.0	8.0	1.75 Edge
12	BMV1+p	MT20	2.0	4.0	2.25 1.00
13	BMWW-t	MT20	4.0	6.0	1.75 1.75
14	BMWW-t	MT20	3.0	4.0	
15	BS-t	MT20	3.0	6.0	
16	BMWW-t	MT20	3.0	6.0	
17	BMWW-t	MT20	3.0	4.0	
18	BS-t	MT20	3.0	6.0	
19	BMWW-t	MT20	3.0	4.0	
20	BMWW-t	MT20	4.0	6.0	1.75 1.75
21	BMV1+p	MT20	2.0	4.0	2.25 1.00

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.



DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX		
21		1925	0	1925	0	0	5-8	5-8	
12		1820	0	1820	0	0	HANGER BY OTHERS		
MIN. SEAT SIZE: 3-8									

UNFACTORED REACTIONS							
		1ST LCASE	MAX./MIN. COMPONENT REACTIONS				
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
21		1349	957 / 0	0 / 0	0 / 0	0 / 0	392 / 0
12		1277	893 / 0	0 / 0	0 / 0	0 / 0	384 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 21

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.87 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-17, 6-16, 8-16. DBS = 20-0-0. CBF = 77 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				
		MAX. FACTORED	FACTORED				MAX. FACTORED		
MEMB.		FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX	MAX.	MEMB.	FORCE (LBS)	MAX	(LC)
FROM TO									
FR-TO						FR-TO			
1-2		0 / 23	-77.3	-77.3	0.10 (1)	10.00	20-3	-272 / 10	0.07 (1)
2-3		-2719 / 0	-77.3	-77.3	0.43 (1)	3.87	3-19	-199 / 0	0.16 (1)
3-4		-2552 / 0	-77.3	-77.3	0.35 (1)	4.05	19-5	0 / 206	0.05 (4)
4-5		-2552 / 0	-77.3	-77.3	0.35 (1)	4.05	5-17	-618 / 0	0.30 (1)
5-6		-2120 / 0	-77.3	-77.3	0.34 (1)	4.38	17-6	0 / 566	0.13 (1)
6-7		-1872 / 0	-77.3	-77.3	0.40 (1)	4.49	6-16	-25 / 0	0.02 (1)
7-8		-2105 / 0	-77.3	-77.3	0.32 (1)	4.41	16-7	0 / 543	0.12 (1)
8-9		-2478 / 0	-77.3	-77.3	0.32 (1)	4.13	16-8	-548 / 0	0.26 (1)
9-10		-2478 / 0	-77.3	-77.3	0.32 (1)	4.13	14-8	0 / 147	0.04 (4)
10-11		-2550 / 0	-77.3	-77.3	0.39 (1)	4.01	14-10	-98 / 0	0.08 (1)
21-2		-1881 / 0	0.0	0.0	0.19 (1)	6.12	13-10	-356 / 0	0.09 (1)
12-11		-1778 / 0	0.0	0.0	0.18 (1)	6.26	2-20	0 / 2476	0.56 (1)
							13-11	0 / 2340	0.53 (1)
21-20		0 / 0	-17.5	-17.5	0.12 (4)	10.00			
20-19		0 / 2447	-17.5	-17.5	0.44 (1)	10.00			
19-18		0 / 2283	-17.5	-17.5	0.42 (1)	10.00			
18-17		0 / 2283	-17.5	-17.5	0.42 (1)	10.00			
17-16		0 / 1885	-17.5	-17.5	0.37 (1)	10.00			
16-15		0 / 2216	-17.5	-17.5	0.42 (1)	10.00			
15-14		0 / 2216	-17.5	-17.5	0.42 (1)	10.00			
14-13		0 / 2296	-17.5	-17.5	0.41 (1)	10.00			
13-12		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

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.28")
CALCULATED VERT. DEFL.(LL) = L/999 (0.15")
ALLOWABLE DEFL.(TL)= L/360 (1.28")
CALCULATED VERT. DEFL.(TL) = L/999 (0.27")

CSI: TC=0.43 (2-3:1), BC=0.44 (19-20:1), WB=0.56 (2-20:1), SSI=0.18 (2-3:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES					
PLATE	GRIP(DRY)	SHEAR	SECTION		
	(PSI)	(PLI)	(PSI)	(PLI)	
	MAX	MIN	MAX	MIN	MAX
MT20	618	354	1667	822	2284

PLATE PLACEMENT TOL. = 0.250 inches

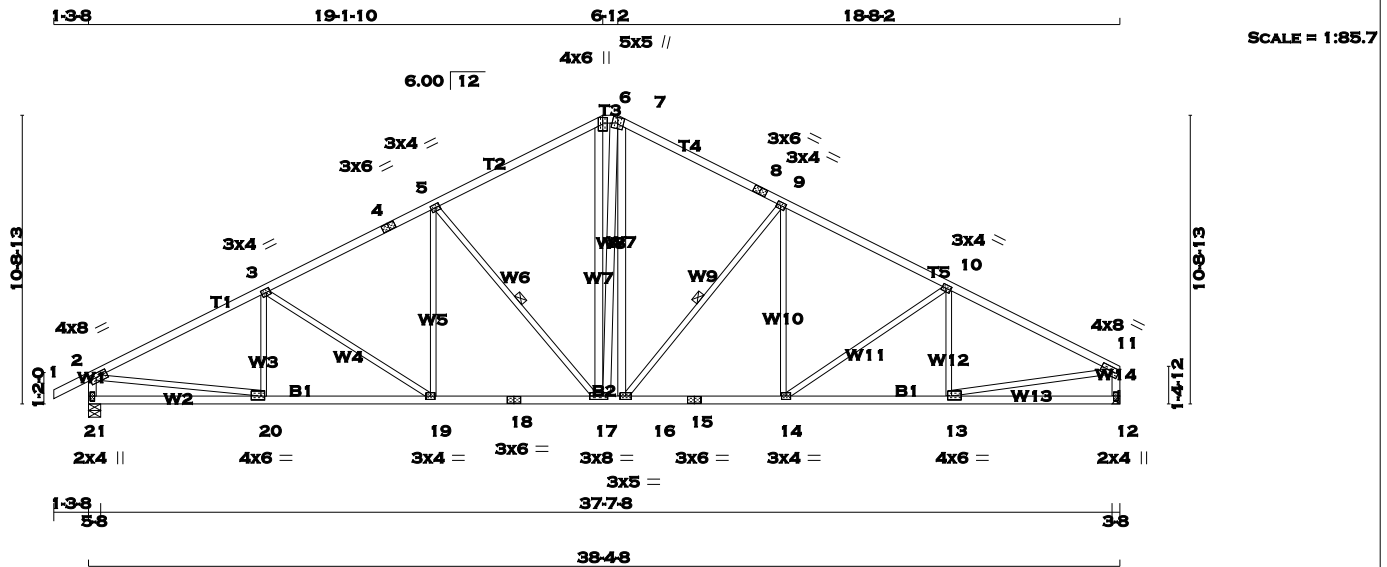
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (11) (INPUT = 0.90)
JSI METAL= 0.61 (20) (INPUT = 1.00)

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TOTAL WEIGHT = 186 lb
[M][F]

LUMBER				N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.	CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	1 - 4	2x4	DRY	No.2
4 - 6	2x4	DRY	No.2	4 - 6	2x4	DRY	No.2
6 - 7	2x4	DRY	No.2	6 - 7	2x4	DRY	No.2
7 - 8	2x4	DRY	No.2	7 - 8	2x4	DRY	No.2
8 - 11	2x4	DRY	No.2	8 - 11	2x4	DRY	No.2
21 - 2	2x4	DRY	No.2	21 - 2	2x4	DRY	No.2
12 - 11	2x4	DRY	No.2	12 - 11	2x4	DRY	No.2
21 - 18	2x4	DRY	No.2	21 - 18	2x4	DRY	No.2
18 - 15	2x4	DRY	No.2	18 - 15	2x4	DRY	No.2
15 - 12	2x4	DRY	No.2	15 - 12	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2	ALL WEBS	2x3	DRY	No.2
EXCEPT				EXCEPT			
17 - 6	2x4	DRY	No.2	17 - 6	2x4	DRY	No.2
17 - 7	2x4	DRY	No.2	17 - 7	2x4	DRY	No.2
16 - 7	2x4	DRY	No.2	16 - 7	2x4	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)						
JT TYPE	PLATES	W	LEN	Y	X	
2 TMVW-t	MT20	4.0	8.0	1.75	3.00	
3, 5, 9, 10						
3 TMWW-t	MT20	3.0	4.0	1.50	1.75	
4 TS-t	MT20	3.0	6.0			
6 TTW+p	MT20	4.0	6.0	2.50	2.00	
7 TTWW+m	MT20	5.0	5.0			
8 TS-t	MT20	3.0	6.0			
11 TMVW-t	MT20	4.0	8.0	1.75	Edge	
12 BMV1+p	MT20	2.0	4.0	2.25	1.00	
13 BMWW-t	MT20	4.0	6.0	1.75	1.75	
14 BMWW-t	MT20	3.0	4.0			
15 BS-t	MT20	3.0	6.0			
16 BMWW-t	MT20	3.0	5.0			
17 BMWW-t	MT20	3.0	8.0			
18 BS-t	MT20	3.0	6.0			
19 BMWW-t	MT20	3.0	4.0			
20 BMWW-t	MT20	4.0	6.0	1.75	1.75	
21 BMV1+p	MT20	2.0	4.0	2.25	1.00	

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.



DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS				FACTORED				MAXIMUM FACTORED				INPUT				REQRD			
GROSS REACTION				GROSS REACTION				GROSS REACTION				GROSS REACTION				GROSS REACTION			
JT	VERT	HORZ		JT	VERT	HORZ		JT	VERT	HORZ		JT	VERT	HORZ		JT	VERT	HORZ	
21	1925	0		21	1925	0		21	1925	0		21	1925	0		21	1925	0	
12	1820	0		12	1820	0		12	1820	0		12	1820	0		12	1820	0	

UNFACTORED REACTIONS							
1ST LCASE				MAX./MIN. COMPONENT REACTIONS			
JT	COMBINED	SNOW	LIVE	JT	COMBINED	SNOW	LIVE
21	1349	957 / 0	0 / 0	21	1349	957 / 0	0 / 0
12	1277	893 / 0	0 / 0	12	1277	893 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 21

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.70 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-17. DBS = 18-0-0. CBF = 86 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 9-16. DBS = 20-0-0. CBF = 89 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"x3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING				TOTAL LOAD CASES: (4)			
C H O R D S				W E B S			
MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD	MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD
FR-TO	FORCE (LBS)	(PLF)	LC1 MAX	FR-TO	FORCE (LBS)	(PLF)	LC1 MAX
1-2	0 / 23	-77.3	-77.3 0.10 (1)	10-11	-2598 / 0	-77.3	-77.3 0.53 (1)
2-3	-2750 / 0	-77.3	-77.3 0.58 (1)	11-12	-1876 / 0	0.0	0.0 0.19 (1)
3-4	-2442 / 0	-77.3	-77.3 0.46 (1)	12-11	-1772 / 0	0.0	0.0 0.18 (1)
4-5	-2442 / 0	-77.3	-77.3 0.46 (1)	21-20	0 / 0	-17.5	-17.5 0.17 (4)
5-6	-1911 / 0	-77.3	-77.3 0.44 (1)	20-19	0 / 2478	-17.5	-17.5 0.47 (1)
6-7	-1680 / 0	-77.3	-77.3 0.03 (1)	19-18	0 / 2184	-17.5	-17.5 0.45 (1)
7-8	-1903 / 0	-77.3	-77.3 0.42 (1)	18-17	0 / 2184	-17.5	-17.5 0.45 (1)
8-9	-1903 / 0	-77.3	-77.3 0.42 (1)	17-16	0 / 1675	-17.5	-17.5 0.37 (1)
9-10	-2387 / 0	-77.3	-77.3 0.44 (1)	16-15	0 / 2135	-17.5	-17.5 0.41 (1)
10-11	-2598 / 0	-77.3	-77.3 0.53 (1)	15-14	0 / 2135	-17.5	-17.5 0.41 (1)
11-12	-1876 / 0	0.0	0.0 0.19 (1)	14-13	0 / 2342	-17.5	-17.5 0.45 (1)
12-11	-1772 / 0	0.0	0.0 0.18 (1)	13-12	0 / 0	-17.5	-17.5 0.16 (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

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.28")
CALCULATED VERT. DEFL.(LL) = L/999 (0.15")
ALLOWABLE DEFL.(TL)= L/360 (1.28")
CALCULATED VERT. DEFL.(TL) = L/999 (0.28")

CSI: TC=0.58 (2-3:1), BC=0.47 (19-20:1), WB=0.56 (2-20:1), SSI=0.21 (2-3:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

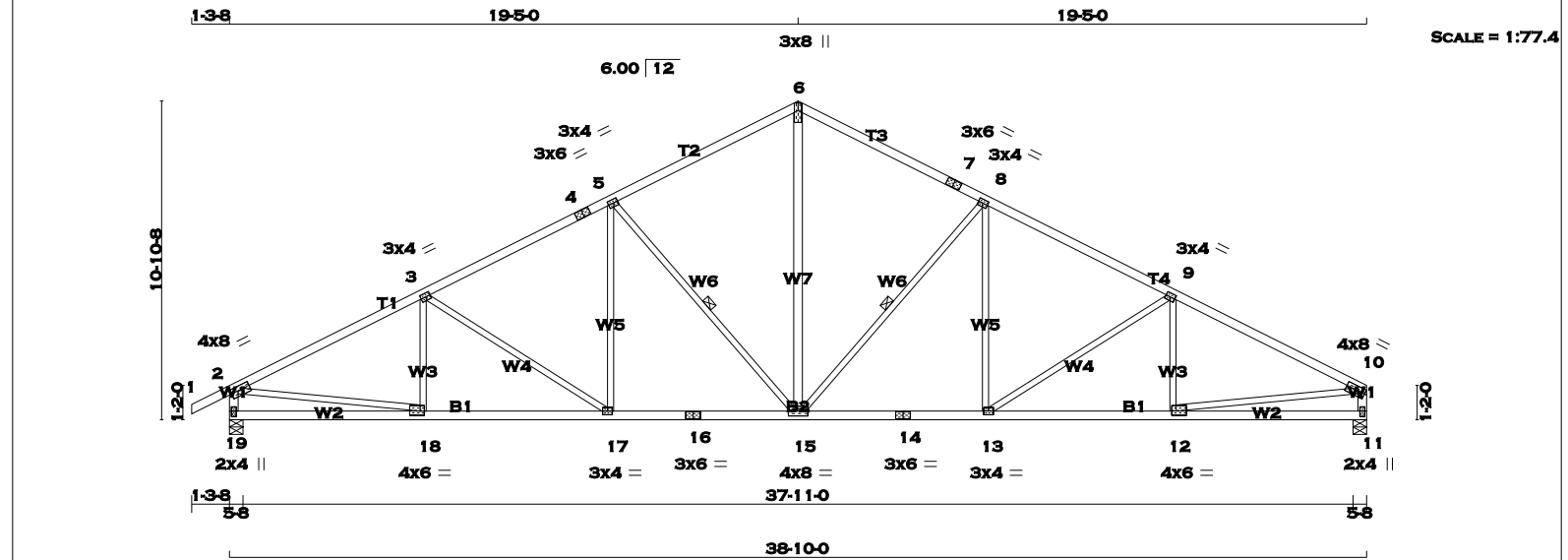
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (5) (INPUT = 0.90)
JSI METAL= 0.62 (15) (INPUT = 1.00)

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TOTAL WEIGHT = 5 X 164 = 822 lb
[M][F]

LUMBER				N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.	CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	1 - 4	2x4	DRY	No.2
4 - 6	2x4	DRY	No.2	4 - 6	2x4	DRY	No.2
6 - 7	2x4	DRY	No.2	6 - 7	2x4	DRY	No.2
7 - 10	2x4	DRY	No.2	7 - 10	2x4	DRY	No.2
19 - 2	2x4	DRY	No.2	19 - 2	2x4	DRY	No.2
11 - 10	2x4	DRY	No.2	11 - 10	2x4	DRY	No.2
19 - 16	2x4	DRY	No.2	19 - 16	2x4	DRY	No.2
16 - 14	2x4	DRY	No.2	16 - 14	2x4	DRY	No.2
14 - 11	2x4	DRY	No.2	14 - 11	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2	ALL WEBS EXCEPT	2x3	DRY	No.2
15 - 6	2x4	DRY	No.2	15 - 6	2x4	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)							
JT	TYPE	PLATES	W	LEN	Y	X	
2	TMVW-t	MT20	4.0	8.0	1.75	3.00	
3, 5, 8, 9							
3	TMWW-t	MT20	3.0	4.0	1.50	1.75	
4	TS-t	MT20	3.0	6.0			
6	TTW+p	MT20	3.0	8.0	Edge		
7	TS-t	MT20	3.0	6.0			
10	TMVW-t	MT20	4.0	8.0	1.75	Edge	
11	BMV1+p	MT20	2.0	4.0	2.25	1.00	
12	BMWW-t	MT20	4.0	6.0	1.75	1.75	
13	BMWW-t	MT20	3.0	4.0			
14	BS-t	MT20	3.0	6.0			
15	BMWWW-t	MT20	4.0	8.0			
16	BS-t	MT20	3.0	6.0			
17	BMWW-t	MT20	3.0	4.0			
18	BMWW-t	MT20	4.0	6.0	1.75	1.75	
19	BMV1+p	MT20	2.0	4.0	2.25	1.00	

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.



DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS				FACTORED				MAXIMUM FACTORED				INPUT				REQRD			
JT	VERT	HORZ		GROSS	REACTION			GROSS	REACTION			BRG				BRG			
19	1947	0		1947	0			1947	0			5-8				5-8			
11	1842	0		1842	0			1842	0			5-8				5-8			

UNFACTORED REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
19	1364	967 / 0	0 / 0	0 / 0	0 / 0	396 / 0	0 / 0
11	1292	904 / 0	0 / 0	0 / 0	0 / 0	388 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 19, 11

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.66 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 8-15, 5-15. DBS = 18-0-0 . CBF = 88 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"x3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC1)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 23	-77.3 -77.3	0.10 (1)	10.00	15-6	0 / 1299	0.21 (1)
2-3	-2790 / 0	-77.3 -77.3	0.61 (1)	3.66	15-8	-783 / 0	0.53 (1)
3-4	-2473 / 0	-77.3 -77.3	0.48 (1)	3.99	13-8	0 / 305	0.07 (1)
4-5	-2473 / 0	-77.3 -77.3	0.48 (1)	3.99	13-9	-360 / 0	0.43 (1)
5-6	-1920 / 0	-77.3 -77.3	0.46 (1)	4.41	12-9	-203 / 47	0.06 (1)
6-7	-1920 / 0	-77.3 -77.3	0.46 (1)	4.41	5-15	-783 / 0	0.53 (1)
7-8	-1920 / 0	-77.3 -77.3	0.46 (1)	4.41	17-5	0 / 305	0.07 (1)
8-9	-2473 / 0	-77.3 -77.3	0.48 (1)	3.99	3-17	-360 / 0	0.43 (1)
9-10	-2790 / 0	-77.3 -77.3	0.61 (1)	3.66	18-3	-203 / 47	0.06 (1)
19-2	-1897 / 0	0.0 0.0	0.19 (1)	6.10	2-18	0 / 2535	0.57 (1)
11-10	-1792 / 0	0.0 0.0	0.18 (1)	6.24	12-10	0 / 2535	0.57 (1)
19-18	0 / 0	-17.5 -17.5	0.17 (4)	10.00			
18-17	0 / 2514	-17.5 -17.5	0.48 (1)	10.00			
17-16	0 / 2212	-17.5 -17.5	0.44 (1)	10.00			
16-15	0 / 2212	-17.5 -17.5	0.44 (1)	10.00			
15-14	0 / 2212	-17.5 -17.5	0.44 (1)	10.00			
14-13	0 / 2212	-17.5 -17.5	0.44 (1)	10.00			
13-12	0 / 2514	-17.5 -17.5	0.48 (1)	10.00			
12-11	0 / 0	-17.5 -17.5	0.17 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 33.3 PSF

SPACING = 24.0 IN./C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.29")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.16")
ALLOWABLE DEFL.(TL)= L/360 (1.29")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.30")

CSI: TC=0.61 (9-10:1) , BC=0.48 (12-13:1) , WB=0.57 (10-12:1) , SSI=0.21 (2-3:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

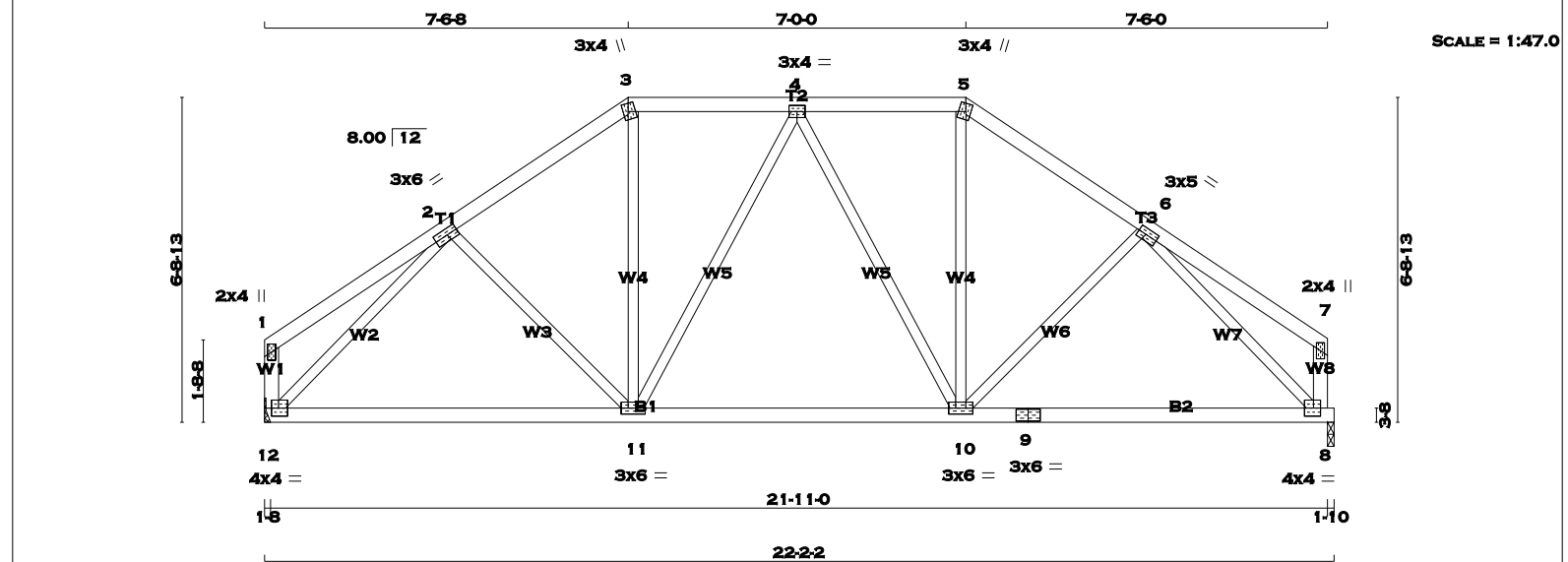
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (6) (INPUT = 0.90)
JSI METAL= 0.63 (12) (INPUT = 1.00)

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TOTAL WEIGHT = 95 lb
[M][F]

LUMBER		N. L. G. A. RULES		LUMBER	DESCR.
CHORDS	SIZE				
1 - 3	2x4	DRY	No.2	SPF	
3 - 5	2x4	DRY	No.2	SPF	
5 - 7	2x4	DRY	No.2	SPF	
12 - 1	2x4	DRY	No.2	SPF	
8 - 7	2x4	DRY	No.2	SPF	
12 - 9	2x4	DRY	No.2	SPF	
9 - 8	2x4	DRY	No.2	SPF	
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	
DRY: SEASONED LUMBER.					

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
1	TMV+p	MT20	2.0	4.0		
2	TMWW-t	MT20	3.0	6.0	1.50	2.75
3	TTW+m	MT20	3.0	4.0	2.00	1.25
4	TMWW-t	MT20	3.0	4.0		
5	TTW+m	MT20	3.0	4.0	2.00	1.25
6	TMWW-t	MT20	3.0	5.0	1.50	2.00
7	TMV+p	MT20	2.0	4.0		
8	BMVW1-t	MT20	4.0	4.0	2.00	1.75
9	BS-t	MT20	3.0	6.0		
10	BMWWW-t	MT20	3.0	6.0		
11	BMWWW-t	MT20	3.0	6.0		
12	BMVW1-t	MT20	4.0	4.0	2.00	1.75

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.



DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ		DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
12	1045	0		1045	0	0	HANGER BY OTHERS		
8	1045	0		1045	0	0	MIN. SEAT SIZE: 1-8		

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
12	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0
8	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.09 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING				TOTAL LOAD CASES: (4)			
CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX. (LC)	MEMB.	FORCE (LBS)	LC1 MAX. (LC)	
FR-TO		FROM	TO	FR-TO		FROM	TO
1-2	0 / 18	-77.3	-77.3 0.17 (1)	10.00	2-11	-41 / 38	0.02 (1)
2-3	-1004 / 0	-77.3	-77.3 0.14 (1)	6.09	11-3	0 / 327	0.07 (1)
3-4	-824 / 0	-77.3	-77.3 0.12 (1)	6.25	11-4	-181 / 0	0.19 (1)
4-5	-822 / 0	-77.3	-77.3 0.12 (1)	6.25	4-10	-186 / 0	0.19 (1)
5-6	-1001 / 0	-77.3	-77.3 0.14 (1)	6.10	10-5	0 / 326	0.07 (1)
6-7	0 / 18	-77.3	-77.3 0.17 (1)	10.00	10-6	-34 / 39	0.02 (1)
12-1	-113 / 0	0.0	0.0 0.01 (1)	7.81	12-2	-1219 / 0	0.58 (1)
8-7	-113 / 0	0.0	0.0 0.01 (1)	7.81	6-8	-1215 / 0	0.57 (1)
12-11	0 / 848	-17.5	-17.5 0.27 (4)	10.00			
11-10	0 / 909	-17.5	-17.5 0.28 (4)	10.00			
10-9	0 / 841	-17.5	-17.5 0.27 (4)	10.00			
9-8	0 / 841	-17.5	-17.5 0.27 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:			
TOP CH.	LL	=	23.3 PSF
	DL	=	3.0 PSF
BOT CH.	LL	=	0.0 PSF
	DL	=	7.0 PSF
TOTAL LOAD = 33.3 PSF			

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.73")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/999 (0.11")

CSI: TC=0.17 (1-2:1), BC=0.28 (10-11:4), WB=0.58 (2-12:1), SSI=0.13 (3-4:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES					
PLATE	GRIP(DRY)	SHEAR	SECTION	(PSI)	(PLI)
	MAX	MIN	MAX	MIN	MAX
MT20	618	354	1667	822	2284

PLATE PLACEMENT TOL. = 0.250 inches

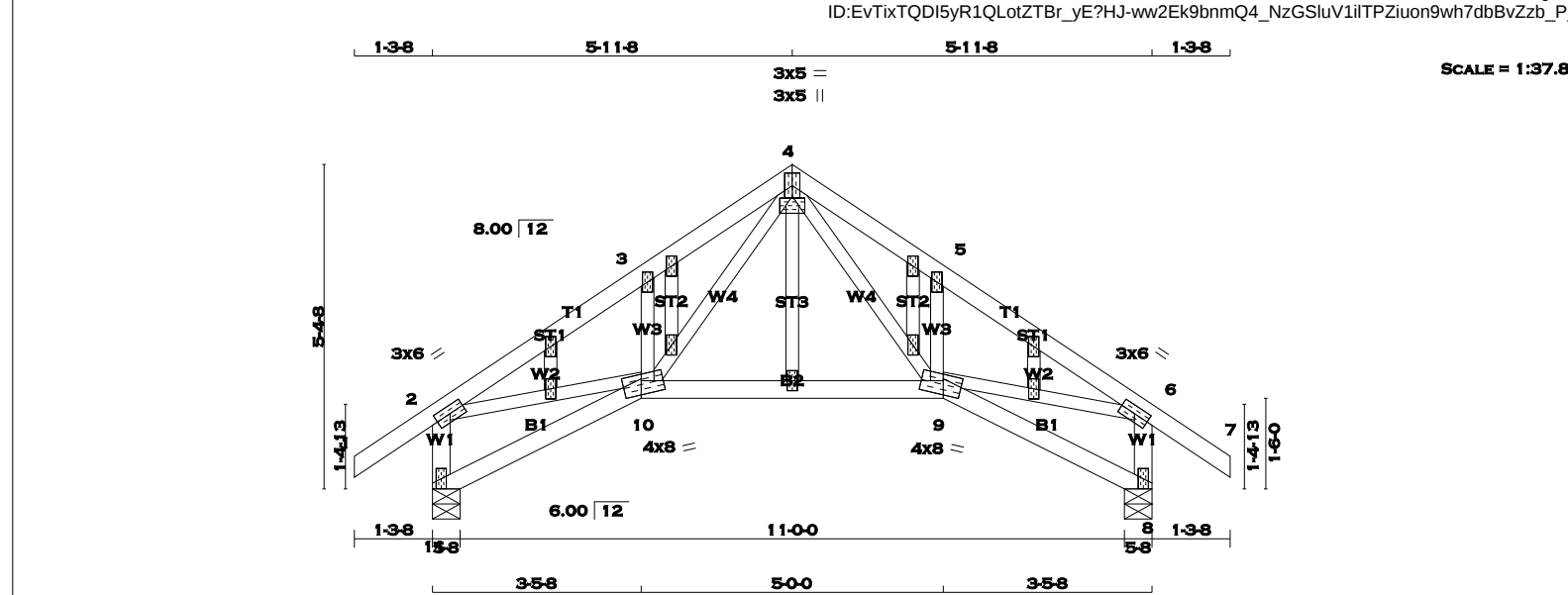
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (6) (INPUT = 0.90)
JSI METAL= 0.35 (6) (INPUT = 1.00)

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 IN THE DESIGN OF THIS COMPONENT.





LUMBER

N. L. G. A. RULES

CHORDS

SIZE

LUMBER

DESCR.

SPF

1 - 4

2x4

DRY

No.2

SPF

4 - 7

2x4

DRY

No.2

SPF

11 - 2

2x4

DRY

No.2

SPF

8 - 6

2x4

DRY

No.2

SPF

11 - 10

2x4

DRY

No.2

SPF

10 - 9

2x4

DRY

No.2

SPF

9 - 8

2x4

DRY

No.2

SPF

ALL WEBS

2x3

DRY

No.2

SPF

EXCEPT

ALL GABLE WEBS

2x3

DRY

No.2

SPF

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2'-0" O.C.

TOTAL WEIGHT = 58 lb

[M][F]

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
11		671	0	671	0	0	5-8	5-8	
8		671	0	671	0	0	5-8	5-8	
UNFACTORED REACTIONS									
		1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
11		469	341 / 0	0 / 0	0 / 0	0 / 0	127 / 0	0 / 0	
8		469	341 / 0	0 / 0	0 / 0	0 / 0	127 / 0	0 / 0	
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 11, 8									
BRACING									
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.									
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.									
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.									
LOADING									
TOTAL LOAD CASES: (4)									
CHORDS					WEBS				
		MAX. FACTORED		FACTORED		MAX. FACTORED		FACTORED	
MEMB.		FORCE	VERT. LOAD	LC1 MAX	MAX.	MEMB.	FORCE	MAX	
		(LBS)	(PLF)	CSI (LC)	UNBRAC		(LBS)	CSI (LC)	
FR-TO		FROM TO		LENGTH		FR-TO			
1-2		0 / 29	-77.3	-77.3	0.10 (1)	10.00	4-9	0 / 546	0.12 (1)
2-3		-917 / 0	-77.3	-77.3	0.12 (1)	6.25	9-5	-277 / 0	0.04 (1)
3-4		-945 / 0	-77.3	-77.3	0.08 (1)	6.25	10-4	0 / 546	0.12 (1)
4-5		-945 / 0	-77.3	-77.3	0.08 (1)	6.25	10-3	-277 / 0	0.04 (1)
5-6		-917 / 0	-77.3	-77.3	0.12 (1)	6.25	2-10	0 / 777	0.17 (1)
6-7		0 / 29	-77.3	-77.3	0.10 (1)	10.00	9-6	0 / 777	0.17 (1)
11-2		-641 / 0	0.0	0.0	0.07 (1)	7.81			
8-6		-641 / 0	0.0	0.0	0.07 (1)	7.81			
11-10		0 / 0	-17.5	-17.5	0.06 (4)	10.00			
10-9		0 / 460	-17.5	-17.5	0.16 (4)	10.00			
9-8		0 / 0	-17.5	-17.5	0.06 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 23.3 PSF

DL = 3.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.0 PSF

TOTAL LOAD = 33.3 PSF

SPACING = 24.0 IN./C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014

- CSA 086-09

- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.40")

CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")

ALLOWABLE DEFL.(TL)= L/360 (0.40")

CALCULATED VERT. DEFL.(TL) = L/ 999 (0.07")

CSI: TC=0.12 (2-3:1) , BC=0.16 (9-10:4) , WB=0.17 (6-9:1) , SSI=0.10 (2-3:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION

(PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.77 (4) (INPUT = 0.90)

JSI METAL= 0.26 (2) (INPUT = 1.00)

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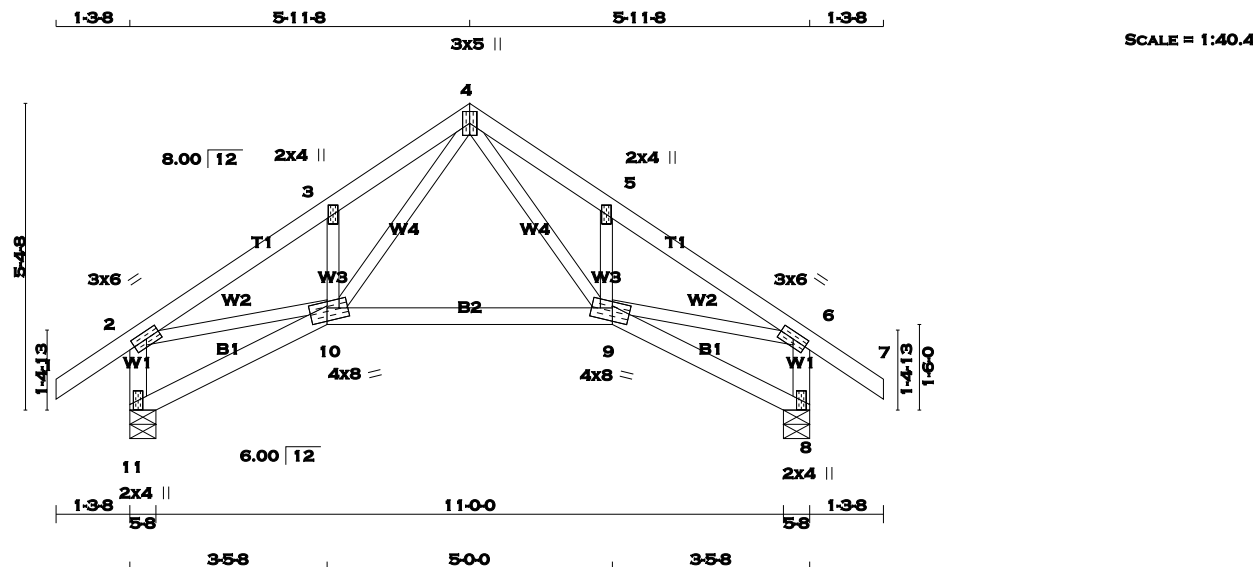
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MAR 29, 2017

17-5233

BUILDING DIVISION

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TOTAL WEIGHT = 52 lb

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2
4 - 7	2x4	DRY	No.2
11 - 2	2x4	DRY	No.2
8 - 6	2x4	DRY	No.2
11 - 10	2x4	DRY	No.2
10 - 9	2x4	DRY	No.2
9 - 8	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
SPF			
DRY: SEASONED LUMBER.			

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMVW-t	MT20	3.0	6.0	
3	TMW+w	MT20	2.0	4.0	
4	TTWW+p	MT20	3.0	5.0	
5	TMW+w	MT20	2.0	4.0	
6	TMVW-t	MT20	3.0	6.0	
8	BMV1+p	MT20	2.0	4.0	
9	BBWWW-m	MT20	4.0	8.0	2.75 3.75
10	BBWWW-m	MT20	4.0	8.0	2.75 3.75
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	
		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
11		671	0	671	0	0	5-8	5-8	
8		671	0	671	0	0	5-8	5-8	

UNFACTORED REACTIONS		1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
11		469	341 / 0	0 / 0	0 / 0	0 / 0	127 / 0	0 / 0	
8		469	341 / 0	0 / 0	0 / 0	0 / 0	127 / 0	0 / 0	

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 11, 8

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING		TOTAL LOAD CASES: (4)							
		CHORDS		WEBS					
		MAX. FACTORED		MAX. FACTORED		MAX. FACTORED		MAX. FACTORED	
		MEMB. FORCE (LBS)		VERT. LOAD LC1 MAX (PLF) CSI (LC)		MEMB. FORCE (LBS)		MAX (PLF) CSI (LC)	
FR-TO				FROM TO		LENGTH FR-TO			
1-2		0 / 29		-77.3	-77.3 0.10 (1)	10.00	4-9	0 / 546	0.12 (1)
2-3		-917 / 0		-77.3	-77.3 0.12 (1)	6.25	9-5	-277 / 0	0.04 (1)
3-4		-945 / 0		-77.3	-77.3 0.08 (1)	6.25	10-4	0 / 546	0.12 (1)
4-5		-945 / 0		-77.3	-77.3 0.08 (1)	6.25	10-3	-277 / 0	0.04 (1)
5-6		-917 / 0		-77.3	-77.3 0.12 (1)	6.25	2-10	0 / 777	0.17 (1)
6-7		0 / 29		-77.3	-77.3 0.10 (1)	10.00	9-6	0 / 777	0.17 (1)
11-2		-641 / 0		0.0	0.0 0.07 (1)	7.81			
8-6		-641 / 0		0.0	0.0 0.07 (1)	7.81			
11-10		0 / 0		-17.5	-17.5 0.06 (4)	10.00			
10-9		0 / 460		-17.5	-17.5 0.16 (4)	10.00			
9-8		0 / 0		-17.5	-17.5 0.06 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 33.3 PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.40")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.40")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.07")

CSI: TC=0.12 (2-3:1) , BC=0.16 (9-10:4) , WB=0.17 (6-9:1) , SSI=0.10 (2-3:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

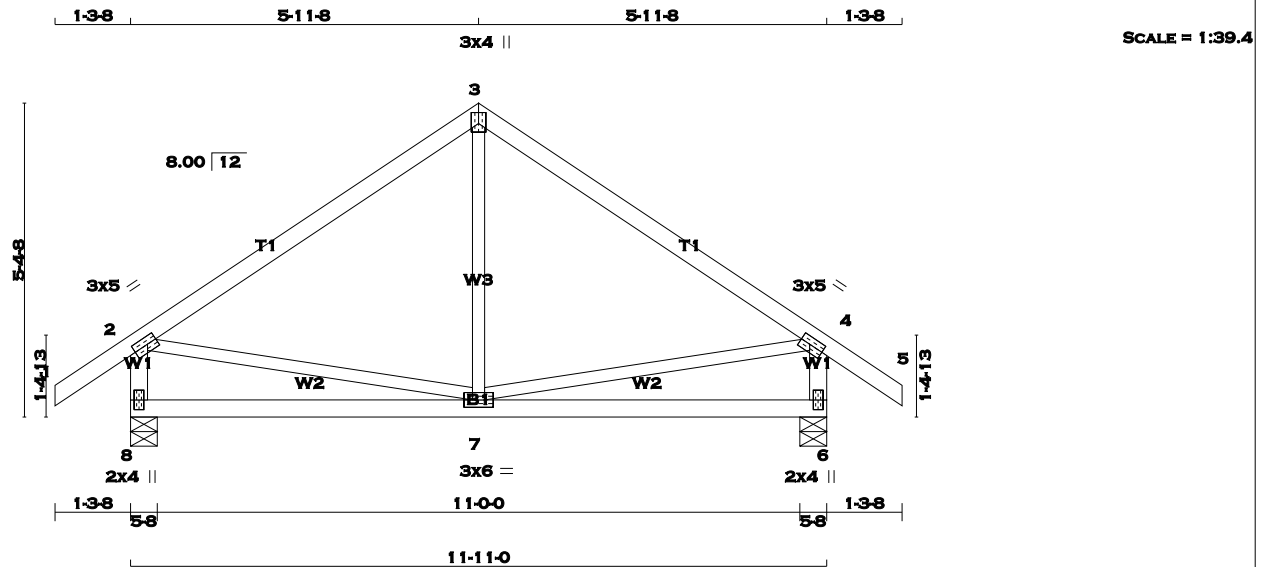
JSI GRIP= 0.77 (4) (INPUT = 0.90)
JSI METAL= 0.26 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 3 X 49 = 147 lb
[M][F]

LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
1 - 3	2x4	DRY	No.2		SPF
3 - 5	2x4	DRY	No.2		SPF
8 - 2	2x4	DRY	No.2		SPF
6 - 4	2x4	DRY	No.2		SPF
8 - 6	2x4	DRY	No.2		SPF
ALL WEBS	2x3	DRY	No.2		SPF
EXCEPT					

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	5.0	1.50	2.00
3	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	BMVWW-t	MT20	3.0	6.0		
8	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
8	671	0	671	0	0	5-8	5-8	
6	671	0	671	0	0	5-8	5-8	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX./MIN. SNOW		LIVE		PERM.LIVE		WIND		DEAD		SOIL	
	8	6	469	341 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	127 / 0	127 / 0	0 / 0	0 / 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. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRAC LENGTH	MEMB.	MAX. FORCE (LBS)	FACTORED MAX	CS1 (LC)	
FR-TO		FROM TO			FR-TO				
1-2	0 / 29	-77.3 -77.3	0.10 (1)	10.00	7-3	0 / 104	0.04 (4)		
2-3	-418 / 0	-77.3 -77.3	0.35 (1)	6.25	2-7	0 / 353	0.08 (1)		
3-4	-418 / 0	-77.3 -77.3	0.35 (1)	6.25	7-4	0 / 353	0.08 (1)		
4-5	0 / 29	-77.3 -77.3	0.10 (1)	10.00					
8-2	-631 / 0	0.0 0.0	0.07 (1)	7.81					
6-4	-631 / 0	0.0 0.0	0.07 (1)	7.81					
8-7	0 / 0	-17.5 -17.5	0.18 (4)	10.00					
7-6	0 / 0	-17.5 -17.5	0.18 (4)	10.00					

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD	=	33.3	PSF	

SPACING = 24.0 IN./C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.40")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.40")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")

CSI: TC=0.35 (2-3:1), BC=0.18 (6-7:4), WB=0.08 (2-7:1), 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
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

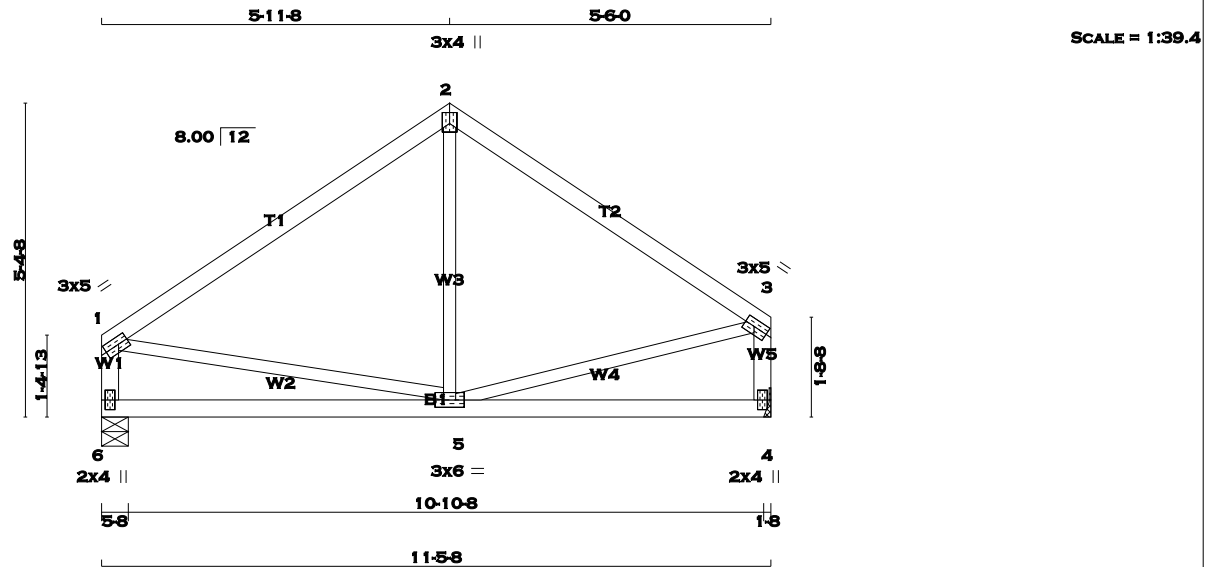
JSI GRIP= 0.76 (7) (INPUT = 0.90)
JSI METAL= 0.18 (4) (INPUT = 1.00)



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TOTAL WEIGHT = 2 X 44 = 89 lb
[M][F]

LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
1 - 2	2x4	DRY	No.2	SPF
2 - 3	2x4	DRY	No.2	SPF
6 - 1	2x4	DRY	No.2	SPF
4 - 3	2x4	DRY	No.2	SPF
6 - 4	2x4	DRY	No.2	SPF
ALL WEBS 2x3 DRY No.2 SPF				
EXCEPT				
DRY: SEASONED LUMBER.				

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	3.0	5.0	1.50	2.00
2	TTW+p	MT20	3.0	4.0	2.25	1.50
3	TMVW-t	MT20	3.0	5.0	1.50	2.00
4	BMV1+p	MT20	2.0	4.0		
5	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		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT		VERT	HORZ	DOWN	UP
6	543	0	543	0	0
4	543	0	543	0	0

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN. SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
6	381	267 / 0	0 / 0	0 / 0	0 / 0	115 / 0	0 / 0
4	381	267 / 0	0 / 0	0 / 0	0 / 0	115 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 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				WEBS			
TOTAL LOAD CASES: (4)							
MEMB.	CHORDS 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	-386 / 0	-77.3	-77.3 0.35 (1)	6-25	5-2	-16 / 94	0.03 (4)
2-3	-385 / 0	-77.3	-77.3 0.30 (1)	6-25	1-5	0 / 326	0.07 (1)
6-1	-500 / 0	0.0	0.0 0.05 (1)	7.81	5-3	0 / 331	0.07 (1)
4-3	-510 / 0	0.0	0.0 0.05 (1)	7.81			
6-5	0 / 0	-17.5	-17.5 0.17 (4)	10.00			
5-4	0 / 0	-17.5	-17.5 0.17 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 33.3 PSF

SPACING = 24.0 IN./C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.38")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.38")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")

CSI: TC=0.35 (1-2:1) , BC=0.17 (4-5:4) , WB=0.07 (3-5:1) , SSI=0.15 (1-2:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES
PLATE GRIP(DRY) 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.

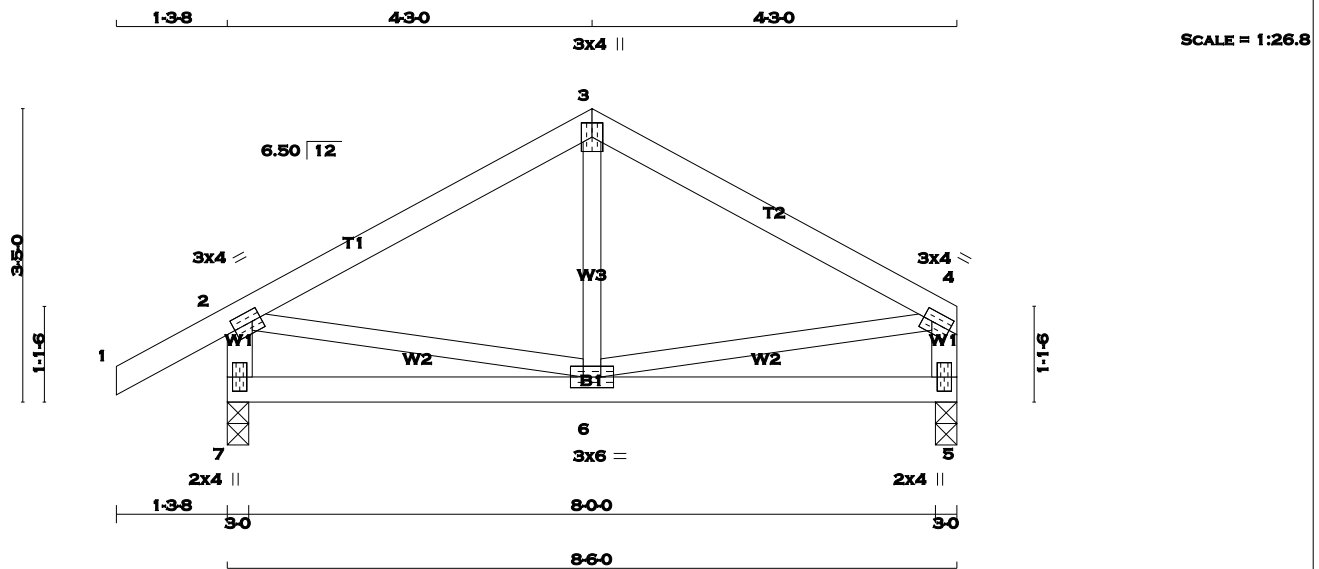
JSI GRIP= 0.70 (5) (INPUT = 0.90)
JSI METAL= 0.15 (1) (INPUT = 1.00)



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TOTAL WEIGHT = 3 X 33 = 99 lb
[M][F]

LUMBER				DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	
1 - 3	2x4	DRY	No.2	SPF
3 - 4	2x4	DRY	No.2	SPF
7 - 2	2x4	DRY	No.2	SPF
5 - 4	2x4	DRY	No.2	SPF
7 - 5	2x4	DRY	No.2	SPF
ALL WEBS 2x3 DRY No.2 EXCEPT				SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	4.0	1.50	1.25
3	TTW+p	MT20	3.0	4.0		
4	TMVW-t	MT20	3.0	4.0	1.50	1.25
5	BMV1+p	MT20	2.0	4.0		
6	BMVWW-t	MT20	3.0	6.0		
7	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
JT									
7		508	0	508	0	0	3-0	3-0	
5		403	0	403	0	0	3-0	3-0	

UNFACTORED REACTIONS

		1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
7		354	261 / 0	0 / 0	0 / 0	0 / 0	93 / 0	0 / 0
5		283	198 / 0	0 / 0	0 / 0	0 / 0	85 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 7, 5

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FORCE (LBS)	FACTORED MAX CSI (LC)
FR-TO		FROM TO			FR-TO		
1-2	0 / 25	-77.3 -77.3	0.10 (1)	10.00	6-3	-18 / 67	0.02 (4)
2-3	-326 / 0	-77.3 -77.3	0.18 (1)	6.25	2-6	0 / 292	0.07 (1)
3-4	-326 / 0	-77.3 -77.3	0.18 (1)	6.25	6-4	0 / 292	0.07 (1)
7-2	-479 / 0	0.0 0.0	0.05 (1)	7.81			
5-4	-374 / 0	0.0 0.0	0.04 (1)	7.81			
7-6	0 / 0	-17.5 -17.5	0.09 (4)	10.00			
6-5	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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.28")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.28")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.18 (3-4:1) , BC=0.09 (6-7:4) , WB=0.07 (2-6:1) , SSI=0.11 (3-4:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES

PLATE	GRIP(DRY)	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.

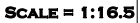
JSI GRIP= 0.70 (2) (INPUT = 0.90)
JSI METAL= 0.17 (2) (INPUT = 1.00)



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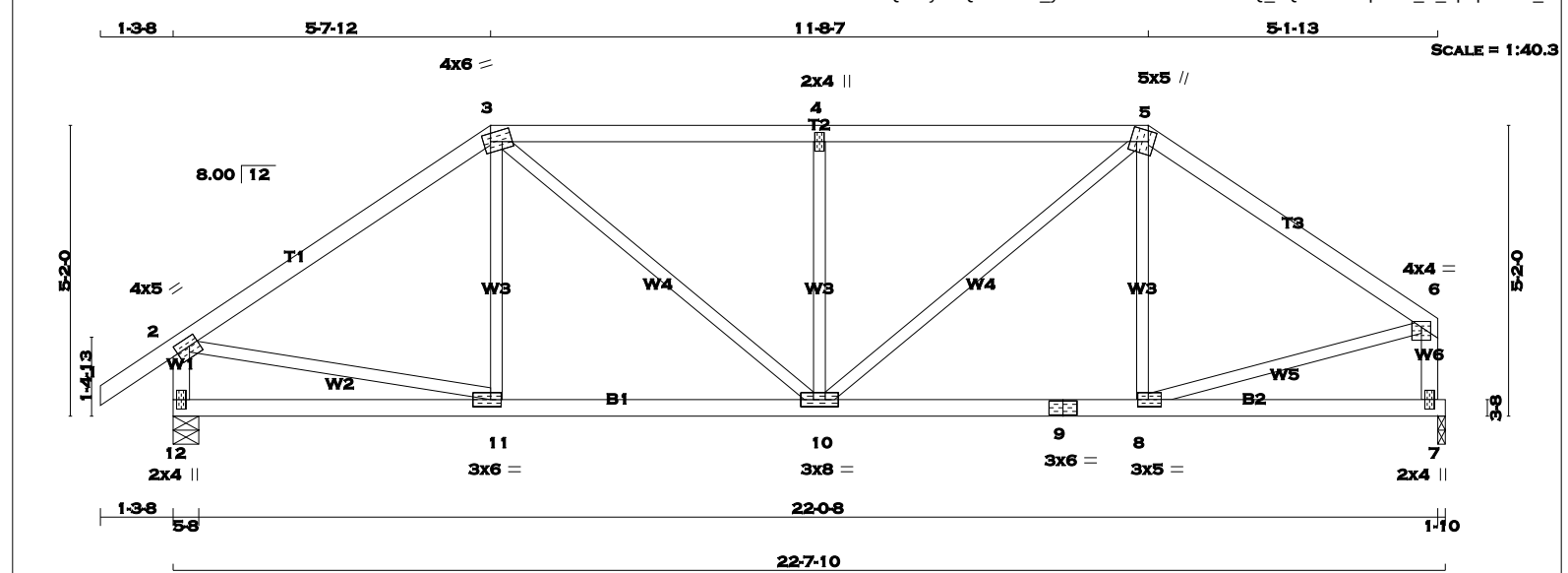
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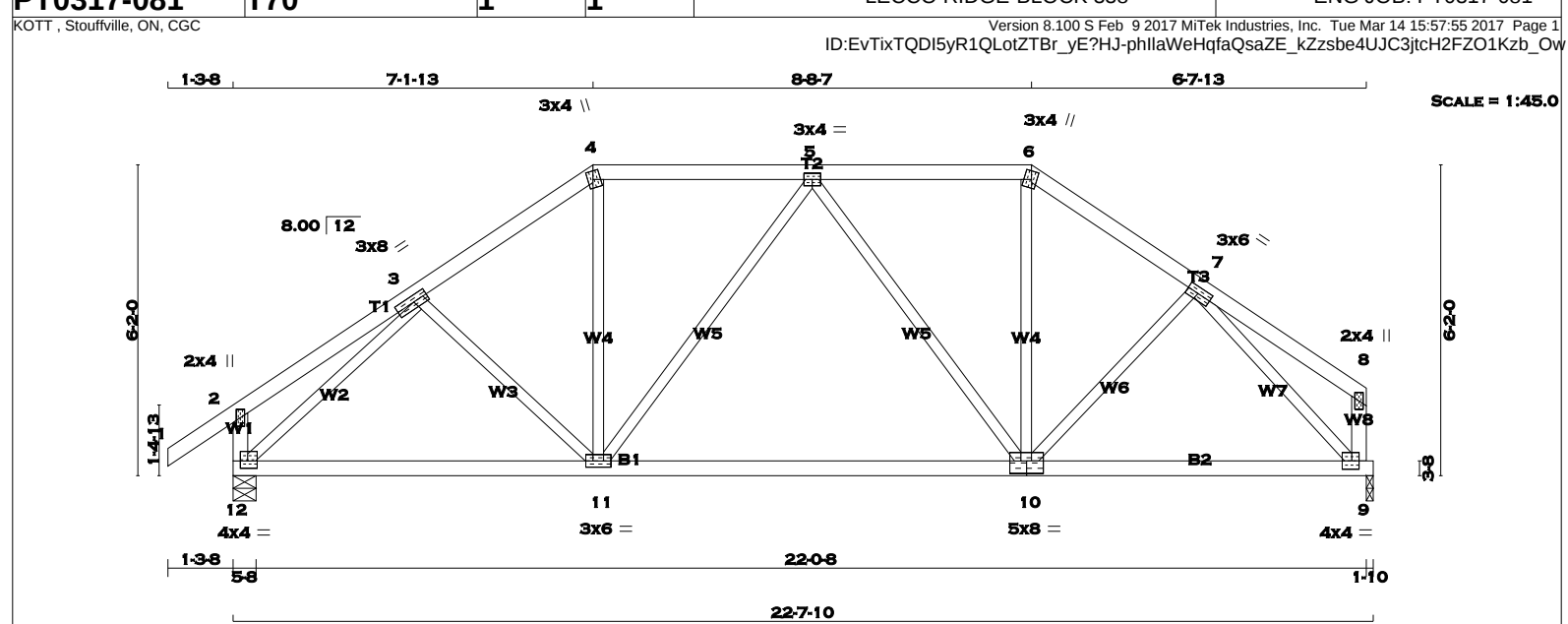


[M]





TOTAL WEIGHT = 90 lb										[M]							
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 - 3 2x4 DRY No.2 SPF				BEARINGS										SPECIFIED LOADS:			
3 - 5 2x4 DRY No.2 SPF				FACTORED MAXIMUM FACTORED INPUT REQD										TOP CH. LL = 23.3 PSF			
5 - 6 2x4 DRY No.2 SPF				GROSS REACTION GROSS REACTION BRG BRG										DL = 3.0 PSF			
12 - 2 2x4 DRY No.2 SPF				JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX										BOT CH. LL = 0.0 PSF			
7 - 6 2x4 DRY No.2 SPF				12 1173 0 1173 0 0 5-8 5-8										DL = 7.0 PSF			
12 - 9 2x4 DRY No.2 SPF				7 1067 0 1067 0 0 1-10 1-10										TOTAL LOAD = 33.3 PSF			
9 - 7 2x4 DRY No.2 SPF																	
ALL WEBS 2x3 DRY No.2 SPF				UNFACTORED REACTIONS										SPACING = 24.0 IN. C/C			
EXCEPT				1ST LCASE MAX./MIN. COMPONENT REACTIONS													
DRY: SEASONED LUMBER.				JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL										LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12			
				12 821 588 / 0 0 / 0 0 / 0 0 / 0 233 / 0 0 / 0										THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010			
				7 749 524 / 0 0 / 0 0 / 0 0 / 0 225 / 0 0 / 0										THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014 - CSA 086-09 - TPIC 2011			
				BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 12, 7										(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD			
				BRACING										ALLOWABLE DEFL.(LL)= L/360 (0.75")			
				TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.99 FT.										CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")			
				MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.										ALLOWABLE DEFL.(TL)= L/360 (0.75")			
				ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.										CALCULATED VERT. DEFL.(TL) = L/ 999 (0.08")			
				LOADING										CSI: TC=0.50 (4-5:1) , BC=0.23 (10-11:1) ,			
				TOTAL LOAD CASES: (4)										WB=0.22 (4-10:1) , SSI=0.22 (3-4:1)			
				CHORDS										DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10			
				MEMB. MAX. FACTORED FORCE (LBS)										COMP=1.10 SHEAR=1.10 TENS= 1.10			
				VERT. LOAD LC1 MAX (PLF)										COMPANION LIVE LOAD FACTOR = 0.50			
				CSI (LC)										TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .			
				UNBRAC LENGTH										NAIL VALUES			
				FR-TO										PLATE GRIP(DRY) SHEAR SECTION			
				1- 2 0 / 29										(PSI) (PLI) (PLI)			
				2- 3 -1135 / 0										MAX MIN MAX MIN MAX MIN			
				3- 4 -1302 / 0										MT20 618 354 1667 822 2284 1656			
				4- 5 -1302 / 0										PLATE PLACEMENT TOL. = 0.250 inches			
				5- 6 -1067 / 0													
				12- 2 -1133 / 0													
				7- 6 -1031 / 0													
				12-11 0 / 0													
				11-10 0 / 942													
				10- 9 0 / 884													
				9- 8 0 / 884													
				8- 7 0 / 0													



TOTAL WEIGHT = 95 lb										[M][F]
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR.										
1 - 4	2x4	DRY	No.2	SPF						
4 - 6	2x4	DRY	No.2	SPF						
6 - 8	2x4	DRY	No.2	SPF						
12 - 2	2x4	DRY	No.2	SPF						
9 - 8	2x4	DRY	No.2	SPF						
12 - 10	2x4	DRY	No.2	SPF						
10 - 9	2x4	DRY	No.2	SPF						
ALL WEBS 2x3 DRY No.2 SPF										
EXCEPT										
DRY: SEASONED LUMBER.										
PLATES (table is in inches)										
JT	TYPE	PLATES	W	LEN	Y	X				
2	TMV+p	MT20	2.0	4.0						
3	TMWW-t	MT20	3.0	8.0	1.50	3.50				
4	TTW+m	MT20	3.0	4.0	2.00	1.25				
5	TMWW-t	MT20	3.0	4.0						
6	TTW+m	MT20	3.0	4.0	2.00	1.25				
7	TMWW-t	MT20	3.0	6.0	1.50	2.75				
8	TMV+p	MT20	2.0	4.0						
9	BMVW1-t	MT20	4.0	4.0	2.00	1.75				
10	BSWWW-l	MT20	5.0	8.0	3.00	4.00				
11	BMWWW-t	MT20	3.0	6.0						
12	BMVW1-t	MT20	4.0	4.0	1.75	1.75				
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.										
DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										
BEARINGS										
		FACTORED		MAXIMUM FACTORED		INPUT		REQRD		
		GROSS REACTION		GROSS REACTION		BRG		BRG		
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX			
12	1173	0	1173	0	0	5-8	5-8			
9	1067	0	1067	0	0	1-10	1-10			
UNFACTORED REACTIONS										
		1ST LCASE		MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL			
12	821	588 / 0	0 / 0	0 / 0	0 / 0	233 / 0	0 / 0			
9	749	524 / 0	0 / 0	0 / 0	0 / 0	225 / 0	0 / 0			
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 12, 9										
BRACING										
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.90 FT.										
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.										
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.										
LOADING										
TOTAL LOAD CASES: (4)										
CHORDS					WEBS					
MEMB.		MAX. FACTORED FORCE (LBS)		FACTORED VERT. LOAD LC1 (PLF)		MAX. UNBRACED LENGTH		MEMB. MAX. FACTORED FORCE (LBS)		
FR-TO		FROM TO		FROM TO		FR-TO		FROM TO		
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	3-11	-47 / 36	0.02 (1)			
2-3	0 / 16	-77.3	-77.3 0.15 (1)	10.00	11-4	0 / 366	0.08 (1)			
3-4	-1105 / 0	-77.3	-77.3 0.13 (1)	5.90	11-5	-222 / 0	0.23 (1)			
4-5	-910 / 0	-77.3	-77.3 0.19 (1)	6.24	5-10	-284 / 0	0.29 (1)			
5-6	-874 / 0	-77.3	-77.3 0.19 (1)	6.25	10-6	0 / 350	0.08 (1)			
6-7	-1061 / 0	-77.3	-77.3 0.11 (1)	6.01	10-7	0 / 55	0.02 (4)			
7-8	0 / 15	-77.3	-77.3 0.12 (1)	10.00	12-3	-1307 / 0	0.51 (1)			
12-2	-214 / 0	0.0	0.0 0.02 (1)	7.81	7-9	-1248 / 0	0.48 (1)			
9-8	-102 / 0	0.0	0.0 0.01 (1)	7.81						
12-11	0 / 938	-17.5	-17.5 0.32 (4)	10.00						
11-10	0 / 1041	-17.5	-17.5 0.33 (4)	10.00						
10-9	0 / 843	-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 6.00/12										
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010										
THIS DESIGN COMPLIES WITH:										
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014										
- CSA 086-09										
- TPIC 2011										
(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD										
ALLOWABLE DEFL.(LL)= L/360 (0.75")										
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")										
ALLOWABLE DEFL.(TL)= L/360 (0.75")										
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11")										
CSI: TC=0.19 (4-5:1) , BC=0.33 (10-11:4) , WB=0.51 (3-12:1) , SSI=0.16 (4-5:1)										
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10										
COMP=1.10 SHEAR=1.10 TENS= 1.10										
COMPANION LIVE LOAD FACTOR = 0.50										
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .										
NAIL VALUES										
PLATE	GRIP(DRY)	SHEAR	SECTION							
	(PSI)	(PLI)	(PLI)							
	MAX MIN	MAX MIN	MAX MIN							
MT20	618 354	1667 822	2284 1656							
PLATE PLACEMENT TOL. = 0.250 inches										

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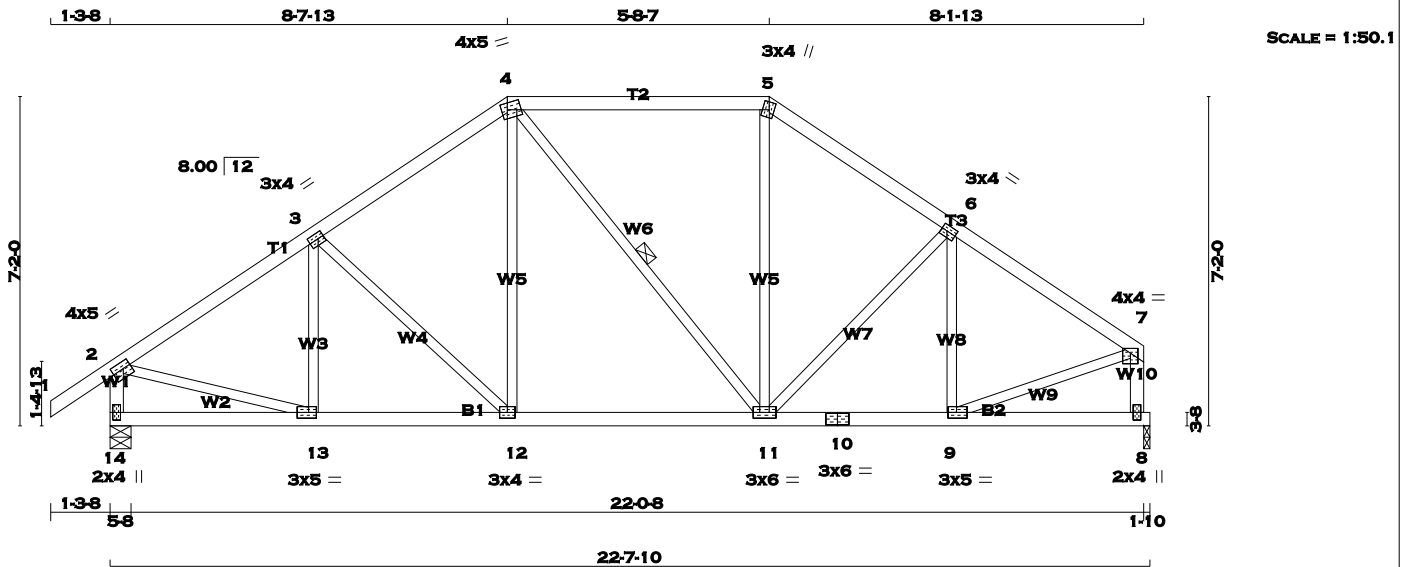
TOWN OF MILTON

MAR 29, 2017

17-5233

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 = 100 lb
[M][F]

LUMBER				DESCR.	
N. L. G. A. RULES		LUMBER	SIZE	SPF	No.2
CHORDS	DRY				
1 - 4	2x4	DRY	No.2	SPF	No.2
4 - 5	2x4	DRY	No.2	SPF	No.2
5 - 7	2x4	DRY	No.2	SPF	No.2
14 - 2	2x4	DRY	No.2	SPF	No.2
8 - 7	2x4	DRY	No.2	SPF	No.2
14 - 10	2x4	DRY	No.2	SPF	No.2
10 - 8	2x4	DRY	No.2	SPF	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	No.2
DRY: SEASONED LUMBER.					

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	5.0	1.75	2.00
3	TMVW-t	MT20	3.0	4.0	1.50	1.50
4	TTWW-m	MT20	4.0	5.0	1.75	1.50
5	TTW+m	MT20	3.0	4.0	2.00	1.25
6	TMVW-t	MT20	3.0	4.0	1.50	1.50
7	TMVW-p	MT20	4.0	4.0	1.25	2.00
8	BMV1+p	MT20	2.0	4.0		
9	BMVW-t	MT20	3.0	5.0	1.50	2.25
10	BS-t	MT20	3.0	6.0		
11	BMVW-t	MT20	3.0	6.0		
12	BMVW-t	MT20	3.0	4.0		
13	BMVW-t	MT20	3.0	5.0	1.50	2.00
14	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
GROSS REACTION		GROSS REACTION		DOWN		BRG		BRG	
JT	VERT	JT	HORZ	JT	UPLIFT	JT	IN-SX	JT	IN-SX
14	1173	0	1173	0	0	5-8	5-8		
8	1067	0	1067	0	0	1-10	1-10		

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	JT	SNOW	JT	LIVE	JT	PERM.LIVE
14	821	588	0	0	0	0	0
8	749	524	0	0	0	0	0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 14, 8

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.69 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-11. DBS = 20-0-0, CBF = 4 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"x3") SPIRAL NAILS: 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING				TOTAL LOAD CASES: (4)			
C H O R D S		F A C T O R E D		W E B S		F A C T O R E D	
MEMB.	MAX. FACTORED	MEMB.	MAX. FACTORED	MEMB.	MAX. FACTORED	MEMB.	MAX. FACTORED
FR-TO	FORCE (LBS)	FR-TO	FORCE (LBS)	FR-TO	FORCE (LBS)	FR-TO	FORCE (LBS)
1-2	0 / 29	1-2	-77.3	13-3	-163 / 21	13-3	0.05 (1)
2-3	-1167 / 0	2-3	-77.3	3-12	-216 / 0	3-12	0.13 (1)
3-4	-1022 / 0	3-4	-77.3	12-4	0 / 236	12-4	0.05 (1)
4-5	-815 / 0	4-5	-77.3	4-11	-30 / 0	4-11	0.02 (1)
5-6	-998 / 0	5-6	-77.3	11-5	0 / 208	11-5	0.05 (1)
6-7	-1067 / 0	6-7	-77.3	11-6	-134 / 0	11-6	0.08 (1)
14-2	-1139 / 0	14-2	0.0	9-6	-234 / 0	9-6	0.07 (1)
8-7	-1035 / 0	8-7	0.0	2-13	0 / 1017	2-13	0.23 (1)
				9-7	0 / 955	9-7	0.21 (1)
14-13	0 / 0	14-13	-17.5				
13-12	0 / 988	13-12	-17.5				
12-11	0 / 834	12-11	-17.5				
11-10	0 / 905	11-10	-17.5				
10-9	0 / 905	10-9	-17.5				
9-8	0 / 0	9-8	-17.5				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 33.3 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.75")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.75")
CALCULATED VERT. DEFL.(TL) = L/999 (0.06")

CSI: TC=0.33 (4-5:1), BC=0.21 (12-13:1), WB=0.23 (2-13:1), SSI=0.17 (4-5:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) 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.

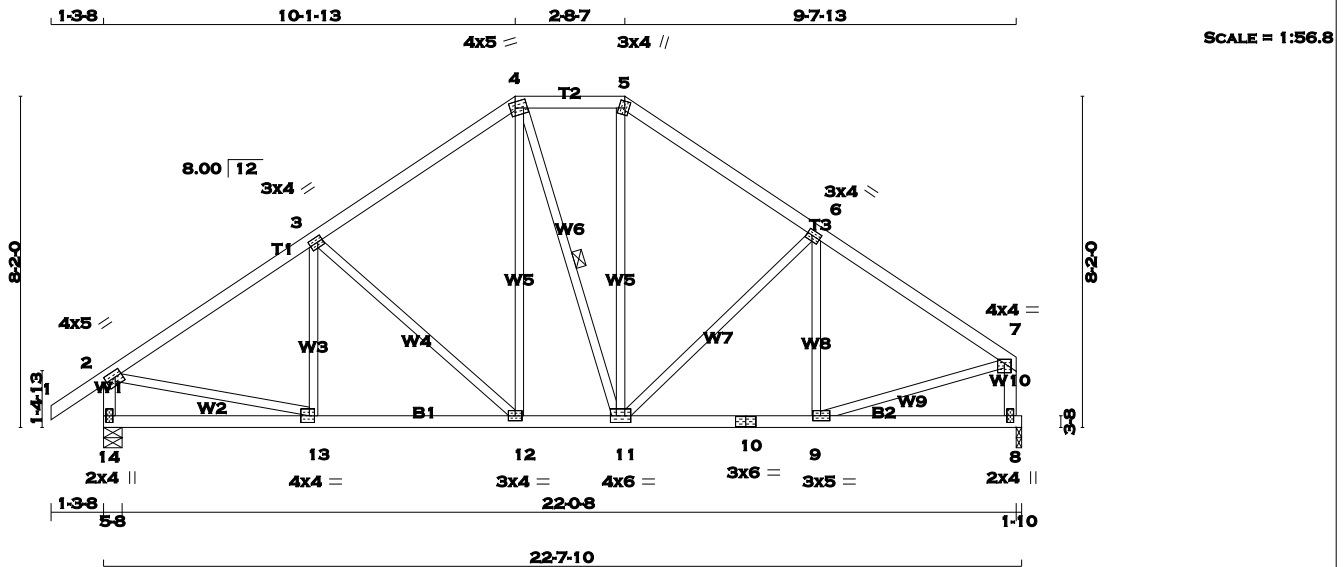
JSI GRIP= 0.88 (9) (INPUT = 0.90)
JSI METAL= 0.40 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 105 lb
[M][F]

LUMBER				DESCR.			
CHORDS	SIZE	LUMBER					
1 - 4	2x4	DRY	No.2	SPF			
4 - 5	2x4	DRY	No.2	SPF			
5 - 7	2x4	DRY	No.2	SPF			
14 - 2	2x4	DRY	No.2	SPF			
8 - 7	2x4	DRY	No.2	SPF			
14 - 10	2x4	DRY	No.2	SPF			
10 - 8	2x4	DRY	No.2	SPF			
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF			
DRY: SEASONED LUMBER.							

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	5.0	1.75	2.00
3	TMVW-t	MT20	3.0	4.0	1.50	1.50
4	TTWW-m	MT20	4.0	5.0	1.75	1.50
5	TTWW-m	MT20	3.0	4.0	2.00	1.25
6	TMVW-t	MT20	3.0	4.0	1.50	1.50
7	TMVW-p	MT20	4.0	4.0	1.25	2.00
8	BMV1+p	MT20	2.0	4.0		
9	BMVW-t	MT20	3.0	5.0	1.50	2.25
10	BS-t	MT20	3.0	6.0		
11	BMVW-t	MT20	4.0	6.0		
12	BMVW-t	MT20	3.0	4.0		
13	BMVW-t	MT20	4.0	4.0	2.00	1.50
14	BMV1+p	MT20	2.0	4.0		
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.						



DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
14		1173	0	1173	0	0	5-8	5-8	
8		1067	0	1067	0	0	1-10	1-10	
UNFACTORED REACTIONS									
		1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
14		821	588 / 0	0 / 0	0 / 0	0 / 0	233 / 0	0 / 0	
8		749	524 / 0	0 / 0	0 / 0	0 / 0	225 / 0	0 / 0	
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 14, 8									
BRACING									
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.57 FT.									
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.									
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.									
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-11. DBS = 20-0-0 . CBF = 3 LBS.									
DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"x3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.									
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW									
LOADING									
TOTAL LOAD CASES: (4)									
		CHORDS		FACTORED		WEBS		FACTORED	
MEMB.		FORCE (LBS)	VERT. LOAD	LC1 MAX	MAX. UNBRAC	MEMB.	FORCE (LBS)	MAX. UNBRAC	
FR-TO			FROM TO	CSI (LC)	LENGTH	FR-TO			
1-2		0 / 29	-77.3	-77.3	0.10 (1)	10.00	13-3	-106 / 56	0.04 (1)
2-3		-1177 / 0	-77.3	-77.3	0.28 (1)	5.57	3-12	-329 / 0	0.28 (1)
3-4		-936 / 0	-77.3	-77.3	0.26 (1)	6.08	12-4	0 / 278	0.06 (1)
4-5		-752 / 0	-77.3	-77.3	0.08 (1)	6.25	4-11	-22 / 0	0.01 (1)
5-6		-926 / 0	-77.3	-77.3	0.24 (1)	6.14	11-5	0 / 260	0.06 (1)
6-7		-1090 / 0	-77.3	-77.3	0.25 (1)	5.77	11-6	-250 / 0	0.21 (1)
14-2		-1136 / 0	0.0	0.0	0.12 (1)	7.45	9-6	-171 / 32	0.06 (1)
8-7		-1031 / 0	0.0	0.0	0.11 (1)	7.73	2-13	0 / 1022	0.23 (1)
							9-7	0 / 965	0.22 (1)
14-13		0 / 0	-17.5	-17.5	0.12 (4)	10.00			
13-12		0 / 1000	-17.5	-17.5	0.22 (1)	10.00			
12-11		0 / 759	-17.5	-17.5	0.15 (1)	10.00			
11-10		0 / 927	-17.5	-17.5	0.20 (1)	10.00			
10-9		0 / 927	-17.5	-17.5	0.20 (1)	10.00			
9-8		0 / 0	-17.5	-17.5	0.10 (4)	10.00			

DESIGN CRITERIA									
SPECIFIED LOADS:									
TOP CH.	LL	=	23.3	PSF					
	DL	=	3.0	PSF					
BOT CH.	LL	=	0.0	PSF					
	DL	=	7.0	PSF					
TOTAL LOAD				=	33.3	PSF			
SPACING = 24.0 IN. C/C									
LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12									
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010									
THIS DESIGN COMPLIES WITH:									
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014									
- CSA 086-09									
- TPIC 2011									
(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD									
ALLOWABLE DEFL.(LL)= L/360 (0.75")									
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")									
ALLOWABLE DEFL.(TL)= L/360 (0.75")									
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.06")									
CSI: TC=0.28 (2-3:1) , BC=0.22 (12-13:1) , WB=0.28 (3-12:1) , SSI=0.16 (2-3:1)									
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10									
COMPANION LIVE LOAD FACTOR = 0.50									
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .									
NAIL VALUES									
PLATE GRIP(DRY)	SHEAR	SECTION							
(PSI)	(PLI)	(PLI)							
MAX MIN	MAX MIN	MAX MIN							
MT20	618	354	1667	822	2284	1656			
PLATE PLACEMENT TOL. = 0.250 inches									
PLATE ROTATION TOL. = 5.0 Deg.									
JSI GRIP= 0.90 (7) (INPUT = 0.90)									
JSI METAL= 0.40 (2) (INPUT = 1.00)									

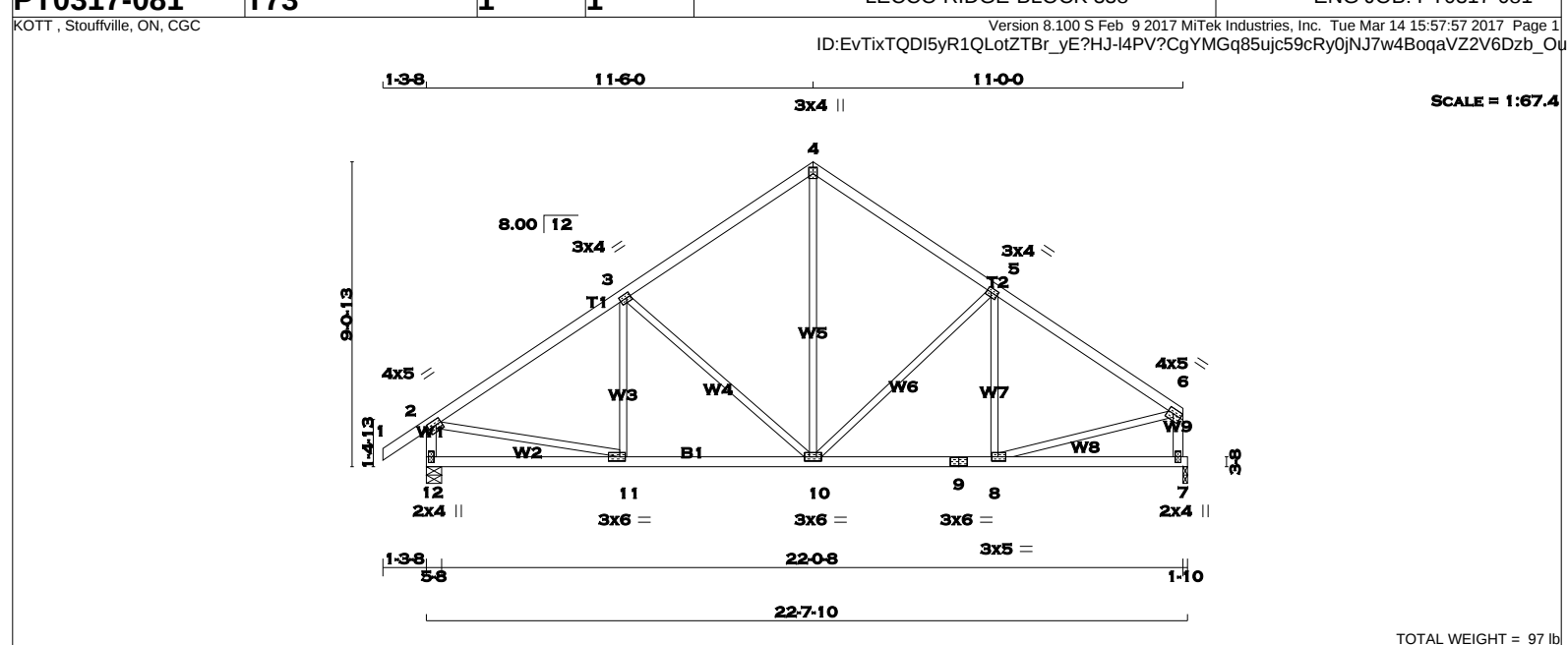
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KOTT , Stouffville, ON, CGC

ENG JOB: PT0317-081



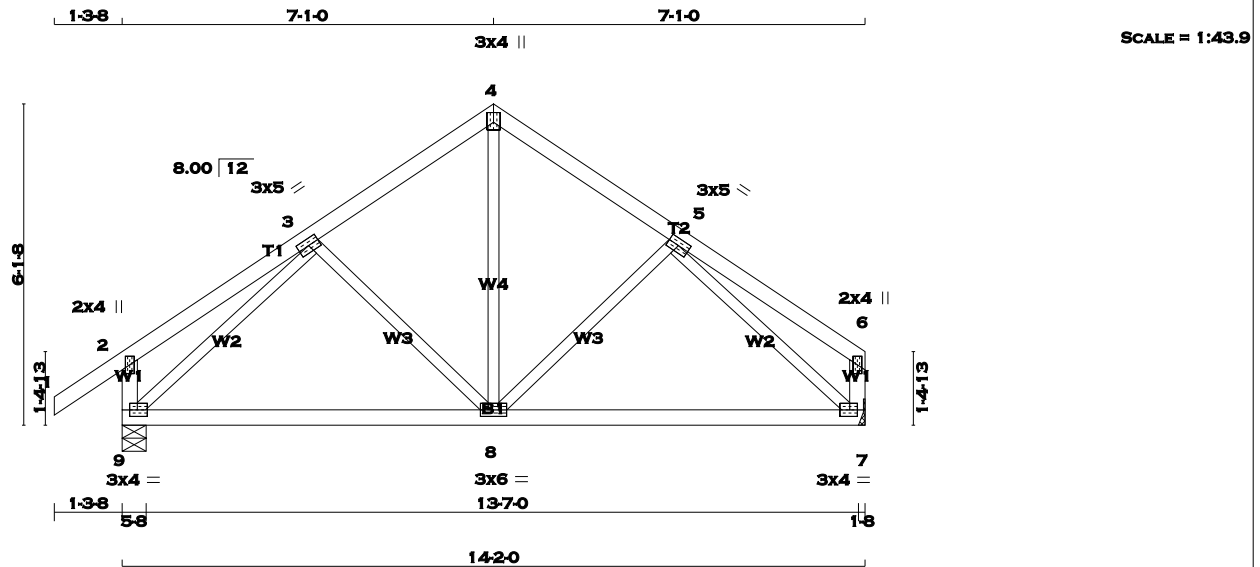
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. 1 - 4 2x4 DRY No.2 SPF 4 - 6 2x4 DRY No.2 SPF 12 - 2 2x4 DRY No.2 SPF 7 - 6 2x4 DRY No.2 SPF 12 - 9 2x4 DRY No.2 SPF 9 - 7 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT DRY: SEASONED LUMBER.										DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS <table><tr><th></th><th>FACTORED GROSS REACTION</th><th>MAXIMUM FACTORED GROSS REACTION</th><th>INPUT BRG</th><th>REQRD BRG</th></tr><tr><th>JT</th><th>VERT</th><th>HORZ</th><th>DOWN</th><th>HORZ</th></tr><tr><td>12</td><td>1173</td><td>0</td><td>1173</td><td>0</td></tr><tr><td>7</td><td>1067</td><td>0</td><td>1067</td><td>0</td></tr></table> UNFACTORED REACTIONS <table><tr><th>JT</th><th>1ST LCASE COMBINED</th><th>SNOW</th><th>LIVE</th><th>PERM.LIVE</th><th>WIND</th><th>DEAD</th><th>SOIL</th></tr><tr><td>12</td><td>821</td><td>588 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>233 / 0</td><td>0 / 0</td></tr><tr><td>7</td><td>749</td><td>524 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>225 / 0</td><td>0 / 0</td></tr></table> BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 12, 7 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.46 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. LOADING TOTAL LOAD CASES: (4) <table><tr><th colspan="4">CHORDS</th><th colspan="4">WEBS</th></tr><tr><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>FACTORED VERT. LOAD (PLF)</th><th>MAX LC1 (LC)</th><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>MAX UNBRAC LENGTH</th><th>MAX CSI (LC)</th></tr><tr><td>FR-TO</td><td></td><td>FROM</td><td>TO</td><td>FR-TO</td><td></td><td></td><td></td></tr><tr><td>1- 2</td><td>0 / 29</td><td>-77.3</td><td>-77.3</td><td>10.00</td><td>11- 3</td><td>-73 / 74</td><td>0.03 (1)</td></tr><tr><td>2- 3</td><td>-1172 / 0</td><td>-77.3</td><td>-77.3</td><td>5.46</td><td>3-10</td><td>-413 / 0</td><td>0.47 (1)</td></tr><tr><td>3- 4</td><td>-860 / 0</td><td>-77.3</td><td>-77.3</td><td>6.15</td><td>10- 4</td><td>0 / 600</td><td>0.14 (1)</td></tr><tr><td>4- 5</td><td>-859 / 0</td><td>-77.3</td><td>-77.3</td><td>6.21</td><td>10- 5</td><td>-340 / 0</td><td>0.37 (1)</td></tr><tr><td>5- 6</td><td>-1097 / 0</td><td>-77.3</td><td>-77.3</td><td>5.65</td><td>8- 5</td><td>-130 / 53</td><td>0.06 (1)</td></tr><tr><td>12- 2</td><td>-1131 / 0</td><td>0.0</td><td>0.0</td><td>7.46</td><td>2-11</td><td>0 / 1017</td><td>0.23 (1)</td></tr><tr><td>7- 6</td><td>-1026 / 0</td><td>0.0</td><td>0.0</td><td>7.74</td><td>8- 6</td><td>0 / 965</td><td>0.22 (1)</td></tr><tr><td>12-11</td><td>0 / 0</td><td>-17.5</td><td>-17.5</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>11-10</td><td>0 / 1000</td><td>-17.5</td><td>-17.5</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>10- 9</td><td>0 / 936</td><td>-17.5</td><td>-17.5</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>9- 8</td><td>0 / 936</td><td>-17.5</td><td>-17.5</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>8- 7</td><td>0 / 0</td><td>-17.5</td><td>-17.5</td><td>10.00</td><td></td><td></td><td></td></tr></table>											FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG	JT	VERT	HORZ	DOWN	HORZ	12	1173	0	1173	0	7	1067	0	1067	0	JT	1ST LCASE COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	12	821	588 / 0	0 / 0	0 / 0	0 / 0	233 / 0	0 / 0	7	749	524 / 0	0 / 0	0 / 0	0 / 0	225 / 0	0 / 0	CHORDS				WEBS				MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX UNBRAC LENGTH	MAX CSI (LC)	FR-TO		FROM	TO	FR-TO				1- 2	0 / 29	-77.3	-77.3	10.00	11- 3	-73 / 74	0.03 (1)	2- 3	-1172 / 0	-77.3	-77.3	5.46	3-10	-413 / 0	0.47 (1)	3- 4	-860 / 0	-77.3	-77.3	6.15	10- 4	0 / 600	0.14 (1)	4- 5	-859 / 0	-77.3	-77.3	6.21	10- 5	-340 / 0	0.37 (1)	5- 6	-1097 / 0	-77.3	-77.3	5.65	8- 5	-130 / 53	0.06 (1)	12- 2	-1131 / 0	0.0	0.0	7.46	2-11	0 / 1017	0.23 (1)	7- 6	-1026 / 0	0.0	0.0	7.74	8- 6	0 / 965	0.22 (1)	12-11	0 / 0	-17.5	-17.5	10.00				11-10	0 / 1000	-17.5	-17.5	10.00				10- 9	0 / 936	-17.5	-17.5	10.00				9- 8	0 / 936	-17.5	-17.5	10.00				8- 7	0 / 0	-17.5	-17.5	10.00				DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.0 PSF TOTAL LOAD = 33.3 PSF SPACING = 24.0 IN. C/C THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (0.75") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03") ALLOWABLE DEFL.(TL)= L/360 (0.75") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.07") CSI: TC=0.36 (2-3:1) , BC=0.23 (10-11:1) , WB=0.47 (3-10:1) , SSI=0.18 (2-3:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 822 2284 1656 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.90 (8) (INPUT = 0.90) JSI METAL= 0.41 (2) (INPUT = 1.00)									
	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG																																																																																																																																																																																													
JT	VERT	HORZ	DOWN	HORZ																																																																																																																																																																																													
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READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 2 X 59 = 119 lb
[M][F]

LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
9 - 2	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
9 - 7	2x4	DRY	No.2	SPF
ALL WEBS 2x3 DRY No.2 SPF				
EXCEPT				

DRY: SEASONED LUMBER.

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
3	TMWW-t	MT20	3.0	5.0		
4	TTW+p	MT20	3.0	4.0	2.25	1.50
5	TMWW-t	MT20	3.0	5.0		
6	TMV+p	MT20	2.0	4.0		
7	BMVW1-t	MT20	3.0	4.0	1.50	1.75
8	BMWW-t	MT20	3.0	6.0		
9	BMVW1-t	MT20	3.0	4.0	1.50	1.75

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	GROSS REACTION	DOWN	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
9	778	0	778	0	0	5-8	5-8		
7	672	0	672	0	0	HANGER BY OTHERS			
MIN. SEAT SIZE: 1-8									

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
9	544	394 / 0	0 / 0	0 / 0	0 / 0	150 / 0	0 / 0
7	472	330 / 0	0 / 0	0 / 0	0 / 0	142 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 9

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 29	-77.3 -77.3	0.10 (1)	10.00	8-4	0 / 357	0.08 (1)
2-3	0 / 17	-77.3 -77.3	0.15 (1)	10.00	8-5	-147 / 6	0.06 (1)
3-4	-531 / 0	-77.3 -77.3	0.12 (1)	6.25	3-8	-147 / 6	0.06 (1)
4-5	-531 / 0	-77.3 -77.3	0.12 (1)	6.25	9-3	-744 / 0	0.29 (1)
5-6	0 / 17	-77.3 -77.3	0.15 (1)	10.00	5-7	-744 / 0	0.29 (1)
9-2	-212 / 0	0.0 0.0	0.02 (1)	7.81			
7-6	-106 / 0	0.0 0.0	0.01 (1)	7.81			
9-8	0 / 533	-17.5 -17.5	0.29 (4)	10.00			
8-7	0 / 533	-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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.47")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.47")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.06")

CSI: TC=0.15 (2-3:1), BC=0.29 (8-9:4), WB=0.29 (3-9:1), SSI=0.11 (3-4:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

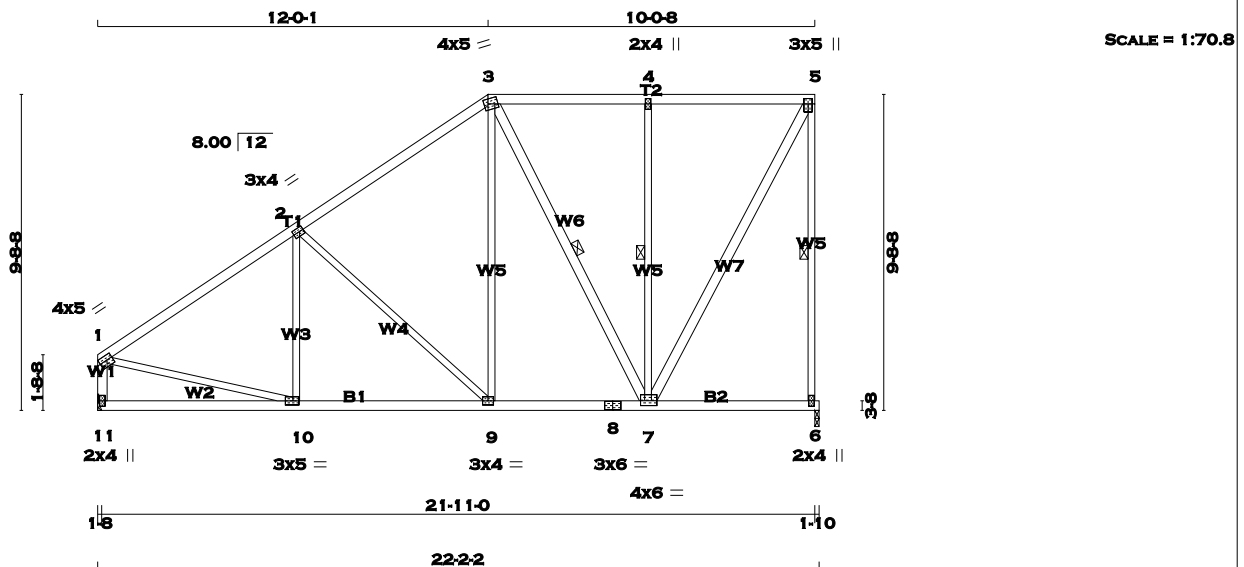
JSI GRIP= 0.82 (5) (INPUT = 0.90)
JSI METAL= 0.21 (3) (INPUT = 1.00)



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 CONTAINS SPECIFICATIONS AND CRITERIA USED
 IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 116 lb
[M][F]

LUMBER					N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.		CHORDS	SIZE	LUMBER	DESCR.	
1 - 3	2x4	DRY	No.2	SPF	1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF	3 - 5	2x4	DRY	No.2	SPF
6 - 5	2x3	DRY	No.2	SPF	6 - 5	2x3	DRY	No.2	SPF
11 - 1	2x4	DRY	No.2	SPF	11 - 1	2x4	DRY	No.2	SPF
11 - 8	2x4	DRY	No.2	SPF	11 - 8	2x4	DRY	No.2	SPF
8 - 6	2x4	DRY	No.2	SPF	8 - 6	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF	ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT					EXCEPT				
3 - 7	2x4	DRY	No.2	SPF	3 - 7	2x4	DRY	No.2	SPF
7 - 5	2x4	DRY	No.2	SPF	7 - 5	2x4	DRY	No.2	SPF
DRY: SEASONED LUMBER.									

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
1	TMVW-t	MT20	4.0	5.0	1.75 Edge
2	TMVW-t	MT20	3.0	4.0	1.50 1.50
3	TTWW-m	MT20	4.0	5.0	1.75 1.50
4	TMVW-w	MT20	2.0	4.0	
5	TMVW-p	MT20	3.0	5.0	2.00 1.50
6	BMV1-p	MT20	2.0	4.0	
7	BMVWVW-t	MT20	4.0	6.0	1.75 1.50
8	BS-t	MT20	3.0	6.0	
9	BMVWVW-t	MT20	3.0	4.0	
10	BMVWVW-t	MT20	3.0	5.0	1.50 2.25
11	BMV1-p	MT20	2.0	4.0	

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS				FACTORED				MAXIMUM FACTORED				INPUT				REQRD			
				GROSS REACTION				GROSS REACTION				BRG				BRG			
				DOWN				DOWN				IN-SX				IN-SX			
				HORIZ				HORIZ				HORIZ				HORIZ			
JT	6	1045	0	1045	0	0	0	1045	0	0	0	1-10	1-10	1-10	1-10	1-10	1-10	1-10	1-10
JT	11	1045	0	1045	0	0	0	1045	0	0	0	HANGER BY OTHERS				MIN. SEAT SIZE: 1-8			

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS		PERM.LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	JT	COMBINED	SNOW	LIVE
6	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0	6	734	513 / 0	0 / 0
11	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0	11	734	513 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.60 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-6. DBS = 14-0-0 . CBF = 88 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 3-7, 4-7. DBS = 20-0-0 . CBF = 60 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"x3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING

TOTAL LOAD CASES: (4)

C H O R D S				W E B S			
MAX. FACTORED				MAX. FACTORED			
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX	MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX
FR-TO		FROM TO	CSI (LC)	FR-TO		FROM TO	CSI (LC)
1-2	-1074 / 0	-77.3	-77.3 0.39 (1)	10-2	-88 / 76	0.05 (1)	
2-3	-763 / 0	-77.3	-77.3 0.37 (1)	2-9	-421 / 0	0.59 (1)	
3-4	-465 / 0	-77.3	-77.3 0.25 (1)	6-25	0 / 373	0.08 (1)	
4-5	-465 / 0	-77.3	-77.3 0.25 (1)	3-7	-316 / 0	0.19 (1)	
6-5	-1008 / 0	0.0	0.0 0.64 (1)	7-4	-480 / 0	0.30 (1)	
11-1	-1002 / 0	0.0	0.0 0.11 (1)	7-5	0 / 974	0.16 (1)	
				1-10	0 / 943	0.21 (1)	
11-10	0 / 0	-17.5	-17.5 0.16 (4)	10-9	0 / 919	-17.5	-17.5 0.23 (1)
10-9	0 / 919	-17.5	-17.5 0.23 (1)	9-8	0 / 612	-17.5	-17.5 0.15 (1)
9-8	0 / 612	-17.5	-17.5 0.15 (1)	8-7	0 / 612	-17.5	-17.5 0.15 (1)
8-7	0 / 612	-17.5	-17.5 0.15 (1)	7-6	0 / 0	-17.5	-17.5 0.10 (4)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP	CH.	LL	=	23.3	PSF
		DL	=	3.0	PSF
BOT	CH.	LL	=	0.0	PSF
		DL	=	7.0	PSF
TOTAL LOAD				=	33.3 PSF

SPACING = 24.0 IN./C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.73")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.07")

CSI: TC=0.64 (5-6:1) , BC=0.23 (9-10:1) , WB=0.59 (2-9:1) , SSI=0.19 (4-5:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES		GRIP(DRY)		SHEAR		SECTION	
PLATE	(PSI)	(PLI)	(PLI)	MAX	MIN	MAX	MIN
MT20	618	354	1667	822	2284	1656	

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

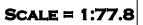
JSI GRIP= 0.88 (10) (INPUT = 0.90)
JSI METAL= 0.36 (1) (INPUT = 1.00)



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READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

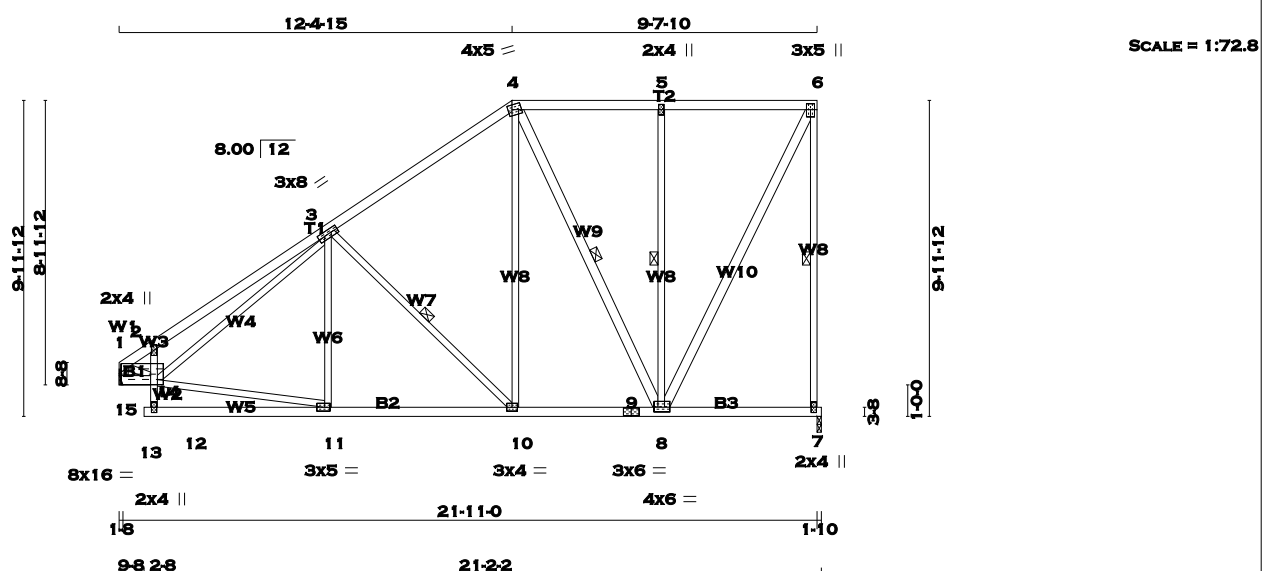




[M][F]

JSI GRIP= 0.90 (8) (INPUT = 0.90)
JSI METAL= 0.25 (14) (INPUT = 1.00)





TOTAL WEIGHT = 124 lb

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
1 - 4	2x4	DRY	No.2
4 - 6	2x4	DRY	No.2
7 - 6	2x3	DRY	No.2
15 - 1	2x4	DRY	No.2
15 - 14	2x4	DRY	No.2
13 - 9	2x4	DRY	No.2
9 - 7	2x4	DRY	No.2
ALL WEBS 2x3 DRY No.2			
EXCEPT			
4 - 8	2x4	DRY	No.2
8 - 6	2x4	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
1	14, 15				
2	TMW+w	MT20	2.0	4.0	
3	TMWWV-t	MT20	3.0	8.0	
4	TTWW-m	MT20	4.0	5.0	1.75 1.50
5	TMW+w	MT20	2.0	4.0	
6	TMVW+p	MT20	3.0	5.0	2.25 1.50
7	BMV1+p	MT20	2.0	4.0	
8	BMWWV-t	MT20	4.0	6.0	1.75 1.50
9	BS-t	MT20	3.0	6.0	
10	BMWW-t	MT20	3.0	4.0	
11	BMWW-t	MT20	3.0	5.0	1.50 2.00
12	BMW+w	MT20	2.0	4.0	
14	TMBVWWWWV	MT20	8.0	16.0	3.50 11.25

A SIZE FOR SIZE SUBSTITUTION OF MITTEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS				FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
GROSS REACTION		GROSS REACTION		DOWN		UP		BRG		BRG	
JT	VERT	HORZ	JT	VERT	HORZ	JT	VERT	JT	VERT	JT	VERT
7	1046	0	1046	0	0	1-10	1-10				
15	1049	0	1049	0	0	HANGER BY OTHERS MIN. SEAT SIZE: 1-8					

UNFACTORED REACTIONS							
JT	1ST CASE	2ND CASE	3RD CASE	4TH CASE	5TH CASE	6TH CASE	7TH CASE
7	734	513 / 0	0 / 0	0 / 0	0 / 0	221 / 0	0 / 0
15	737	513 / 0	0 / 0	0 / 0	0 / 0	224 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 7

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.52 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

MAX. UNBRACED INTERIOR CHORD LENGTH = 7.81 FT.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 6-7. DBS = 14-0-0 . CBF = 88 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 3-10, 4-8, 5-8. DBS = 20-0-0 . CBF = 58 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 (LBS)	FACTORED LC1 MAX (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	FACTORED LC1 MAX (LBS)
FR-TO				FR-TO			
1-2	-1212 / 0	-77.3	-77.3 0.11 (1)	5-7	14-11	0 / 844	0.19 (1)
2-3	-1169 / 0	-77.3	-77.3 0.33 (1)	5-8	14-3	0 / 121	0.03 (1)
3-4	-732 / 0	-77.3	-77.3 0.33 (1)	5-9	11-3	-35 / 85	0.03 (4)
4-5	-438 / 0	-77.3	-77.3 0.23 (1)	5-10	3-10	-432 / 0	0.20 (1)
5-6	-438 / 0	-77.3	-77.3 0.23 (1)	5-11	10-4	0 / 389	0.09 (1)
7-6	-1009 / 0	0.0	0.0 0.68 (1)	5-12	4-8	-347 / 0	0.21 (1)
15-1	-1040 / 0	0.0	0.0 0.10 (1)	5-13	8-5	-460 / 0	0.31 (1)
				5-14	8-6	0 / 967	0.16 (1)
15-14	0 / 0	-17.5	-17.5 0.01 (4)	12-14	0 / 49	0.18 (1)	
13-12	0 / 0	-17.5	-17.5 0.00 (4)	10-10	14-2	-270 / 0	0.13 (1)
12-11	0 / 66	-17.5	-17.5 0.15 (4)	10-11	1-14	0 / 1121	0.25 (1)
11-10	0 / 897	-17.5	-17.5 0.22 (1)				
10-9	0 / 590	-17.5	-17.5 0.14 (1)				
9-8	0 / 590	-17.5	-17.5 0.14 (1)				
8-7	0 / 0	-17.5	-17.5 0.09 (4)				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP	CH.	LL	PSF
	DL	= 3.0	PSF
BOT	CH.	LL	PSF
	DL	= 7.0	PSF
TOTAL LOAD = 33.3 PSF			

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
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(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.73")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.07")

CSI: TC=0.68 (6-7:1), BC=0.22 (10-11:1), WB=0.31 (5-8:1), SSI=0.18 (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

AUTOSOLVE RIGHT HEEL ONLY

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

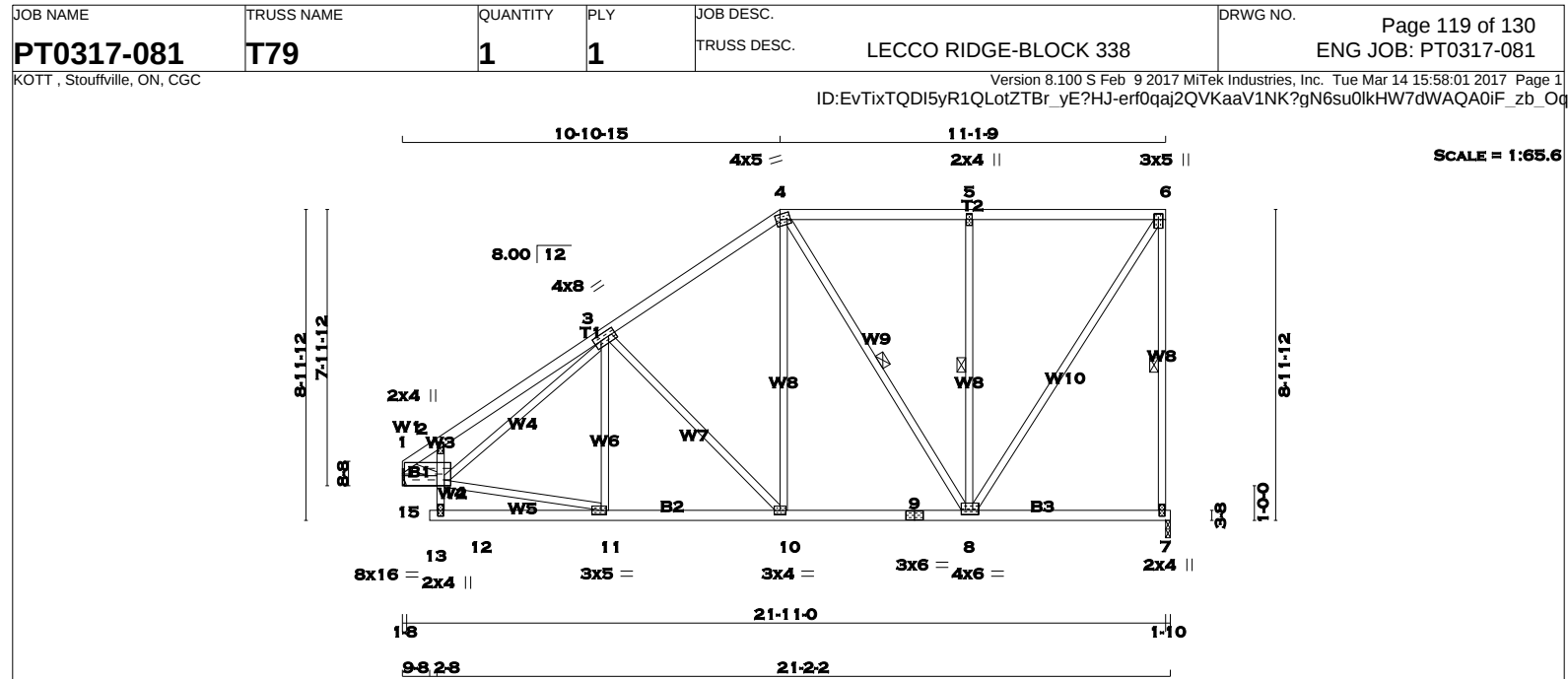
JSI GRIP= 0.90 (6) (INPUT = 0.90)
JSI METAL= 0.25 (11) (INPUT = 1.00)



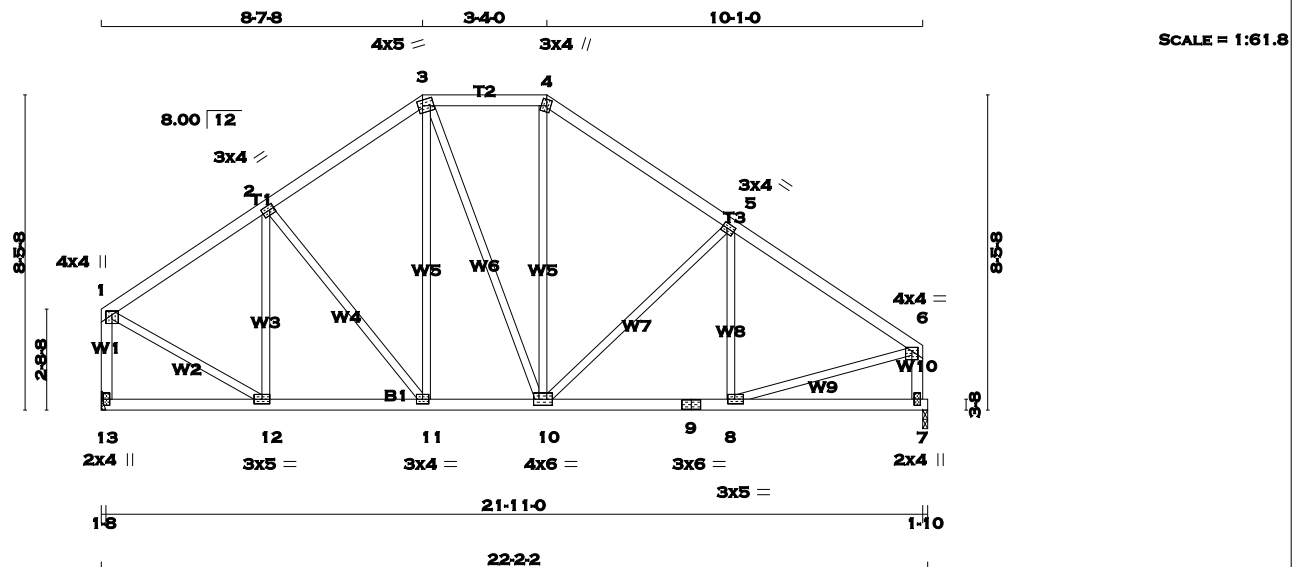
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ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE
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CONTAINS SPECIFICATIONS AND CRITERIA USED
IN THE DESIGN OF THIS COMPONENT.





LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. 1 - 4 2x4 DRY No.2 SPF 4 - 6 2x4 DRY No.2 SPF 7 - 6 2x3 DRY No.2 SPF 15 - 1 2x4 DRY No.2 SPF 15 - 14 2x4 DRY No.2 SPF 13 - 9 2x4 DRY No.2 SPF 9 - 7 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT DRY: SEASONED LUMBER.							DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS <table><tr><th></th><th>FACTORED GROSS REACTION</th><th>MAXIMUM FACTORED GROSS REACTION</th><th>INPUT BRG</th><th>REQRD BRG</th></tr><tr><th>JT</th><th>VERT</th><th>HORZ</th><th>DOWN</th><th>HORZ</th></tr><tr><td>7</td><td>1046</td><td>0</td><td>1046</td><td>0</td></tr><tr><td>15</td><td>1049</td><td>0</td><td>1049</td><td>0</td></tr></table> HANGER BY OTHERS MIN. SEAT SIZE: 1-8 UNFACTORED REACTIONS <table><tr><th>JT</th><th>1ST LCASE</th><th>MAX./MIN.</th><th>SNOW</th><th>LIVE</th><th>PERM.LIVE</th><th>WIND</th><th>DEAD</th><th>SOIL</th></tr><tr><td>7</td><td>734</td><td>513 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>221 / 0</td><td>0 / 0</td></tr><tr><td>15</td><td>737</td><td>513 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>224 / 0</td><td>0 / 0</td></tr></table> BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 7 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.52 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED. MAX. UNBRACED INTERIOR CHORD LENGTH = 7.81 FT. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 6-7. DBS = 14-0-0 . CBF = 88 LBS. 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-8, 5-8. DBS = 20-0-0 . CBF = 67 LBS. DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"x3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12. END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW LOADING TOTAL LOAD CASES: (4) <table><tr><th colspan="4">CHORDS</th><th colspan="4">WEBS</th></tr><tr><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>FACTORED VERT. LOAD (PLF)</th><th>LC1 MAX</th><th>MAX. UNBRAC LENGTH</th><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>MAX. UNBRAC LENGTH</th></tr><tr><td>FR-TO</td><td></td><td>FROM TO</td><td>CSI (LC)</td><td></td><td>FR-TO</td><td></td><td></td></tr><tr><td>1-2</td><td>-1191 / 0</td><td>-77.3 -77.3</td><td>0.09 (1)</td><td>5.76</td><td>14-11</td><td>0 / 862</td><td>0.19 (1)</td></tr><tr><td>2-3</td><td>-1142 / 0</td><td>-77.3 -77.3</td><td>0.34 (1)</td><td>5.52</td><td>14-3</td><td>0 / 86</td><td>0.02 (1)</td></tr><tr><td>3-4</td><td>-824 / 0</td><td>-77.3 -77.3</td><td>0.33 (1)</td><td>6.25</td><td>11-3</td><td>-79 / 58</td><td>0.04 (1)</td></tr><tr><td>4-5</td><td>-546 / 0</td><td>-77.3 -77.3</td><td>0.41 (1)</td><td>6.25</td><td>3-10</td><td>-335 / 0</td><td>0.36 (1)</td></tr><tr><td>5-6</td><td>-546 / 0</td><td>-77.3 -77.3</td><td>0.41 (1)</td><td>6.25</td><td>10-4</td><td>0 / 326</td><td>0.07 (1)</td></tr><tr><td>7-6</td><td>-1005 / 0</td><td>0.0 0.0</td><td>0.52 (1)</td><td>5.49</td><td>4-8</td><td>-230 / 0</td><td>0.17 (1)</td></tr><tr><td>15-1</td><td>-1040 / 0</td><td>0.0 0.0</td><td>0.10 (1)</td><td>7.71</td><td>8-5</td><td>-533 / 0</td><td>0.28 (1)</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>8-6</td><td>0 / 999</td><td>0.22 (1)</td></tr><tr><td>15-14</td><td>0 / 0</td><td>-17.5 -17.5</td><td>0.01 (4)</td><td>10.00</td><td>12-14</td><td>0 / 44</td><td>0.15 (1)</td></tr><tr><td>13-12</td><td>0 / 0</td><td>-17.5 -17.5</td><td>0.00 (4)</td><td>10.00</td><td>14-2</td><td>-215 / 0</td><td>0.15 (1)</td></tr><tr><td>12-11</td><td>0 / 57</td><td>-17.5 -17.5</td><td>0.11 (4)</td><td>10.00</td><td>1-14</td><td>0 / 1086</td><td>0.24 (1)</td></tr><tr><td>11-10</td><td>0 / 900</td><td>-17.5 -17.5</td><td>0.20 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>10-9</td><td>0 / 669</td><td>-17.5 -17.5</td><td>0.18 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>9-8</td><td>0 / 669</td><td>-17.5 -17.5</td><td>0.18 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>8-7</td><td>0 / 0</td><td>-17.5 -17.5</td><td>0.13 (4)</td><td>10.00</td><td></td><td></td><td></td></tr></table>								FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG	JT	VERT	HORZ	DOWN	HORZ	7	1046	0	1046	0	15	1049	0	1049	0	JT	1ST LCASE	MAX./MIN.	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	7	734	513 / 0	0 / 0	0 / 0	0 / 0	0 / 0	221 / 0	0 / 0	15	737	513 / 0	0 / 0	0 / 0	0 / 0	0 / 0	224 / 0	0 / 0	CHORDS				WEBS				MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRAC LENGTH	FR-TO		FROM TO	CSI (LC)		FR-TO			1-2	-1191 / 0	-77.3 -77.3	0.09 (1)	5.76	14-11	0 / 862	0.19 (1)	2-3	-1142 / 0	-77.3 -77.3	0.34 (1)	5.52	14-3	0 / 86	0.02 (1)	3-4	-824 / 0	-77.3 -77.3	0.33 (1)	6.25	11-3	-79 / 58	0.04 (1)	4-5	-546 / 0	-77.3 -77.3	0.41 (1)	6.25	3-10	-335 / 0	0.36 (1)	5-6	-546 / 0	-77.3 -77.3	0.41 (1)	6.25	10-4	0 / 326	0.07 (1)	7-6	-1005 / 0	0.0 0.0	0.52 (1)	5.49	4-8	-230 / 0	0.17 (1)	15-1	-1040 / 0	0.0 0.0	0.10 (1)	7.71	8-5	-533 / 0	0.28 (1)						8-6	0 / 999	0.22 (1)	15-14	0 / 0	-17.5 -17.5	0.01 (4)	10.00	12-14	0 / 44	0.15 (1)	13-12	0 / 0	-17.5 -17.5	0.00 (4)	10.00	14-2	-215 / 0	0.15 (1)	12-11	0 / 57	-17.5 -17.5	0.11 (4)	10.00	1-14	0 / 1086	0.24 (1)	11-10	0 / 900	-17.5 -17.5	0.20 (1)	10.00				10-9	0 / 669	-17.5 -17.5	0.18 (4)	10.00				9-8	0 / 669	-17.5 -17.5	0.18 (4)	10.00				8-7	0 / 0	-17.5 -17.5	0.13 (4)	10.00				DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.0 PSF TOTAL LOAD = 33.3 PSF SPACING = 24.0 IN. C/C LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12 THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012, BCBC 2012, ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (0.73") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03") ALLOWABLE DEFL.(TL)= L/360 (0.73") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.06") CSI: TC=0.52 (6-7:1) , BC=0.20 (10-11:1) , WB=0.36 (3-10:1) , SSI=0.21 (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 AUTOSOLVE RIGHT HEEL ONLY TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 822 2284 1656 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.90 (11) (INPUT = 0.90) JSI METAL= 0.25 (11) (INPUT = 1.00)						
	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG																																																																																																																																																																																																															
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JT	1ST LCASE	MAX./MIN.	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL																																																																																																																																																																																																											
7	734	513 / 0	0 / 0	0 / 0	0 / 0	0 / 0	221 / 0	0 / 0																																																																																																																																																																																																											
15	737	513 / 0	0 / 0	0 / 0	0 / 0	0 / 0	224 / 0	0 / 0																																																																																																																																																																																																											
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MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRAC LENGTH																																																																																																																																																																																																												
FR-TO		FROM TO	CSI (LC)		FR-TO																																																																																																																																																																																																														
1-2	-1191 / 0	-77.3 -77.3	0.09 (1)	5.76	14-11	0 / 862	0.19 (1)																																																																																																																																																																																																												
2-3	-1142 / 0	-77.3 -77.3	0.34 (1)	5.52	14-3	0 / 86	0.02 (1)																																																																																																																																																																																																												
3-4	-824 / 0	-77.3 -77.3	0.33 (1)	6.25	11-3	-79 / 58	0.04 (1)																																																																																																																																																																																																												
4-5	-546 / 0	-77.3 -77.3	0.41 (1)	6.25	3-10	-335 / 0	0.36 (1)																																																																																																																																																																																																												
5-6	-546 / 0	-77.3 -77.3	0.41 (1)	6.25	10-4	0 / 326	0.07 (1)																																																																																																																																																																																																												
7-6	-1005 / 0	0.0 0.0	0.52 (1)	5.49	4-8	-230 / 0	0.17 (1)																																																																																																																																																																																																												
15-1	-1040 / 0	0.0 0.0	0.10 (1)	7.71	8-5	-533 / 0	0.28 (1)																																																																																																																																																																																																												
					8-6	0 / 999	0.22 (1)																																																																																																																																																																																																												
15-14	0 / 0	-17.5 -17.5	0.01 (4)	10.00	12-14	0 / 44	0.15 (1)																																																																																																																																																																																																												
13-12	0 / 0	-17.5 -17.5	0.00 (4)	10.00	14-2	-215 / 0	0.15 (1)																																																																																																																																																																																																												
12-11	0 / 57	-17.5 -17.5	0.11 (4)	10.00	1-14	0 / 1086	0.24 (1)																																																																																																																																																																																																												
11-10	0 / 900	-17.5 -17.5	0.20 (1)	10.00																																																																																																																																																																																																															
10-9	0 / 669	-17.5 -17.5	0.18 (4)	10.00																																																																																																																																																																																																															
9-8	0 / 669	-17.5 -17.5	0.18 (4)	10.00																																																																																																																																																																																																															
8-7	0 / 0	-17.5 -17.5	0.13 (4)	10.00																																																																																																																																																																																																															
RECEIVED TOWN OF MILTON MAR 29, 2017 17-5233 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 = 111 lb [M]																																																																																																																																																																																																												



TOTAL WEIGHT = 105 lb
[M][F]

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2
3 - 4	2x4	DRY	No.2
4 - 6	2x4	DRY	No.2
13 - 1	2x4	DRY	No.2
7 - 6	2x4	DRY	No.2
13 - 9	2x4	DRY	No.2
9 - 7	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
1	TMVW+p	MT20	4.0	4.0	1.25	2.00
2	TMVW-t	MT20	3.0	4.0	1.50	1.50
3	TTWW-m	MT20	4.0	5.0	1.75	1.50
4	TTW+m	MT20	3.0	4.0	2.00	1.25
5	TMVW-t	MT20	3.0	4.0	1.50	1.50
6	TMVW-p	MT20	4.0	4.0	1.25	2.00
7	BMV1+p	MT20	2.0	4.0		
8	BMVW-t	MT20	3.0	5.0	1.50	2.25
9	BS-t	MT20	3.0	6.0		
10	BMVWV-t	MT20	4.0	6.0		
11	BMVW-t	MT20	3.0	4.0		
12	BMVW-t	MT20	3.0	5.0		
13	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

BEARINGS			
FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION	
JT	VERT	DOWN	HORZ
13	1045	0	1045
7	1045	0	1045

UNFACTORED REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
13	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0
7	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 7

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.79 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING			
TOTAL LOAD CASES: (4)			
CHORDS		WEBS	
MEMB.	FORCE (LBS)	MEMB.	FORCE (LBS)
1-2	-857 / 0	12-2	-307 / 0
2-3	-834 / 0	2-11	-91 / 0
3-4	-704 / 0	11-3	0 / 128
4-5	-871 / 0	3-10	0 / 78
5-6	-1066 / 0	10-4	0 / 198
13-1	-1014 / 0	10-5	-287 / 0
7-6	-1008 / 0	8-5	-149 / 42
		1-12	0 / 831
		8-6	0 / 942

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 33.3 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.73")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.05")

CSI: TC=0.27 (5-6:1), BC=0.20 (8-10:1), WB=0.27 (5-10:1), SSI=0.16 (5-6:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

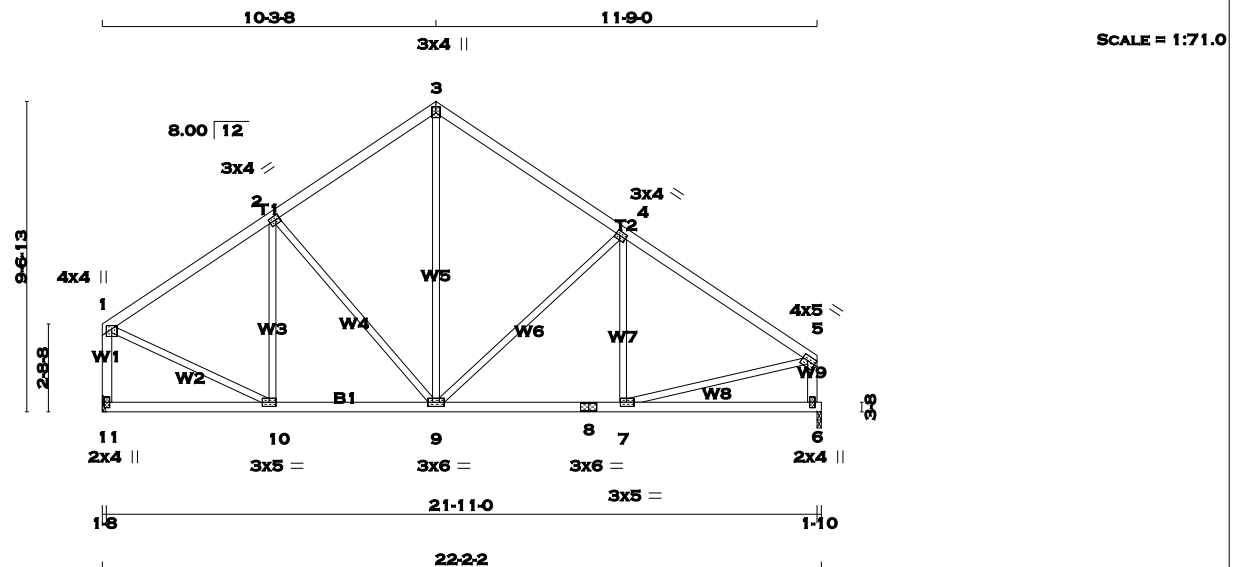
JSI GRIP= 0.88 (6) (INPUT = 0.90)
JSI METAL= 0.31 (6) (INPUT = 1.00)



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 IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 2 X 97 = 195 lb [M][F]

LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
1 - 3	2x4	DRY	No.2		SPF
3 - 5	2x4	DRY	No.2		SPF
11 - 1	2x4	DRY	No.2		SPF
6 - 5	2x4	DRY	No.2		SPF
11 - 8	2x4	DRY	No.2		SPF
8 - 6	2x4	DRY	No.2		SPF
ALL WEBS 2x3 DRY No.2 EXCEPT					SPF
DRY: SEASONED LUMBER.					

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW+p	MT20	4.0	4.0	1.25	2.00
2	TMVW-t	MT20	3.0	4.0	1.50	1.50
3	TTW+p	MT20	3.0	4.0	2.25	1.50
4	TMVW-t	MT20	3.0	4.0	1.50	1.50
5	TMVW-t	MT20	4.0	5.0	1.75	Edge
6	BMV1+p	MT20	2.0	4.0		
7	BMVW-t	MT20	3.0	5.0	1.50	2.25
8	BS-t	MT20	3.0	6.0		
9	BMVW-t	MT20	3.0	6.0		
10	BMVW-t	MT20	3.0	5.0		
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.

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
11	1045	0	1045	0	0
6	1045	0	1045	0	0

UNFACTORED REACTIONS		1ST LCASE	MAX./MIN.	COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
11	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0	
6	734	513 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0	

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.63 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED (LC1) (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED (LC)	
FR-TO		FROM	TO	FR-TO			
1-2	-887 / 0	-77.3	-77.3 0.27 (1)	6.19	10-2	-246 / 12	0.15 (1)
2-3	-777 / 0	-77.3	-77.3 0.27 (1)	6.25	2-9	-208 / 0	0.25 (1)
3-4	-781 / 0	-77.3	-77.3 0.35 (1)	6.25	9-3	0 / 519	0.12 (1)
4-5	-1069 / 0	-77.3	-77.3 0.37 (1)	5.63	9-4	-397 / 0	0.51 (1)
11-1	-1007 / 0	0.0	0.0 0.14 (1)	7.80	7-4	-100 / 69	0.05 (1)
6-5	-1003 / 0	0.0	0.0 0.11 (1)	7.81	1-10	0 / 834	0.19 (1)
					7-5	0 / 939	0.21 (1)
11-10	0 / 0	-17.5	-17.5 0.11 (4)	10.00			
10-9	0 / 760	-17.5	-17.5 0.18 (1)	10.00			
9-8	0 / 914	-17.5	-17.5 0.22 (1)	10.00			
8-7	0 / 914	-17.5	-17.5 0.22 (1)	10.00			
7-6	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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.73")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.06")

CSI: TC=0.37 (4-5:1), BC=0.22 (7-9:1), WB=0.51 (4-9:1), SSI=0.19 (4-5:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES
PLATE GRIP(DRY) 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.

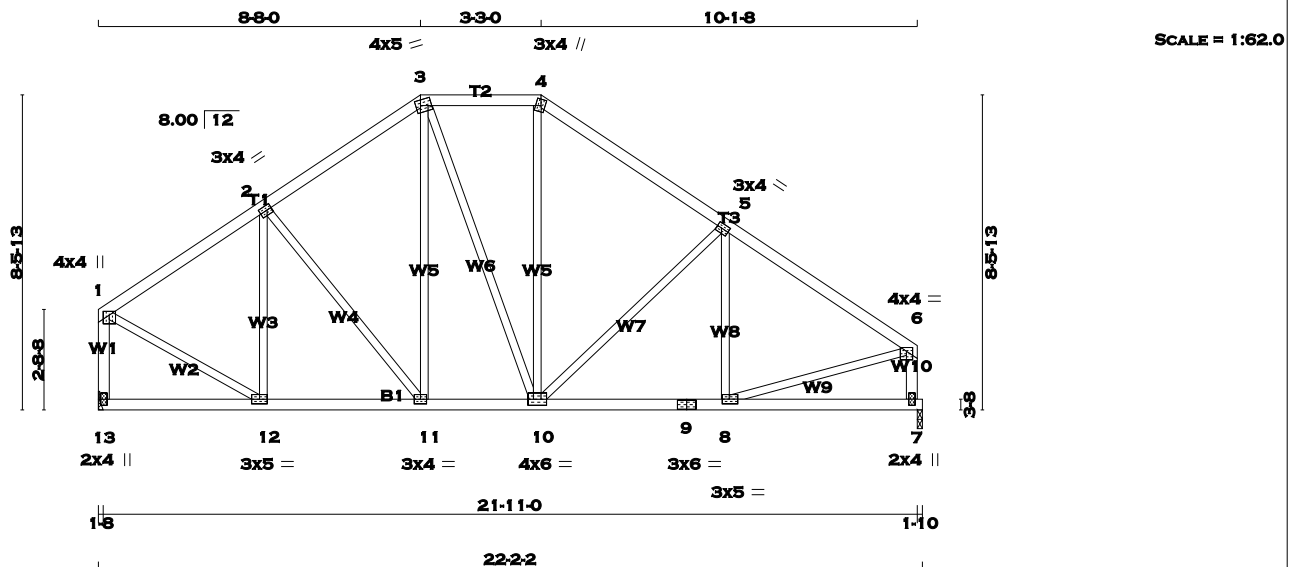
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JSI METAL= 0.36 (5) (INPUT = 1.00)



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TOTAL WEIGHT = 105 lb
[M][F]

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
13 - 1	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
13 - 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
1	TMVW+p	MT20	4.0	4.0	1.25	2.00
2	TMVW-t	MT20	3.0	4.0	1.50	1.50
3	TTWW-m	MT20	4.0	5.0	1.75	1.50
4	TTW+m	MT20	3.0	4.0	2.00	1.25
5	TMVW-t	MT20	3.0	4.0	1.50	1.50
6	TMVW-p	MT20	4.0	4.0	1.25	2.00
7	BMV1+p	MT20	2.0	4.0		
8	BMVW-t	MT20	3.0	5.0	1.50	2.25
9	BS-t	MT20	3.0	6.0		
10	BMVW-t	MT20	4.0	6.0		
11	BMVW-t	MT20	3.0	4.0		
12	BMVW-t	MT20	3.0	5.0		
13	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

FACTORED			MAXIMUM FACTORED			INPUT	REQRD
JT	GROSS REACTION		GROSS REACTION			BRG	BRG
13	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
	1045	0	1045	0	0	HANGER BY OTHERS	
7	1045	0	1045	0	0	MIN. SEAT SIZE: 1-8	
						1-10	1-10

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS	PERM.	LIVE	WIND	DEAD	SOIL
13	734	513 / 0	0 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0
7	734	513 / 0	0 / 0	0 / 0	0 / 0	0 / 0	220 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 7

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.79 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC1)	UNBRACED LENGTH (LC)
FR-TO		FROM	TO	FR-TO		FROM	TO
1-2	-858 / 0	-77.3	-77.3 0.19 (1)	6.25	12-2	-305 / 0	0.15 (1)
2-3	-833 / 0	-77.3	-77.3 0.19 (1)	6.25	2-11	-94 / 0	0.08 (1)
3-4	-702 / 0	-77.3	-77.3 0.11 (1)	6.25	11-3	0 / 130	0.03 (1)
4-5	-869 / 0	-77.3	-77.3 0.26 (1)	6.25	3-10	0 / 78	0.02 (1)
5-6	-1067 / 0	-77.3	-77.3 0.27 (1)	5.79	10-4	0 / 199	0.04 (1)
13-1	-1014 / 0	0.0	0.0 0.14 (1)	7.78	10-5	-290 / 0	0.27 (1)
7-6	-1008 / 0	0.0	0.0 0.11 (1)	7.80	8-5	-148 / 43	0.06 (1)
					1-12	0 / 831	0.19 (1)
					8-6	0 / 942	0.21 (1)
13-12	0 / 0	-17.5	-17.5 0.08 (4)	10.00			
12-11	0 / 732	-17.5	-17.5 0.16 (1)	10.00			
11-10	0 / 674	-17.5	-17.5 0.14 (1)	10.00			
10-9	0 / 909	-17.5	-17.5 0.20 (1)	10.00			
9-8	0 / 909	-17.5	-17.5 0.20 (1)	10.00			
8-7	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

LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.73")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.05")

CSI: TC=0.27 (5-6:1), BC=0.20 (8-10:1), WB=0.27 (5-10:1), SSI=0.16 (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)	(PLI)
MAX	MIN	MAX	MIN
MT20	618	354	1667

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

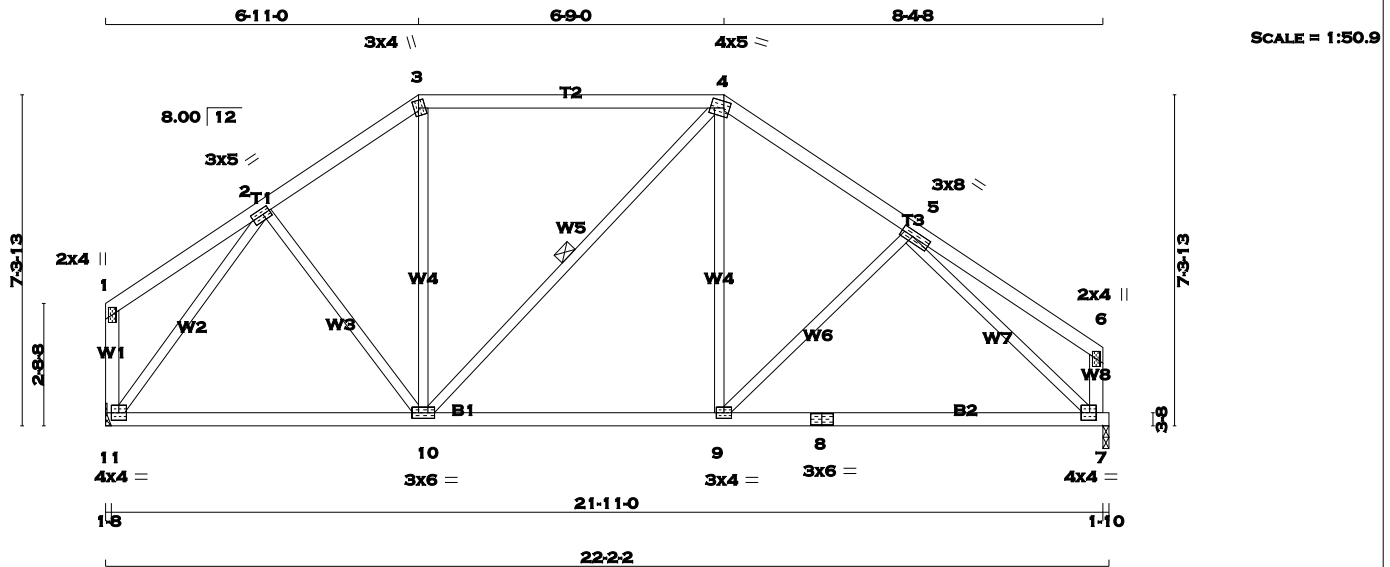
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JSI METAL= 0.31 (6) (INPUT = 1.00)



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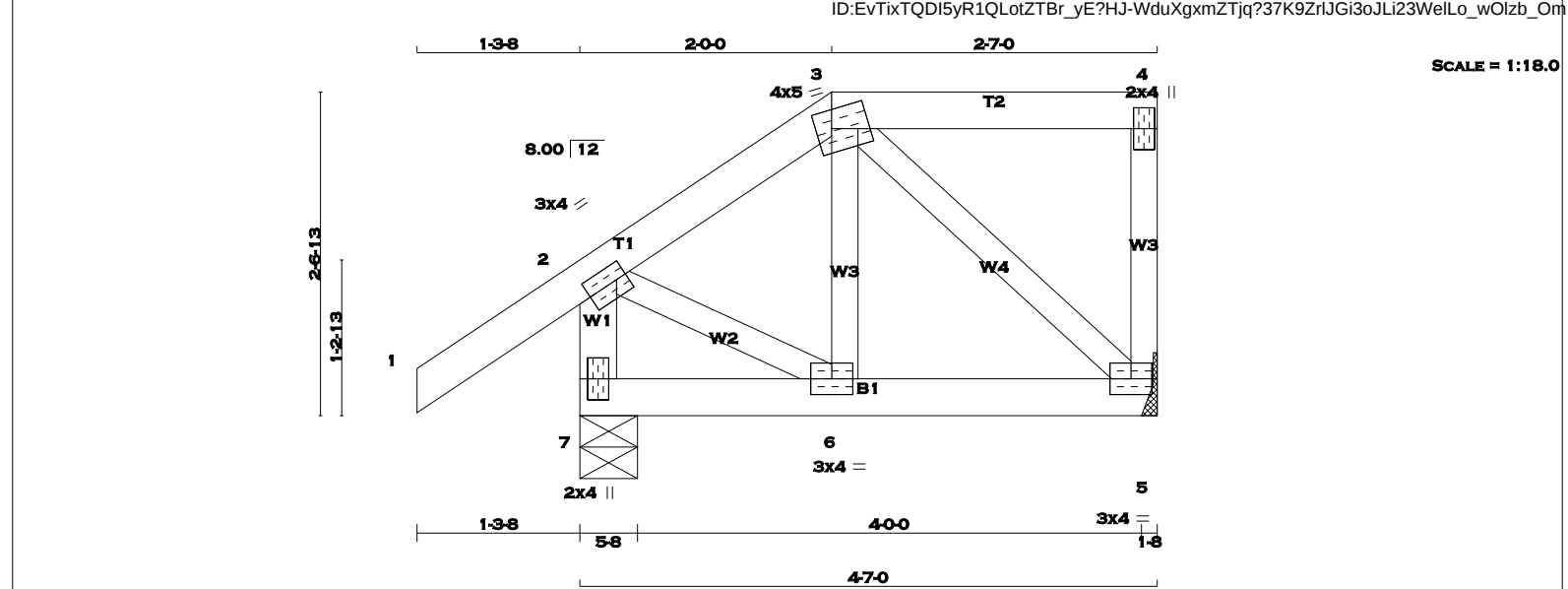
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LUMBER N. L. G. A. RULES CHORDS SIZE 1 - 3 2x4 DRY No.2 3 - 4 2x4 DRY No.2 4 - 6 2x4 DRY No.2 11- 1 2x4 DRY No.2 7 - 6 2x4 DRY No.2 11- 8 2x4 DRY No.2 8 - 7 2x4 DRY No.2 ALL WEBS 2x3 DRY No.2 EXCEPT DRY: SEASONED LUMBER.			DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED GROSS REACTION JT VERT HORZ 11 1045 0 7 1045 0 MAXIMUM FACTORED GROSS REACTION DOWN HORZ UPLIFT 11 1045 0 0 7 1045 0 0 INPUT BRG IN-SX 1-10 1-10 REQRD BRG IN-SX HANGER BY OTHERS MIN. SEAT SIZE: 1-8			DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.0 PSF TOTAL LOAD = 33.3 PSF SPACING = 24.0 IN./C/C LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12 THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012, BCBC 2012, ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (0.73") CALCULATED VERT. DEFL.(LL) = L/999 (0.03") ALLOWABLE DEFL.(TL)= L/360 (0.73") CALCULATED VERT. DEFL.(TL) = L/999 (0.15") CSI: TC=0.46 (3-4:1), BC=0.32 (9-10:4), WB=0.71 (5-7:1), SSI=0.20 (3-4:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 822 2284 1656 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.89 (5) (INPUT = 0.90) JSI METAL= 0.32 (7) (INPUT = 1.00)
PLATES (table is in inches) JT TYPE PLATES W LEN Y X 1 TMV+p MT20 2.0 4.0 2 TMV+p MT20 3.0 5.0 1.50 2.00 3 TMV+p MT20 3.0 4.0 2.00 1.25 4 TMV+p MT20 4.0 5.0 1.75 1.50 5 TMV+p MT20 3.0 8.0 1.50 3.25 6 TMV+p MT20 2.0 4.0 7 BMVW1-t MT20 4.0 4.0 2.00 1.75 8 BS-t MT20 3.0 6.0 9 BMVW1-t MT20 3.0 4.0 10 BMVW1-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.			UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 11 734 513 / 0 0 / 0 0 / 0 0 / 0 220 / 0 0 / 0 7 734 513 / 0 0 / 0 0 / 0 0 / 0 220 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 7 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.12 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-10. DBS = 20-0-0 . CBF = 13 LBS. DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"x3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12. END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW LOADING TOTAL LOAD CASES: (4) C H O R D S MAX. FACTORED FORCE (LBS) MEMB. VERT. LOAD LC1 MAX. UNBRACED LENGTH FR-TO 0 / 17 -77.3 -77.3 0.14 (1) 10.00 2-10 0 / 101 0.02 (4) 2-3 -881 / 0 -77.3 -77.3 0.12 (1) 6.25 10-3 0 / 118 0.04 (4) 3-4 -720 / 0 -77.3 -77.3 0.46 (1) 6.25 10-4 -103 / 0 0.07 (1) 4-5 -968 / 0 -77.3 -77.3 0.18 (1) 6.12 9-4 0 / 216 0.05 (4) 5-6 0 / 21 -77.3 -77.3 0.22 (1) 10.00 9-5 -95 / 28 0.06 (1) 11-1 -105 / 0 0.0 0.0 0.01 (1) 7.81 11-2 -1106 / 0 0.62 (1) 7-6 -124 / 0 0.0 0.0 0.01 (1) 7.81 5-7 -1213 / 0 0.71 (1) 11-10 0 / 657 -17.5 -17.5 0.22 (4) 10.00 10-9 0 / 790 -17.5 -17.5 0.32 (4) 10.00 9-8 0 / 855 -17.5 -17.5 0.32 (4) 10.00 8-7 0 / 855 -17.5 -17.5 0.32 (4) 10.00			RECEIVED TOWN OF MILTON MAR 29, 2017 17-5233 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.





LUMBER N. L. G. A. RULES <table><tr><th>CHORDS</th><th>SIZE</th><th>LUMBER</th><th>DESCR.</th></tr><tr><td>1 - 3</td><td>2x4</td><td>DRY</td><td>No.2</td></tr><tr><td>3 - 4</td><td>2x4</td><td>DRY</td><td>No.2</td></tr><tr><td>5 - 4</td><td>2x3</td><td>DRY</td><td>No.2</td></tr><tr><td>7 - 2</td><td>2x4</td><td>DRY</td><td>No.2</td></tr><tr><td>7 - 5</td><td>2x4</td><td>DRY</td><td>No.2</td></tr></table> ALL WEBS 2x3 DRY No.2 EXCEPT SPF SPF SPF SPF SPF SPF DRY: SEASONED LUMBER.							CHORDS	SIZE	LUMBER	DESCR.	1 - 3	2x4	DRY	No.2	3 - 4	2x4	DRY	No.2	5 - 4	2x3	DRY	No.2	7 - 2	2x4	DRY	No.2	7 - 5	2x4	DRY	No.2	DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS <table><tr><th></th><th>FACTORED GROSS REACTION</th><th>MAXIMUM FACTORED GROSS REACTION</th><th>INPUT BRG</th><th>REQRD BRG</th></tr><tr><th>JT</th><th>VERT</th><th>HORZ</th><th>DOWN</th><th>HORZ</th></tr><tr><td>5</td><td>217</td><td>0</td><td>217</td><td>0</td></tr><tr><td>7</td><td>324</td><td>0</td><td>324</td><td>0</td></tr></table> MIN. SEAT SIZE: 1-8 5-8 5-8 UNFACTORED REACTIONS <table><tr><th>JT</th><th>1ST LCASE</th><th>MAX./MIN. SNOW</th><th>LIVE</th><th>PERM.LIVE</th><th>WIND</th><th>DEAD</th><th>SOIL</th></tr><tr><td>5</td><td>153</td><td>107 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>46 / 0</td><td>0 / 0</td></tr><tr><td>7</td><td>225</td><td>171 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>54 / 0</td><td>0 / 0</td></tr></table> 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) <table><tr><th colspan="4">CHORDS</th><th colspan="4">WEBS</th></tr><tr><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>FACTORED VERT. LOAD (PLF)</th><th>MAX. LC1 (LC)</th><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>MAX. 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SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	5	153	107 / 0	0 / 0	0 / 0	0 / 0	46 / 0	0 / 0	7	225	171 / 0	0 / 0	0 / 0	0 / 0	54 / 0	0 / 0	CHORDS				WEBS				MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)		FR-TO		FROM	TO	FR-TO				1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	6-3	-3 / 39	0.01 (4)	2-3	-136 / 0	-77.3	-77.3 0.05 (1)	6.25	3-5	-150 / 0	0.03 (1)	3-4	0 / 0	-77.3	-77.3 0.09 (1)	10.00	2-6	0 / 123	0.03 (1)	5-4	-100 / 0	0.0	0.0 0.02 (1)	7.81				7-2	-308 / 0	0.0	0.0 0.03 (1)	7.81				7-6	0 / 0	-17.5	-17.5 0.02 (4)	10.00				6-5	0 / 113	-17.5	-17.5 0.03 (4)	10.00				DESIGN CRITERIA SPECIFIED LOADS: <table><tr><th>TOP CH.</th><th>LL</th><th>=</th><th>23.3</th><th>PSF</th></tr><tr><th></th><th>DL</th><th>=</th><th>3.0</th><th>PSF</th></tr><tr><th>BOT CH.</th><th>LL</th><th>=</th><th>0.0</th><th>PSF</th></tr><tr><th></th><th>DL</th><th>=</th><th>7.0</th><th>PSF</th></tr><tr><th>TOTAL LOAD</th><th>=</th><th>33.3</th><th>PSF</th><th></th></tr></table> SPACING = 24.0 IN./C LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12 THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012, BCBC 2012, ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 27.2 P.S.F. 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LL	=	0.0	PSF		DL	=	7.0	PSF	TOTAL LOAD	=	33.3	PSF		PLATE	GRIP(DRY)	SHEAR	SECTION		(PSI)	(PLI)	(PLI)		MAX	MIN	MAX	MT20	618	354	1667
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LICENSED PROFESSIONAL ENGINEER

PAUL TREVISAN

100136551

March 14th, 2017

PROVINCE OF ONTARIO

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TOWN OF MILTON

MAR 29, 2017

17-5233

BUILDING DIVISION

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

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JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	LECCO RIDGE-BLOCK 338	DRWG NO.	ENG JOB: PT0317-081
T-BLOCK338	T86	1	1	TRUSS DESC.			

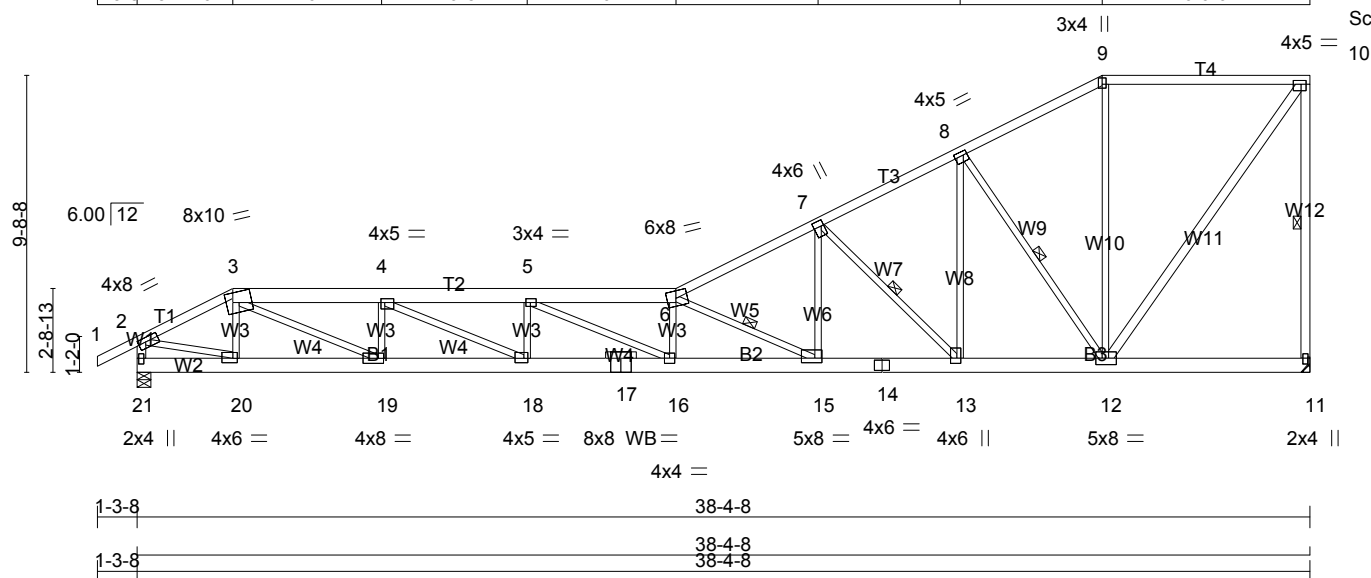
KOTT, Stouffville, ON, Alan Attwater

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Wed Mar 15 08:18:57 2017 Page 1

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Scale = 1:75.4



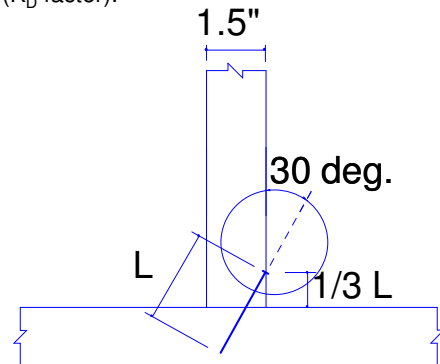
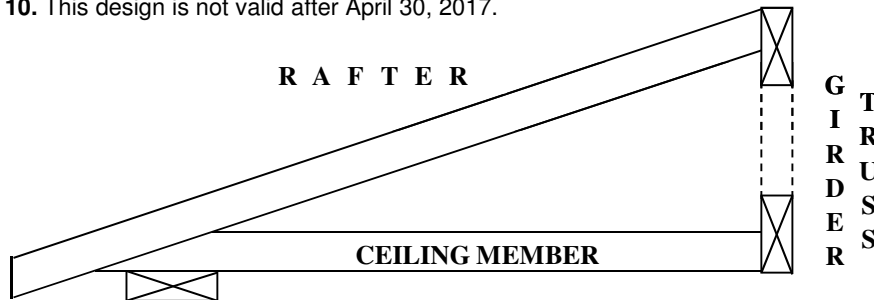
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

B37579H1

NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL LATERAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	132	147
	3.25	0.144	132	147
	3.50	0.160	159	177
COMMON SPIRAL	3.00	0.122	97	108
	3.25	0.122	97	108
	3.50	0.152	145	162

NOTES:

1. Rafter and ceiling members may be anchored to top and bottom chords of girder truss by toe-nailing rafter and ceiling members to girder chords provided the reaction does not exceed the lateral capacities in the table. Hangers (specified by others) are required for reactions higher than the maximum toe-nail capacity. Reactions are based on factored loads.
2. Toe nail capacities shown in the table are for **one** toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-09, section 10.9.4.1.
3. For 9- 3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in tables below.
5. Nail values in table are based on the following relative lumber densities: $G = 0.42$ (SPF), $G = 0.49$ (D. Fir).
6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See next page for nailing on bearing plate).
7. For loads due to **wind** the nail lateral capacity in this table may be multiplied by 1.15 (K_D factor).
8. Lumber must be dry (< 19% moisture content) at the time of nail installation.
9. Nail values in this table comply with CSA O86-09, section 10.9.4
10. This design is not valid after April 30, 2017.



TOE-NAIL INSTALLATION

Nail type	Common wire	Common spiral	Common wire	Common spiral
Nail dia. (in)	0.160	0.152	0.144	0.122
	(3.5" nail)		(3" and 3.25" nail)	
LUMBER SIZE	MAXIMUM NUMBER OF TOE-NAILS			
2X4 SPF	2	2	3	3
2X4 D. Fir	2	2	2	2
2X6 SPF	4	4	4	5
2X6 D. Fir	3	3	3	4



MiTek Canada Inc
100 Industrial Rd.
Bradford, Ontario L3Z 3G7

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5233
BUILDING DIVISION



April 24, 2015

BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

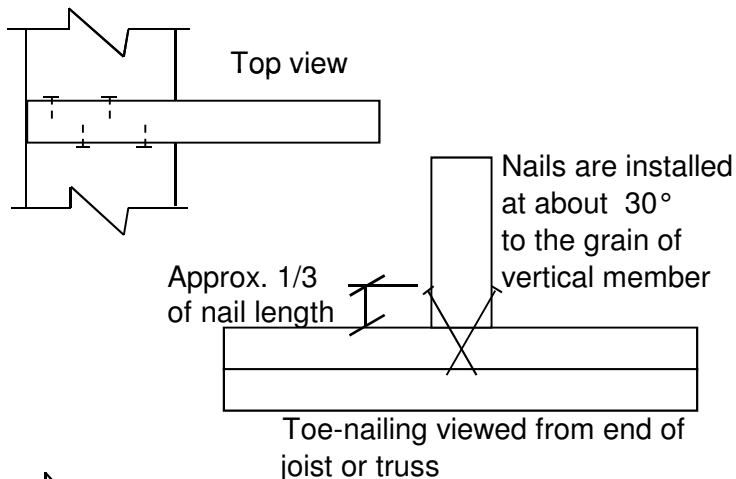
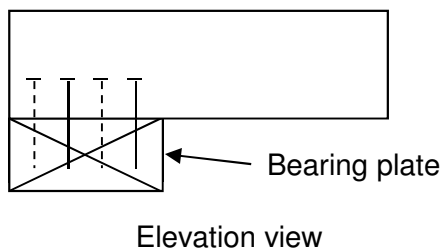
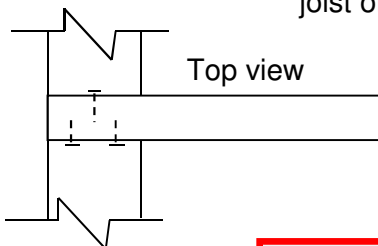
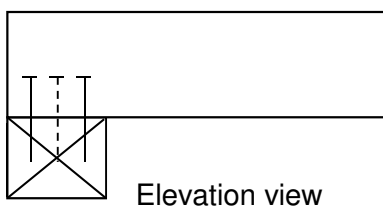
B37579H2

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



April 24, 2015

JOB NAME DETAILS

JOB DESC.

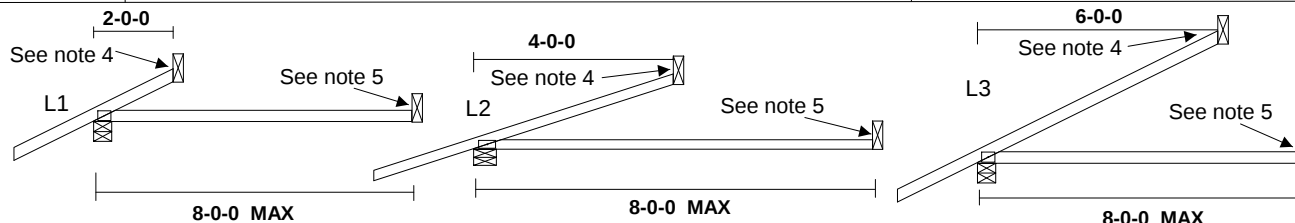
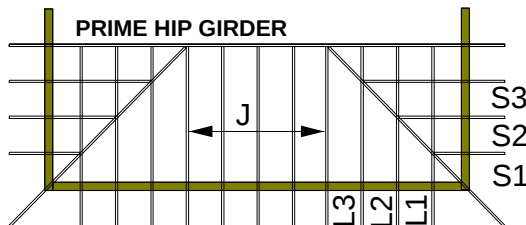
HIP END FRAMING

1000 BRIDGE-BLOCK 338

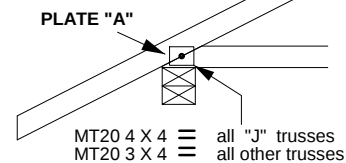
DRAWING NO.

B37579J

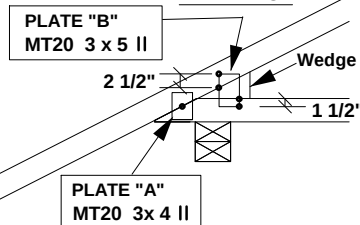
ENCL. JOB E.P. 10317-081



DETAIL "A"



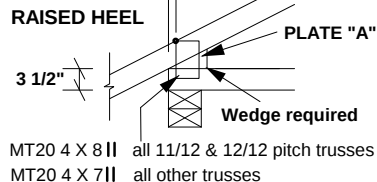
DETAIL "C"



CANTILEVER DETAIL "C"

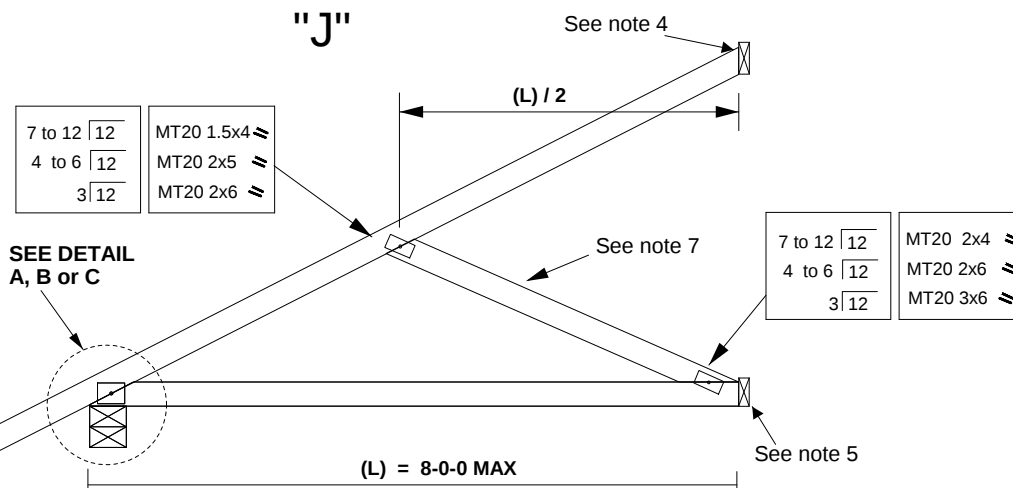
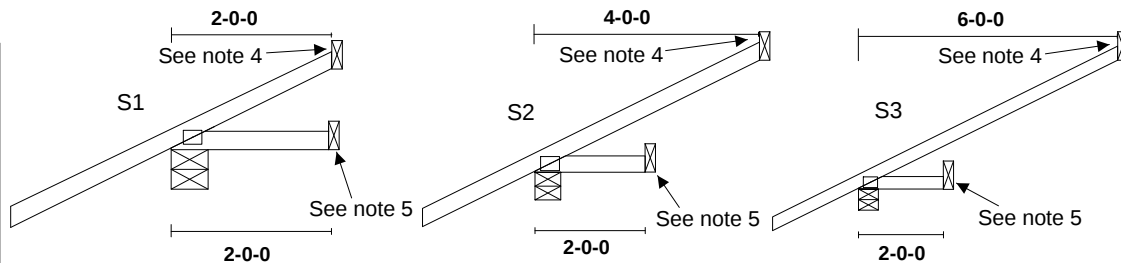
SLOPE	MAX CANTILEVER	PLATE "B"	WEDGE SIZE
3/12	17"	3 X 5	2 X 3
4/12	14"	3 X 5	2 X 3
5/12	12"	3 X 5	2 X 4
6/12	10"	3 X 5	2 X 4
7/12	9"	3 X 5	2 X 6
8/12	8.5"	3 X 5	2 X 6
9/12	8"	3 X 5	2 X 6
10/12	7.5"	3 X 5	2 X 6

DETAIL "B"



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 NBC 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 NBC 2010.
- FASTEN HIGH END OF RAFTERS USING MITEK CANADA INC. "BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY" STANDARD DETAIL B37579H1.
- FASTEN RIGHT END OF CEILING USING MITEK CANADA INC. "BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY" STANDARD DETAIL B37579H1.
- OVERHANG LENGTH SHALL NOT EXCEED 2 FT.
- WHEN SETBACK IS 6 FT OR LESS, DIAGONAL WEB MAY BE OMITTED AND HIGH END OF TOP CHORD SHALL BE CONNECTED AS PER NOTE 4.
- ALL PLATES SPECIFIED ARE PRESSED INTO BOTH FACES OF THE TRUSS.
- MITEK REFERENCE PAGE MII-7473C FORMS AN INTEGRAL PART OF THIS DETAIL.
- THIS DETAIL IS NOT VALID AFTER APRIL 30, 2017



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Bradford, Ontario, L3Z 3G7

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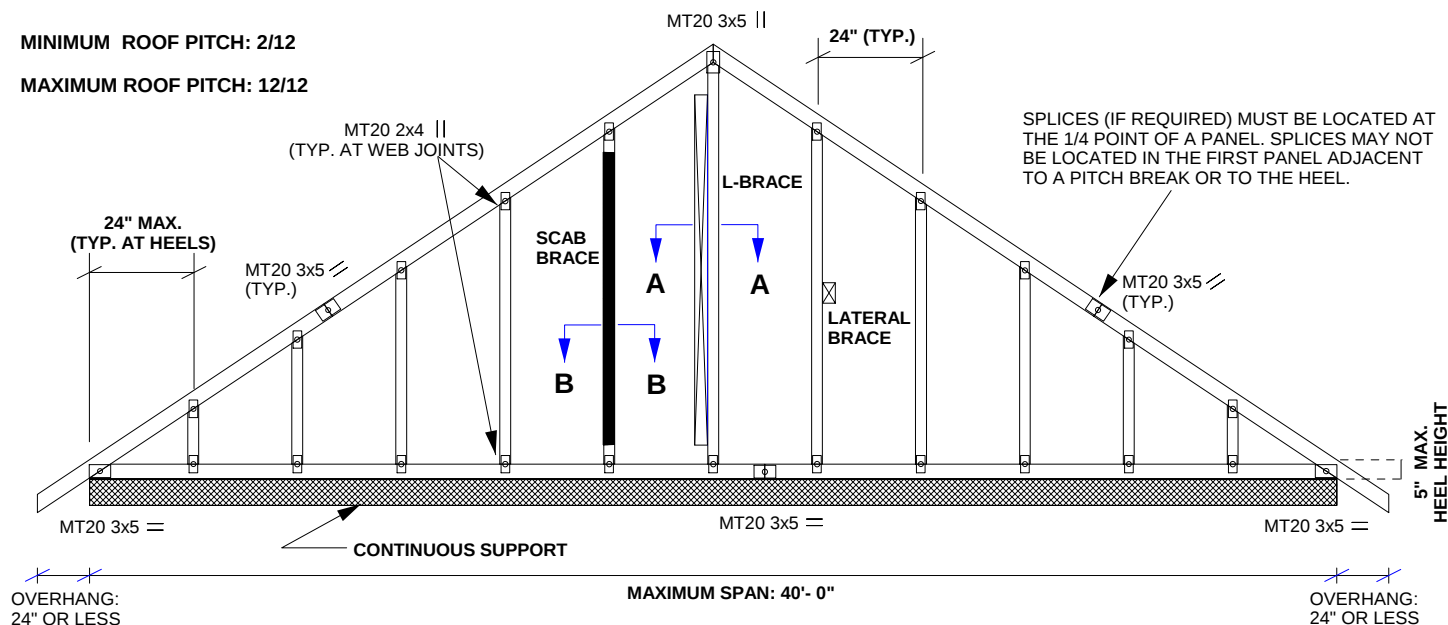
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April 24, 2015

STANDARD GABLE END DETAIL

MINIMUM ROOF PITCH: 2/12

MAXIMUM ROOF PITCH: 12/12



LUMBER

TOP CHORD: 2 X 4 No. 2 DRY SPF or D- Fir
 BOTTOM CHORD: 2 X 3 or 2 X 4 No. 2 DRY SPF or D- Fir
 GABLE WEB: 2 X 3 or 2 X 4 No. 2 DRY SPF or D- Fir

PLATES

JOINT	PLATES
HEELS	MT20 3 X 5
PEAK	MT20 3 X 5
TC SPLICES	MT20 3 X 5
BC SPLICES	MT20 3 X 5
WEB JOINTS	MT20 2 X 4

DESIGN CRITERIA

TOP CHORD LL = 60.0 PSF OR LESS
TOP CHORD DL = 6.0 PSF OR LESS
BOTTOM CHORD LL = 0 PSF
BOTTOM CHORD DL = 7.0 PSF

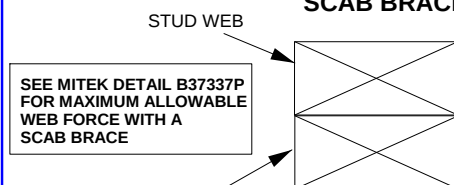
TOTAL LOAD = 73.0 PSF OR LESS

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10 FT. OR RIGID CEILING DIRECTLY APPLIED.
WEBS MUST BE Laterally Braced, SCAB BRACED OR L-BRACED AS INDICATED IN TABLE BELOW:

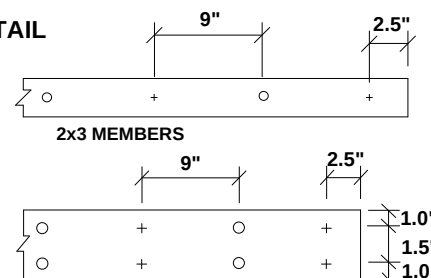
WEB LENGTH (L)	SCAB BRACE	L-BRACE	LATERAL BRACE
L < 6 FT.	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED
6 FT. < L < 12 FT.	REQUIRED	2x4 L-BRACE	1 LATERAL AT 1/2 LENGTH OF WEB

SCAB BRACE DETAIL



No. 2 DRY SPF OR D. Fir SCAB
BRACE. SAME SIZE AS WEB

SECTION B-B



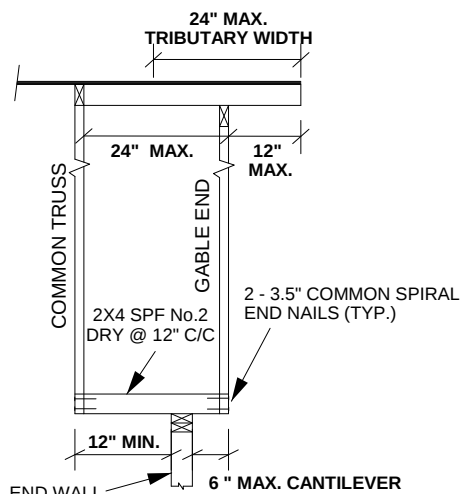
2X4 MEMBERS

- + NAIL FROM FRONT FACE
- o NAIL FROM BACK FACE

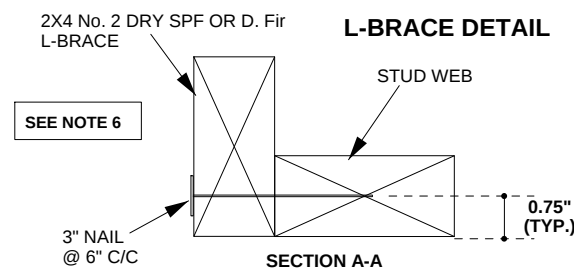
**FASTEN SCAB BRACE TO ONE FACE OF WEB WITH 9-3/4 GAUGE
0.122" X 3" COMMON SPIRAL NAILS SPACED @ 9" C/C (MAX) WITH 2.5"
MINIMUM END DISTANCE. SCAB BRACE MUST COVER 90% OF WEB LENGTH.
DRIVE NAILS ALTERNATELY FROM FRONT AND BACK FACES.**

CANTILEVER DETAIL

Note: Gable end may be cantilevered up to 6 inches past end wall as shown. Gable end to be continuously supported by 2x4 SPF No.2 (DRY) members at 12" o.c. along the bottom chord. Roof design loads shall not exceed the loading shown above.



L-BRACE DETAIL



FASTEN L-BRACE TO NARROW EDGE OF WEB WITH ONE ROW OF 9-3/4 GAUGE 0.122" X 3" COMMON SPIRAL NAILS SPACED AT 6" C/C WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.

NOTES:

1. Gable studs are spaced at 24" C/C (max.) with a max. length of 12 ft.
2. All plates specified are MiTek MT20, centered at each joint, and pressed into both faces of truss.
3. Truss spacing is 24" C/C, maximum.
4. Gable truss is designed for continuous support. Bearing material must be of the same species as chord member and of grade No. 2 or better.
5. This truss requires rigid sheathing attached to exposed face.
6. 2x3 or 2x4 T-braces shown for gable webs in the MiTek engineering drawings may be replaced by a 2x4 L-brace as shown above.
7. This truss is designed for residential or small building requirements, conforming to Part 9, NBCC 2010.
8. This detail is not valid after April 30, 2017.

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