



TOWN OF MILTON
PLANNING AND DEVELOPMENT
BUILDING PERMIT:17-5253

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 on Ontario, By-laws of the Region of Halton and Town of Milton

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5253
BUILDING DIVISION



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

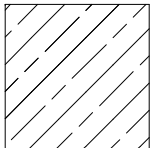
UNDERSIDE OF SOFFIT
FOR PORCHES AT
8' 6" A.F.F.

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

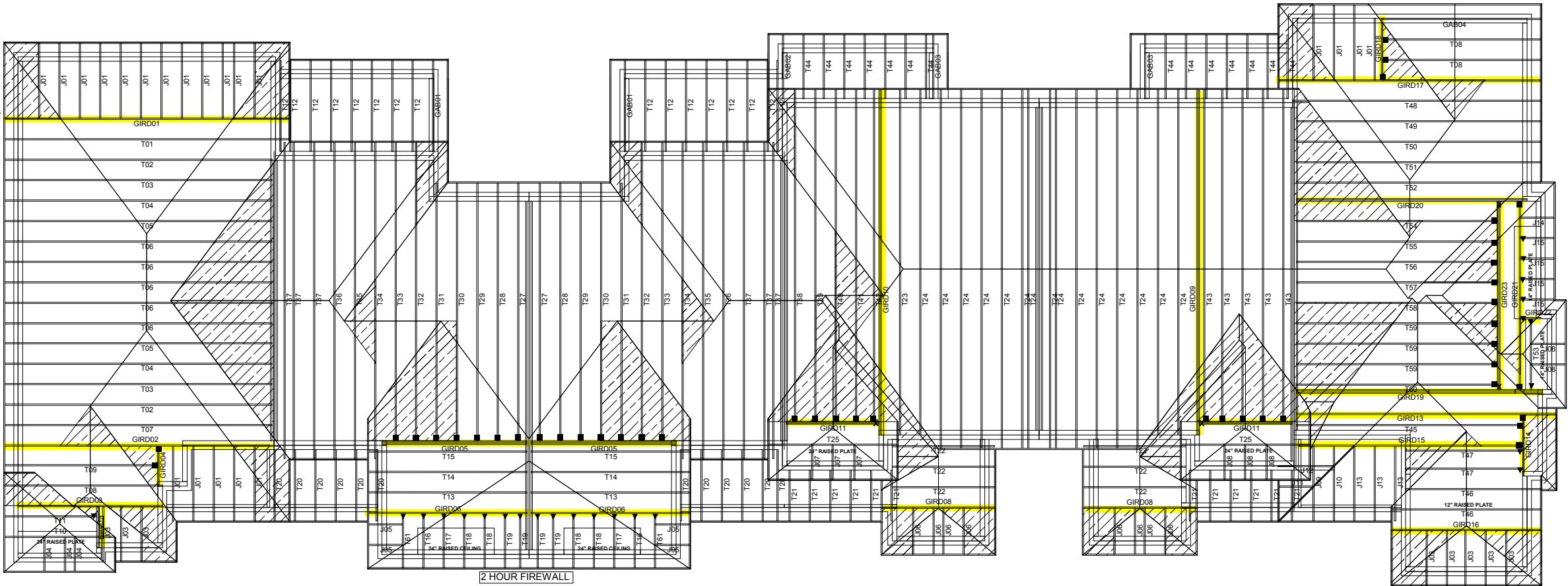


CONVENTIONAL FRAMING BY OTHERS

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 341**
Customer: GREENPARK
Project: LECCO RIDGE
Location: MILTON
Date: 3/14/2017 Drawn by: BB



IVY-6E
EL 2
341-1

IVY-1
EL 2
341-2

IVY-1
EL 2
341-3

IVY-2
EL 2
341-4

IVY-2
EL 2
341-5

IVY-11
EL 2
341-6

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.

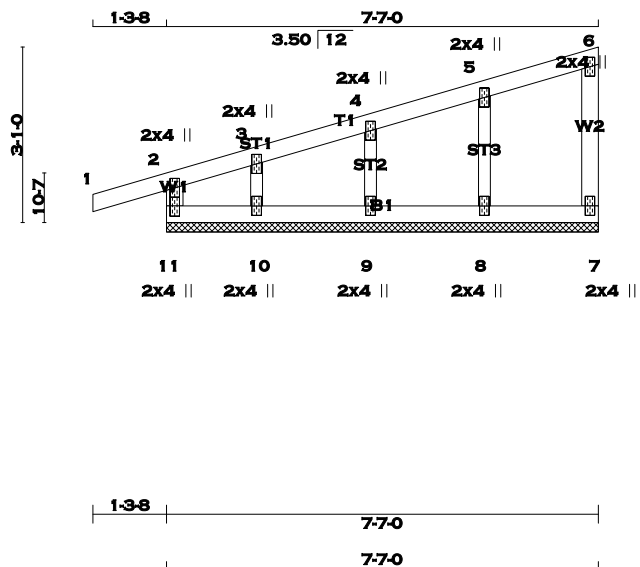
DIMENSIONS

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

WHERE CONTINUOUS LATERAL BRACING IS REQUIRED FOR WEBS BUT CAN NOT BE PROVIDED SUBSTITUTE EACH WITH ONE SPF #2 2" X 4" T-BRACE COVERING 90% OF WEB LENGTH AND FASTENED TO EDGE OF WEB USING 3 1/4" SPIRAL NAILS @ 6" C/C

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01/29/2013



SCALE = 1:40.5

TOTAL WEIGHT = 2 X 26 = 52 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.				

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

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	FACTORED MAX. CSI (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:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 33.3 PSF

SPACING = 24.0 IN. C/C

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

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

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

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

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

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

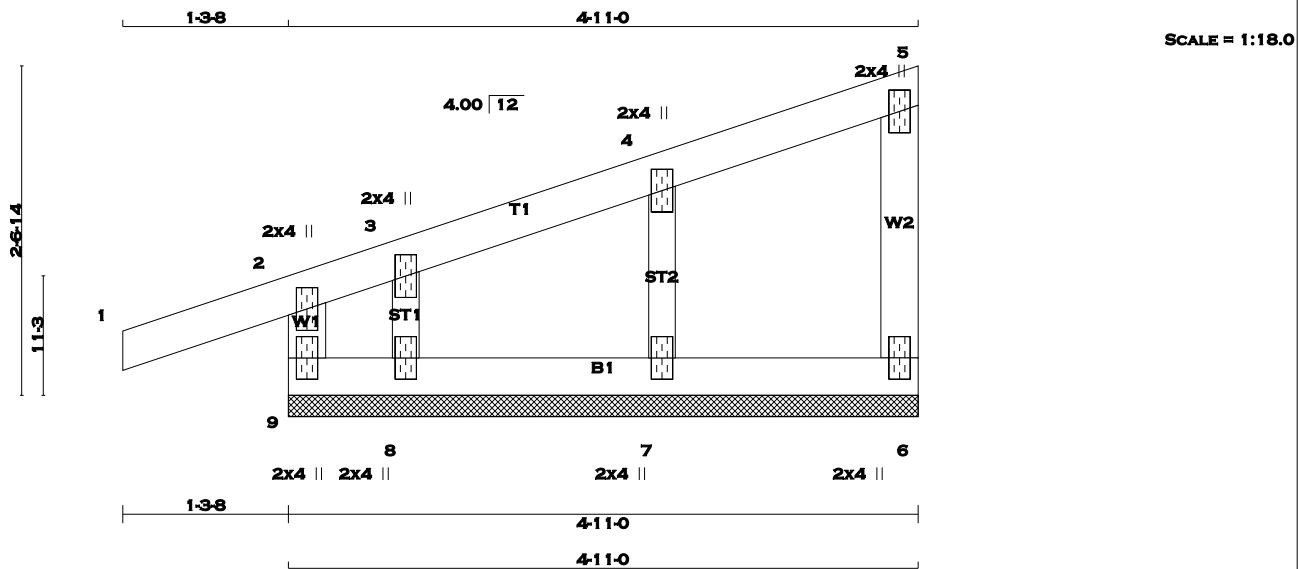
JSI GRIP= 0.11 (2) (INPUT = 0.90)
JSI METAL= 0.04 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 18 lb [M]

LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
1 - 5	2x4	DRY	No.2	SPF	
6 - 5	2x4	DRY	No.2	SPF	
9 - 2	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 2-0-0 OC.					

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

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

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

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

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

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

LOADING					TOTAL LOAD CASES: (4)				
C H O R D S					W E B S				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LC)	UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX (LC)		
FR-TO		FROM TO			FR-TO				
1- 2	0 / 16	-77.3 -77.3	0.10 (1)	10.00	7- 4	-177 / 0	0.03 (1)		
2- 3	-31 / 0	-77.3 -77.3	0.08 (1)	6.25	8- 3	-46 / 0	0.01 (1)		
3- 4	-8 / 0	-77.3 -77.3	0.04 (1)	10.00					
4- 5	-10 / 0	-77.3 -77.3	0.04 (1)	10.00					
6- 5	-66 / 0	0.0 0.0	0.01 (1)	7.81					
9- 2	-194 / 0	0.0 0.0	0.03 (1)	7.81					
9- 8	0 / 13	-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
MT20	618	354	1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

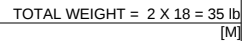
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DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER

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.

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)	FACTORED LC1 (LC)	MAX. UNBRAC CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM	TO	LENGTH	FR-TO			
9-2	-194 / 0	0.0	0.0	0.03 (1)	7.81	7-4	-177 / 0	0.03 (1)
1-2	0 / 16	-77.3	-77.3	0.10 (1)	10.00	8-3	-46 / 0	0.01 (1)
2-3	-31 / 0	-77.3	-77.3	0.08 (1)	6.25			
3-4	-8 / 0	-77.3	-77.3	0.04 (1)	10.00			
4-5	-10 / 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 / 13	-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) (PSI)		SHEAR (PLI)		SECTION (PLI)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

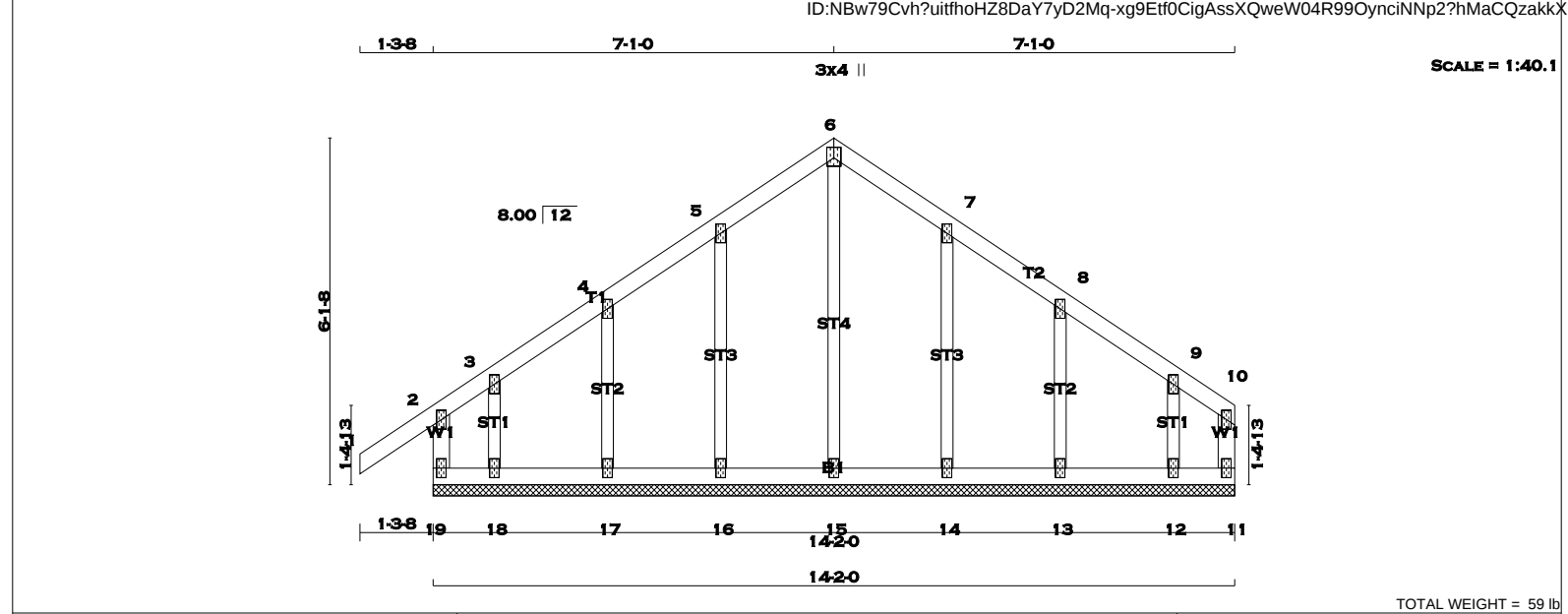
JSI GRIP= 0.11 (2) (INPUT = 0.90)
JSI METAL= 0.04 (2) (INPUT = 1.00)



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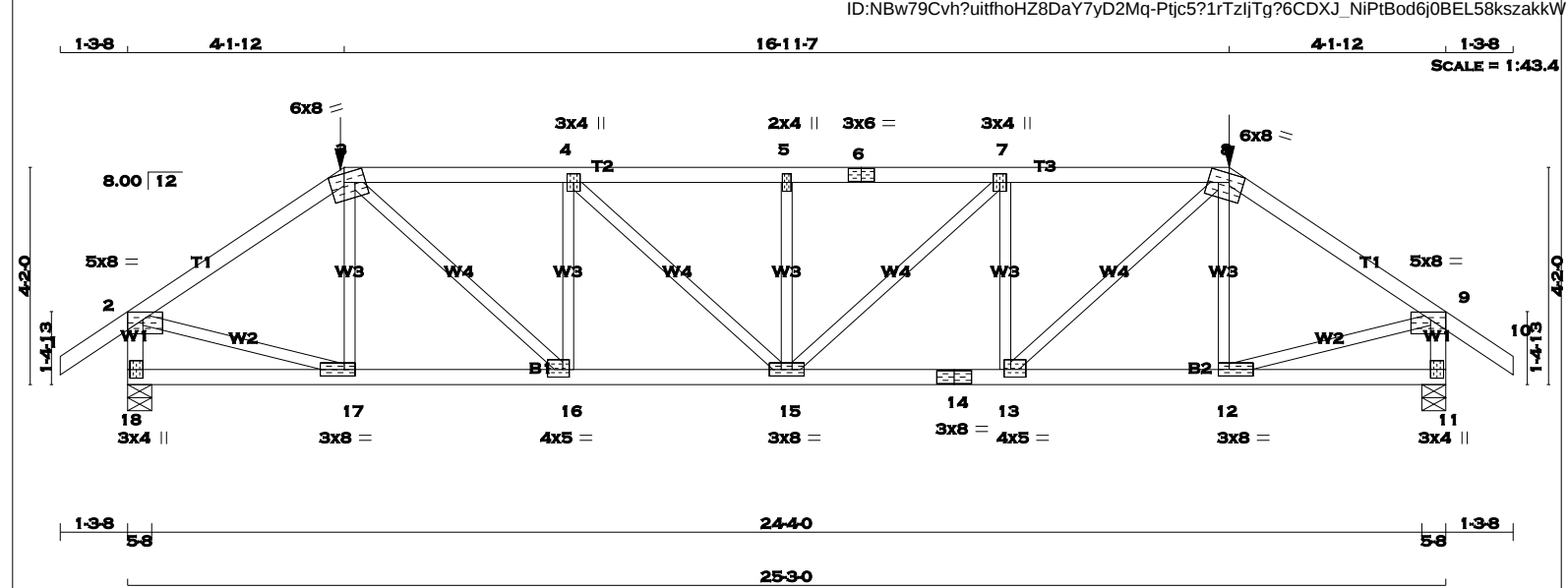


LUMBER
N. L. G. A. RULES
CHORDS SIZE LUMBER DESCR. SPF
19 - 2 2x4 DRY No.2
1 - 6 2x4 DRY No.2
6 - 10 2x4 DRY No.2
11 - 10 2x4 DRY No.2
19 - 11 2x4 DRY No.2
ALL WEBS 2x3 DRY No.2
ALL GABLE WEBS 2x3 DRY No.2
DRY: SEASONED LUMBER.
GABLE STUDS SPACED AT 2-0-0 OC.

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.

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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
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 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= 0.06 (6) (INPUT = 1.00)

N. L. G. A. RULES						BUILDING DESIGNER						DESIGNING						DESIGNING																													
CHORDS						SIZE						LUMBER						DESCR.																													
19- 2						2x4						DRY						No.2						SPF																							
1 - 6						2x4						DRY						No.2						SPF																							
6 - 10						2x4						DRY						No.2						SPF																							
11- 10						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																							
GABLE STUDS SPACED AT						2-0-0 OC.																																									
PLATES (table is in inches)																																															
JT						TYPE						PLATES						W						LEN						Y						X											
2						TMV+p						MT20						2.0						4.0																							
3, 4, 5, 7, 8, 9																																															
3						TMW+w						MT20						2.0						4.0																							
6						TTW+p						MT20						3.0						4.0						2.25						1.50											
10						TMV+p						MT20						2.0						4.0																							
11						BMV1+p						MT20						2.0						4.0																							
12, 13, 14, 15, 16, 17, 18																																															
12						BMW1+w						MT20						2.0						4.0																							
19						BMV1+p						MT20						2.0						4.0																							
A SIZE FOR SIZE SUBSTITUTION OF MITEK M120 WITH TEE-LOK TL20 PLATES IS ALLOWED.																																															



TOTAL WEIGHT = 104 lb
[M]

LUMBER				N. L. G. A. RULES	
CHORDS	SIZE	LUMBER	DESCR.		
1 - 3	2x4	DRY	No.2	SPF	
3 - 6	2x4	DRY	No.2	SPF	
6 - 8	2x4	DRY	No.2	SPF	
8 - 10	2x4	DRY	No.2	SPF	
18 - 2	2x4	DRY	No.2	SPF	
11 - 9	2x4	DRY	No.2	SPF	
18 - 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-p	MT20	5.0	8.0	1.75	3.50
3	TTWW-m	MT20	6.0	8.0	2.00	3.25
4	TMVW-t	MT20	3.0	4.0		
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	6.0	8.0	2.00	3.25
9	TMVW-p	MT20	5.0	8.0	1.75	3.50
11	BMV1+p	MT20	3.0	4.0	2.00	
12	BMVW-t	MT20	3.0	8.0	1.50	2.50
13	BMVW-t	MT20	4.0	5.0	1.75	1.50
14	BS-t	MT20	3.0	8.0		
15	BMVW-w	MT20	3.0	8.0		
16	BMVW-t	MT20	4.0	5.0	1.75	1.50
17	BMVW-t	MT20	3.0	8.0	1.50	2.50
18	BMV1+p	MT20	3.0	4.0	2.00	0.50

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) 240.5 lbs FACTORED DOWN AT 21-1-3, AND 240.5 lbs FACTORED DOWN AT 4-1-12 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.



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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQRD
GROSS REACTION		GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
18	2320	0	2320	0	5-8
11	2320	0	2320	0	5-8

UNFACTORED REACTIONS						
1ST LCASE		MAX./MIN. COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
18	1627	1146 / 0	0 / 0	0 / 0	0 / 0	481 / 0
11	1627	1146 / 0	0 / 0	0 / 0	0 / 0	481 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 18, 11

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.89 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING				TOTAL LOAD CASES: (4)			
CHORDS		WEBS		CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)
FR-TO		FROM TO		FR-TO		FROM TO	
1-2	0 / 29	-77.3 -77.3	0.11 (1)	10.00	17-3	-390 / 17	0.11 (1)
2-3	-2601 / 0	-77.3 -77.3	0.39 (1)	3.89	3-16	0 / 1753	0.43 (1)
3-4	-3453 / 0	-145.8 -145.8	0.63 (1)	3.10	16-4	-1040 / 0	0.29 (1)
4-5	-3830 / 0	-145.8 -145.8	0.67 (1)	2.89	4-15	0 / 514	0.13 (1)
5-6	-3830 / 0	-145.8 -145.8	0.67 (1)	2.89	15-5	-562 / 0	0.15 (1)
6-7	-3830 / 0	-145.8 -145.8	0.67 (1)	2.89	15-7	0 / 514	0.13 (1)
7-8	-3453 / 0	-145.8 -145.8	0.63 (1)	3.10	13-7	-1040 / 0	0.29 (1)
8-9	-2601 / 0	-77.3 -77.3	0.39 (1)	3.89	13-8	0 / 1753	0.43 (1)
9-10	0 / 29	-77.3 -77.3	0.11 (1)	10.00	12-8	-390 / 17	0.11 (1)
18-2	-2263 / 0	0.0 0.0	0.26 (1)	5.61	2-17	0 / 2229	0.55 (1)
11-9	-2263 / 0	0.0 0.0	0.26 (1)	5.61	12-9	0 / 2229	0.55 (1)
18-17	0 / 0	-33.0 -33.0	0.15 (4)	10.00			
17-16	0 / 2150	-33.0 -33.0	0.46 (1)	10.00			
16-15	0 / 3453	-33.0 -33.0	0.68 (1)	10.00			
15-14	0 / 3453	-33.0 -33.0	0.68 (1)	10.00			
14-13	0 / 3453	-33.0 -33.0	0.68 (1)	10.00			
13-12	0 / 2150	-33.0 -33.0	0.46 (1)	10.00			
12-11	0 / 0	-33.0 -33.0	0.15 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)					
JT	LOC.	LC1	MAX-	MAX+	FACE
3	4-1-12	-241	-241	---	FRONT
8	21-1-3	-241	-241	---	FRONT

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

GIRDER TYPE: CPrimeHip
SIDE SETBACK = 4-1-12
END SETBACK = 6-0-0
END WALL WIDTH = 5-8
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDTL LOADS BASED ON 55 % OF GSL.

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.84")
CALCULATED VERT. DEFL.(LL) = L/999 (0.16")
ALLOWABLE DEFL.(TL)= L/360 (0.84")
CALCULATED VERT. DEFL.(TL) = L/999 (0.28")

CSI: TC=0.67 (5-7:1), BC=0.68 (13-15:1), WB=0.55 (9-12:1), SSI=0.32 (3-4:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

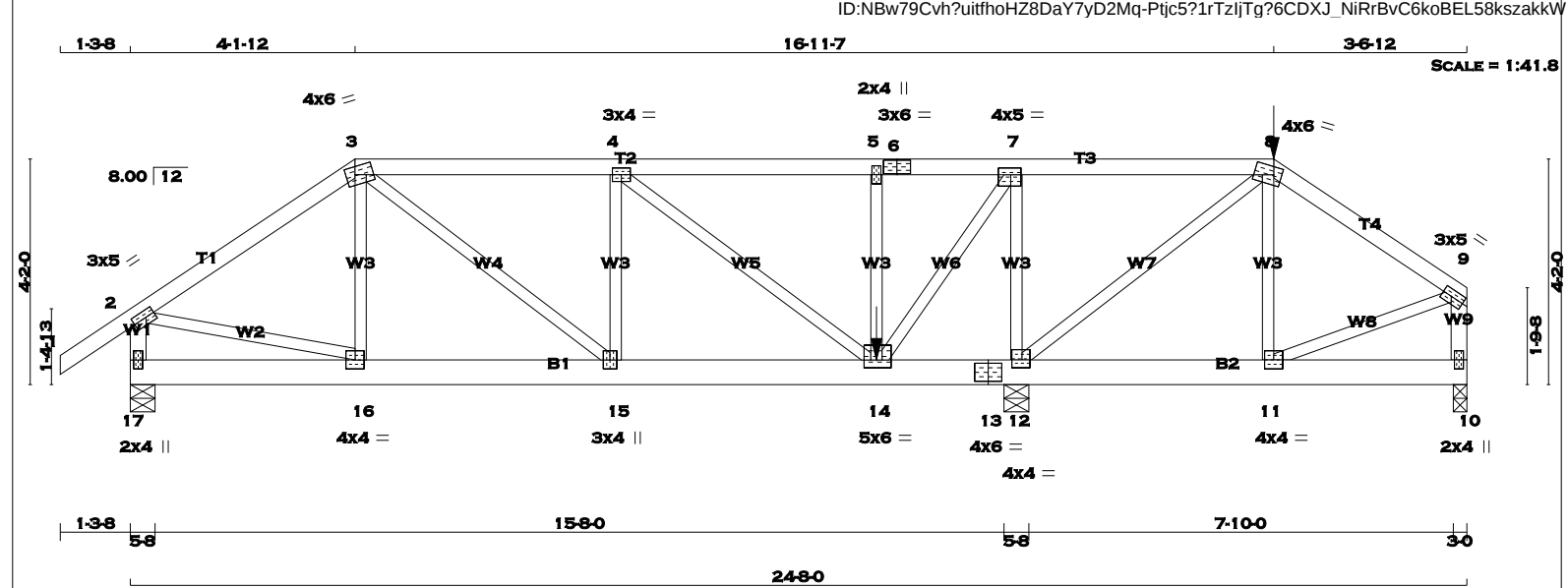
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (16) (INPUT = 0.90)
JSI METAL= 0.91 (14) (INPUT = 1.00)

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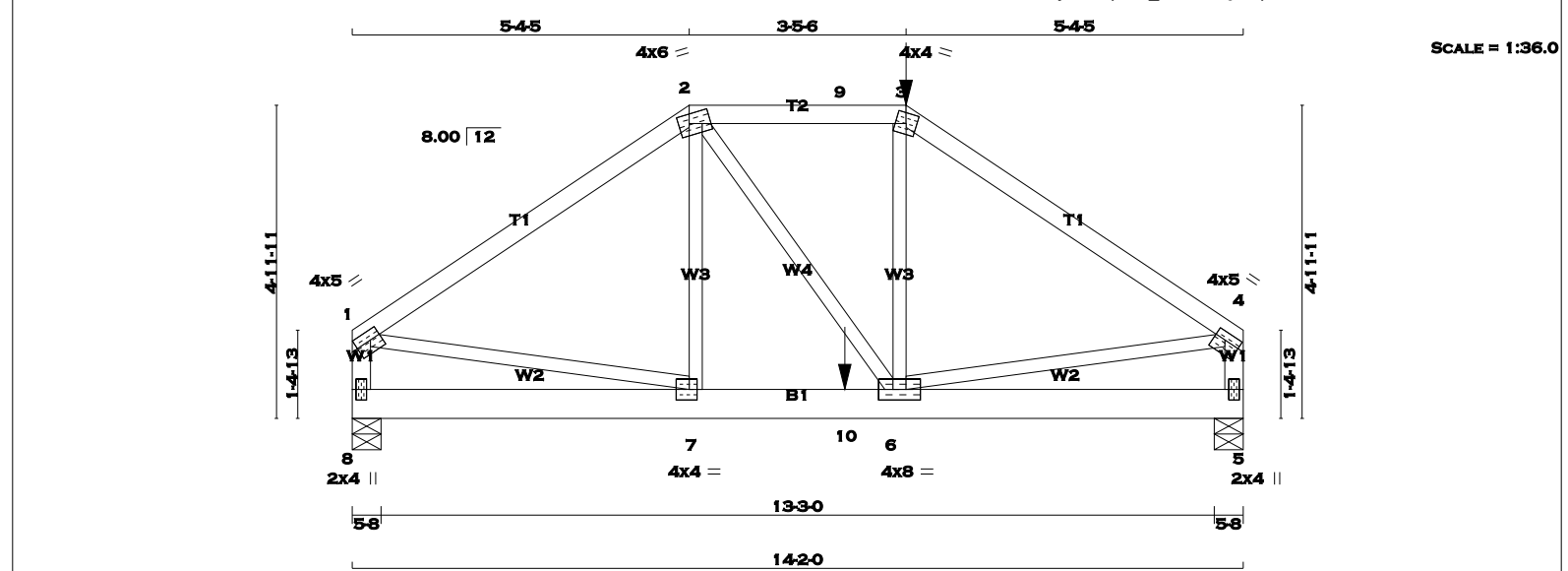


LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. 1 - 3 2x4 DRY No.2 SPF 3 - 6 2x4 DRY No.2 SPF 6 - 8 2x4 DRY No.2 SPF 8 - 9 2x4 DRY No.2 SPF 17 - 2 2x4 DRY No.2 SPF 10 - 9 2x4 DRY No.2 SPF 17 - 13 2x6 DRY No.2 SPF 13 - 10 2x6 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT DRY: SEASONED LUMBER.				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED MAXIMUM FACTORED INPUT REQRD GROSS REACTION GROSS REACTION BRG BRG DOWN HORZ UPLIFT IN-SX IN-SX JT 17 900 0 900 0 0 5-8 5-8 12 2681 0 2681 0 0 5-8 5-8 10 467 0 467 0 0 3-0 3-0 UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 17 630 453 / 0 0 / 0 0 / 0 177 / 0 0 / 0 12 1880 1323 / 0 0 / 0 0 / 0 557 / 0 0 / 0 10 330 217 / 0 0 / 0 0 / 0 113 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 17, 12, 10 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.93 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. LOADING TOTAL LOAD CASES: (4) CHORDS WEBS MAX. FACTORED MAX. FACTORED MEMB. FORCE VERT. LOAD LC1 MAX. MAX. MEMB. FORCE MAX. (LBS) (PLF) CSI (LC) UNBRAC (LBS) CSI (LC) FR-TO FROM TO LENGTH FR-TO 1-2 0 / 29 -77.3 -77.3 0.11 (1) 10.00 16-3 -75 / 46 0.02 (1) 2-3 -800 / 0 -77.3 -77.3 0.27 (1) 6.25 3-15 0 / 345 0.09 (1) 3-4 -934 / 0 -77.3 -77.3 0.33 (1) 5.93 15-4 -102 / 47 0.03 (1) 4-5 -503 / 0 -77.3 -77.3 0.31 (1) 6.25 4-14 -548 / 0 0.36 (1) 5-6 -503 / 0 -149.9 -149.9 0.49 (1) 6.25 14-5 -245 / 0 0.06 (1) 6-7 -503 / 0 -149.9 -149.9 0.49 (1) 6.25 14-7 0 / 1465 0.36 (1) 7-8 0 / 322 -149.9 -149.9 0.54 (1) 10.00 12-7 -1933 / 0 0.50 (1) 8-9 -301 / 0 -77.3 -77.3 0.19 (1) 6.25 12-8 -730 / 0 0.45 (1) 17-2 -868 / 0 0.0 0.0 0.10 (1) 7.81 11-8 -9 / 127 0.05 (4) 10-9 -400 / 0 0.0 0.0 0.05 (1) 7.81 2-16 0 / 682 0.17 (1) 11-9 0 / 267 0.07 (1) 17-16 0 / 0 -17.5 -17.5 0.04 (4) 10.00 16-15 0 / 662 -17.5 -17.5 0.11 (1) 10.00 15-14 0 / 934 -17.5 -17.5 0.20 (1) 10.00 14-13 -322 / 0 -33.9 -33.9 0.16 (1) 6.25 13-12 -322 / 0 -33.9 -33.9 0.16 (1) 6.25 12-11 0 / 250 -33.9 -33.9 0.19 (1) 10.00 11-10 0 / 0 -33.9 -33.9 0.05 (4) 10.00 FACTORED CONCENTRATED LOADS (LBS) JT LOC. LC1 MAX- MAX+ FACE DIR. TYPE 8 21-1-3 -207 -207 --- FRONT VERT TOTAL 14 13-9-4 -685 -685 --- 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 = 3-6-12 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 10-10-12 OF SPAN MEASURED FROM THE RIGHT. *** NON STANDARD GIRDER *** ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES. THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012, BCBC 2012, ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (0.55") CALCULATED VERT. DEFL.(LL) = L/999 (0.03") ALLOWABLE DEFL.(TL)= L/360 (0.55") CALCULATED VERT. DEFL.(TL) = L/999 (0.05") CSI: TC=0.54 (7-8:1), BC=0.20 (14-15:1), WB=0.50 (7-12:1), SSI=0.36 (7-8:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00 COMP=1.00 SHEAR=1.00 TENS=1.00 COMPANION LIVE LOAD FACTOR = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 822 2284 1656 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 0.5 degrees KOTT CONTINUED ON PAGE 2			
---	--	--	--	---	--	--	--	---	--	--	--



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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 = 66 lb [M]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
1 - 2	2x4	DRY	No.2	SPF
2 - 3	2x4	DRY	No.2	SPF
3 - 4	2x4	DRY	No.2	SPF
8 - 1	2x4	DRY	No.2	SPF
5 - 4	2x4	DRY	No.2	SPF
8 - 5	2x6	DRY	No.2	SPF
ALL WEBS 2x3 DRY No.2 SPF				
EXCEPT				
DRY: SEASONED LUMBER.				

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	4.0	5.0	1.75	Edge
2	TTWW-m	MT20	4.0	6.0	1.75	2.00
3	TTW-m	MT20	4.0	4.0		
4	TMVW-t	MT20	4.0	5.0	1.50	2.00
5	BMV1+p	MT20	2.0	4.0		
6	BMVWW-t	MT20	4.0	8.0		
7	BMVWW-t	MT20	4.0	4.0	2.00	1.50
8	BMV1+p	MT20	2.0	4.0		

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

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

HANGERS NOTES

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 172.7 lbs FACTORED DOWN AT 8-9-11 ON TOP CHORD, AND 788.0 lbs FACTORED DOWN AT 7-10-0 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.



DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG		
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
8	1111	0	1111	0	0	5-8	5-8		
5	1265	0	1265	0	0	5-8	5-8		

UNFACTORED REACTIONS							
JT	1ST LCASE COMBINED		MAX./MIN. SNOW		LIVE		PERM. LIVE
8	779	549 / 0	0 / 0	0 / 0	0 / 0	0 / 0	230 / 0
5	888	619 / 0	0 / 0	0 / 0	0 / 0	0 / 0	270 / 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 = 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 FORCE (LBS)		FACTORED VERT. LOAD (PLF)		MEMB.	MAX. FACTORED FORCE (LBS)		FACTORED VERT. LOAD (PLF)	
	FR-TO		FROM	TO		FR-TO		FROM	TO
1-2	-1234 / 0		-77.3	-77.3	0.49 (1)	5.10	7-2	0 / 94	0.03 (4)
2-9	-1205 / 0		-77.3	-77.3	0.21 (1)	5.55	2-6	0 / 305	0.08 (1)
9-3	-1205 / 0		-107.2	-107.2	0.21 (1)	5.55	6-3	0 / 262	0.07 (4)
3-4	-1439 / 0		-77.3	-77.3	0.51 (1)	4.79	1-7	0 / 1043	0.26 (1)
8-1	-1081 / 0		0.0	0.0	0.12 (1)	7.56	6-4	0 / 1215	0.30 (1)
5-4	-1223 / 0		0.0	0.0	0.14 (1)	7.22			
8-7	0 / 0		-17.5	-17.5	0.07 (1)	10.00			
7-10	0 / 1028		-17.5	-17.5	0.40 (1)	10.00			
10-6	0 / 1028		-24.2	-24.2	0.40 (1)	10.00			
6-5	0 / 0		-24.2	-24.2	0.10 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)							
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
3	8-9-11	-173	-173	---	FRONT	VERT	TOTAL
10	7-10-0	-788	-788	---	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

SIDE SETBACK = 5-4-5

END SETBACK = 4-0-0

END WALL WIDTH = 5-8

CORNER FRAMING TYPE: CONVENTIONAL

END JACK TYPE: CONVENTIONAL

APPLIED TO FRONT SIDE

- ADDTL LOADS BASED ON 55 % OF GSL.

LOADS APPLIED TO FIRST 6-4-0 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, 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 (0.05")

CSI: TC=0.51 (3-4:1) , BC=0.40 (6-7:1) , WB=0.30 (4-6:1) , SSI=0.42 (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)
	MAX	MIN	MAX	MIN	MAX
MT20	618	354	1667	822	2284

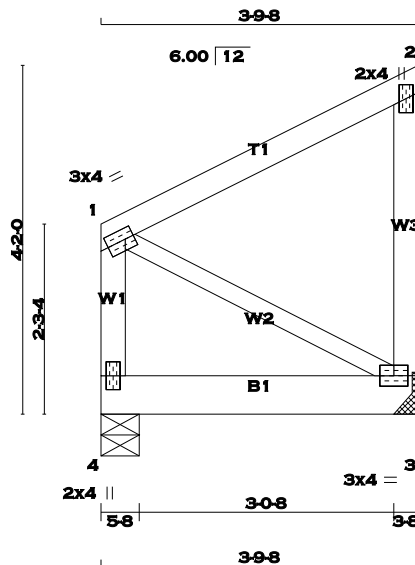
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 degrees



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SCALE = 1:27.5

TOTAL WEIGHT = 20 lb

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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	3.0	4.0	1.50	1.25
2	TMV+p	MT20	2.0	4.0		
3	BMVW1-t	MT20	3.0	4.0		
4	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
3		686	0	686	0	0	HANGER BY OTHERS		
4		686	0	686	0	0	MIN. SEAT SIZE: 3-8		

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
3	481	337 / 0	0 / 0	0 / 0	0 / 0	145 / 0	0 / 0		
4	481	337 / 0	0 / 0	0 / 0	0 / 0	145 / 0	0 / 0		

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX. (LC)	MEMB.	FORCE (LBS)	MAX. (LC)	
FR-TO		FROM	TO	FR-TO			
1-2	0 / 0	-77.3	-77.3 0.21 (1)	10.00	1-3	0 / 0	0.00 (1)
3-2	-147 / 0	0.0	0.0 0.04 (1)	7.81			
4-1	-147 / 0	0.0	0.0 0.02 (1)	7.81			
4-3	0 / 0	-284.3	-284.3 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

GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 13-8-8
END DISTANCE = 3-9-8
END SPAN CARRIED = 13-8-8
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL)= L/999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL)= L/999 (0.04")

CSI: TC=0.21 (1-2:1), BC=0.38 (3-4:1), WB=0.00 (1-3:1), SSI=0.36 (3-4:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) 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 (3) (INPUT = 0.90)
JSI METAL= 0.03 (2) (INPUT = 1.00)

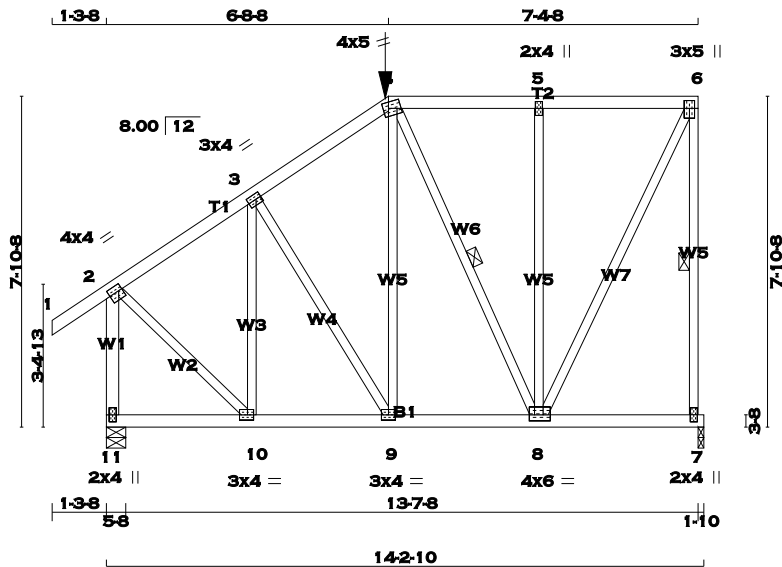


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IS AN INTEGRAL PART OF THIS DRAWING AS IT
CONTAINS SPECIFICATIONS AND CRITERIA USED
IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 2 X 83 = 165 lb [M]

LUMBER					
N. L. G. A. RULES					
CHORDS	SIZE		LUMBER		DESCR.
1 - 4	2x4	DRY	No.2		SPF
4 - 6	2x4	DRY	No.2		SPF
7 - 6	2x3	DRY	No.2		SPF
11- 2	2x4	DRY	No.2		SPF
11- 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	4.0	4.0	1.75	1.00
3	TMVW-t	MT20	3.0	4.0	1.50	1.50
4	TTWW-m	MT20	4.0	5.0	1.75	1.50
5	TMVW-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	BMVWV-t	MT20	4.0	6.0	1.75	1.50
9	BMVWV-t	MT20	3.0	4.0		
10	BMVWV-t	MT20	3.0	4.0	1.50	1.75
11	BMV1+p	MT20	2.0	4.0		

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

HANGERS NOTES
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 216.2 lbs FACTORED DOWN AT 6-8-8 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
7		981	0	981	0	0	1-10	1-10	
11		992	0	992	0	0	5-8	5-8	

UNFACTORED REACTIONS							
		1ST LCASE	MAX./MIN. COMPONENT REACTIONS				
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
7		687	488 / 0	0 / 0	0 / 0	0 / 0	199 / 0
11		695	495 / 0	0 / 0	0 / 0	0 / 0	200 / 0

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

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

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 6-7. DBS = 14-0-0 . CBF = 82 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-8. DBS = 20-0-0 . CBF = 28 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)		MEMB.		MAX. FACTORED FORCE (LBS)	
		FACTORED VERT. LOAD LC1 MAX (PLF)				MAX. FACTORED UNBRAC LENGTH FR-TO	
FR-TO		FROM TO		FR-TO			
1-2		-77.3 -77.3 0.11 (1)		10.00 10-3		-334 / 0 0.17 (1)	
2-3		-561 / 0 -77.3 -77.3 0.16 (1)		6.25 3-9		-12 / 9 0.01 (4)	
3-4		-602 / 0 -77.3 -77.3 0.16 (1)		6.25 9-4		0 / 94 0.04 (4)	
4-5		-390 / 0 -107.2 -107.2 0.25 (1)		6.25 4-8		-223 / 0 0.11 (1)	
5-6		-391 / 0 -107.2 -107.2 0.25 (1)		6.25 8-5		-484 / 0 0.57 (1)	
7-6		-940 / 0 0.0 0.0 0.38 (1)		5.61 8-6		0 / 874 0.22 (1)	
11-2		-958 / 0 0.0 0.0 0.20 (1)		7.81 2-10		0 / 643 0.16 (1)	
11-10		0 / 0 -24.2 -24.2 0.07 (4)		10.00			
10-9		0 / 480 -24.2 -24.2 0.12 (1)		10.00			
9-8		0 / 486 -24.2 -24.2 0.12 (4)		10.00			
8-7		0 / 0 -24.2 -24.2 0.09 (4)		10.00			

FACTORED CONCENTRATED LOADS (LBS)					
JT	LOC.	LC1	MAX-	MAX+	FACE
4	6-8-8	-216	-216	---	FRONT

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 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 = 6-8-8
RIGHT SETBACK = 0-0
END SETBACK = 4-0-0
END WALL WIDTH = 5-8
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDTL LOADS BASED ON 55 % OF GSL.

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.47")
CALCULATED VERT. DEFL.(LL)= L/999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.47")
CALCULATED VERT. DEFL.(TL)= L/999 (0.03")

CSI: TC=0.38 (6-7:1) , BC=0.12 (9-10:1) , WB=0.57 (5-8:1) , SSI=0.21 (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.

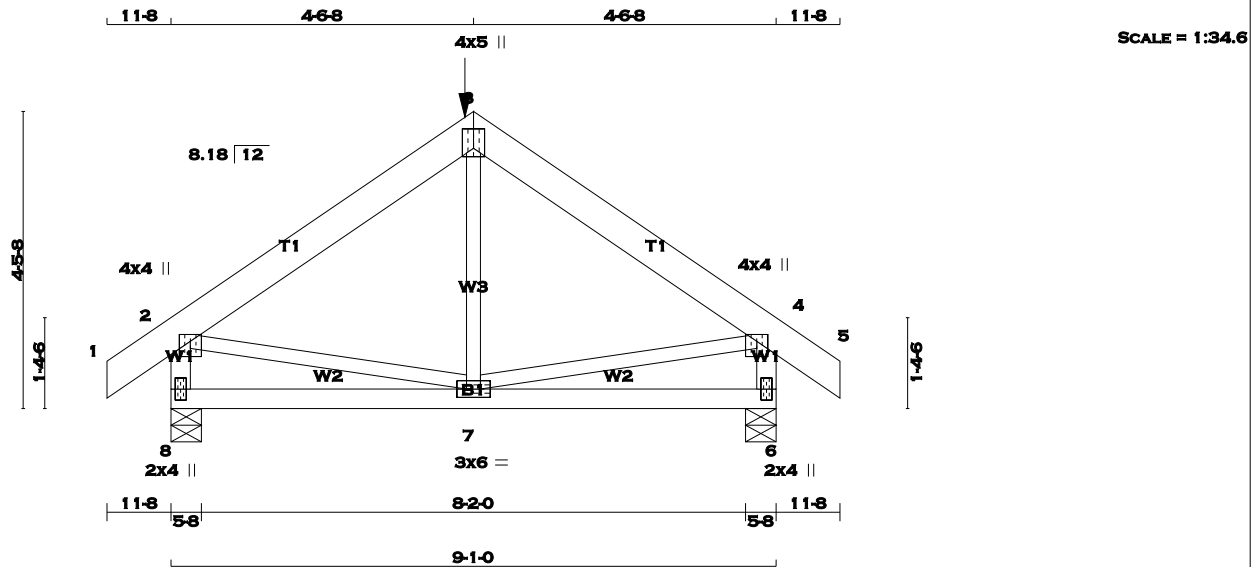
JSI GRIP= 0.88 (10) (INPUT = 0.90)
JSI METAL= 0.26 (2) (INPUT = 1.00)



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

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x6	DRY	No.2	SPF
3 - 5	2x6	DRY	No.2	SPF
8 - 2	2x4	DRY	No.2	SPF
6 - 4	2x4	DRY	No.2	SPF
8 - 6	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW+p	MT20	4.0	4.0	1.25	2.00
3	TTW+p	MT20	4.0	5.0	3.50	2.00
4	TMVW+p	MT20	4.0	4.0	1.25	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.

HANGERS NOTES

- SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 197.0 lbs FACTORED DOWN AT 4-6-8 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
8	632	0	632	0	0	5-8	5-8	
6	632	0	632	0	0	5-8	5-8	

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX/MIN. SNOW		LIVE		PERM. LIVE		WIND		DEAD		SOIL	
	VERT	HORZ	DOWN	HORZ	DOWN	HORZ	DOWN	HORZ	DOWN	HORZ	DOWN	HORZ	DOWN	HORZ
8	441	321 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	120 / 0	0 / 0	120 / 0	0 / 0	0 / 0	0 / 0
6	441	321 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	120 / 0	0 / 0	120 / 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. 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 / 24	-77.3 -77.3	0.04 (1)	10.00	7-3	-36 / 91	0.03 (4)
2-3	-455 / 0	-77.3 -77.3	0.15 (1)	6.25	2-7	0 / 384	0.10 (1)
3-4	-455 / 0	-77.3 -77.3	0.15 (1)	6.25	7-4	0 / 384	0.10 (1)
4-5	0 / 24	-77.3 -77.3	0.04 (1)	10.00			
8-2	-594 / 0	0.0 0.0	0.07 (1)	7.81			
6-4	-594 / 0	0.0 0.0	0.07 (1)	7.81			
8-7	0 / 0	-21.6 -21.6	0.14 (4)	10.00			
7-6	0 / 0	-21.6 -21.6	0.14 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
3	4-6-8	-197	-197	---	FRONT	VERT	TOTAL

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C/C

GIRDER TYPE: CPrimeHip
SIDE SETBACK = 4-6-8
END SETBACK = 3-2-3
END WALL WIDTH = 3-0
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDTL LOADS BASED ON 55 % OF GSL.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, 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 (0.30")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.30")
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.15 (3-4:1), BC=0.14 (7-8:4), WB=0.10 (4-7:1), SSI=0.10 (3-4:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) 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 (7) (INPUT = 0.90)
JSI METAL= 0.14 (4) (INPUT = 1.00)



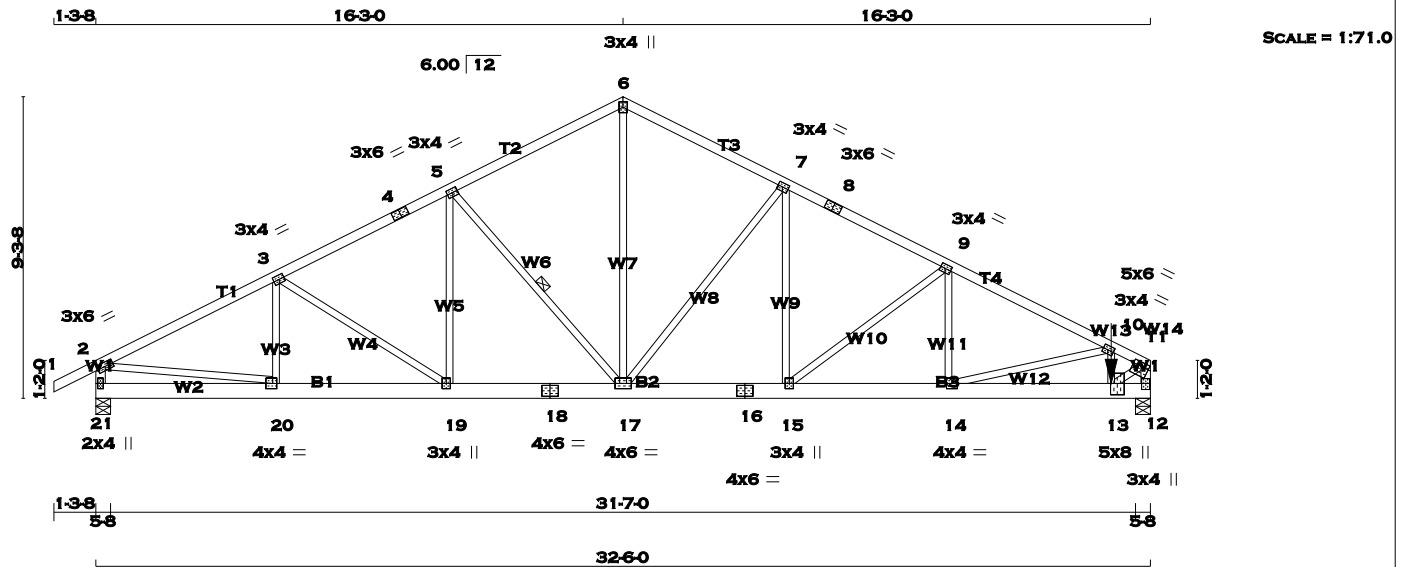
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IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 2 X 157 = 315 lb
[M]

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	No.2	SPF
4 - 6	2x4	No.2	SPF
6 - 8	2x4	No.2	SPF
8 - 11	2x4	No.2	SPF
21 - 2	2x4	No.2	SPF
12 - 11	2x4	No.2	SPF
21 - 18	2x6	No.2	SPF
18 - 16	2x6	No.2	SPF
16 - 12	2x6	No.2	SPF
ALL WEBS EXCEPT	2x3	No.2	SPF

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
1-4	12	TOP
4-6	12	TOP
6-8	12	TOP
8-11	12	TOP
21-2	12	TOP
12-11	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
21-18	2	TOP
18-16	2	TOP
16-12	2	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	1	6

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

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
21	1773	0	1773	0	0	5-8	5-8	5-8	5-8
12	4831	0	4831	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
21	1242	882 / 0	0 / 0	0 / 0	0 / 0	360 / 0	0 / 0
12	3391	2372 / 0	0 / 0	0 / 0	0 / 0	1019 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 21, 12

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.51 FT. 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 = 20-0-0 . CBF = 78 LBS.

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

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

LOADING

TOTAL LOAD CASES: (3)

CHORDS				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			
1-2	0 / 23	-77.3 -77.3	0.06 (1)	10.00	20-3	-232 / 21	0.03 (1)
2-3	-2496 / 0	-77.3 -77.3	0.21 (1)	5.51	3-19	-235 / 0	0.09 (1)
3-4	-2294 / 0	-77.3 -77.3	0.20 (1)	5.70	19-5	0 / 223	0.03 (1)
4-5	-2294 / 0	-77.3 -77.3	0.20 (1)	5.70	5-17	-622 / 0	0.14 (1)
5-6	-1858 / 0	-77.3 -77.3	0.19 (1)	6.18	17-6	0 / 1322	0.16 (1)
6-7	-1857 / 0	-77.3 -77.3	0.17 (1)	6.21	17-7	-929 / 0	0.64 (1)
7-8	-2480 / 0	-77.3 -77.3	0.18 (1)	5.55	15-7	0 / 589	0.07 (1)
8-9	-2480 / 0	-77.3 -77.3	0.18 (1)	5.55	15-9	-887 / 0	0.32 (1)
9-10	-3255 / 0	-77.3 -77.3	0.19 (1)	5.00	14-9	0 / 487	0.06 (1)
10-11	-4372 / 0	-77.3 -77.3	0.10 (1)	4.51	14-10	-1042 / 0	0.24 (1)
21-2	-1719 / 0	0.0 0.0	0.09 (1)	7.81	13-10	0 / 522	0.06 (1)
12-11	-4486 / 0	0.0 0.0	0.25 (1)	5.63	2-20	0 / 2269	0.28 (1)
					13-11	0 / 4663	0.58 (1)

21-20	0 / 0	-17.5 -17.5	0.03 (3)	10.00
20-19	0 / 2248	-17.5 -17.5	0.17 (1)	10.00
19-18	0 / 2052	-17.5 -17.5	0.16 (1)	10.00
18-17	0 / 2052	-17.5 -17.5	0.16 (1)	10.00
17-16	0 / 2220	-17.5 -17.5	0.17 (1)	10.00
16-15	0 / 2220	-17.5 -17.5	0.17 (1)	10.00
15-14	0 / 2921	-17.5 -17.5	0.22 (1)	10.00
14-13	0 / 3926	-17.5 -17.5	0.40 (1)	10.00
13-12	0 / 0	-17.5 -17.5	0.15 (1)	10.00

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
13	31-3-8	-3417	-3417	---	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

*** 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 (1.08")
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (1.08")
CALCULATED VERT. DEFL.(TL) = L/999 (0.11")

CSI: TC=0.25 (11-12:1) , BC=0.40 (13-14:1) ,
WB=0.64 (7-17:1) , SSI=0.11 (12-13:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) 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= 0.55 (11) (INPUT = 1.00)

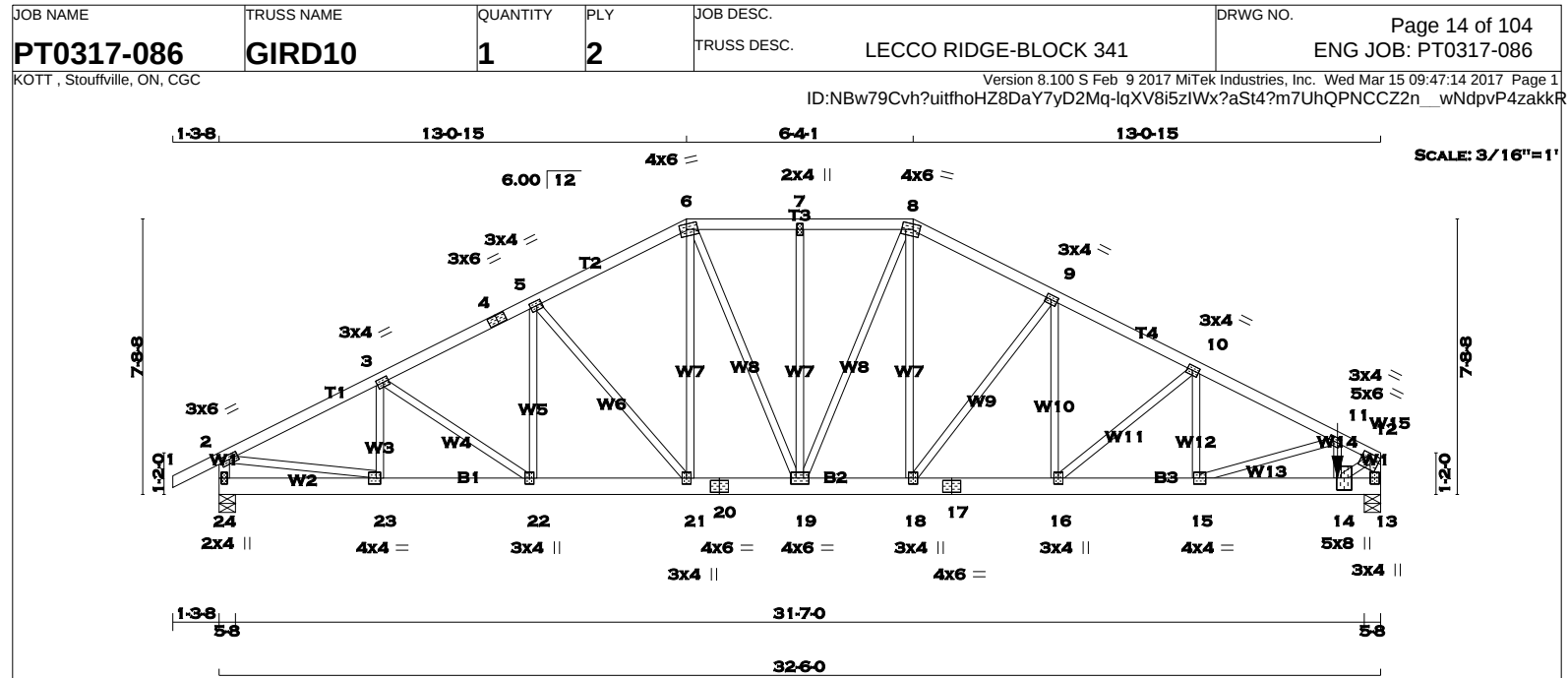


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ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE
IS AN INTEGRAL PART OF THIS DRAWING AS IT
CONTAINS SPECIFICATIONS AND CRITERIA USED
IN THE DESIGN OF THIS COMPONENT.



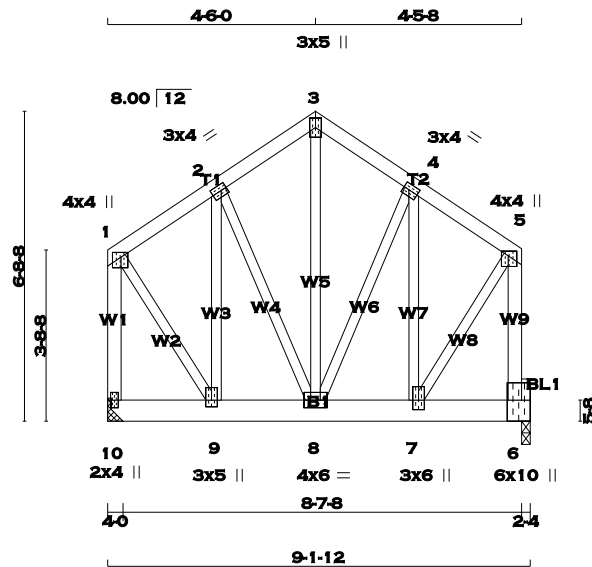
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. 1 - 4 2x4 DRY No.2 SPF 4 - 6 2x4 DRY No.2 SPF 6 - 8 2x4 DRY No.2 SPF 8 - 12 2x4 DRY No.2 SPF 24 - 2 2x4 DRY No.2 SPF 13 - 12 2x4 DRY No.2 SPF 24 - 20 2x6 DRY No.2 SPF 20 - 17 2x6 DRY No.2 SPF 17 - 13 2x6 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT 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 1-4 1 12 TOP 4-6 1 12 TOP 6-8 1 12 TOP 8-12 1 12 TOP 24-2 1 12 TOP 13-12 1 12 TOP BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS 24-20 2 12 TOP 20-17 2 12 TOP 17-13 2 12 TOP WEBS : (0.122"x3") SPIRAL NAILS 2x3 1 6 SIDE(0.0) NAILS TO BE DRIVEN FROM ONE SIDE ONLY. GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS. TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY. SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERING. REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP.			DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT REQRD JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX 24 1773 0 1773 0 0 5-8 5-8 13 4831 0 4831 0 0 5-8 5-8 UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 24 1242 882 / 0 0 / 0 0 / 0 360 / 0 0 / 0 13 3391 2372 / 0 0 / 0 0 / 0 1019 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 24, 13 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.56 FT. 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 MAX. FACTORED FORCE (LBS) FACTORED VERT. LOAD (PLF) MAX. CSI (LC) UNBRAC LENGTH FR-TO MEMB. FR-TO 1-2 0 / 23 -77.3 -77.3 0.06 (1) 10.00 23-3 -328 / 0 0.03 (1) 2-3 -2432 / 0 -77.3 -77.3 0.13 (1) 5.65 3-22 -40 / 0 0.01 (1) 3-4 -2408 / 0 -77.3 -77.3 0.13 (1) 5.68 22-5 0 / 111 0.02 (3) 4-5 -2408 / 0 -77.3 -77.3 0.13 (1) 5.68 5-21 -441 / 0 0.19 (1) 5-6 -2105 / 0 -77.3 -77.3 0.12 (1) 5.98 21-6 0 / 402 0.05 (1) 6-7 -2003 / 0 -77.3 -77.3 0.07 (1) 6.15 6-19 0 / 326 0.04 (1) 7-8 -2003 / 0 -77.3 -77.3 0.07 (1) 6.15 19-7 -285 / 0 0.15 (1) 8-9 -2221 / 0 -77.3 -77.3 0.11 (1) 5.88 19-8 0 / 49 0.01 (1) 9-10 -2756 / 0 -77.3 -77.3 0.12 (1) 5.40 18-8 0 / 718 0.09 (1) 10-11 -3428 / 0 -77.3 -77.3 0.13 (1) 4.95 18-9 -812 / 0 0.33 (1) 11-12 -4329 / 0 -77.3 -77.3 0.07 (1) 4.56 16-9 0 / 552 0.07 (1) 24-2 -1720 / 0 0.0 0.0 0.09 (1) 7.81 16-10 -803 / 0 0.18 (1) 13-12 -4467 / 0 0.0 0.0 0.25 (1) 5.64 15-10 0 / 493 0.06 (1) 15-11 -839 / 0 0.13 (1) 24-23 0 / 0 -17.5 -17.5 0.03 (1) 10.00 14-11 0 / 505 0.06 (1) 23-22 0 / 2187 -17.5 -17.5 0.17 (1) 10.00 2-23 0 / 2219 0.27 (1) 22-21 0 / 2154 -17.5 -17.5 0.15 (1) 10.00 14-12 0 / 4596 0.57 (1) 21-20 0 / 1874 -17.5 -17.5 0.13 (1) 10.00 20-19 0 / 1874 -17.5 -17.5 0.13 (1) 10.00 19-18 0 / 1984 -17.5 -17.5 0.14 (1) 10.00 18-17 0 / 2466 -17.5 -17.5 0.18 (1) 10.00 17-16 0 / 2466 -17.5 -17.5 0.18 (1) 10.00 16-15 0 / 3078 -17.5 -17.5 0.22 (1) 10.00 15-14 0 / 3870 -17.5 -17.5 0.41 (1) 10.00 14-13 0 / 0 -17.5 -17.5 0.16 (1) 10.00 FACTORED CONCENTRATED LOADS (LBS) JT LOC. LC1 MAX- MAX+ FACE DIR. TYPE 14 31-3-8 -3417 -3417 --- FRONT VERT TOTAL			DESIGN CRITERIA *** SPECIAL LOADS ANALYSIS *** GEOMETRY AND/OR BASIC LOADS CHANGED BY USER. LOADS WERE DERIVED FROM USER INPUT NO FURTHER MODIFICATIONS WERE MADE SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.0 PSF TOTAL LOAD = 33.3 PSF SPACING = 24.0 IN. C/C LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12 *** NON STANDARD GIRDER *** ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES. THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012, BCBC 2012, ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (1.08") CALCULATED VERT. DEFL.(LL) = L/999 (0.06") ALLOWABLE DEFL.(TL)= L/360 (1.08") CALCULATED VERT. DEFL.(TL) = L/999 (0.10") CSI: TC=0.25 (12-13:1), BC=0.41 (14-15:1), WB=0.57 (12-14:1), SSI=0.12 (13-14:1) 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 (12) (INPUT = 0.90) JSI METAL= 0.54 (12) (INPUT = 1.00)		
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TOTAL WEIGHT = 4 X 63 = 251 lb [M]

LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
10 - 1	2x4	DRY	No.2	SPF
6 - 5	2x4	DRY	No.2	SPF
10 - 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
10-1	12	TOP
6-5	12	TOP

BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
10-6	8	SIDE(340.4)

WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW+p	MT20	4.0	4.0	1.25	1.75
2	TMWW-t	MT20	3.0	4.0	1.50	1.50
3	TTW+p	MT20	3.0	5.0		
4	TMWW-t	MT20	3.0	4.0	1.50	1.50
5	TMVW+p	MT20	4.0	4.0	1.25	1.75
6	BMVK1+p	MT20	6.0	10.0	5.50	Edge
7	BMWW-t	MT20	3.0	6.0	2.50	1.50

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
10	3417	0	3417	0	0
6	3429	0	3429	0	0

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
10	2398	1678 / 0	0 / 0	0 / 0	0 / 0	721 / 0	0 / 0
6	2406	1685 / 0	0 / 0	0 / 0	0 / 0	721 / 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 = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
1-2	-1499 / 0	-77.3 -77.3	0.05 (1)	9-2	-99 / 4	0.02 (1)	
2-3	-1469 / 0	-77.3 -77.3	0.04 (1)	6-25	-64 / 0	0.02 (1)	
3-4	-1469 / 0	-77.3 -77.3	0.04 (1)	6-25	0 / 1465	0.18 (1)	
4-5	-1418 / 0	-77.3 -77.3	0.05 (1)	6-25	0 / 107	0.01 (1)	
10-1	-2673 / 0	0.0 0.0	0.29 (1)	6-97	-299 / 0	0.06 (1)	
6-5	-2733 / 0	0.0 0.0	0.30 (1)	6-91	1-9	0 / 2150	0.27 (1)
				7-5	0 / 2264	0.28 (1)	
10-9	0 / 0	-698.2 -698.2	0.08 (1)	10.00			
9-8	0 / 1248	-698.2 -698.2	0.08 (1)	10.00			
8-7	0 / 1179	-698.2 -698.2	0.08 (1)	10.00			
7-6	-120 / 0	-698.2 -698.2	0.07 (1)	6.25			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 31-2-0
END DISTANCE = 9-1-12
END SPAN CARRIED = 31-2-0
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 (0.29")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.29")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.30 (5-6:1), BC=0.08 (9-10:1), WB=0.28 (5-7:1), SSI=0.30 (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= 0.88 (9) (INPUT = 0.90)
JSI METAL= 0.28 (7) (INPUT = 1.00)

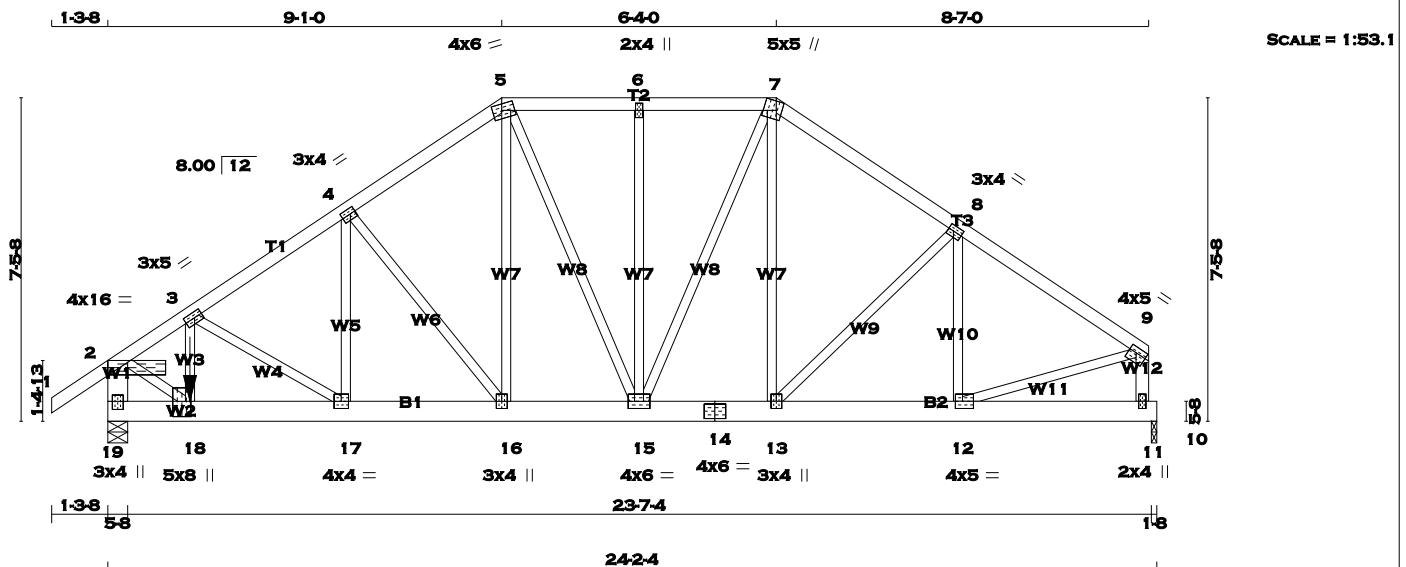


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TOTAL WEIGHT = 133 lb
[M]

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 5	2x4	DRY	No.2
5 - 7	2x4	DRY	No.2
7 - 9	2x4	DRY	No.2
19 - 2	2x6	DRY	No.2
11 - 9	2x4	DRY	No.2
19 - 14	2x6	DRY	No.2
14 - 10	2x6	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-p	MT20	4.0	16.0	Edge	5.50
3	TMVW-t	MT20	3.0	5.0	1.50	2.25
4	TMVW-t	MT20	3.0	4.0	1.50	1.50
5	TTWW-m	MT20	4.0	6.0	1.75	2.50
6	TMW+w	MT20	2.0	4.0		
7	TTWW+m	MT20	5.0	5.0	2.50	1.50
8	TMVW-t	MT20	3.0	4.0	1.50	1.50
9	TMVW-t	MT20	4.0	5.0	1.50	2.00
11	BMV+p	MT20	2.0	4.0		
12	BMVW-t	MT20	4.0	5.0	2.00	2.00
13	BMVW-t	MT20	3.0	4.0		
14	BS-t	MT20	4.0	6.0		
15	BMVW-t	MT20	4.0	6.0		
16	BMVW-t	MT20	3.0	4.0		
17	BMVW-t	MT20	4.0	4.0		
18	BMVW-t	MT20	5.0	8.0	4.25	1.50
19	BMV1+p	MT20	3.0	4.0	2.25	1.50
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.						
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.						

HANGERS NOTES
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 1869.4 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	
JT	VERT	DOWN	UP
19	2979	0	0
10	1276	0	0
UNFACTORED REACTIONS			
JT	COMBINED	SNOW	LIVE
19	2088	1475 / 0	0 / 0
10	896	625 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 19, 10

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.02 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING			
TOTAL LOAD CASES: (3)			
CHORDS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)
FR-TO		FROM	TO
1-2	0 / 29	-77.3	-77.3 0.11 (1)
2-3	-2690 / 0	-77.3	-77.3 0.20 (1)
3-4	-1967 / 0	-77.3	-77.3 0.24 (1)
4-5	-1484 / 0	-77.3	-77.3 0.21 (1)
5-6	-1235 / 0	-77.3	-77.3 0.15 (1)
6-7	-1235 / 0	-77.3	-77.3 0.15 (1)
7-8	-1327 / 0	-77.3	-77.3 0.30 (1)
8-9	-1427 / 0	-77.3	-77.3 0.30 (1)
19-2	-2864 / 0	0.0	0.0 0.20 (1)
11-9	-1300 / 0	0.0	0.0 0.15 (1)
19-18	0 / 0	-17.5	-17.5 0.14 (1)
18-17	0 / 2223	-17.5	-17.5 0.43 (1)
17-16	0 / 1650	-17.5	-17.5 0.23 (1)
16-15	0 / 1227	-17.5	-17.5 0.17 (1)
15-14	0 / 1086	-17.5	-17.5 0.15 (1)
14-13	0 / 1086	-17.5	-17.5 0.15 (1)
13-12	0 / 1205	-17.5	-17.5 0.19 (1)
12-11	0 / 0	-17.5	-17.5 0.18 (1)
11-10	0 / 0	-17.5	-17.5 0.18 (1)
FACTORED CONCENTRATED LOADS (LBS)			
JT	LOC.	LC1	MAX- MAX+
18	1-10-12	-1869	-1869 ---

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

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 (0.81")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.81")
CALCULATED VERT. DEFL.(TL) = L/999 (0.08")

CSI: TC=0.30 (8-9:1), BC=0.43 (17-18:1), WB=0.62 (2-18:1), SSI=0.85 (10-11:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

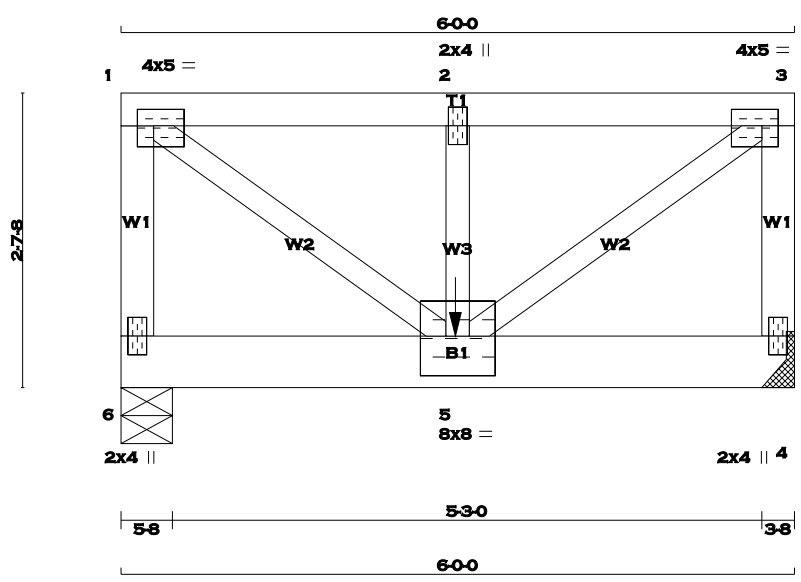
JSI GRIP= 0.90 (2) (INPUT = 0.90)
JSI METAL= 0.58 (18) (INPUT = 1.00)



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SCALE = 1:20.5

TOTAL WEIGHT = 29 lb [M]

LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
6 - 1	2x4	DRY	No.2		SPF
1 - 3	2x4	DRY	No.2		SPF
4 - 3	2x4	DRY	No.2		SPF
6 - 4	2x6	DRY	No.2		SPF
ALL WEBS 2x3 DRY No.2					SPF
DRY: SEASONED LUMBER.					

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
1	TMW-t	MT20	4.0	5.0	1.75	1.75
2	TMW-w	MT20	2.0	4.0		
3	TMW-t	MT20	4.0	5.0	1.75	1.75
4	BMV1+p	MT20	2.0	4.0		
5	BMVWW-t	MT20	8.0	8.0	4.25	4.00
6	BMV1+p	MT20	2.0	4.0		

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

HANGERS NOTES
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 501.6 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		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX	IN-SX	IN-SX
6		1407	0	1407	0	0	5-8	5-8	
4		1870	0	1870	0	0			HANGER BY OTHERS MIN. SEAT SIZE: 3-8

UNFACTORED REACTIONS							
JT	1ST LCASE	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
6	987	691 / 0	0 / 0	0 / 0	0 / 0	0 / 0	297 / 0
4	1312	918 / 0	0 / 0	0 / 0	0 / 0	0 / 0	394 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.38 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED (LC) UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED (LC) UNBRAC LENGTH	
FR-TO		FROM TO		FR-TO			
6-1	-1134 / 0	0.0	0.0 0.15 (1)	7.42	1-5	0 / 1718	0.43 (1)
1-2	-1375 / 0	-77.3	-77.3 0.13 (1)	5.38	5-2	-256 / 0	0.04 (1)
2-3	-1375 / 0	-77.3	-77.3 0.13 (1)	5.38	5-3	0 / 1718	0.43 (1)
4-3	-1134 / 0	0.0	0.0 0.15 (1)	7.42			
6-5	0 / 0	-230.9	-230.9 0.16 (1)	10.00			
5-4	0 / 0	-539.4	-539.4 0.37 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)					
JT	LOC.	LC1	MAX-	MAX+	FACE DIR.
5	2-11-12	-502	-502	---	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: 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 = 24-1-10
END DISTANCE = 6-0-0
END SPAN CARRIED = 24-1-10
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 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")

CSI: TC=0.15 (1-6:1) , BC=0.37 (4-5:1) , WB=0.43 (1-5:1) , SSI=0.59 (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

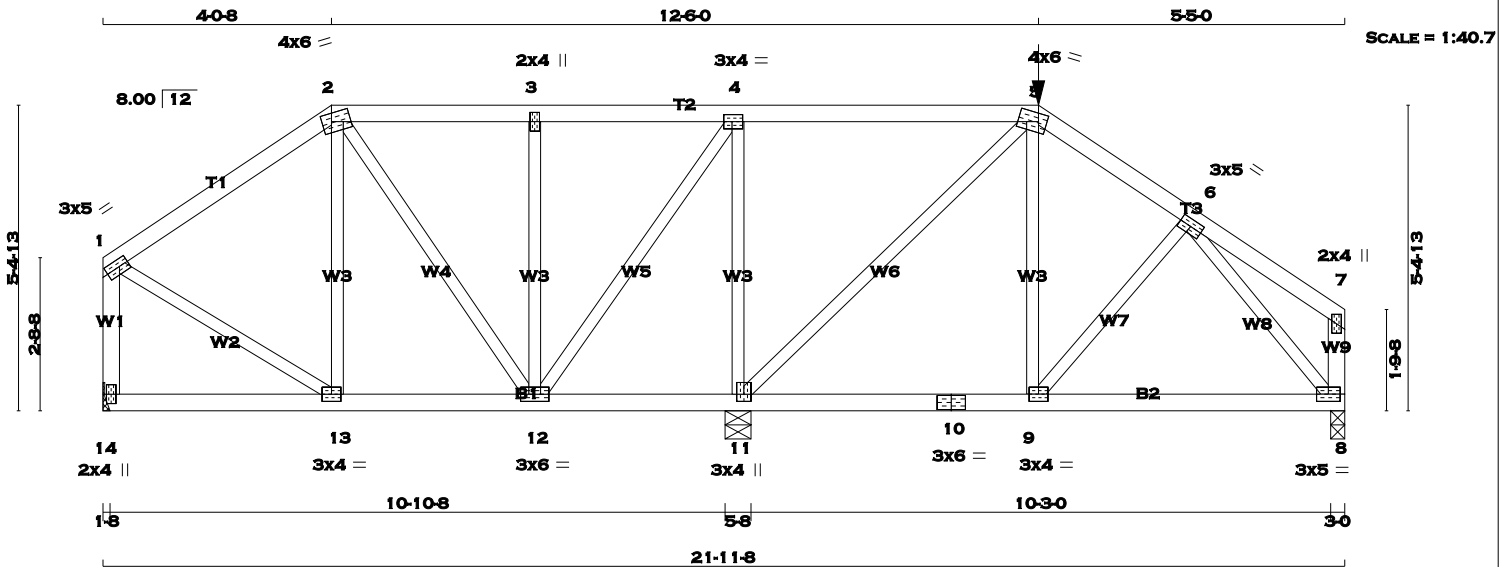
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .



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TOTAL WEIGHT = 98 lb [M]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
1 - 2	2x4	DRY	No.2	SPF
2 - 5	2x4	DRY	No.2	SPF
5 - 7	2x4	DRY	No.2	SPF
14 - 1	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
1	TMVW-t	MT20	3.0	5.0	1.50	2.00
2	TTWW-m	MT20	4.0	6.0	1.75	2.00
3	TMW+w	MT20	2.0	4.0		
4	BMWW-t	MT20	3.0	4.0	1.50	1.75
5	TTWW-m	MT20	4.0	6.0	1.75	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	BMWW-t	MT20	3.0	4.0		
10	BS-t	MT20	3.0	6.0		
11	BMWW1+t	MT20	3.0	4.0	1.50	1.50
12	BMWWW-t	MT20	3.0	6.0		
13	BMWW-t	MT20	3.0	4.0		
14	BMV1+p	MT20	2.0	4.0		

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

HANGERS NOTES

- SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 314.2 lbs FACTORED DOWN AT 16-6-8 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX		
14	501	0		501	0	0		HANGER BY OTHERS	
MIN. SEAT SIZE: 1-8									
11	1621	0		1621	0	0		5-8	5-8
8	805	0		805	0	0		3-0	3-0

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
14	352	244 / 0	0 / 0	0 / 0	0 / 0	108 / 0	0 / 0		
11	1136	806 / 0	0 / 0	0 / 0	0 / 0	329 / 0	0 / 0		
8	568	380 / 0	0 / 0	0 / 0	0 / 0	188 / 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		FACTORED		MAX. FACTORED		WEBS		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. (PLF)	LOAD LC1	MAX. (LC)	UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX. (LC)	
FR-TO		FROM TO				FR-TO			
1-2	-305 / 0	-77.3 -77.3	0.24 (1)	6.25	13-2	-61 / 44	0.03 (1)		
2-3	-212 / 0	-77.3 -77.3	0.17 (1)	6.25	2-12	-69 / 0	0.05 (1)		
3-4	-213 / 0	-77.3 -77.3	0.54 (1)	6.25	12-3	-195 / 0	0.09 (1)		
4-5	-13 / 0	-145.8 -145.8	0.53 (1)	6.25	12-4	0 / 346	0.09 (1)		
5-6	-680 / 0	-77.3 -77.3	0.09 (1)	6.25	11-4	-967 / 0	0.44 (1)		
6-7	0 / 12	-77.3 -77.3	0.09 (1)	10.00	11-5	-755 / 0	0.78 (1)		
14-1	-472 / 0	0.0 0.0	0.07 (1)	7.81	9-5	0 / 199	0.08 (4)		
8-7	-84 / 0	0.0 0.0	0.01 (1)	7.81	9-6	0 / 43	0.02 (4)		
					1-13	0 / 293	0.07 (1)		
14-13	0 / 0	-17.5 -17.5	0.08 (4)	10.00	6-8	-840 / 0	0.25 (1)		
13-12	0 / 252	-17.5 -17.5	0.10 (4)	10.00					
12-11	0 / 13	-17.5 -17.5	0.13 (4)	10.00					
11-10	0 / 558	-33.0 -33.0	0.31 (4)	10.00					
10-9	0 / 558	-33.0 -33.0	0.31 (4)	10.00					
9-8	0 / 536	-33.0 -33.0	0.31 (4)	10.00					

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
5	16-6-8	-314	-314	---	FRONT	VERT	TOTAL

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C/C

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

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.36")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.36")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.05")

CSI: TC=0.54 (3-4:1) , BC=0.31 (9-11:4) , WB=0.78 (5-11:1) , SSI=0.39 (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 (PSI)	SECTION (PLI)
	MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1667 822	2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

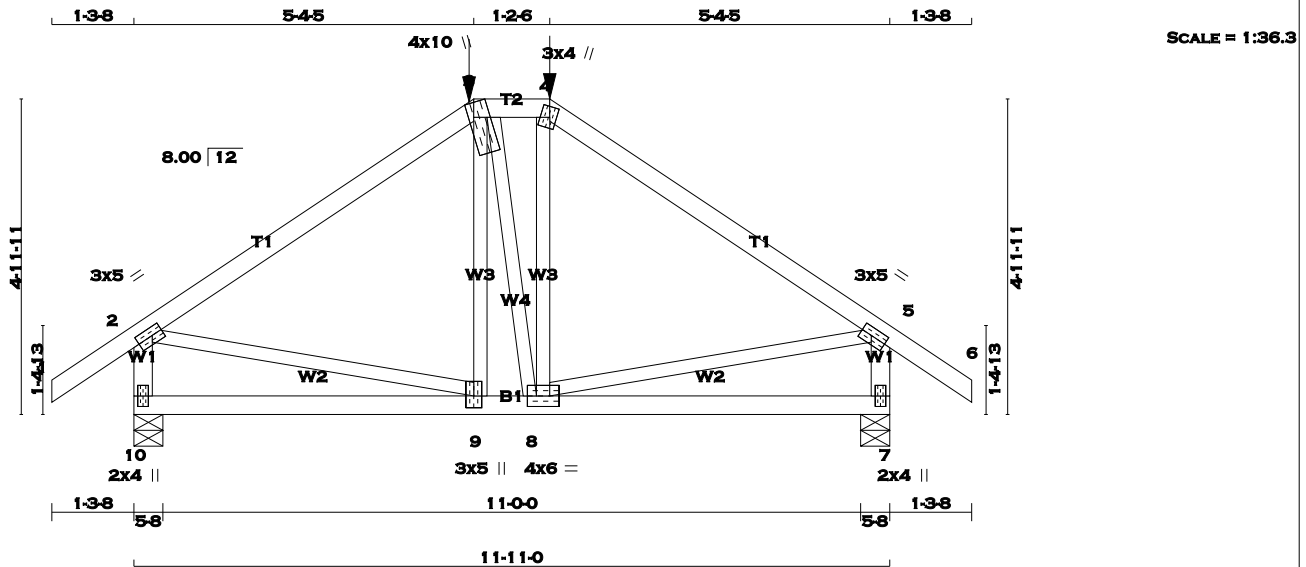
JSI GRIP= 0.90 (8) (INPUT = 0.90)
JSI METAL= 0.24 (6) (INPUT = 1.00)



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TOTAL WEIGHT = 55 lb [M]

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 - 4	2x4	DRY	No.2	SPF	3 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF	4 - 6	2x4	DRY	No.2	SPF
10 - 2	2x4	DRY	No.2	SPF	10 - 2	2x4	DRY	No.2	SPF
7 - 5	2x4	DRY	No.2	SPF	7 - 5	2x4	DRY	No.2	SPF
10 - 7	2x4	DRY	No.2	SPF	10 - 7	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF	ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT					EXCEPT				
DRY: SEASONED LUMBER.					DRY: SEASONED LUMBER.				

PLATES (table is in inches)									
JT	TYPE	PLATES	W	LEN	Y	X			
2	TMVW-t	MT20	3.0	5.0	1.50	2.00			
3	TTWW+m	MT20	4.0	10.0	Edge	1.00			
4	TTW+m	MT20	3.0	4.0	2.00	1.25			
5	TMVW-t	MT20	3.0	5.0	1.50	2.00			
7	BMV1+p	MT20	2.0	4.0					
8	BMWW-t	MT20	4.0	6.0					
9	BMWW-t	MT20	3.0	5.0	2.25	1.50			
10	BMV1+p	MT20	2.0	4.0					

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

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

HANGERS NOTES
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 172.7 lbs FACTORED DOWN AT 6-6-11, AND 172.7 lbs FACTORED DOWN AT 5-4-5 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.



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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	GROSS REACTION	HORZ	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
10	902	0	902	0	0	5-8	5-8	5-8	5-8
7	902	0	902	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
10	630	456 / 0	0 / 0	0 / 0	0 / 0	174 / 0	0 / 0
7	630	456 / 0	0 / 0	0 / 0	0 / 0	174 / 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 = 6.23 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)	UNBRAC LENGTH
FR-TO		FROM TO		FR-TO			
1-2	0 / 29	-77.3 -77.3	0.11 (1)	10.00	9-3	-35 / 59	0.02 (4)
2-3	-742 / 0	-77.3 -77.3	0.45 (1)	6.23	3-8	0 / 9	0.00 (4)
3-4	-616 / 0	-107.2 -107.2	0.03 (1)	6.25	8-4	-31 / 68	0.03 (4)
4-5	-743 / 0	-77.3 -77.3	0.45 (1)	6.23	2-9	0 / 628	0.16 (1)
5-6	0 / 29	-77.3 -77.3	0.11 (1)	10.00	8-5	0 / 629	0.16 (1)
10-2	-848 / 0	0.0 0.0	0.10 (1)	7.81			
7-5	-847 / 0	0.0 0.0	0.10 (1)	7.81			
10-9	0 / 0	-24.2 -24.2	0.18 (4)	10.00			
9-8	0 / 616	-24.2 -24.2	0.24 (4)	10.00			
8-7	0 / 0	-24.2 -24.2	0.19 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)							
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
3	5-4-5	-173	-173	---	FRONT	VERT	TOTAL
4	6-6-11	-173	-173	---	FRONT	VERT	TOTAL

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

GIRDER TYPE: CPrimeHip
SIDE SETBACK = 5-4-5
END SETBACK = 4-0-0
END WALL WIDTH = 5-8
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDT'L LOADS BASED ON 55 % OF GSL.

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.40")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.40")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.45 (4-5:1), BC=0.24 (8-9:4), WB=0.16 (5-8:1), SSI=0.15 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

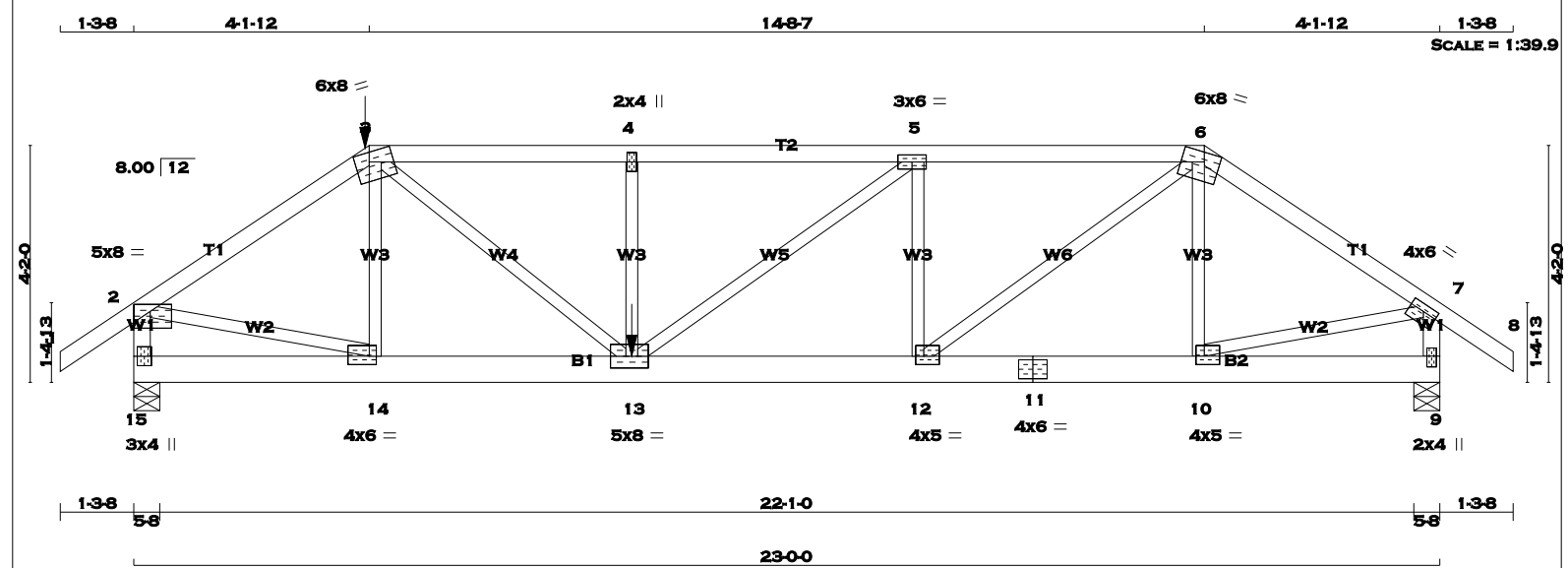
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (9) (INPUT = 0.90)
JSI METAL= 0.28 (5) (INPUT = 1.00)

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17-5253
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 = 107 lb
[M]

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2
3 - 6	2x4	DRY	No.2
6 - 8	2x4	DRY	No.2
15 - 2	2x4	DRY	No.2
9 - 7	2x4	DRY	No.2
15 - 11	2x6	DRY	No.2
11 - 9	2x6	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-p	MT20	5.0	8.0	1.50 3.50
3	TTWW-m	MT20	6.0	8.0	2.00 3.00
4	TMW+w	MT20	2.0	4.0	
5	TMWW-t	MT20	3.0	6.0	
6	TTWW-m	MT20	6.0	8.0	2.00 3.25
7	TMVW-t	MT20	4.0	6.0	1.50 3.00
9	BMV1+p	MT20	2.0	4.0	2.25 1.00
10	BMWW-t	MT20	4.0	5.0	1.75 1.75
11	BS-t	MT20	4.0	6.0	
12	BMWW-t	MT20	4.0	5.0	1.75 1.75
13	BMWW-t	MT20	5.0	8.0	2.50 3.25
14	BMWW-t	MT20	4.0	6.0	1.75 1.50
15	BMV1+p	MT20	3.0	4.0	2.00 0.75
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) 240.5 lbs FACTORED DOWN AT 4-1-12 ON TOP CHORD, AND 1117.1 lbs FACTORED DOWN AT 8-9-4 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.



DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
15		2423	0	2423	0	0	5-8	5-8	
9		1781	0	1781	0	0	5-8	5-8	
UNFACTORED REACTIONS									
		1ST LCASE COMBINED		MAX/MIN. SNOW		LIVE		PERM. LIVE	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
15		1699	1194 / 0	0 / 0	0 / 0	0 / 0	505 / 0	0 / 0	
9		1247	888 / 0	0 / 0	0 / 0	0 / 0	359 / 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 = 2.84 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				
		MAX. FACTORED		FACTORED		MAX. FACTORED		FACTORED	
		MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	MEMB.	FORCE (LBS)	MAX (LC)	
		FR-TO		FROM TO		FR-TO			
1-2		0 / 29		-77.3	-77.3 0.11 (1)	10.00	14-3	-344 / 34	0.09 (1)
2-3		-2797 / 0		-77.3	-77.3 0.41 (1)	3.75	3-13	0 / 1897	0.47 (1)
3-4		-3783 / 0		-145.8	-145.8 0.72 (1)	2.84	13-4	-581 / 0	0.15 (1)
4-5		-3783 / 0		-77.3	-77.3 0.66 (1)	3.00	13-5	0 / 919	0.23 (1)
5-6		-3049 / 0		-77.3	-77.3 0.45 (1)	3.58	12-5	-955 / 0	0.25 (1)
6-7		-1975 / 0		-77.3	-77.3 0.34 (1)	4.43	12-6	0 / 1770	0.44 (1)
7-8		0 / 29		-77.3	-77.3 0.11 (1)	10.00	10-6	-293 / 0	0.08 (1)
15-2		-2369 / 0		0.0	0.0 0.26 (1)	5.49	2-14	0 / 2387	0.59 (1)
9-7		-1751 / 0		0.0	0.0 0.20 (1)	6.26	10-7	0 / 1685	0.42 (1)
15-14		0 / 0		-33.0	-33.0 0.08 (4)	10.00			
14-13		0 / 2314		-33.0	-33.0 0.40 (1)	10.00			
13-12		0 / 3049		-17.5	-17.5 0.49 (1)	10.00			
12-11		0 / 1633		-17.5	-17.5 0.24 (1)	10.00			
11-10		0 / 1633		-17.5	-17.5 0.24 (1)	10.00			
10-9		0 / 0		-17.5	-17.5 0.04 (4)	10.00			
FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE		
3	4-1-12	-241	-241	---	FRONT	VERT	TOTAL		
13	8-9-4	-1117	-1117	---	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
SIDE SETBACK = 4-1-12
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 8-9-4 OF SPAN MEASURED FROM THE LEFT.

*** 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 (0.77")
CALCULATED VERT. DEFL.(LL) = L/999 (0.12")
ALLOWABLE DEFL.(TL)= L/360 (0.77")
CALCULATED VERT. DEFL.(TL) = L/999 (0.22")

CSI: TC=0.72 (3-4:1), BC=0.49 (12-13:1), WB=0.59 (2-14:1), SSI=0.33 (3-4:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

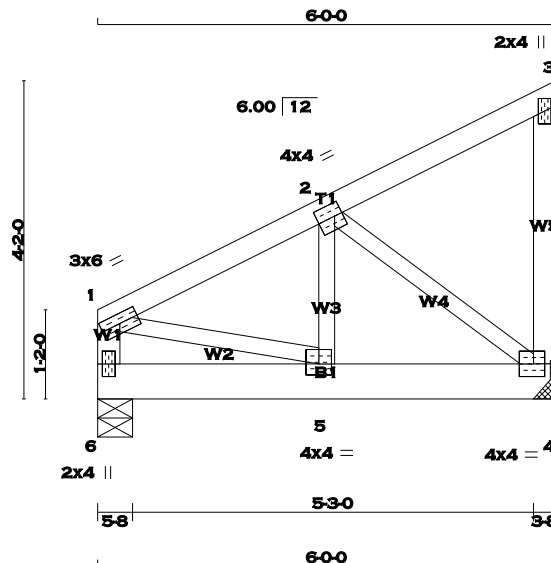
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

NAIL VALUES
PLATE GRIP(DRY) 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 degrees

KOTT
CONTINUED ON PAGE 2



SCALE = 1:30.2

TOTAL WEIGHT = 29 lb [M]

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

ALL WEBS 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	6.0		
2	TMVW-t	MT20	4.0	4.0	2.00	1.25
3	TMV+p	MT20	2.0	4.0		
4	BMVW1-t	MT20	4.0	4.0	2.00	1.75
5	BMVW-t	MT20	4.0	4.0	1.75	2.00
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	REQRD
JT		VERT	HORZ	DOWN	HORZ	BRG	BRG
4		1117	0	1117	0	0	0
6		1117	0	1117	0	0	0

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN.	SNOW	LIVE	PERM.	LIVE	WIND	DEAD	SOIL
4	784	549 / 0	0 / 0	0 / 0	0 / 0	0 / 0	236 / 0	0 / 0	0 / 0
6	784	549 / 0	0 / 0	0 / 0	0 / 0	0 / 0	236 / 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 = 6.21 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)	
FR-TO		FROM	TO	FR-TO			
1-2	-951 / 0	-77.3	-77.3 0.11 (1)	6.21	5-2	0 / 804	0.20 (1)
2-3	-10 / 0	-77.3	-77.3 0.10 (1)	10.00	2-4	-1078 / 0	0.26 (1)
4-3	-94 / 0	0.0	0.0 0.02 (1)	7.81	1-5	0 / 887	0.22 (1)
6-1	-745 / 0	0.0	0.0 0.08 (1)	7.81			
6-5	0 / 0	-295.1	-295.1 0.17 (1)	10.00			
5-4	0 / 859	-295.1	-295.1 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

GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 14-2-0
END DISTANCE = 6-0-0
END SPAN CARRIED = 14-2-0
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, NBCC 2010

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

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

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

CSI: TC=0.11 (1-2:1) , BC=0.28 (4-5:1) , WB=0.26 (2-4:1) , SSI=0.34 (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= 0.87 (2) (INPUT = 0.90)
JSI METAL= 0.32 (4) (INPUT = 1.00)

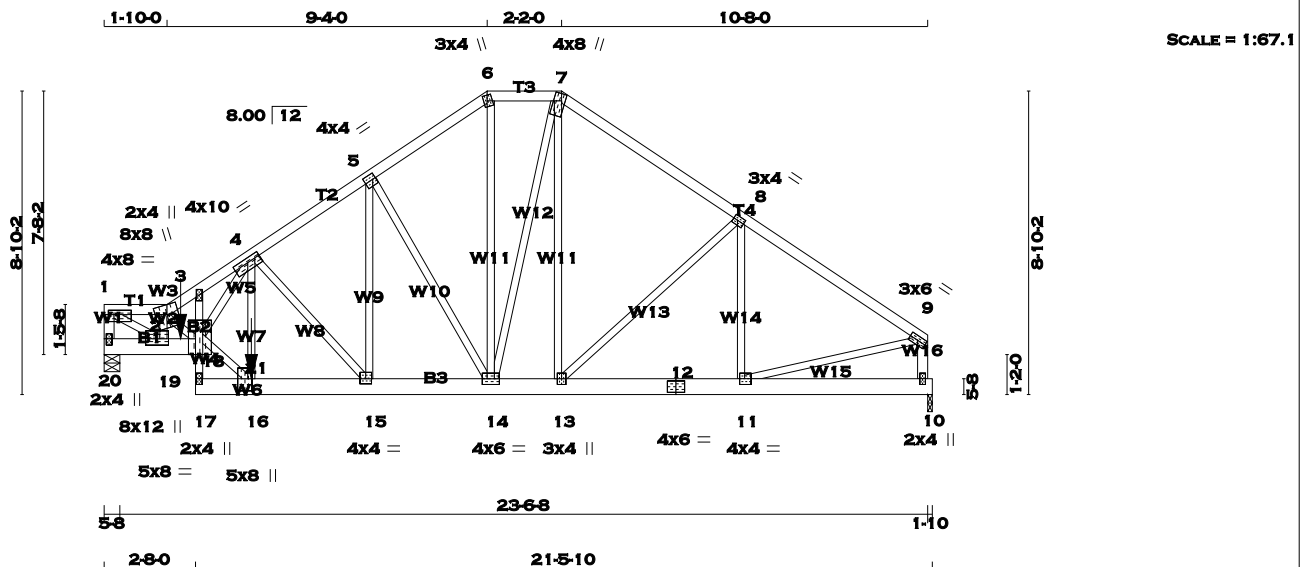


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BUILDING DIVISION

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TOTAL WEIGHT = 3 X 136 = 409 lb [M]

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
20 - 1	2x4	DRY	No.2
1 - 2	2x4	DRY	No.2
2 - 6	2x4	DRY	No.2
6 - 7	2x4	DRY	No.2
7 - 9	2x4	DRY	No.2
10 - 9	2x4	DRY	No.2
20 - 18	2x6	DRY	No.2
17 - 3	2x3	DRY	No.2
17 - 12	2x6	DRY	No.2
12 - 10	2x6	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			

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		
20-1	1	12
1-2	1	12
2-6	1	12
6-7	1	12
7-9	1	12
10-9	1	12
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
20-18	2	11
17-12	3	4
12-10	2	12
3-17	1	12
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	1	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.

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
GROSS REACTION		DOWN		DOWN		BRG		BRG	
JT	VERT	JT	HORZ	JT	UPLIFT	JT	IN-SX	JT	IN-SX
20	6160	0	6160	0	0	5-8	5-8		
10	2086	0	2086	0	0	1-10	1-10		

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS	
JT	COMBINED	JT	PERM.LIVE
20	4323	3024 / 0	0 / 0
10	1464	1024 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 20, 10

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.38 FT. 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		FR-TO	
20-1	-5326 / 0	1-19	0 / 10039
1-2	-8512 / 0	19-2	-6577 / 0
2-3	-11143 / 0	2-18	-19 / 0
3-4	-10714 / 0	18-16	0 / 7225
4-5	-4163 / 0	16-4	0 / 6418
5-6	-2694 / 0	16-4	0 / 374
6-7	-2243 / 0	4-15	-3652 / 0
7-8	-2435 / 0	15-5	0 / 2674
8-9	-2443 / 0	5-14	-2477 / 0
10-9	-2035 / 0	14-6	0 / 1300
		14-7	0 / 1018
		13-7	0 / 114
		13-8	-74 / 0
		11-9	0 / 2115
20-19	0 / 0		
19-21	0 / 9151		
21-18	0 / 9151		
17-18	0 / 38		
18-3	0 / 549		
17-16	0 / 161		
16-15	0 / 5893		
15-14	0 / 3463		
14-13	0 / 2002		
13-12	0 / 2054		
12-11	0 / 2054		
11-10	0 / 0		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
16	4-3-8	-4715	-4715	---	FRONT	VERT	TOTAL
21	2-2-12	-995	-995	---	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 ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

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

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.80")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL)= L/360 (0.80")
CALCULATED VERT. DEFL.(TL) = L/999 (0.13")

CSI: TC=0.32 (2-3-1), BC=0.64 (18-19-1), WB=0.78 (5-14-1), SSI=0.34 (18-19-1)

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

COMPANION 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 MIN
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.8 (PSI) NIP= 0.9 (PSI)
JSI METAL= 0.57 (PSI) NIP= 0.6 (PSI)

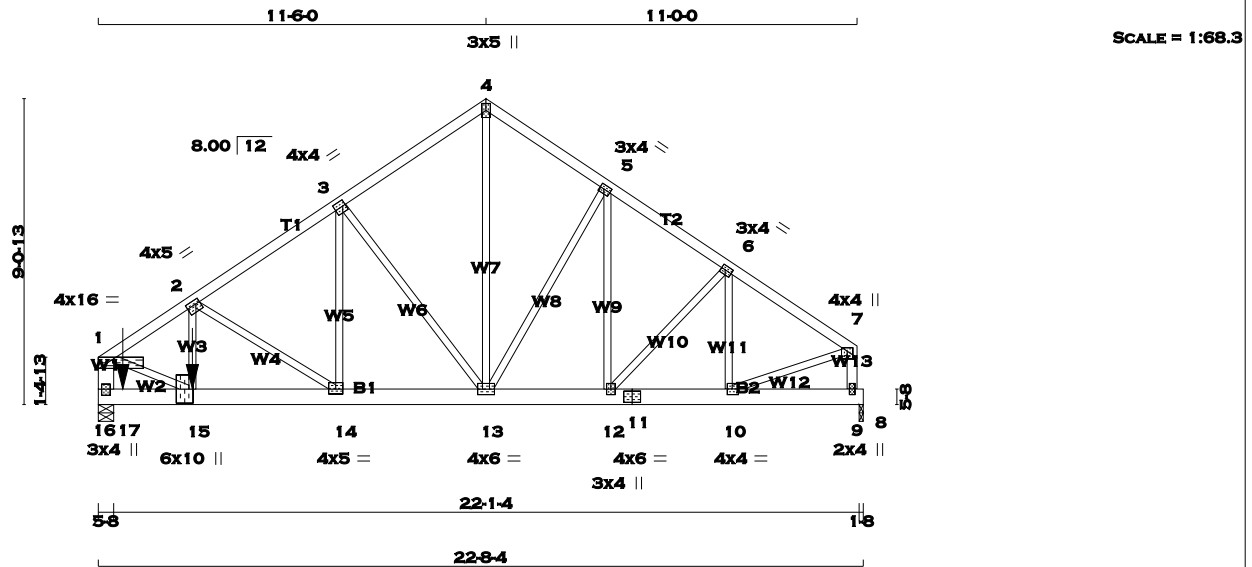


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IS AN INTEGRAL PART OF THIS DRAWING AS IT
CONTAINS SPECIFICATIONS AND CRITERIA USED
IN THE DESIGN OF THIS COMPONENT.



TOTAL WEIGHT = 2 X 120 = 239 lb [M]

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
1 - 4	2x4	DRY	No.2
4 - 7	2x4	DRY	No.2
16 - 1	2x6	DRY	No.2
9 - 7	2x4	DRY	No.2
16 - 11	2x6	DRY	No.2
11 - 8	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
4-7	12	TOP
9-7	12	TOP
16-1	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
16-11	12	SIDE(0.0)
11-8	12	TOP
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
1	TMWV-p	MT20	4.0	16.0	0.50	Edge
2	TMWW-t	MT20	4.0	5.0	1.50	1.50
3	TMWW-t	MT20	4.0	4.0	2.00	1.00
4	TTW+p	MT20	3.0	5.0		
5	TMWW-t	MT20	3.0	4.0	1.50	1.50

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
16	6173	0	6173	0	5-8
8	1674	0	1674	0	1-8

UNFACTORED REACTIONS						
JT	1ST LCASE COMBINED	MAX./MIN. SNOW	MAX./MIN. LIVE	MAX./MIN. PERM.LIVE	MAX./MIN. WIND	MAX./MIN. DEAD
16	4332	3031 / 0	0 / 0	0 / 0	0 / 0	1302 / 0
8	1175	820 / 0	0 / 0	0 / 0	0 / 0	355 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 16, 8

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: (3)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)	
FR-TO		FROM	TO	FR-TO		FROM	TO
1-2	-6115 / 0	-77.3	-77.3 0.18 (1)	3.84	15-2	0 / 3049	0.38 (1)
2-3	-3104 / 0	-77.3	-77.3 0.17 (1)	5.10	2-14	-2980 / 0	0.68 (1)
3-4	-1825 / 0	-77.3	-77.3 0.14 (1)	6.25	14-3	0 / 1776	0.22 (1)
4-5	-1816 / 0	-77.3	-77.3 0.08 (1)	6.25	3-13	-1821 / 0	0.91 (1)
5-6	-1944 / 0	-77.3	-77.3 0.09 (1)	6.20	13-4	0 / 1753	0.22 (1)
6-7	-1893 / 0	-77.3	-77.3 0.09 (1)	6.25	13-5	-229 / 0	0.11 (1)
16-1	-5313 / 0	0.0	0.0 0.19 (1)	6.35	12-5	-19 / 43	0.01 (3)
9-7	-1734 / 0	0.0	0.0 0.10 (1)	7.81	12-6	0 / 41	0.01 (1)
16-17	0 / 0	-17.5	-17.5 0.23 (1)	10.00	10-6	-367 / 0	0.05 (1)
17-15	0 / 0	-17.5	-17.5 0.23 (1)	10.00	1-15	0 / 5405	0.67 (1)
15-14	0 / 5090	-17.5	-17.5 0.43 (1)	10.00	10-7	0 / 1681	0.21 (1)
14-13	0 / 2599	-17.5	-17.5 0.19 (1)	10.00			
13-12	0 / 1615	-17.5	-17.5 0.12 (1)	10.00			
12-11	0 / 1587	-17.5	-17.5 0.12 (1)	10.00			
11-10	0 / 1587	-17.5	-17.5 0.12 (1)	10.00			
10-9	0 / 0	-17.5	-17.5 0.12 (1)	10.00			
9-8	0 / 0	-17.5	-17.5 0.12 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)							
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
15	2-9-8	-4715	-4715	---	FRONT	VERT	TOTAL
17	8-12	-995	-995	---	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

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.76")
CALCULATED VERT. DEFL.(LL)= L/999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.76")
CALCULATED VERT. DEFL.(TL)= L/999 (0.09")

CSI: TC=0.19 (1-16:1) , BC=0.43 (14-15:1) , WB=0.91 (3-13:1) , SSI=0.56 (8-9:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

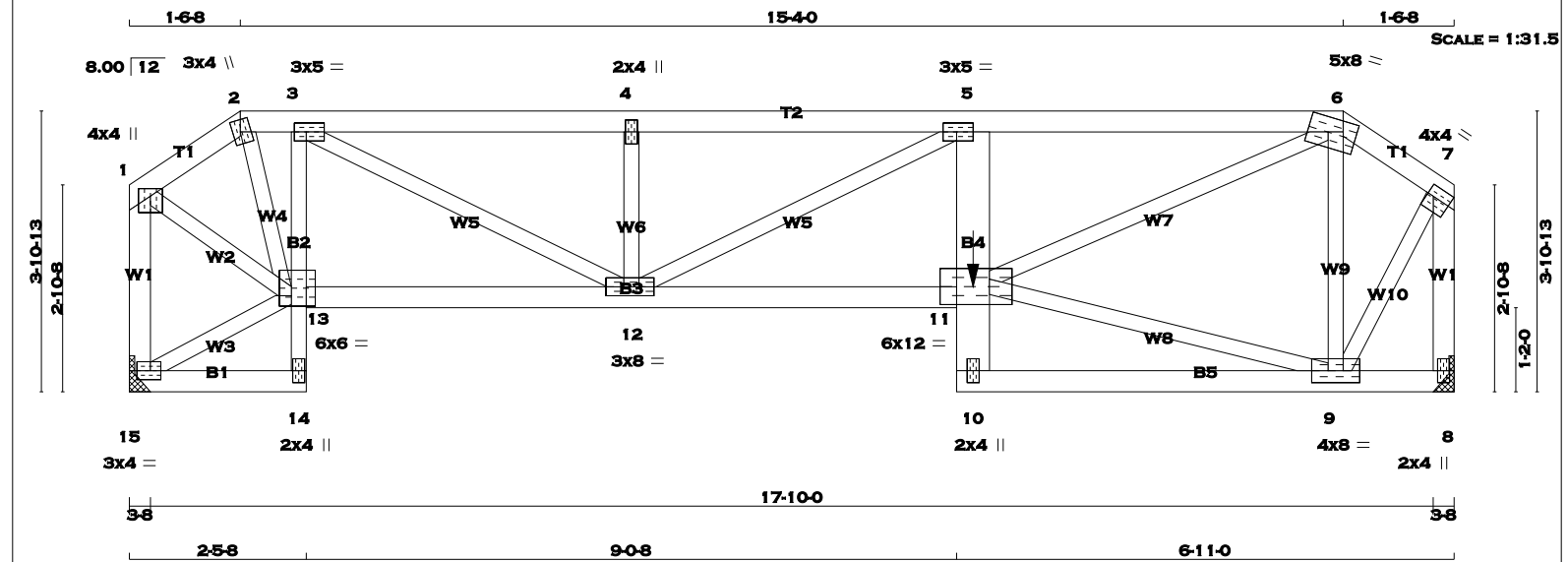
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (6) (INPUT = 0.90)
JSI METAL= 0.55 (15) (INPUT = 1.00)



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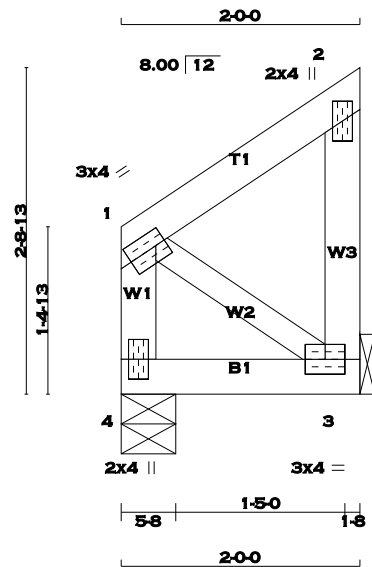
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. 1 - 2 2x4 DRY No.2 SPF 2 - 6 2x4 DRY No.2 SPF 6 - 7 2x4 DRY No.2 SPF 15 - 1 2x4 DRY No.2 SPF 8 - 7 2x4 DRY No.2 SPF 15 - 14 2x4 DRY No.2 SPF 14 - 3 2x3 DRY No.2 SPF 13 - 11 2x4 DRY No.2 SPF 10 - 5 2x6 DRY No.2 SPF 10 - 8 2x4 DRY No.2 SPF ALL WEBS 2x3 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 BRG BRG 8 994 0 994 0 0 HANGER BY OTHERS 15 942 0 942 0 0 HANGER BY OTHERS MIN. SEAT SIZE: 3-8 MIN. SEAT SIZE: 3-8 UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 8 698 488 / 0 0 / 0 0 / 0 210 / 0 0 / 0 15 661 463 / 0 0 / 0 0 / 0 199 / 0 0 / 0 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.41 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 7.29 FT. OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. LOADING TOTAL LOAD CASES: (3) CHORDS WEBS MEMB. MAX. FACTORED FORCE VERT. LOAD LC1 MAX. UNBRAC LENGTH FR-TO MEMB. MAX. FACTORED FORCE VERT. LOAD LC1 MAX. UNBRAC LENGTH FR-TO (LBS) (PLF) (LC) (LC) (LBS) (LC) (LBS) (LC) FR-TO FROM TO 1-2 -820 / 0 -77.3 -77.3 0.04 (1) 6.25 2-13 0 / 517 0.13 (1) 2-3 -841 / 0 -77.3 -77.3 0.18 (1) 6.25 3-12 0 / 1085 0.27 (1) 3-4 -1805 / 0 -77.3 -77.3 0.24 (1) 4.72 12-4 -352 / 0 0.06 (1) 4-5 -1805 / 0 -77.3 -77.3 0.33 (1) 4.60 12-5 -330 / 0 0.15 (1) 5-6 -1974 / 0 -77.3 -77.3 0.36 (1) 4.41 11-9 0 / 212 0.05 (1) 6-7 -514 / 0 -77.3 -77.3 0.04 (1) 6.25 11-6 0 / 1707 0.42 (1) 15-1 -918 / 0 0.0 0.0 0.15 (1) 7.81 9-6 -620 / 0 0.16 (1) 8-7 -1008 / 0 0.0 0.0 0.16 (1) 7.77 15-13 -7 / 0 0.00 (1) 15-14 0 / 6 -17.5 -17.5 0.03 (3) 10.00 1-13 0 / 788 0.20 (1) 14-13 0 / 23 0.0 0.0 0.03 (1) 10.00 13-3 -837 / 0 0.0 0.0 0.06 (1) 7.29 13-12 0 / 846 -17.5 -17.5 0.20 (1) 10.00 12-11 0 / 2100 -17.5 -17.5 0.43 (1) 10.00 10-11 0 / 40 0.0 0.0 0.21 (1) 10.00 11-5 -272 / 0 0.0 0.0 0.21 (1) 7.81 10-9 0 / 203 -17.5 -17.5 0.13 (3) 10.00 9-8 0 / 0 -17.5 -17.5 0.11 (3) 10.00 FACTORED CONCENTRATED LOADS (LBS) JT LOC. LC1 MAX- MAX+ FACE DIR. TYPE 11 11-8-12 -190 -190 --- FRONT VERT TOTAL			DESIGN CRITERIA *** SPECIAL LOADS ANALYSIS *** GEOMETRY AND/OR BASIC LOADS CHANGED BY USER. LOADS WERE DERIVED FROM USER INPUT NO FURTHER MODIFICATIONS WERE MADE SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.0 PSF TOTAL LOAD = 33.3 PSF SPACING = 24.0 IN. C/C LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12 *** NON STANDARD GIRDER *** ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES. THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (0.61") CALCULATED VERT. DEFL.(LL)= L/999 (0.08") ALLOWABLE DEFL.(TL)= L/360 (0.61") CALCULATED VERT. DEFL.(TL)= L/999 (0.15") CSI: TC=0.36 (5-6:1) , BC=0.43 (11-12:1) , WB=0.42 (6-11:1) , SSI=0.20 (5-6:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00 COMP=1.00 SHEAR=1.00 TENS= 1.00 COMPANION LIVE LOAD FACTOR = 0.50 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= 0.90 (3) (INPUT = 0.90) JSI METAL= 0.35 (11) (INPUT = 1.00)		
---	--	--	--	--	--	---	--	--



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





SCALE = 1:19.3

TOTAL WEIGHT = 10 lb [M]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
1	TMW-t	MT20	3.0	4.0	1.50 1.00
2	TMW+w	MT20	2.0	4.0	
3	BMWW1-t	MT20	3.0	4.0	
4	BMV1+p	MT20	2.0	4.0	

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
4	196	0	196	0	0	5-8	5-8	
3	190	0	190	0	0	1-8	1-8	

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS		LIVE	PERM.LIVE	WIND	DEAD	SOIL
		COMBINED	SNOW					
4	137	96 / 0	0 / 0	0 / 0	0 / 0	0 / 0	41 / 0	0 / 0
3	133	93 / 0	0 / 0	0 / 0	0 / 0	0 / 0	41 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		VERT. LOAD	LC1	MAX	MAX.	MEMB.	WEBS		MAX	FACTORED
	FORCE	FACTORED						FORCE	MAX		
	(LBS)	(PLF)			CSI (LC)	UNBRAC		(LBS)	CSI (LC)		
FR-TO		FROM TO				LENGTH	FR-TO				
4-1	-72 / 0	0.0	0.0	0.01 (1)	7.81	3-2	-67 / 0	0.01 (1)			
1-2	-3 / 0	-77.3	-77.3	0.05 (1)	10.00	1-3	0 / 3	0.00 (1)			
4-3	0 / 0	-134.1	-134.1	0.09 (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 = 6-11-0
END DISTANCE = 2-0-0
END SPAN CARRIED = 6-11-0
END WALL WIDTH = 0-0
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 (0.19")
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=0.05 (1-2:1) , BC=0.09 (3-4:1) , WB=0.01 (2-3:1) , SSI=0.11 (3-4:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) 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= 0.07 (3) (INPUT = 0.90)
JSI METAL= 0.02 (2) (INPUT = 1.00)



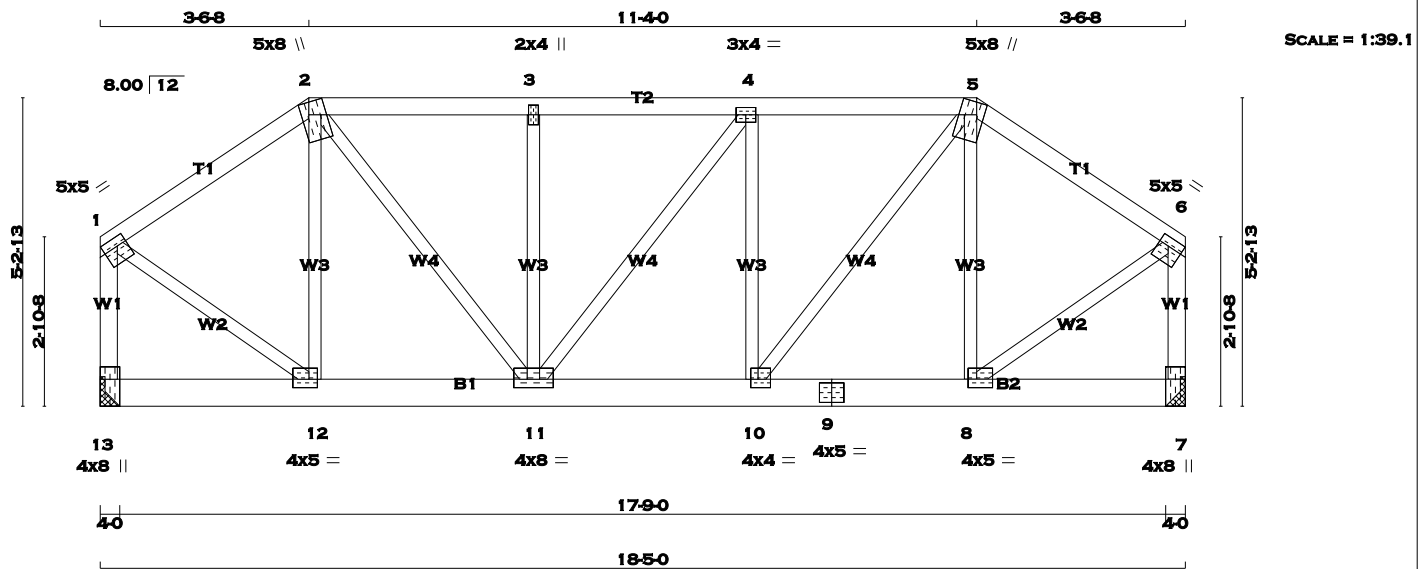
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TOTAL WEIGHT = 2 X 96 = 192 lb [M]

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 2	2x4	DRY	No.2
2 - 5	2x4	DRY	No.2
5 - 6	2x4	DRY	No.2
13 - 1	2x4	DRY	No.2
7 - 6	2x4	DRY	No.2
13 - 9	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		
1-2	12	TOP
2-5	12	TOP
5-6	12	TOP
13-1	12	TOP
7-6	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
13-9	12	SIDE(208.6)
9-7	12	SIDE(208.6)
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	5.0	5.0	1.75 Edge
2	TTWW+m	MT20	5.0	8.0	2.50 1.50
3	TMW+w	MT20	2.0	4.0	
4	TMWW-t	MT20	3.0	4.0	
5	TTWW+m	MT20	5.0	8.0	2.50 1.50
6	TMVW-t	MT20	5.0	5.0	1.75 Edge

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
13	4715	0	4715	0	0
7	4715	0	4715	0	0

UNFACTORED REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
13	3309	2315 / 0	0 / 0	0 / 0	0 / 0	994 / 0
7	3309	2315 / 0	0 / 0	0 / 0	0 / 0	994 / 0

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.46 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)			
CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO	FROM TO	FR-TO	FROM TO
1-2	-3524 / 0	12-2	-161 / 8
2-3	-4373 / 0	2-11	0 / 2344
3-4	-4373 / 0	11-3	-292 / 0
4-5	-4381 / 0	11-4	-14 / 0
5-6	-3522 / 0	10-4	-287 / 0
13-1	-4082 / 0	10-5	0 / 2361
7-6	-4080 / 0	8-5	-173 / 6
13-12	0 / 0	1-12	0 / 3535
12-11	0 / 2923	8-6	0 / 3533
11-10	0 / 4382		
10-9	0 / 2921		
9-8	0 / 2921		
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

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

GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 19-8-10
END DISTANCE = 18-5-0
END SPAN CARRIED = 19-8-10
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 (0.61")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.61")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.10")

CSI: TC=0.31 (1-13:1) , BC=0.43 (10-11:1) , WB=0.44 (1-12:1) , SS=0.32 (12-13:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

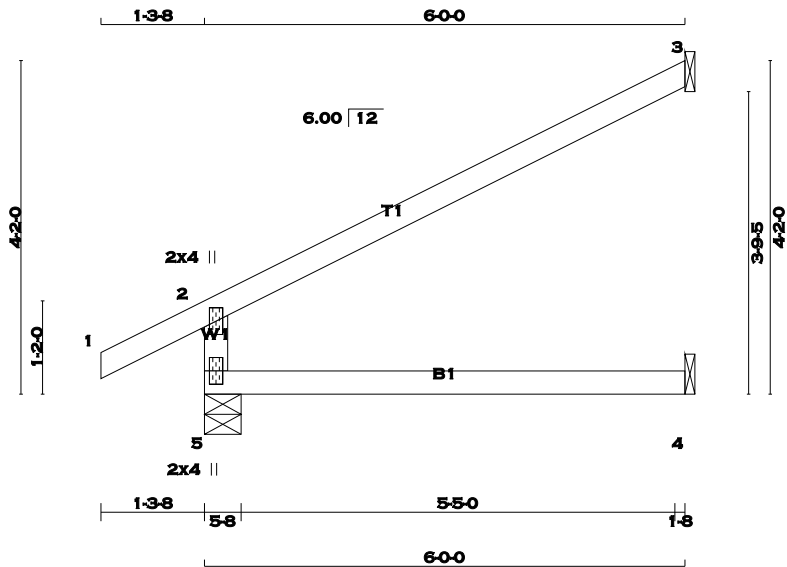
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (1) (INPUT = 0.90)
JSI METAL= 0.54 (1) (INPUT = 1.00)



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TOTAL WEIGHT = 21 X 17 = 359 lb [M]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

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

BEARINGS

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

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX./MIN. SNOW		LIVE		PERM.LIVE		WIND		DEAD		SOIL	
	VERT	HORZ	DOWN	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX					
5	318		238 / 0		0 / 0		0 / 0	0 / 0	0 / 0		80 / 0		0 / 0	
3	118		105 / 0		0 / 0		0 / 0	0 / 0	0 / 0		14 / 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

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. LC1 (LC)		MAX. UNBRACED LENGTH		WEBS MAX. FACTORED FORCE (LBS)		MAX. LC1 (LC)	
	FR-TO		FROM TO		FR-TO		FR-TO		FR-TO		FR-TO	
5-2	-395 / 0		0.0	0.0	0.13 (4)		7.81					
1-2	0 / 23		-77.3	-77.3	0.10 (1)		10.00					
2-3	-26 / 0		-77.3	-77.3	0.47 (1)		6.25					
5-4	0 / 0		-17.5	-17.5	0.13 (4)		10.00					

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

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

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

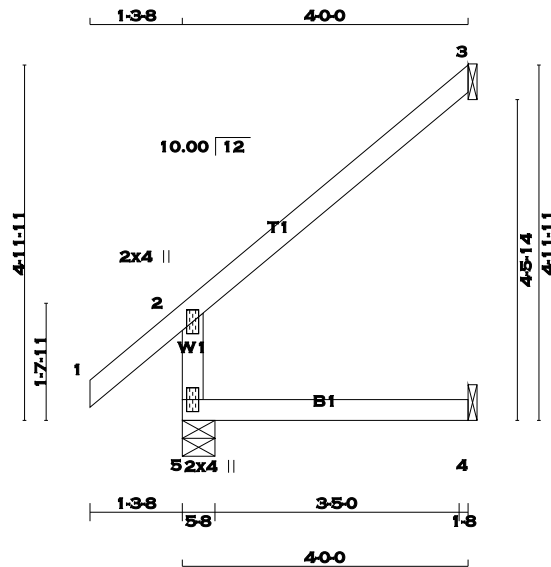


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SCALE: 3/8"=1'

TOTAL WEIGHT = 8 X 14 = 113 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	DRY	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT IN-SX	IN-SX	
5	340	0	340	0	0	5-8	5-8
3	116	0	116	0	0	1-8	1-8
4	31	0	34	0	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	236	181 / 0	0 / 0	0 / 0	0 / 0	55 / 0	0 / 0
3	79	70 / 0	0 / 0	0 / 0	0 / 0	9 / 0	0 / 0
4	24	0 / 0	0 / 0	0 / 0	0 / 0	24 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)			MAX. UNBRACED LENGTH	MEMB. FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM	TO	MAX. CSI (LC)	FR-TO			
5-2	-300 / 0	0.0	0.0	0.04 (4)	7.81			
1-2	0 / 34	-77.3	-77.3	0.11 (1)	10.00			
2-3	-25 / 0	-77.3	-77.3	0.21 (1)	6.25			
5-4	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

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=0.21 (2-3:1) , BC=0.06 (4-5:4) , WB=0.00 (n/a:0) , 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= 0.22 (2) (INPUT = 0.90)
JSI METAL= 0.08 (2) (INPUT = 1.00)

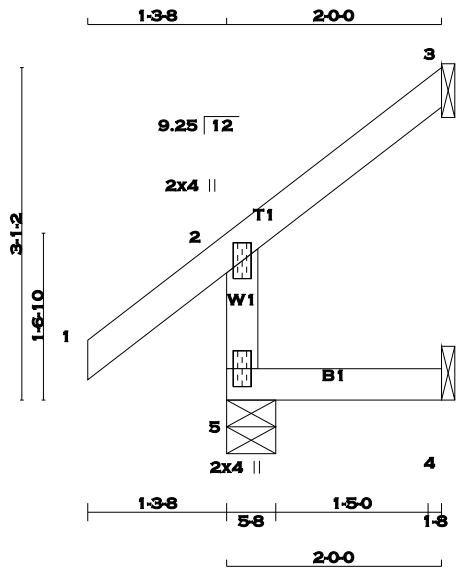


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IN THE DESIGN OF THIS COMPONENT.





SCALE = 1:21.4

TOTAL WEIGHT = 3 X 9 = 26 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	DRY	No.2	SPF

DRY: SEASONED LUMBER.

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

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

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG		
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
5	222	0	222	0	0	5-8	5-8		
3	59	0	59	0	0	1-8	1-8		
4	16	0	18	0	0	1-8	1-8		

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

UNFACTORED REACTIONS							
1ST LCASE MAX./MIN. COMPONENT REACTIONS							
JT	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, 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: (5)							
MEMB.	CHORDS		FACTORED		WEBS		FACTORED
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. LC1 (LC)	MAX. UNBRAC (LC)	MEMB. FORCE (LBS)	MAX. CSI (LC)	
FR-TO			FROM	TO	LENGTH	FR-TO	
5-2	-203 / 0	0.0	0.0	0.01 (4)	7.81		
1-2	0 / 33	-77.3	-77.3	0.11 (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=0.11 (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
MT20	618	354	1667	822	2284

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

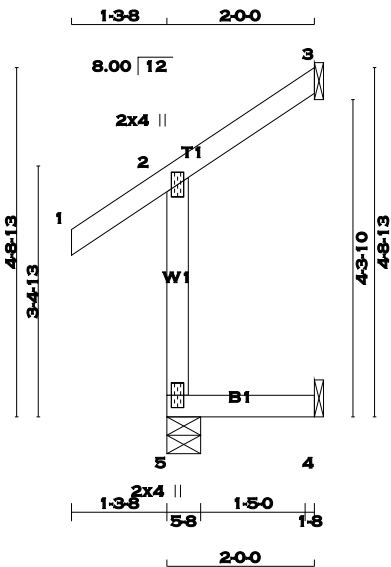
JSI GRIP= 0.14 (2) (INPUT = 0.90)
JSI METAL= 0.05 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 4 X 10 = 42 lb [M]

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

DRY: SEASONED LUMBER.

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

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
5	220	0	220	0	0	5-8	5-8	
3	59	0	59	0	0	1-8	1-8	
4	17	0	19	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					SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD		
5	152	121 / 0	0 / 0	0 / 0	0 / 0	30 / 0	0 / 0	0 / 0
3	40	36 / 0	0 / 0	0 / 0	0 / 0	5 / 0	0 / 0	0 / 0
4	13	0 / 0	0 / 0	0 / 0	0 / 0	13 / 0	0 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

MEMB.	CHORDS		FACTORED		WEBS		FACTORED	
	MAX. FORCE	VERT. LOAD	MAX. FORCE	MAX. UNBRAC	MEMB. FORCE	MAX. FORCE	MAX. UNBRAC	MEMB. FORCE
	(LBS)	(PLF)	(LBS)	(LC)	(LBS)	(LBS)	(LC)	(LBS)
FR-TO			FROM	TO	LENGTH	FR-TO		
5-2	-201 / 0	0.0	0.0	0.00 (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)	10.00			
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
MT20	618	354	1667	822	2284

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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



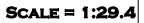
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[M]

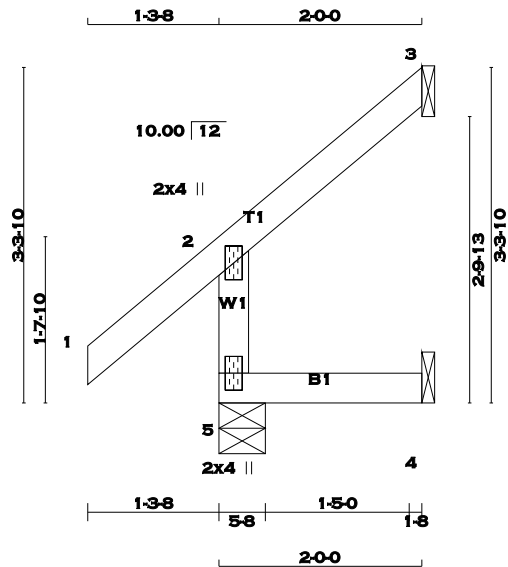
DRY: SEASONED LUMBER.

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

KOTT , Stouffville, ON, CGC

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Wed Mar 15 09:47:23 2017 Page 1

ID:NBw79Cvh?uitfhoHZ8DaY7yD2Mq-_ZZv1nCdaH3k9q3o09nbYKH6qkGOA5FSWUIE2zakkl



TOTAL WEIGHT = 3 X 9 = 26 lb [M]

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

DRY: SEASONED LUMBER.

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

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
5	222	0	222	0	0	5-8	5-8	
3	59	0	59	0	0	1-8	1-8	
4	16	0	18	0	0	1-8	1-8	

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

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		LIVE	PERM.LIVE	WIND	DEAD	SOIL
	COMBINED	SNOW	DOWN	HORZ					
5	153	122 / 0	0 / 0	0 / 0	0 / 0	0 / 0	31 / 0	0 / 0	0 / 0
3	40	35 / 0	0 / 0	0 / 0	0 / 0	0 / 0	5 / 0	0 / 0	0 / 0
4	13	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	13 / 0	0 / 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		WEB S		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	-203 / 0	0.0	0.0	0.01 (4)	7.81			
1-2	0 / 34	-77.3	-77.3	0.11 (1)	10.00			
2-3	-12 / 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=0.11 (1-2:1) , BC=0.02 (4-5:4) , WB=0.00 (n/a:0) , SSI=0.06 (1-2:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

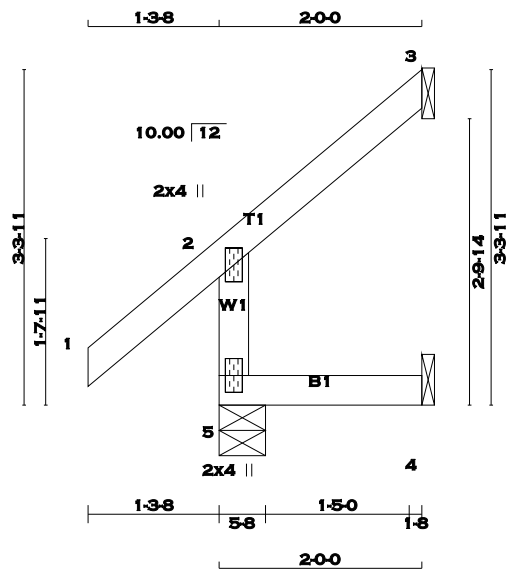
JSI GRIP= 0.15 (2) (INPUT= 0.90)
JSI METAL= 0.05 (2) (INPUT= 1.00)



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SCALE = 1:22.7

TOTAL WEIGHT = 5 X 9 = 44 lb [M]

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

DRY: SEASONED LUMBER.

LUMBER
DESCR.
SPF
SPF
SPF

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	5-8	5-8	
3	59	0	59	0	0	1-8	1-8	
4	16	0	18	0	0	1-8	1-8	

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

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		LIVE	PERM.LIVE	WIND	DEAD	SOIL
	COMBINED	SNOW	DOWN	UP					
5	153	122 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	31 / 0	0 / 0
3	40	35 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	5 / 0	0 / 0
4	13	0 / 0	0 / 0	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	MEMB.	FORCE (LBS)	MAX	CSI (LC)
FR-TO								
5-2	-203 / 0	0.0	0.0	0.01 (4)	7.81			
1-2	0 / 34	-77.3	-77.3	0.11 (1)	10.00			
2-3	-12 / 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=0.11 (1-2:1) , BC=0.02 (4-5:4) , WB=0.00 (n/a:0) , SSI=0.06 (1-2:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.15 (2) (INPUT= 0.90)
JSI METAL= 0.05 (2) (INPUT= 1.00)

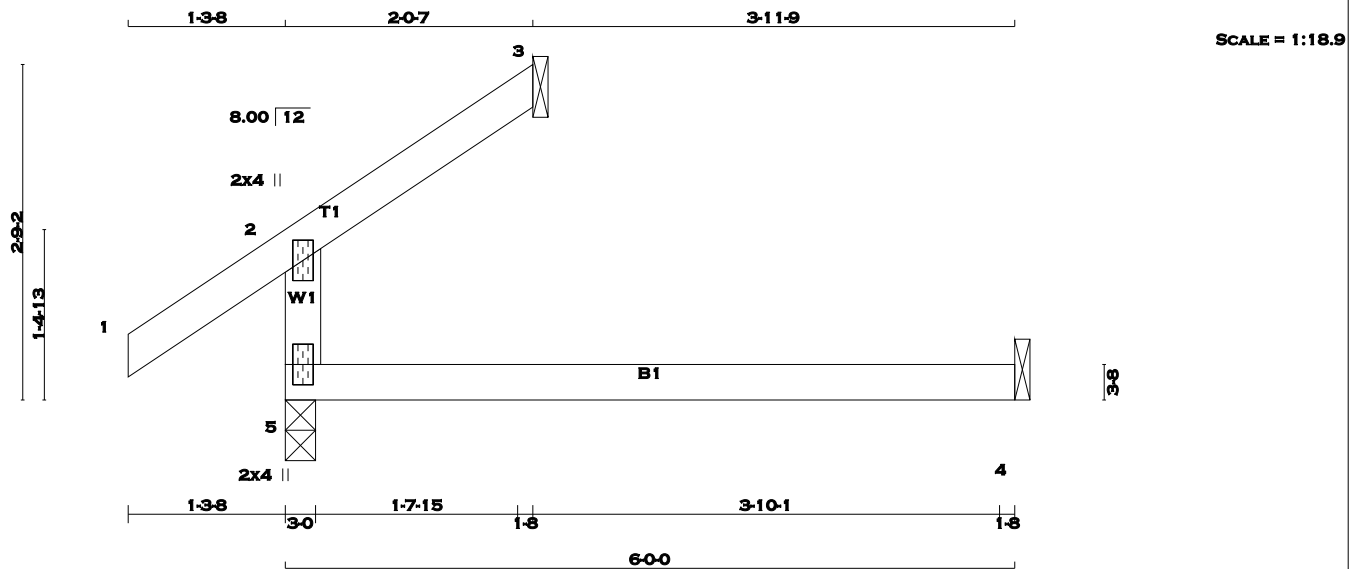


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TOTAL WEIGHT = 13 lb
[M][F]

<u>LUMBER</u>					
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			FACTORED			MAXIMUM FACTORED			INPUT			REQRD		
			GROSS REACTION			GROSS REACTION			BRG			BRG		
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX	IN-SX	IN-SX	IN-SX	IN-SX	IN-SX
5	265	0	265	0	0	3-0	3-0	3-0	3-0	3-0	3-0	3-0	3-0	3-0
3	60	0	60	0	0	1-8	1-8	1-8	1-8	1-8	1-8	1-8	1-8	1-8
4	44	0	49	0	0	1-8	1-8	1-8	1-8	1-8	1-8	1-8	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	65 / 0	0 / 0				
3	40	36 / 0	0 / 0	0 / 0	0 / 0	5 / 0	0 / 0				
4	35	0 / 0	0 / 0	0 / 0	0 / 0	35 / 0	0 / 0				

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MAX. FACTORED		FACTORED		MAX. FACTORED		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX. (LC)	MEMB.	FORCE (LBS)	MAX. (LC)	LC1 MAX. (LC)
FR-TO		FROM	TO	FR-TO		FROM	TO
5-2	-204 / 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	-11 / 0	-77.3	-77.3 0.04 (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=0.10 (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.

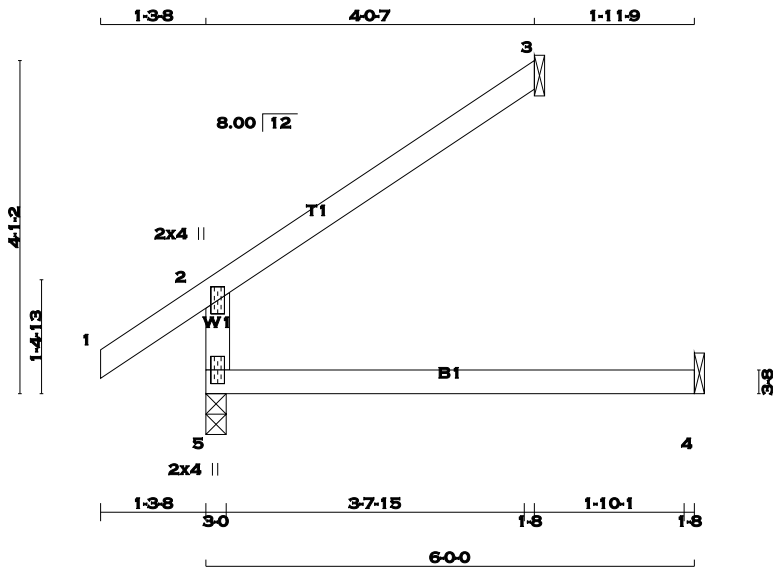
JSI GRIP= 0.13 (2) (INPUT = 0.90)
JSI METAL= 0.05 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 15 lb

LUMBER				DESCR.	SPF
N. L. G. A. RULES	SIZE	LUMBER	No.2		
CHORDS	2x4	DRY	No.2	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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
5	362	0	362	0	0	3-0	3-0	
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	72 / 0	0 / 0
3	80	71 / 0	0 / 0	0 / 0	0 / 0	0 / 0	9 / 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)

MEMB.	CHORDS		FACTORED		WEB S		FACTORED	
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRAC	MEMB. FORCE (LBS)	MAX. CSI (LC)	MEMB. FORCE (LBS)	MAX. CSI (LC)
FR-TO								
5-2	-301 / 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	-22 / 0	-77.3	-77.3	0.16 (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=0.16 (2-3:1) , BC=0.13 (4-5:4) , WB=0.00 (n/a:0) , SSI=0.13 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

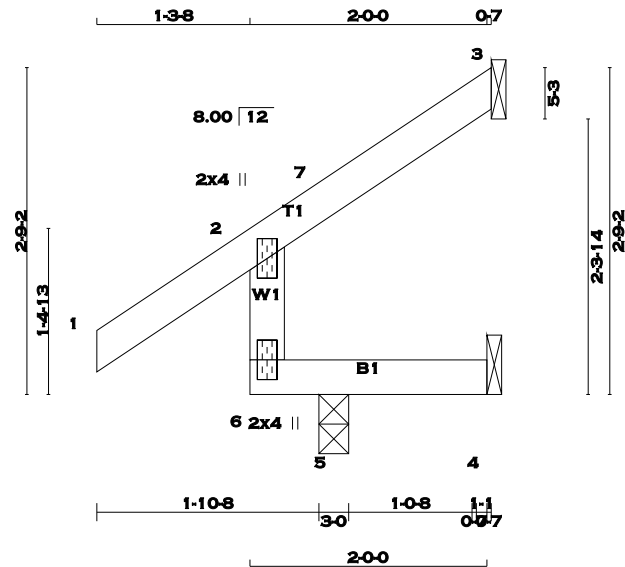


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SCALE = 1:19.4

TOTAL WEIGHT = 8 lb [M]

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
3	71	0	71	0	1-8	1-8
4	-60	0	2	0	1-8	1-8
5	288	0	288	0	3-0	3-0

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

PROVIDE ANCHORAGE AT BEARING JOINT 4 FOR 150 LBS. FACTORED UPLIFT

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
3	48	43 / 0	0 / 0	0 / 0	0 / 0	6 / 0	0 / 0
4	-40	0 / -41	0 / 0	0 / 0	0 / 0	1 / 0	0 / 0
5	199	157 / 0	0 / 0	0 / 0	0 / 0	41 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

MEMB.	CHORDS		FACTORED		WEBS		FACTORED	
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	MAX. UNBRACED LENGTH	MEMB. FORCE (LBS)	MAX. CSI (LC)	MAX. UNBRACED LENGTH	MEMB. FORCE (LBS)
FR-TO		FROM	TO		FR-TO			
6-2	-193 / 0	0.0	0.0	0.07 (1)	7.81			
1-2	0 / 29	-77.3	-77.3	0.10 (1)	10.00			
2-7	-8 / 0	-77.3	-77.3	0.04 (1)	10.00			
7-3	-8 / 0	-77.3	-77.3	0.04 (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

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")

CANTILEVER DEFLECTION:
ALLOWABLE DEFL.(LL)= L/120 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/120 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.10 (1-2:1) , BC=0.13 (5-6:1) , WB=0.00 (n/a:0) , 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

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
MT20	618	354	1667	822	2284

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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



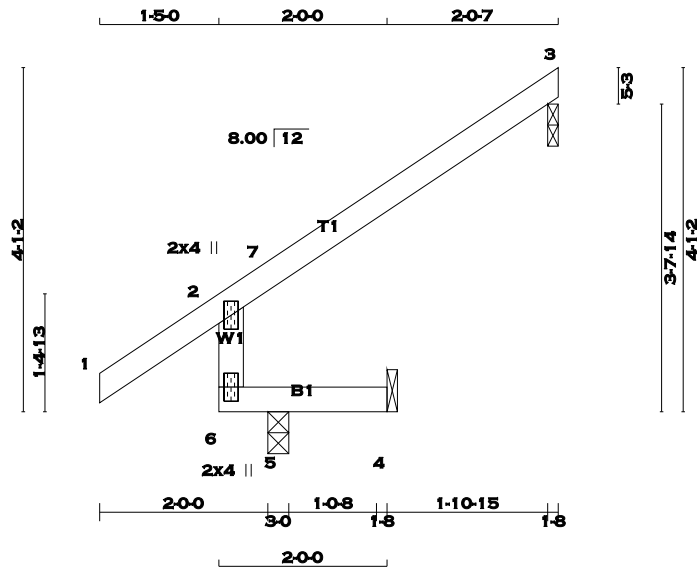
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LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
6 - 2	2x4	DRY	No.2
1 - 3	2x4	DRY	No.2
6 - 4	2x4	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMV+p	MT20	2.0	4.0	
6	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	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG			
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
3	119	0	119	0	0	1-8	1-8
4	-101	0	0	0	-101	1-8	1-8
5	445	0	445	0	0	3-0	3-0

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

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

PROVIDE ANCHORAGE AT BEARING JOINT 4 FOR 150 LBS. FACTORED UPLIFT

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
3	81	72 / 0	0 / 0	0 / 0	0 / 0	9 / 0	0 / 0
4	-68	0 / -66	0 / 0	0 / 0	0 / 0	0 / -2	0 / 0
5	305	252 / 0	0 / 0	0 / 0	0 / 0	54 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 3, 4, 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			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED UNBRACED LENGTH (LC)
FR-TO		FROM TO	
6-2	-309 / 0	0.0	0.11 (1) 7.81
1-2	0 / 32	-77.3	-77.3 0.12 (1) 10.00
2-7	-20 / 0	-77.3	-77.3 0.20 (1) 6.25
7-3	-20 / 0	-77.3	-77.3 0.20 (1) 6.25
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

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")

CANTILEVER DEFLECTION:
ALLOWABLE DEFL.(LL)= L/120 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/120 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 681 (0.01")

CSI: TC=0.20 (2-3:1), BC=0.20 (5-6:1), WB=0.00 (n/a:0), 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

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
MT20	618	354	1667	822	2284

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

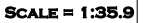
JSI GRIP= 0.20 (2) (INPUT = 0.90)
JSI METAL= 0.08 (2) (INPUT = 1.00)



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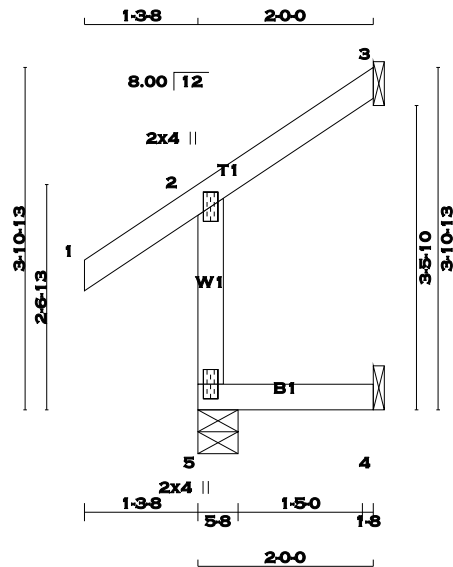




TOTAL WEIGHT = $3 \times 18 = 54 \text{ lb}$

DRY: SEASONED LUMBER.

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



SCALE = 1:26.3

TOTAL WEIGHT = 9 lb [M]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
5		220	0	220	0	0	5-8	5-8	
3		59	0	59	0	0	1-8	1-8	
4		16	0	18	0	0	1-8	1-8	

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
5	152	121 / 0	0 / 0	0 / 0	0 / 0	30 / 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		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX. (LC)	MEMB.	FORCE (LBS)	MAX. (LC)	
FR-TO		FROM	TO	FR-TO		LENGTH	
5-2	-202 / 0	0.0	0.0 0.00 (4)	7.81			
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00			
2-3	-10 / 0	-77.3	-77.3 0.05 (1)	6.25			
5-4	0 / 0	-17.5	-17.5 0.02 (4)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

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

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

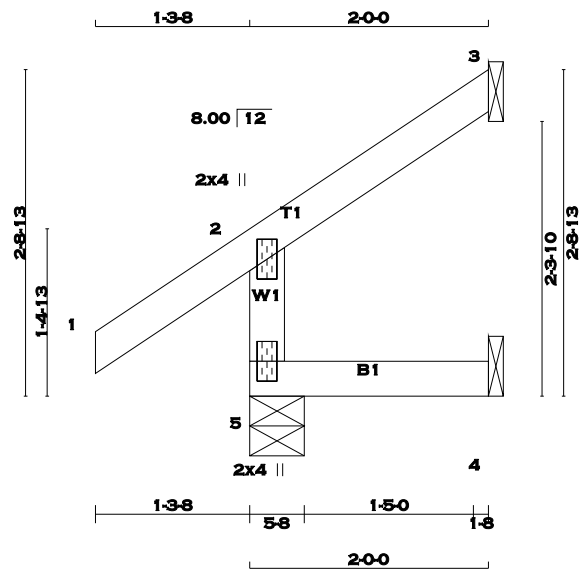


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SCALE = 1:19.3

TOTAL WEIGHT = 4 X 8 = 32 lb [M]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
5 - 2	2x4	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		222	0	222	0	0	5-8	5-8	
3		59	0	59	0	0	1-8	1-8	
4		16	0	18	0	0	1-8	1-8	

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

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

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

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

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

LOADING					
TOTAL LOAD CASES: (5)					
CHORDS			WEBS		
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)
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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING 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.

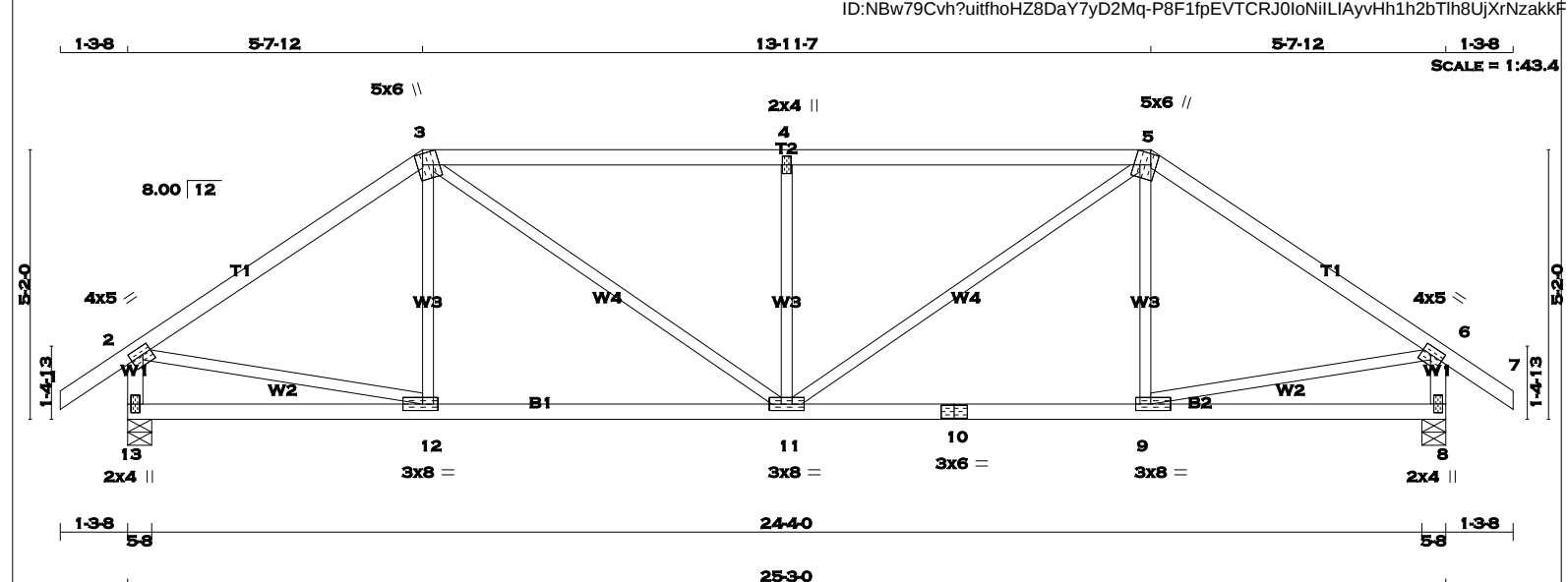
JSI GRIP= 0.13 (2) (INPUT= 0.90)
JSI METAL= 0.05 (2) (INPUT= 1.00)



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TOTAL WEIGHT = 100 lb [M]

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2
3 - 5	2x4	DRY	No.2
5 - 7	2x4	DRY	No.2
13 - 2	2x4	DRY	No.2
8 - 6	2x4	DRY	No.2
13 - 10	2x4	DRY	No.2
10 - 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	4.0	5.0	1.75	2.00
3	TTWW+m	MT20	5.0	6.0	Edge	3.75
4	TMW+w	MT20	2.0	4.0		
5	TTWW+m	MT20	5.0	6.0	Edge	3.75
6	TMVW-t	MT20	4.0	5.0	1.75	2.00
8	BMV1+p	MT20	2.0	4.0		
9	BMWW-t	MT20	3.0	8.0	1.50	3.50
10	BS-t	MT20	3.0	6.0		
11	BMWWW-t	MT20	3.0	8.0		
12	BMWW-t	MT20	3.0	8.0	1.50	3.50
13	BMV1+p	MT20	2.0	4.0		

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

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



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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
13	1304	0	1304	0	0
8	1304	0	1304	0	0

UNFACTORED REACTIONS						
JT	1ST LCASE COMBINED	MAX. SNOW	MIN. LIVE	PERM. LIVE	WIND	DEAD
13	913	652 / 0	0 / 0	0 / 0	0 / 0	261 / 0
8	913	652 / 0	0 / 0	0 / 0	0 / 0	261 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.08 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING				TOTAL LOAD CASES: (4)			
CHORDS		WEBS		CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. LC1 (LC)
FR-TO		FROM	TO	FR-TO		FROM	TO
1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	12-3	-82 / 75	0.03 (1)
2-3	-1321 / 0	-77.3	-77.3 0.51 (1)	4.99	3-11	0 / 682	0.15 (1)
3-4	-1655 / 0	-77.3	-77.3 0.79 (1)	4.08	11-4	-663 / 0	0.26 (1)
4-5	-1655 / 0	-77.3	-77.3 0.79 (1)	4.08	11-5	0 / 682	0.15 (1)
5-6	-1321 / 0	-77.3	-77.3 0.51 (1)	4.99	9-5	-82 / 75	0.03 (1)
6-7	0 / 29	-77.3	-77.3 0.10 (1)	10.00	2-12	0 / 1117	0.25 (1)
13-2	-1265 / 0	0.0	0.0 0.13 (1)	7.16	9-6	0 / 1117	0.25 (1)
8-6	-1265 / 0	0.0	0.0 0.13 (1)	7.16			
13-12	0 / 0	-17.5	-17.5 0.16 (4)	10.00			
12-11	0 / 1096	-17.5	-17.5 0.27 (1)	10.00			
11-10	0 / 1096	-17.5	-17.5 0.27 (1)	10.00			
10-9	0 / 1096	-17.5	-17.5 0.27 (1)	10.00			
9-8	0 / 0	-17.5	-17.5 0.16 (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 (0.84")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.84")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.12")

CSI: TC=0.79 (4-5:1), BC=0.27 (9-11:1), WB=0.26 (4-11:1), SSI=0.26 (3-4:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

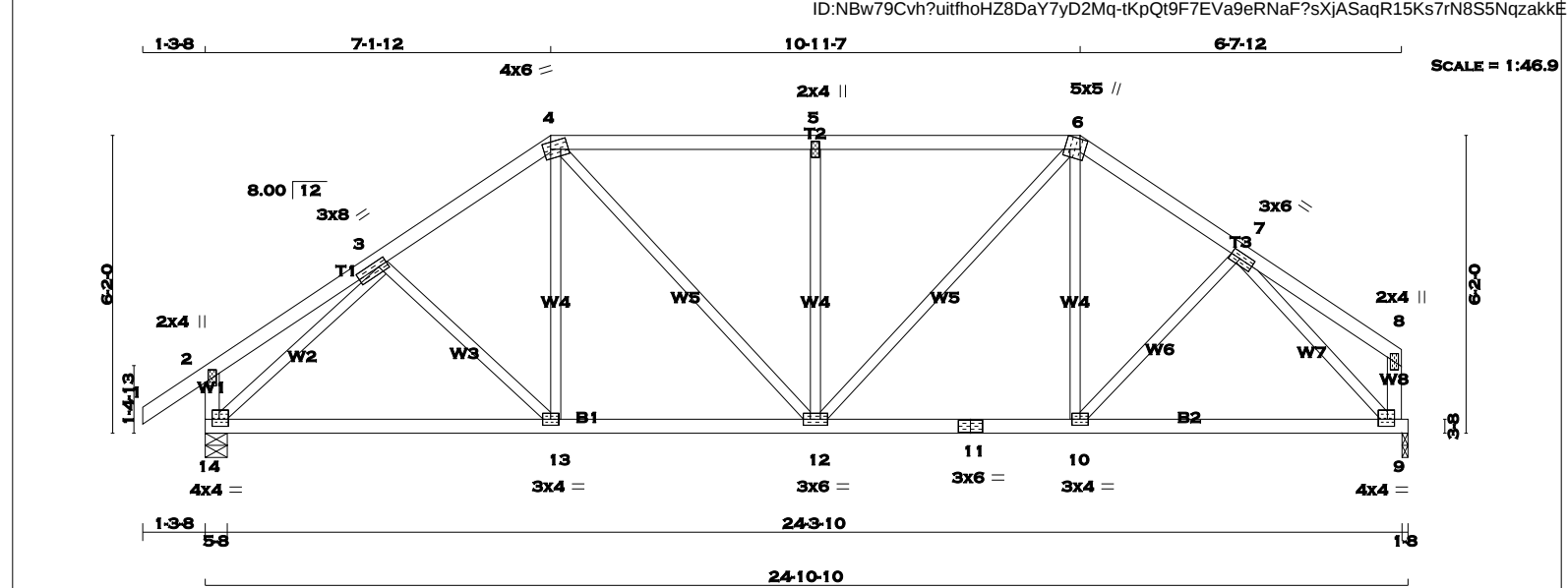
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (12) (INPUT = 0.90)
JSI METAL= 0.45 (2) (INPUT = 1.00)

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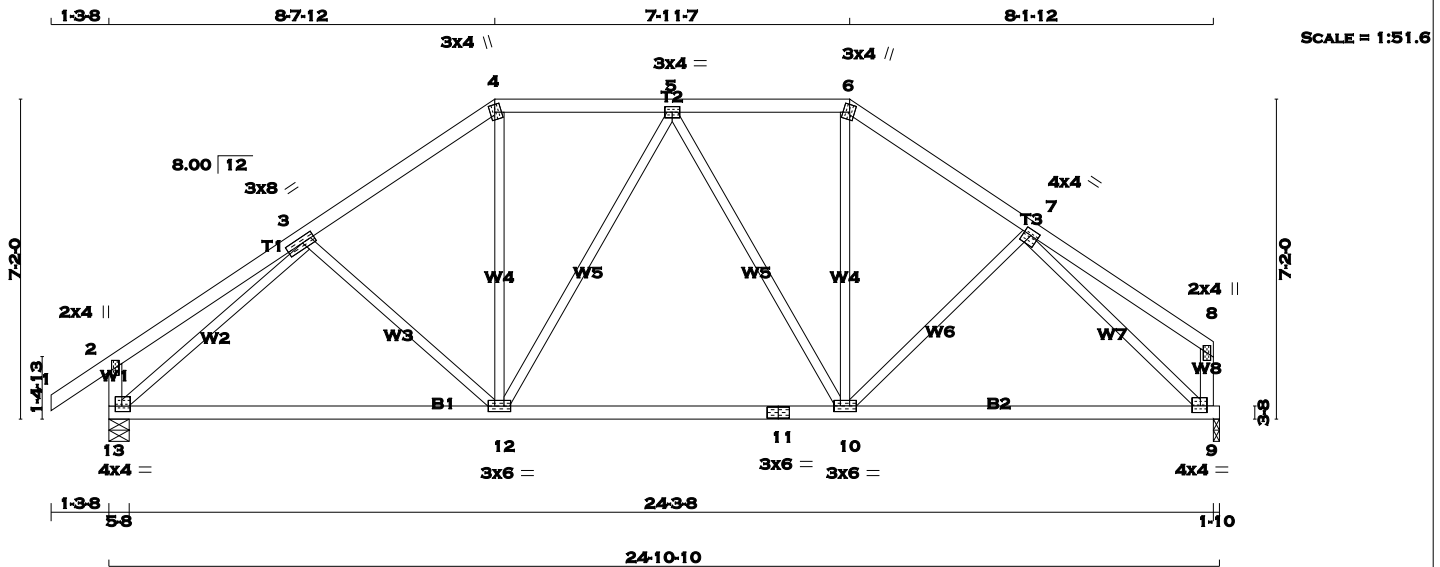
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR.		DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS										DESIGN CRITERIA									
1 - 4 2x4 DRY No.2 SPF		FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT REQRD										SPECIFIED LOADS:									
4 - 6 2x4 DRY No.2 SPF		JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX										TOP CH. LL = 23.3 PSF									
6 - 8 2x4 DRY No.2 SPF		14 1280 0 1280 0 0 5-8 5-8										DL = 3.0 PSF									
14 - 2 2x4 DRY No.2 SPF		9 1174 0 1174 0 0 1-8 1-8										BOT CH. LL = 0.0 PSF									
9 - 8 2x4 DRY No.2 SPF												DL = 7.0 PSF									
14 - 11 2x4 DRY No.2 SPF												TOTAL LOAD = 33.3 PSF									
11 - 9 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										LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12									
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									
		14 896 640 / 0 0 / 0 0 / 0 256 / 0 0 / 0										THIS DESIGN COMPLIES WITH:									
		9 824 576 / 0 0 / 0 0 / 0 247 / 0 0 / 0										- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014									
												- CSA 086-09									
												- TPIC 2011									
												(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD									
												ALLOWABLE DEFL.(LL)= L/360 (0.82")									
												CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")									
												ALLOWABLE DEFL.(TL)= L/360 (0.82")									
												CALCULATED VERT. DEFL.(TL) = L/ 999 (0.10")									
												CSI: TC=0.32 (4-5:1) , BC=0.28 (12-13:4) , WB=0.57 (3-14:1) , 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 (14) (INPUT = 0.90)									
												JSI METAL= 0.39 (14) (INPUT = 1.00)									

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17-5253
BUILDING DIVISION

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LICENSED PROFESSIONAL ENGINEER
P. M. TREVISAN
100136551
March 15th, 2017
PROVINCE OF ONTARIO



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

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMV+p	MT20	2.0	4.0	
3	TMVW-t	MT20	3.0	8.0	1.50 3.50
4	TTW+m	MT20	3.0	4.0	2.00 1.25
5	TMVW-t	MT20	3.0	4.0	
6	TTW+m	MT20	3.0	4.0	2.00 1.25
7	TMVW-t	MT20	4.0	4.0	1.50 2.00
8	TMV+p	MT20	2.0	4.0	
9	BMVW1-t	MT20	4.0	4.0	1.75 1.75
10	BMVW-t	MT20	3.0	6.0	
11	BS-t	MT20	3.0	6.0	
12	BMVW-t	MT20	3.0	6.0	
13	BMVW1-t	MT20	4.0	4.0	1.50 1.75
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.					



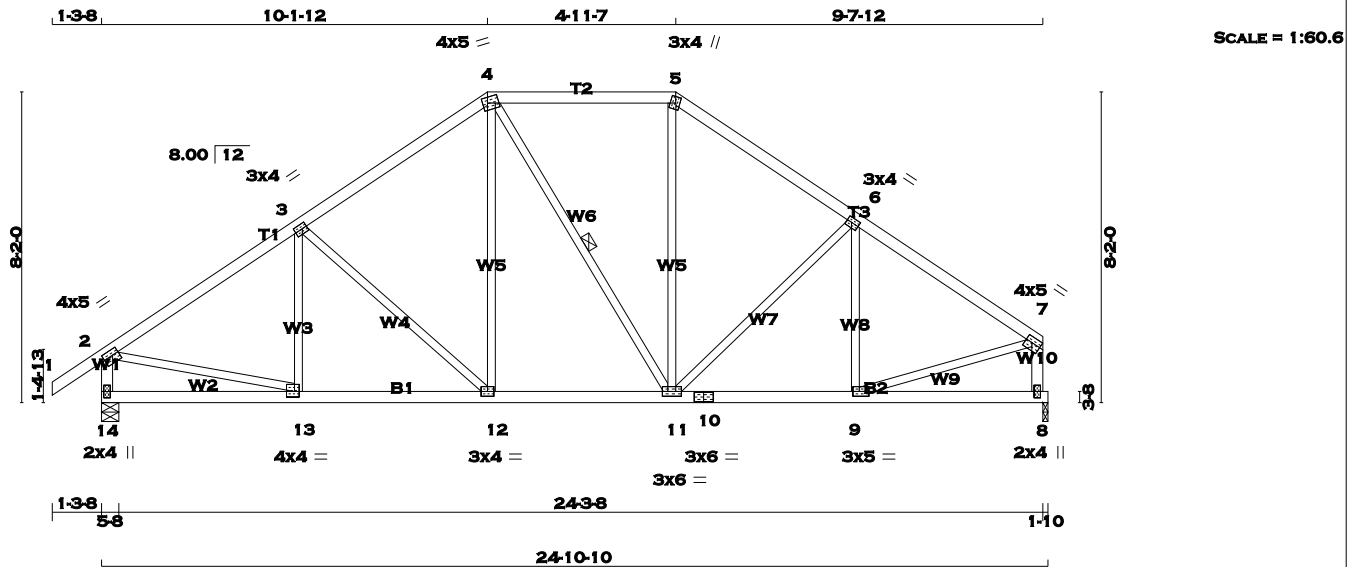
DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
13		1280	0	1280	0	0	5-8	5-8	
9		1174	0	1174	0	0	1-10	1-10	
UNFACTORED REACTIONS									
		1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
13		896	640 / 0	0 / 0	0 / 0	0 / 0	256 / 0	0 / 0	
9		824	576 / 0	0 / 0	0 / 0	0 / 0	247 / 0	0 / 0	
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 13, 9									
BRACING									
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.64 FT.									
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.									
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.									
LOADING									
TOTAL LOAD CASES: (4)									
		CHORDS				WEBS			
		MAX. FACTORED	FACTORED			MAX. FACTORED	FACTORED		
MEMB.		FORCE (LBS)	VERT. LOAD (LBS)	LC1 MAX (LC)	UNBRAC	MEMB.	FORCE (LBS)	MAX (LC)	
FR-TO			FROM	TO	LENGTH	FR-TO			
1-2		0 / 29	-77.3	-77.3	0.10 (1)	10.00	3-12	-125 / 23	0.08 (1)
2-3		0 / 21	-77.3	-77.3	0.23 (1)	10.00	12-4	0 / 403	0.09 (1)
3-4		-1197 / 0	-77.3	-77.3	0.19 (1)	5.64	12-5	-184 / 0	0.24 (1)
4-5		-983 / 0	-77.3	-77.3	0.16 (1)	6.11	5-10	-242 / 0	0.31 (1)
5-6		-954 / 0	-77.3	-77.3	0.16 (1)	6.18	10-6	0 / 391	0.09 (1)
6-7		-1162 / 0	-77.3	-77.3	0.17 (1)	5.73	10-7	-42 / 42	0.02 (1)
7-8		0 / 20	-77.3	-77.3	0.20 (1)	10.00	13-3	-1453 / 0	0.84 (1)
13-2		-235 / 0	0.0	0.0	0.02 (1)	7.81	7-9	-1394 / 0	0.77 (1)
9-8		-122 / 0	0.0	0.0	0.01 (1)	7.81			
13-12		0 / 1071	-17.5	-17.5	0.36 (4)	10.00			
12-11		0 / 1074	-17.5	-17.5	0.37 (4)	10.00			
11-10		0 / 1074	-17.5	-17.5	0.37 (4)	10.00			
10-9		0 / 978	-17.5	-17.5	0.32 (4)	10.00			

DESIGN CRITERIA			
SPECIFIED LOADS:			
TOP CH.	LL	=	23.3 PSF
	DL	=	3.0 PSF
BOT CH.	LL	=	0.0 PSF
	DL	=	7.0 PSF
TOTAL LOAD = 33.3 PSF			
SPACING = 24.0 IN. C/C			
LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12			
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010			
THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012, BCBC 2012, ABC 2014 - CSA 086-09 - TPIC 2011			
(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD			
ALLOWABLE DEFL.(LL)= L/360 (0.82") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04") ALLOWABLE DEFL.(TL)= L/360 (0.82") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.18")			
CSI: TC=0.23 (2-3:1), BC=0.37 (10-12:4), WB=0.84 (3-13:1), SSI=0.15 (4-5:1)			
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10			
COMPANION LIVE LOAD FACTOR = 0.50			
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .			
NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 822 2284 1656			
PLATE PLACEMENT TOL. = 0.250 inches			
PLATE ROTATION TOL. = 5.0 Deg.			
JSI GRIP= 0.89 (3) (INPUT = 0.90) JSI METAL= 0.51 (7) (INPUT = 1.00)			

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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 - 10	2x4	DRY	No.2
10 - 8	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	5.0	1.75 2.00
3	TMVW-t	MT20	3.0	4.0	1.50 1.50
4	TTWW-m	MT20	4.0	5.0	1.75 1.50
5	TTW+m	MT20	3.0	4.0	2.00 1.25
6	TMVW-t	MT20	3.0	4.0	1.50 1.50
7	TMVW-t	MT20	4.0	5.0	1.75 Edge
8	BMV1+p	MT20	2.0	4.0	
9	BMVW-t	MT20	3.0	5.0	1.50 2.00
10	BS-t	MT20	3.0	6.0	
11	BMVW-t	MT20	3.0	6.0	
12	BMVW-t	MT20	3.0	4.0	
13	BMVW-t	MT20	4.0	4.0	1.75 1.50
14	BMV1+p	MT20	2.0	4.0	
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.					
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.					



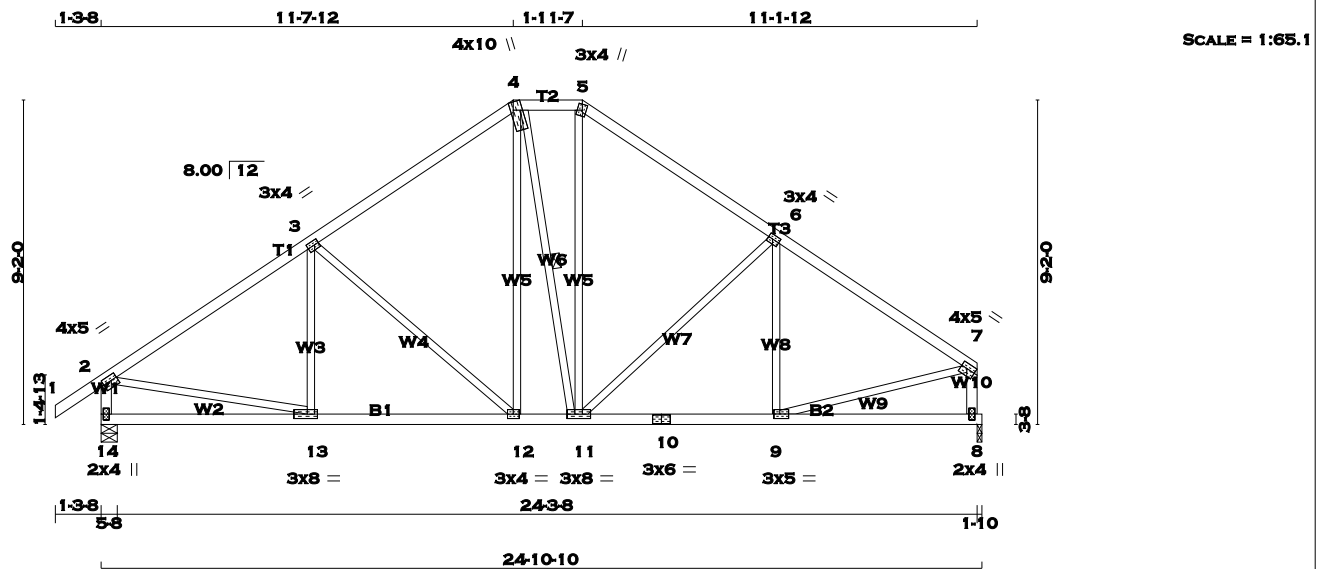
DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
14		1280	0	1280	0	5-8	5-8		
8		1174	0	1174	0	1-10	1-10		
UNFACTORED REACTIONS									
		1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
14		896	640 / 0	0 / 0	0 / 0	0 / 0	256 / 0	0 / 0	
8		824	576 / 0	0 / 0	0 / 0	0 / 0	247 / 0	0 / 0	
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 14, 8									
BRACING									
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.33 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.									
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.									
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.		MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. VERT. LOAD (LC1)	MAX. UNBRACED LENGTH (FR-TO)	MEMB.	MAX. FORCE (LBS)	MAX. VERT. LOAD (LC1)	
FR-TO						FR-TO			
1-2		0 / 29	-77.3	-77.3 0.10 (1)	10.00	13-3	-136 / 45	0.05 (1)	
2-3		-1322 / 0	-77.3	-77.3 0.28 (1)	5.33	3-12	-304 / 0	0.26 (1)	
3-4		-1103 / 0	-77.3	-77.3 0.27 (1)	5.71	12-4	0 / 287	0.06 (1)	
4-5		-884 / 0	-77.3	-77.3 0.25 (1)	6.22	4-11	-27 / 0	0.02 (1)	
5-6		-1085 / 0	-77.3	-77.3 0.24 (1)	5.79	11-5	0 / 261	0.06 (1)	
6-7		-1224 / 0	-77.3	-77.3 0.25 (1)	5.52	11-6	-221 / 0	0.18 (1)	
14-2		-1242 / 0	0.0	0.0 0.13 (1)	7.20	9-6	-206 / 19	0.08 (1)	
8-7		-1137 / 0	0.0	0.0 0.12 (1)	7.45	2-13	0 / 1145	0.26 (1)	
						9-7	0 / 1080	0.24 (1)	
14-13		0 / 0	-17.5	-17.5 0.11 (4)	10.00				
13-12		0 / 1121	-17.5	-17.5 0.23 (1)	10.00				
12-11		0 / 898	-17.5	-17.5 0.19 (1)	10.00				
11-10		0 / 1039	-17.5	-17.5 0.21 (1)	10.00				
10-9		0 / 1039	-17.5	-17.5 0.21 (1)	10.00				
9-8		0 / 0	-17.5	-17.5 0.10 (4)	10.00				

DESIGN CRITERIA									
SPECIFIED LOADS:									
TOP CH.	LL	=	23.3	PSF					
	DL	=	3.0	PSF					
BOT CH.	LL	=	0.0	PSF					
	DL	=	7.0	PSF					
TOTAL LOAD				=	33.3	PSF			
SPACING = 24.0 IN./C									
LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12									
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010									
THIS DESIGN COMPLIES WITH:									
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014									
- CSA 086-09									
- TPIC 2011									
(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD									
ALLOWABLE DEFL.(LL)= L/360 (0.82")									
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")									
ALLOWABLE DEFL.(TL)= L/360 (0.82")									
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.07")									
CSI: TC=0.28 (2-3:1), BC=0.23 (12-13:1), WB=0.26 (3-12:1), SSI=0.16 (2-3:1)									
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10									
COMPANION LIVE LOAD FACTOR = 0.50									
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.									
NAIL VALUES									
PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)							
MAX MIN	MAX MIN	MAX MIN							
MT20	618 354	1667 822	2284	1656					
PLATE PLACEMENT TOL. = 0.250 inches									
PLATE ROTATION TOL. = 5.0 Deg.									
JSI GRIP= 0.89 (9) (INPUT = 0.90)									
JSI METAL= 0.45 (2) (INPUT = 1.00)									

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

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMVW-t	MT20	4.0	5.0	1.75 2.00
3	TMVW-t	MT20	3.0	4.0	1.50 1.50
4	TTWW+m	MT20	4.0	10.0	Edge 1.00
5	TTW+m	MT20	3.0	4.0	2.00 1.25
6	TMVW-t	MT20	3.0	4.0	1.50 1.50
7	TMVW-t	MT20	4.0	5.0	1.75 Edge
8	BMV1+p	MT20	2.0	4.0	
9	BMVW-t	MT20	3.0	5.0	1.50 2.00
10	BS-t	MT20	3.0	6.0	
11	BMVW-t	MT20	3.0	8.0	
12	BMVW-t	MT20	3.0	4.0	
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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
14	1280	0	1280	0	0	5-8	5-8
8	1174	0	1174	0	0	1-10	1-10

UNFACTORED REACTIONS							
JT	1ST LCASE COMBINED	MAX/MIN. SNOW	MAX/MIN. LIVE	MAX/MIN. PERM. LIVE	MAX/MIN. WIND	MAX/MIN. DEAD	MAX/MIN. SOIL
14	896	640 / 0	0 / 0	0 / 0	0 / 0	256 / 0	0 / 0
8	824	576 / 0	0 / 0	0 / 0	0 / 0	247 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.19 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-11. DBS = 20-0-0 . CBF = 2 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. FACTORED LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED LC1 (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 29	-77.3 -77.3	0.10 (1)	10.00	13-3	-87 / 75	0.04 (1)
2-3	-1324 / 0	-77.3 -77.3	0.38 (1)	5.19	3-12	-410 / 0	0.49 (1)
3-4	-1012 / 0	-77.3 -77.3	0.35 (1)	5.77	12-4	0 / 321	0.07 (1)
4-5	-816 / 0	-77.3 -77.3	0.04 (1)	6.25	4-11	-17 / 0	0.01 (1)
5-6	-1007 / 0	-77.3 -77.3	0.32 (1)	5.83	11-5	0 / 310	0.07 (1)
6-7	-1238 / 0	-77.3 -77.3	0.34 (1)	5.38	11-6	-329 / 0	0.39 (1)
14-2	-1238 / 0	0.0 0.0	0.13 (1)	7.22	9-6	-152 / 50	0.07 (1)
8-7	-1133 / 0	0.0 0.0	0.12 (1)	7.46	2-13	0 / 1145	0.26 (1)
					9-7	0 / 1085	0.24 (1)
14-13	0 / 0	-17.5 -17.5	0.15 (4)	10.00			
13-12	0 / 1126	-17.5 -17.5	0.26 (1)	10.00			
12-11	0 / 820	-17.5 -17.5	0.18 (1)	10.00			
11-10	0 / 1053	-17.5 -17.5	0.24 (1)	10.00			
10-9	0 / 1053	-17.5 -17.5	0.24 (1)	10.00			
9-8	0 / 0	-17.5 -17.5	0.14 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

CSI: TC=0.38 (2-3:1), BC=0.26 (12-13:1), WB=0.49 (3-12:1), SSI=0.18 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

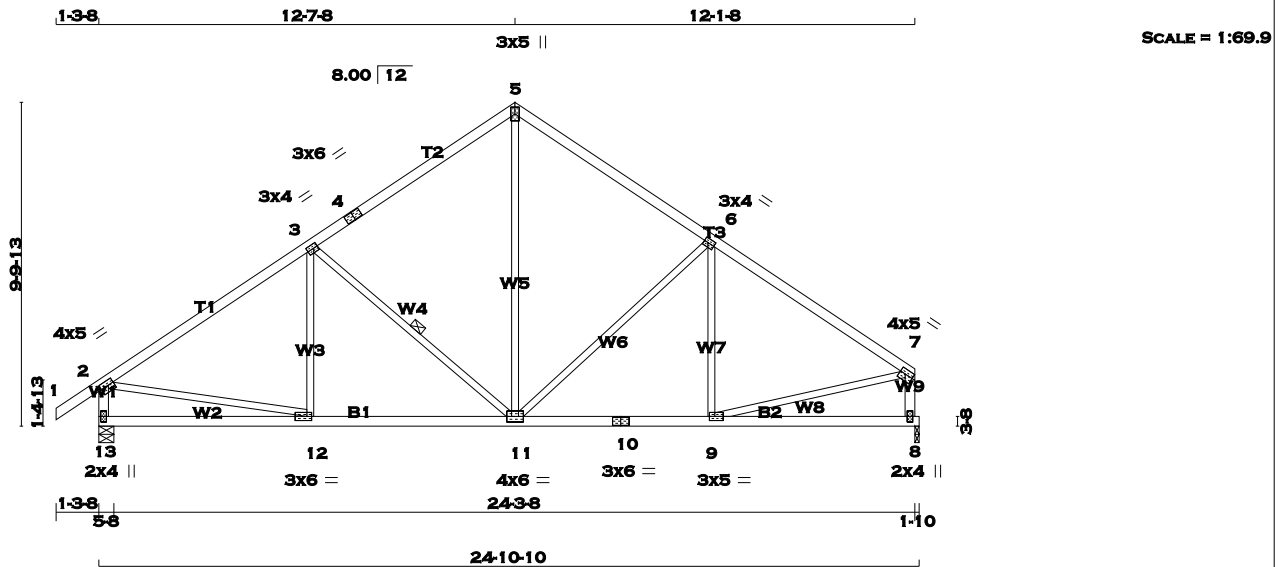
JSI GRIP= 0.90 (9) (INPUT = 0.90)
JSI METAL= 0.45 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 5 X 106 = 528 lb
[M][F]

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

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

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

BEARINGS							
FACTORED GROSS REACTION				MAXIMUM FACTORED GROSS REACTION			
JT	VERT	HORZ		DOWN	HORZ	UPLIFT	IN-SX
13	1280	0		1280	0	0	5-8
8	1174	0		1174	0	0	1-10
UNFACTORED REACTIONS							
JT	1ST LCASE COMBINED	MAX/MIN. SNOW	MAX/MIN. LIVE	MAX/MIN. PERM. LIVE	MAX/MIN. WIND	MAX/MIN. DEAD	MAX/MIN. SOIL
13	896	640 / 0	0 / 0	0 / 0	0 / 0	256 / 0	0 / 0
8	824	576 / 0	0 / 0	0 / 0	0 / 0	247 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.10 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 3-11. 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

CHORDS				WEBS			
MEMB.		MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED LC1 MAX (LC)	MAX. FACTORED UNBRAC LENGTH	MEMB.	
FR-TO		FROM	TO	FROM	TO	FR-TO	
1-2		0 / 29	-77.3	-77.3	0.10 (1)	10.00	12-3
2-3		-1317 / 0	-77.3	-77.3	0.45 (1)	5.10	3-11
3-4		-958 / 0	-77.3	-77.3	0.42 (1)	5.79	11-5
4-5		-958 / 0	-77.3	-77.3	0.42 (1)	5.79	11-6
5-6		-957 / 0	-77.3	-77.3	0.38 (1)	5.85	9-6
6-7		-1239 / 0	-77.3	-77.3	0.41 (1)	5.29	2-12
13-2		-1234 / 0	0.0	0.0	0.13 (1)	7.23	9-7
8-7		-1129 / 0	0.0	0.0	0.12 (1)	7.47	
13-12		0 / 0	-17.5	-17.5	0.17 (4)	10.00	
12-11		0 / 1123	-17.5	-17.5	0.27 (1)	10.00	
11-10		0 / 1057	-17.5	-17.5	0.25 (1)	10.00	
10-9		0 / 1057	-17.5	-17.5	0.25 (1)	10.00	
9-8		0 / 0	-17.5	-17.5	0.16 (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 (0.82")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.82")
CALCULATED VERT. DEFL.(TL) = L/999 (0.09")

CSI: TC=0.45 (2-3:1) , BC=0.27 (11-12:1) , WB=0.55 (6-11:1) , 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
MT20	618	354	1667	822	2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

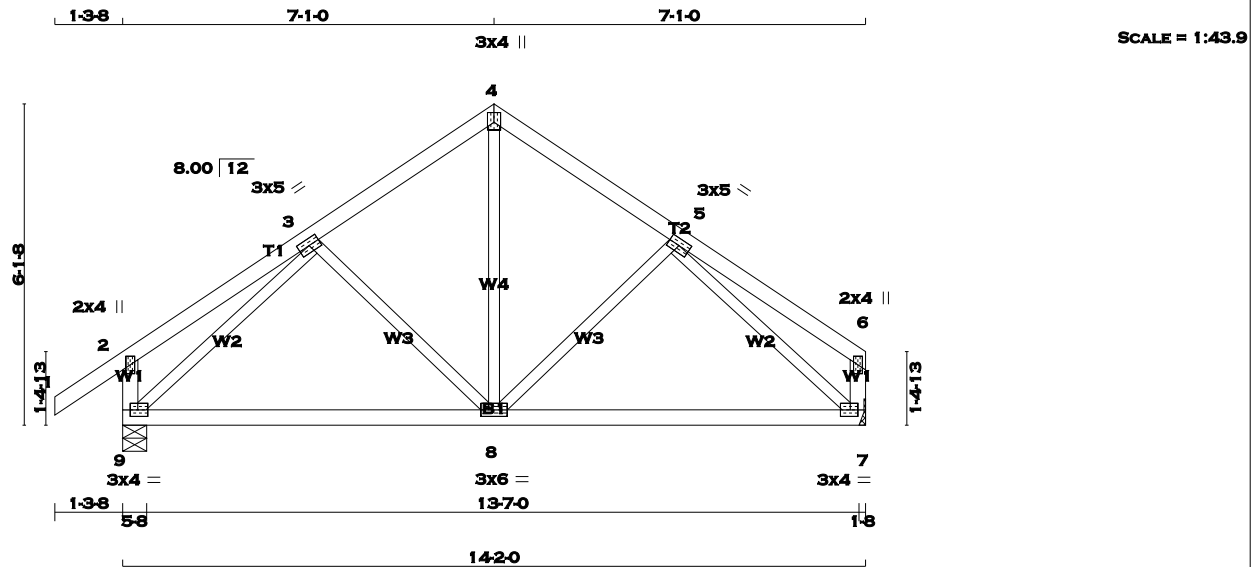
JSI GRIP= 0.90 (9) (INPUT = 0.90)
JSI METAL= 0.45 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 3 X 59 = 178 lb
[M][F]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
3	TMWW-t	MT20	3.0	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	BMVWW-t	MT20	3.0	6.0		
9	BMVW1-t	MT20	3.0	4.0	1.50	1.75

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

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
9	778	0	778	0	0
7	672	0	672	0	0

HANGER BY OTHERS
MIN. SEAT SIZE: 1-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. SNOW	MAX./MIN. LIVE	MAX./MIN. PERM. LIVE	MAX./MIN. WIND	MAX./MIN. DEAD	MAX./MIN. SOIL
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	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	MEMB.
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/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 (3) (INPUT = 0.90)
JSI METAL= 0.21 (3) (INPUT = 1.00)



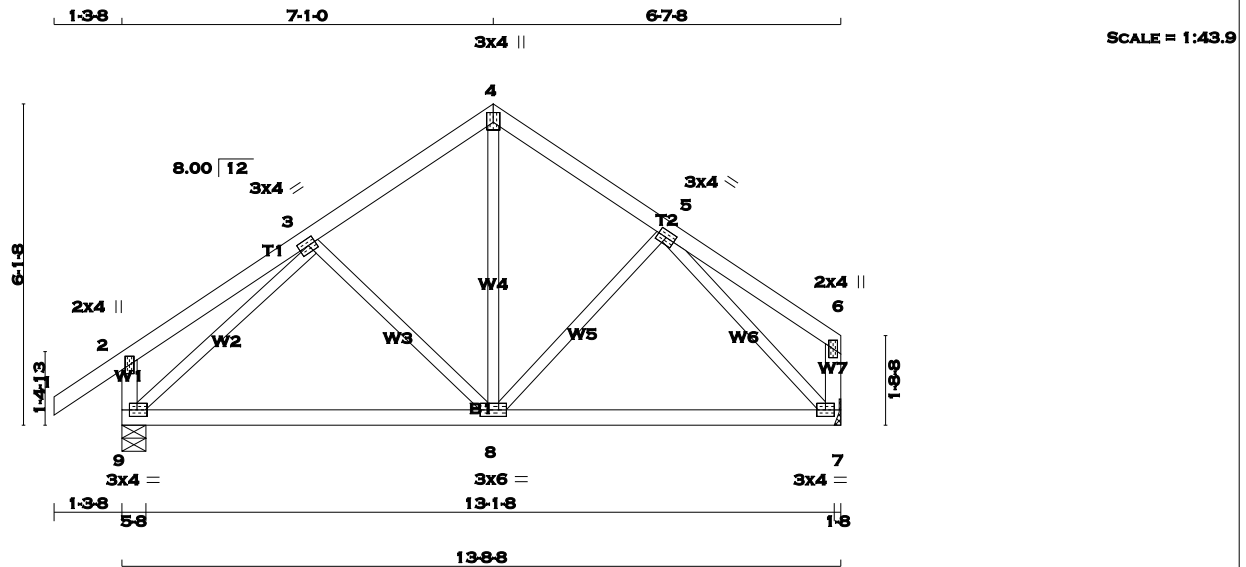
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TOTAL WEIGHT = 58 lb

LUMBER				DESCR.	
N. L. G. A. RULES	SIZE	LUMBER			
CHORDS					
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	4.0	1.50	1.75
4	TTW+p	MT20	3.0	4.0	2.25	1.50
5	TMWW-t	MT20	3.0	4.0		
6	TMV+p	MT20	2.0	4.0		
7	BMVW1-t	MT20	3.0	4.0		
8	BMVWW-t	MT20	3.0	6.0		
9	BMVW1-t	MT20	3.0	4.0	1.50	1.75

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

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT		VERT	HORZ	DOWN	UPLIFT
9		756	0	756	0
7		650	0	650	0

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
9	528	383 / 0	0 / 0	0 / 0	0 / 0	145 / 0	0 / 0
7	456	319 / 0	0 / 0	0 / 0	0 / 0	137 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX. (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. (LC)	UNBRACED LENGTH
FR-TO				FR-TO			
1-2	0 / 29	-77.3	-77.3 0.10 (1)	3-8	-153 / 4	0.06 (1)	10.00
2-3	0 / 17	-77.3	-77.3 0.15 (1)	8-4	0 / 328	0.07 (1)	10.00
3-4	-498 / 0	-77.3	-77.3 0.12 (1)	8-5	-100 / 15	0.04 (1)	6.25
4-5	-497 / 0	-77.3	-77.3 0.10 (1)	9-3	-712 / 0	0.28 (1)	6.25
5-6	0 / 16	-77.3	-77.3 0.13 (1)	5-7	-690 / 0	0.26 (1)	10.00
9-2	-212 / 0	0.0	0.0 0.02 (1)				7.81
7-6	-100 / 0	0.0	0.0 0.01 (1)				7.81
9-8	0 / 510	-17.5	-17.5 0.27 (4)				10.00
8-7	0 / 468	-17.5	-17.5 0.27 (4)				10.00

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.46")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.46")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.06")

CSI: TC=0.15 (2-3:1) , BC=0.27 (8-9:4) , WB=0.28 (3-9:1) , SSI=0.11 (3-4:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR 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= 0.25 (3) (INPUT = 1.00)

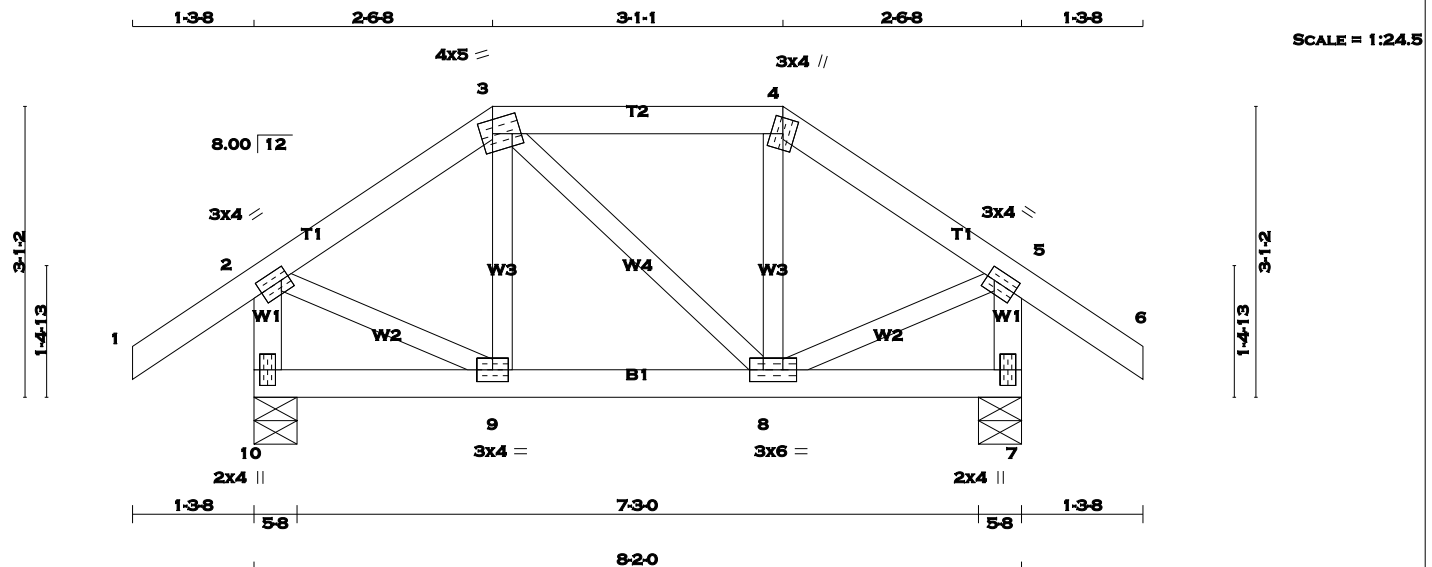


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IN THE DESIGN OF THIS COMPONENT.





LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
10 - 2	2x4	DRY	No.2	SPF
7 - 5	2x4	DRY	No.2	SPF
10 - 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	X
2	TMVW-t	MT20	3.0	4.0	1.50 1.00
3	TTWW-m	MT20	4.0	5.0	1.75 1.50
4	TTW+m	MT20	3.0	4.0	
5	TMVW-t	MT20	3.0	4.0	1.50 1.00
7	BMV1+p	MT20	2.0	4.0	
8	BMWW-t	MT20	3.0	6.0	
9	BMWW-t	MT20	3.0	4.0	
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
10	493	0	493	0	0
7	493	0	493	0	0

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX/MIN.	COMPONENT	REACTIONS			
10	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
10	344	254 / 0	0 / 0	0 / 0	0 / 0	90 / 0	0 / 0
7	344	254 / 0	0 / 0	0 / 0	0 / 0	90 / 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.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	LC1 MAX (PLF)	LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX (PLF)	LC1 MAX (LC)	
FR-TO		FROM	TO		FR-TO		FROM	TO	
1-2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	9-3	-50 / 28	0.01 (4)	
2-3	-301 / 0	-77.3	-77.3	0.06 (1)	6.25	3-8	0 / 0	0.00 (1)	
3-4	-247 / 0	-77.3	-77.3	0.09 (1)	6.25	8-4	-50 / 28	0.01 (4)	
4-5	-300 / 0	-77.3	-77.3	0.06 (1)	6.25	2-9	0 / 270	0.06 (1)	
5-6	0 / 29	-77.3	-77.3	0.10 (1)	10.00	8-5	0 / 269	0.06 (1)	
10-2	-474 / 0	0.0	0.0	0.05 (1)	7.81				
7-5	-474 / 0	0.0	0.0	0.05 (1)	7.81				
10-9	0 / 0	-17.5	-17.5	0.03 (4)	10.00				
9-8	0 / 248	-17.5	-17.5	0.05 (1)	10.00				
8-7	0 / 0	-17.5	-17.5	0.03 (4)	10.00				

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.27")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.27")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.10 (1-2:1), BC=0.05 (8-9:1), WB=0.06 (2-9:1), 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
MT20	618	354	1667	822	2284

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

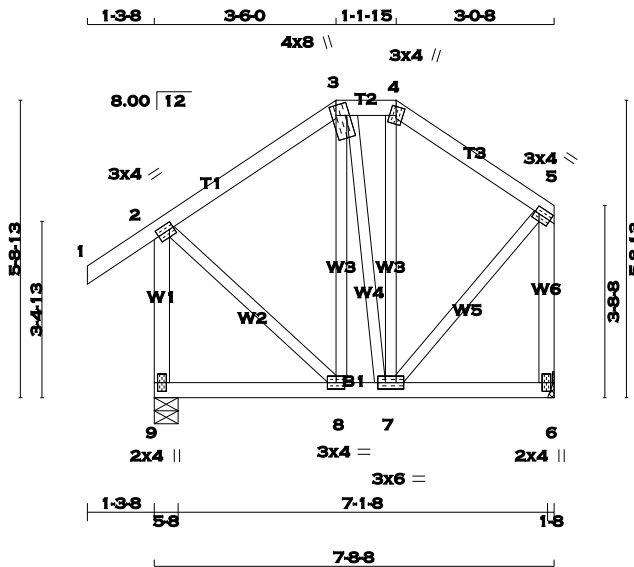
JSI GRIP= 0.88 (2) (INPUT = 0.90)
JSI METAL= 0.16 (2) (INPUT = 1.00)



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SCALE = 1:44.4

TOTAL WEIGHT = 48 lb

[M][F]

LUMBER					N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	SPF	CHORDS	SIZE	LUMBER	DESCR.	SPF
1 - 3	2x4	DRY	No.2	SPF	1 - 3	2x4	DRY	No.2	SPF
3 - 4	2x4	DRY	No.2	SPF	3 - 4	2x4	DRY	No.2	SPF
4 - 5	2x4	DRY	No.2	SPF	4 - 5	2x4	DRY	No.2	SPF
9 - 2	2x4	DRY	No.2	SPF	9 - 2	2x4	DRY	No.2	SPF
6 - 5	2x4	DRY	No.2	SPF	6 - 5	2x4	DRY	No.2	SPF
9 - 6	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	TMVW-t	MT20	3.0	4.0	1.50	1.00
3	TTWW+m	MT20	4.0	8.0	2.25	1.00
4	TTW+m	MT20	3.0	4.0		
5	TMVW-t	MT20	3.0	4.0	1.50	1.00
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		INPUT		REQRD	
JT	VERT	GROSS REACTION	HORZ	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
9	472	0	472	0	0	5-8	5-8		
6	366	0	366	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	DOWN	HORZ	DOWN	HORZ	DOWN	HORZ	DOWN	HORZ
9	329	243 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	85 / 0	0 / 0	0 / 0	0 / 0
6	257	179 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	77 / 0	0 / 0	0 / 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		FACTORED		MAX. FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 (LC)	MAX. (LC)	UNBRACED LENGTH	MEMB.	FORCE (LBS)	MAX. (LC)	UNBRACED LENGTH
FR-TO		FROM	TO			FR-TO			
1-2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	8-3	-59 / 20	0.03 (1)	
2-3	-161 / 0	-77.3	-77.3	0.12 (1)	6.25	3-7	-32 / 0	0.02 (1)	
3-4	-126 / 0	-77.3	-77.3	0.01 (1)	6.25	7-4	-77 / 9	0.04 (1)	
4-5	-154 / 0	-77.3	-77.3	0.09 (1)	6.25	2-8	0 / 176	0.04 (1)	
9-2	-445 / 0	0.0	0.0	0.09 (1)	7.81	7-5	0 / 188	0.04 (1)	
6-5	-341 / 0	0.0	0.0	0.08 (1)	7.81				
9-8	0 / 0	-17.5	-17.5	0.05 (4)	10.00				
8-7	0 / 133	-17.5	-17.5	0.06 (4)	10.00				
7-6	0 / 0	-17.5	-17.5	0.03 (4)	10.00				

DESIGN CRITERIA

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

SPACING = 24.0 IN./C/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 (0.26")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.26")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.12 (2-3:1), BC=0.06 (7-8:4), WB=0.04 (5-7:1), SSI=0.09 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) 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 (5) (INPUT = 0.90)
JSI METAL= 0.11 (2) (INPUT = 1.00)



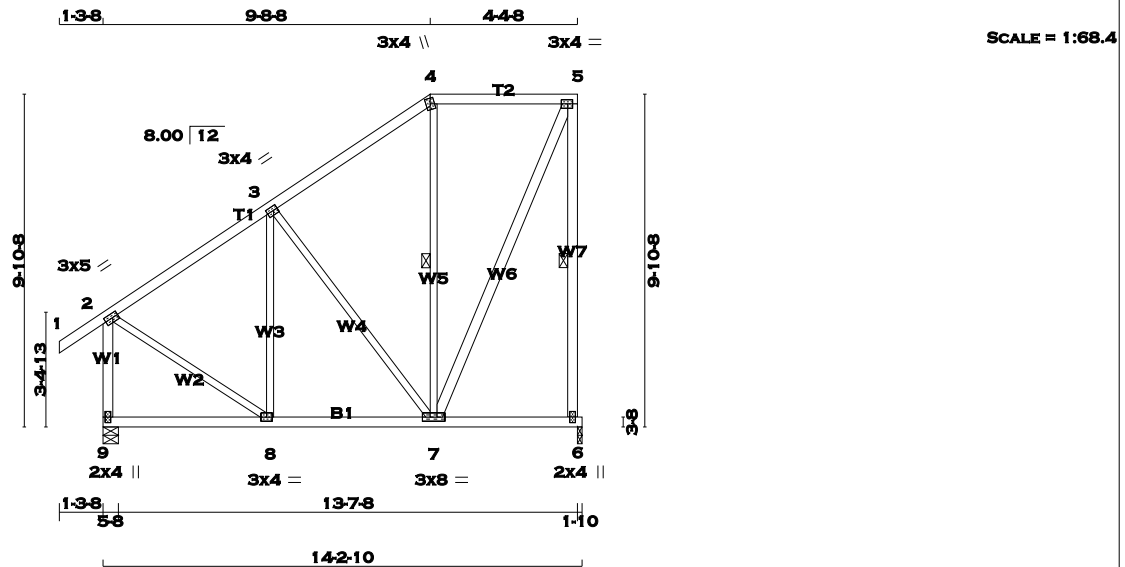
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TOTAL WEIGHT = 2 X 85 = 170 lb
[M][F]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE		LUMBER	DESCR
1 - 4	2x4	DRY	No.2	SPF
4 - 5	2x4	DRY	No.2	SPF
6 - 5	2x4	DRY	No.2	SPF
9 - 2	2x4	DRY	No.2	SPF
9 - 6	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				
7 - 5	2x4	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	TMVW-t	MT20	3.0	4.0	1.50	1.50
4	TTW+m	MT20	3.0	4.0		
5	TMVW-t	MT20	3.0	4.0	1.50	1.75
6	BMV1+p	MT20	2.0	4.0		
7	BMVW-t	MT20	3.0	8.0		
8	BMVW-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		INPUT		REQRD	
JT	VERT	GROSS	REACTION	GROSS	REACTION	BRG	DOWN	BRG	UP
6	668	0	668	0	0	1-10	1-10	1-10	1-10
9	774	0	774	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
6	469	328 / 0	0 / 0	0 / 0	0 / 0	141 / 0	0 / 0		
9	541	392 / 0	0 / 0	0 / 0	0 / 0	149 / 0	0 / 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 = 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, 4-7. DBS = 20-0-0. CBF = 80 LBS.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS				
MAX. FACTORED		FACTORED		MAX. FACTORED		FACTORED		
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM	TO		FR-TO			
1-2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	8-3	-138 / 39	0.10 (1)
2-3	-429 / 0	-77.3	-77.3	0.24 (1)	6.25	3-7	-276 / 0	0.37 (1)
3-4	-280 / 0	-77.3	-77.3	0.24 (1)	6.25	7-4	-165 / 10	0.11 (1)
4-5	-209 / 0	-77.3	-77.3	0.19 (1)	6.25	7-5	0 / 513	0.08 (1)
6-5	-637 / 0	0.0	0.0	0.30 (1)	6.25	2-8	0 / 444	0.10 (1)
9-2	-739 / 0	0.0	0.0	0.14 (1)	7.81			
9-8	0 / 0	-17.5	-17.5	0.10 (4)	10.00			
8-7	0 / 378	-17.5	-17.5	0.13 (4)	10.00			
7-6	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

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 (0.47")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.47")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.30 (5-6:1), BC=0.13 (7-8:4), WB=0.37 (3-7:1), 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 (PLI)		SECTION (PLI)	
	(PSI)		(PLI)		(PLI)		(PLI)
		MAX MIN	MAX MIN	MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20		618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.81 (5) (INPUT = 0.90)
JSI METAL= 0.18 (2) (INPUT = 1.00)



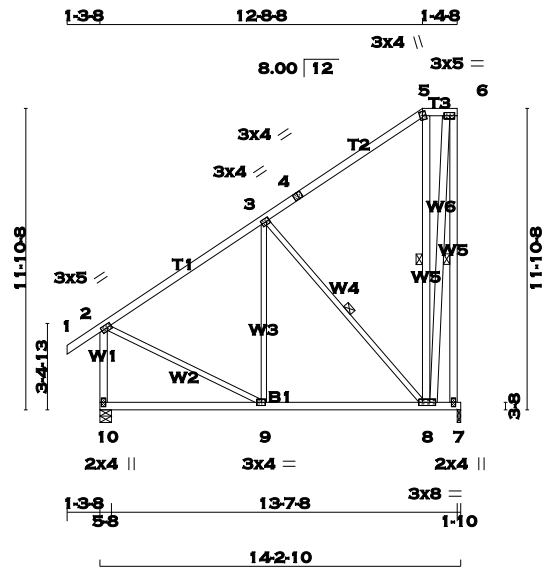
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TOTAL WEIGHT = 2 X 98 = 196 lb
[M][F]

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
7 - 6	2x4	DRY	No.2		SPF
10 - 2	2x4	DRY	No.2		SPF
10 - 7	2x4	DRY	No.2		SPF
ALL WEBS		2x3	DRY	No.2	SPF
EXCEPT					
8 - 5	2x4	DRY	No.2		SPF
8 - 6	2x4	DRY	No.2		SPF
DRY: SEASONED LUMBER.					

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMVW-t	MT20	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	TTW+m	MT20	3.0	4.0	2.00 1.25
6	TMVW-t	MT20	3.0	5.0	1.50 2.25
7	BMV1+p	MT20	2.0	4.0	
8	BMVW-t	MT20	3.0	8.0	1.50 1.75
9	BMVW-t	MT20	3.0	4.0	
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		MAXIMUM FACTORED		INPUT		REQRD	
		GROSS REACTION		GROSS REACTION		BRG		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							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
7	469	328 / 0	0 / 0	0 / 0	0 / 0	141 / 0	0 / 0
10	541	392 / 0	0 / 0	0 / 0	0 / 0	149 / 0	0 / 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 = 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 6-7, 3-8, 5-8. DBS = 20-0-0 . CBF = 83 LBS.

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

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

C H O R D S				W E B S			
MEMB.		MAX. FACTORED		MAX. FACTORED		MAX. FACTORED	
		FORCE (LBS)	VERT. LOAD	FORCE (PLF)	UNBRAC LENGTH	FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO		FROM TO		FROM TO	
1-2	0 / 29	-77.3	-77.3	0.10 (1)	10.00	9-3	-44 / 95
2-3	-423 / 0	-77.3	-77.3	0.42 (1)	6.25	3-8	-478 / 0
3-4	-115 / 0	-77.3	-77.3	0.41 (1)	6.25	8-5	-189 / 0
4-5	-115 / 0	-77.3	-77.3	0.41 (1)	6.25	8-6	0 / 616
5-6	-65 / 0	-77.3	-77.3	0.02 (1)	6.25	2-9	0 / 421
7-6	-665 / 0	0.0	0.0	0.51 (1)	6.25		
10-2	-730 / 0	0.0	0.0	0.14 (1)	7.81		
10-9	0 / 0	-17.5	-17.5	0.19 (4)	10.00		
9-8	0 / 380	-17.5	-17.5	0.22 (4)	10.00		
8-7	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

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 (0.47")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.47")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.51 (6-7:1) , BC=0.22 (8-9:4) , WB=0.32 (3-8:1) , 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.

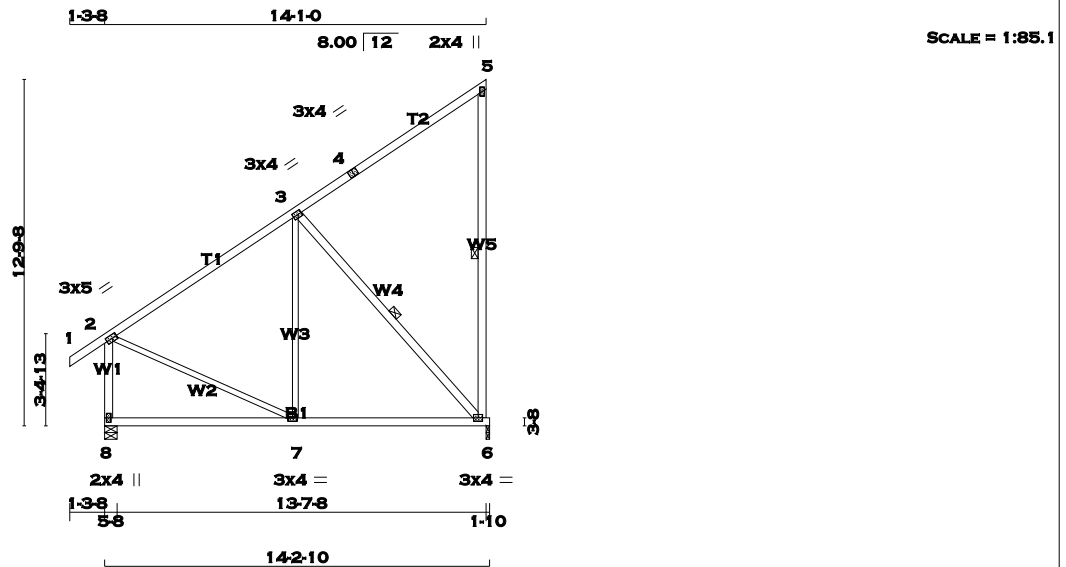
JSI GRIP= 0.83 (8) (INPUT = 0.90)
JSI METAL= 0.19 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 2 X 78 = 156 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		SPF	
EXCEPT						
3 - 6	2x4	DRY	No.2		SPF	

DRY: SEASONED LUMBER.

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

		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		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	MAX/MIN. SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
6	469	328 / 0	0 / 0	0 / 0	0 / 0	141 / 0	0 / 0
8	541	392 / 0	0 / 0	0 / 0	0 / 0	149 / 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 = 70 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 LC1 (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC (LC)
FR-TO		FROM TO			FR-TO		
1-2	0 / 29	-77.3 -77.3	0.10 (1)	10.00	7-3	-12 / 123	0.04 (4)
2-3	-416 / 0	-77.3 -77.3	0.52 (1)	6.25	3-6	-562 / 0	0.32 (1)
3-4	-38 / 0	-77.3 -77.3	0.51 (1)	6.25	2-7	0 / 412	0.09 (1)
4-5	-38 / 0	-77.3 -77.3	0.51 (1)	6.25			
6-5	-205 / 0	0.0 0.0	0.19 (1)	6.25			
8-2	-727 / 0	0.0 0.0	0.14 (1)	7.81			
8-7	0 / 0	-17.5 -17.5	0.25 (4)	10.00			
7-6	0 / 377	-17.5 -17.5	0.28 (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 (0.47")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.47")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.05")

CSI: TC=0.52 (2-3:1) , BC=0.28 (6-7:4) , WB=0.32 (3-6:1) , 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 MIN
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

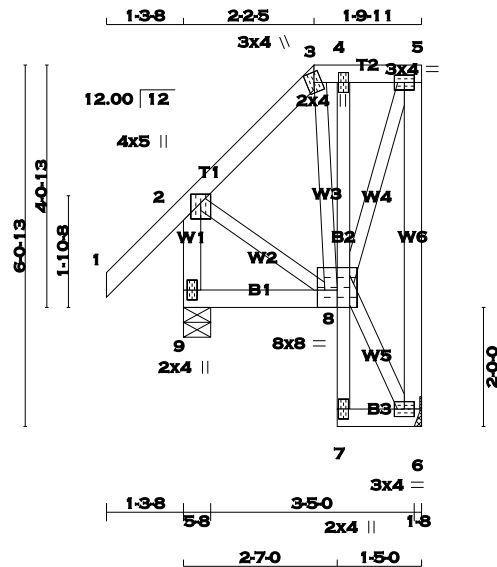
JSI GRIP= 0.75 (4) (INPUT = 0.90)
JSI METAL= 0.19 (2) (INPUT = 1.00)



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 IN THE DESIGN OF THIS COMPONENT.





SCALE = 1:38.7

TOTAL WEIGHT = 2 X 35 = 69 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	2x4	DRY	No.2		SPF
9 - 2	2x4	DRY	No.2		SPF
9 - 8	2x4	DRY	No.2		SPF
7 - 4	2x3	DRY	No.2		SPF
7 - 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+p	MT20	4.0	5.0	1.75 2.00
3	TTW+m	MT20	3.0	4.0	
4	TMV+p	MT20	2.0	4.0	
5	TMVW-t	MT20	3.0	4.0	
6	BMVW1-t	MT20	3.0	4.0	
7	BMV+p	MT20	2.0	4.0	
8	BVMWWWW*	MT20	8.0	8.0	Edge 1.50
9	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	IN-SX	IN-SX	IN-SX	IN-SX
6		190	0	190	0	0			
9		298	0	298	0	0	5-8	5-8	

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS		PERM.LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE								
6	133	93 / 0	0 / 0			0 / 0	0 / 0	40 / 0		0 / 0	
9	206	158 / 0	0 / 0			0 / 0	0 / 0	48 / 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 = 7.81 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED (LC1) (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 38	-77.3 -77.3	0.11 (1)	10.00	3-8	-54 / 0	0.01 (1)
2-3	-73 / 0	-77.3 -77.3	0.06 (1)	6.25	8-6	-2 / 0	0.00 (1)
3-4	-44 / 0	-77.3 -77.3	0.00 (1)	6.25	8-5	0 / 134	0.03 (1)
4-5	-44 / 0	-77.3 -77.3	0.02 (1)	6.25	2-8	0 / 59	0.01 (1)
6-5	-177 / 0	0.0	0.0 0.13 (1)	7.81			
9-2	-274 / 0	0.0	0.0 0.03 (1)	7.81			
9-8	0 / 0	-17.5	-17.5 0.04 (4)	10.00			
7-8	0 / 13	0.0	0.0 0.01 (1)	10.00			
8-4	-68 / 0	0.0	0.0 0.01 (1)	7.81			
7-6	0 / 0	-17.5	-17.5 0.01 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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=0.13 (5-6:1), BC=0.04 (8-9:4), WB=0.03 (5-8:1), SSI=0.06 (1-2:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.36 (5) (INPUT = 0.90)
JSI METAL= 0.05 (9) (INPUT = 1.00)



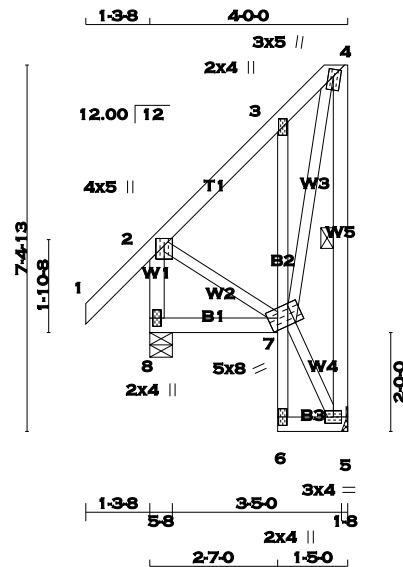
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SCALE = 1:46.5

TOTAL WEIGHT = 2 X 36 = 72 lb [M]

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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW+p	MT20	4.0	5.0	1.75	2.00
3	TMV+p	MT20	2.0	4.0		
4	TMVW+w	MT20	3.0	5.0	1.75	1.25
5	BMVW1-t	MT20	3.0	4.0		
6	BMV+p	MT20	2.0	4.0		
7	BVMWW-w	MT20	5.0	8.0	2.75	2.25
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 GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UP/LIFT	IN-SX	IN-SX	
5		190	0	190	0	0	HANGER BY OTHERS		
8		298	0	298	0	0	5-8	5-8	
MIN. SEAT SIZE: 1-8									
UNFACTORED REACTIONS									
JT	1ST LCASE	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
5		133	93 / 0	0 / 0	0 / 0	0 / 0	40 / 0	0 / 0	
8		206	158 / 0	0 / 0	0 / 0	0 / 0	48 / 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 = 7.81 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-5. DBS = 20-0-0 . CBF = 22 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)	LC1 MAX	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH		
FR-TO		FROM TO	CSI (LC)		FR-TO				
1-2	0 / 38	-77.3 -77.3	0.11 (1)	10.00	7-5	-3 / 0	0.00 (1)		
2-3	-63 / 0	-77.3 -77.3	0.06 (1)	6.25	7-4	0 / 199	0.04 (1)		
3-4	-84 / 0	-77.3 -77.3	0.05 (1)	6.25	2-7	0 / 59	0.01 (1)		
5-4	-175 / 0	0.0 0.0	0.05 (1)	6.25					
8-2	-274 / 0	0.0 0.0	0.03 (1)	7.81					
8-7	0 / 0	-17.5 -17.5	0.04 (4)	10.00					
6-7	0 / 13	0.0 0.0	0.01 (1)	10.00					
7-3	-190 / 0	0.0 0.0	0.02 (1)	7.81					
6-5	0 / 2	-17.5 -17.5	0.01 (4)	10.00					

LOADING TOTAL LOAD CASES: (4)

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.

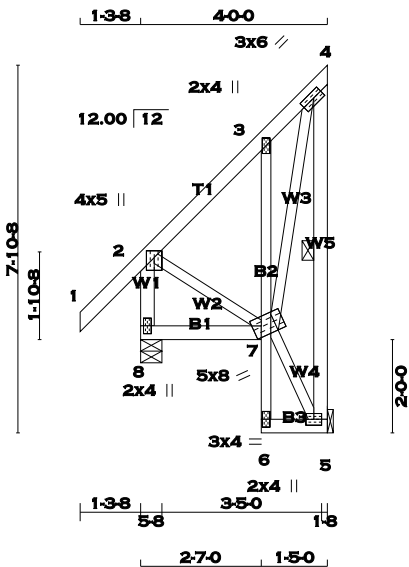
JSI GRIP= 0.29 (4) (INPUT = 0.90)
JSI METAL= 0.06 (4) (INPUT = 1.00)



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TOTAL WEIGHT = 4 X 36 = 146 lb [M]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
8 - 2	2x4	DRY	No.2	SPF
1 - 4	2x4	DRY	No.2	SPF
5 - 4	2x4	DRY	No.2	SPF
8 - 7	2x4	DRY	No.2	SPF
6 - 3	2x3	DRY	No.2	SPF
6 - 5	2x4	DRY	No.2	SPF
ALL WEBS 2x3 DRY: SEASONED LUMBER.				

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	X
2	TMVW+p	MT20	4.0	5.0	1.75 2.00
3	TMV+p	MT20	2.0	4.0	
4	TMVW-t	MT20	3.0	6.0	1.50 2.50
5	BMVW1-t	MT20	3.0	4.0	
6	BMV+p	MT20	2.0	4.0	
7	BVMWW-w	MT20	5.0	8.0	2.75 2.25
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	DOWN	HORZ	DOWN	HORZ	UPLIFT	IN-SX	BRG	IN-SX
8	298	0	298	0	0	5-8	5-8		
5	190	0	190	0	0	1-8	1-8		

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) 5

UNFACTORED REACTIONS							
JT	1ST LCASE	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
8	206	158 / 0	0 / 0	0 / 0	0 / 0	0 / 0	48 / 0
5	133	93 / 0	0 / 0	0 / 0	0 / 0	0 / 0	40 / 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 = 7.81 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-5. DBS = 20-0-0 . CBF = 22 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 CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
8-2	-274 / 0	0.0	0.0 0.03 (1)	2-7	0 / 59	0.01 (1)	
1-2	0 / 38	-77.3	-77.3 0.11 (1)	7-5	-3 / 0	0.00 (1)	
2-3	-63 / 0	-77.3	-77.3 0.06 (1)	7-4	0 / 199	0.04 (1)	
3-4	-84 / 0	-77.3	-77.3 0.05 (1)				
5-4	-175 / 0	0.0	0.0 0.05 (1)				
8-7	0 / 0	-17.5	-17.5 0.04 (4)				
6-7	0 / 13	0.0	0.0 0.01 (1)				
7-3	-190 / 0	0.0	0.0 0.02 (1)				
6-5	0 / 2	-17.5	-17.5 0.01 (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 (0.19")
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=0.11 (1-2:1) , BC=0.04 (7-8:4) , WB=0.04 (4-7:1) , SSI=0.06 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

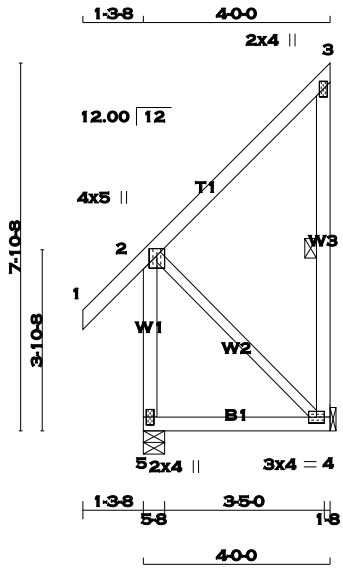
JSI GRIP= 0.23 (4) (INPUT = 0.90)
JSI METAL= 0.05 (3) (INPUT = 1.00)



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SCALE = 1:49.3

TOTAL WEIGHT = 4 X 30 = 118 lb [M]

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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW+p	MT20	4.0	5.0	1.75	2.00
3	TMV+p	MT20	2.0	4.0		
4	BMVW1-t	MT20	3.0	4.0		
5	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF 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	
		GROSS REACTION		GROSS REACTION		BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX
5		298	0	298	0	5-8	5-8
4		190	0	190	0	1-8	1-8

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

UNFACTORED REACTIONS							
		1ST LCASE	MAX./MIN. COMPONENT REACTIONS				
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
5		206	158 / 0	0 / 0	0 / 0	0 / 0	48 / 0
4		133	93 / 0	0 / 0	0 / 0	0 / 0	40 / 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.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 3-4. DBS = 20-0-0 . CBF = 19 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 LC1			FORCE (LBS)	MAX
			(PLF)				CSI (LC)
			FROM TO				UNBRAC
							LENGTH
							FR-TO
5-2		-263 / 0	0.0	0.0	0.07	7.81	2-4
1-2		0 / 38	-77.3	-77.3	0.11	10.00	
2-3		0 / 0	-77.3	-77.3	0.21	10.00	
4-3		-155 / 0	0.0	0.0	0.04	6.25	
5-4		0 / 0	-17.5	-17.5	0.08	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.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.21 (2-3:1) , BC=0.08 (4-5:4) , WB=0.00 (2-4:1) , SSI=0.09 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES					
PLATE	GRIP(DRY)	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.

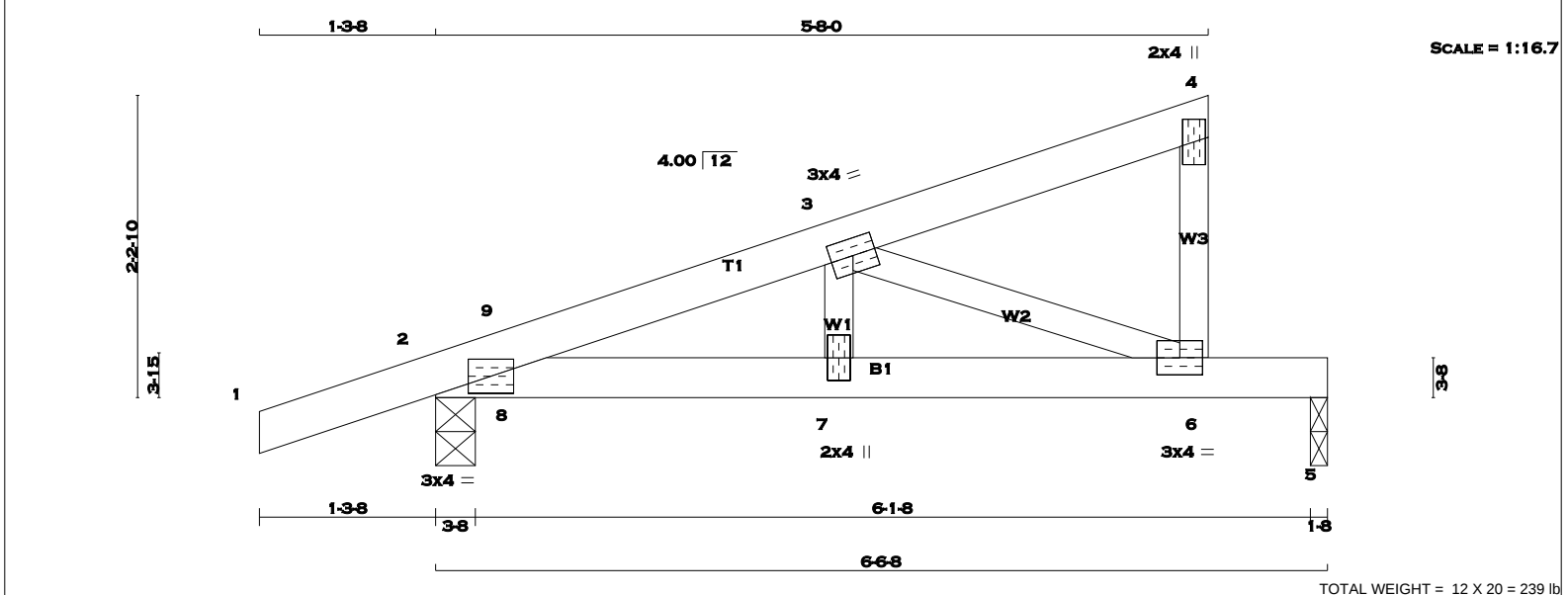
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JSI METAL= 0.05 (5) (INPUT = 1.00)



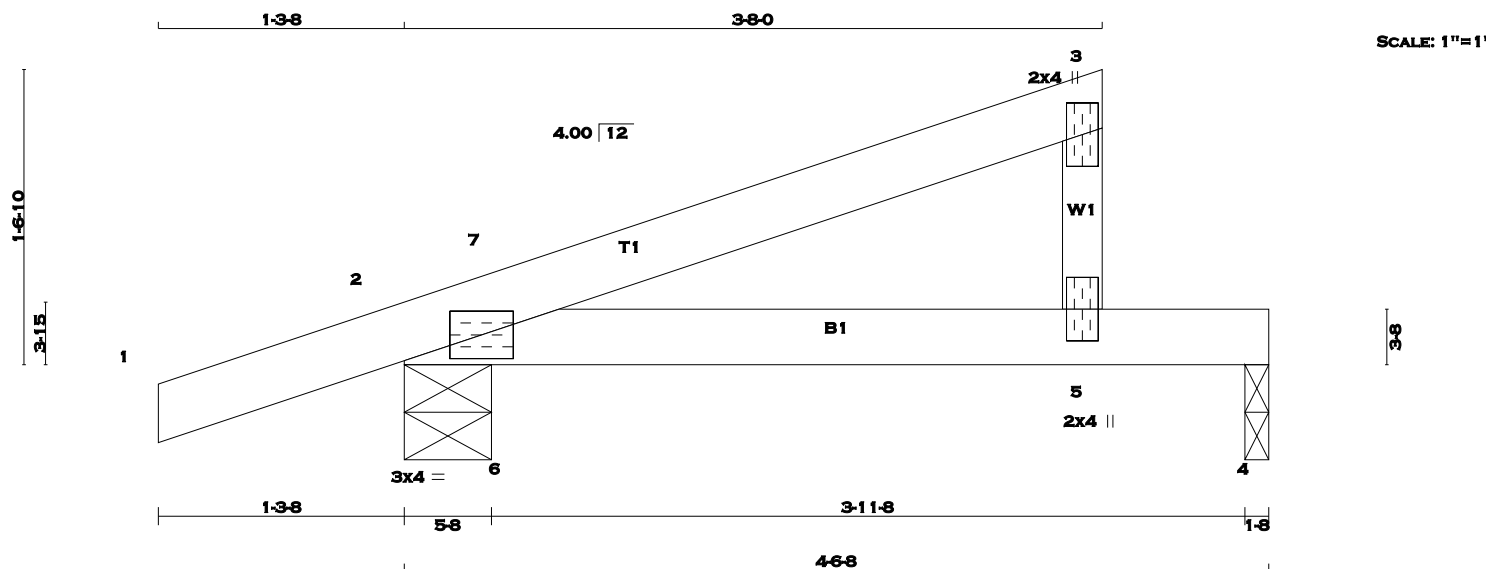
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LUMBER N. L. G. A. RULES CHORDS SIZE				
--	--	--	--	--



TOTAL WEIGHT = 12 X 12 = 144 lb

LUMBER

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQ'D BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
2	312	0	312	0	0	5-8	5-8
4	154	0	154	0	0	1-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	
2	217	164/0	0/0	0/0	0/0	53/0	0/0
4	110	69/0	0/0	0/0	0/0	41/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

C H O R D S					W E B S				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)		
FR-TO		FROM TO			FR-TO				
1-2	0 / 15	-77.3	-77.3	0.10 (1)	10.00				
2-7	-28.0 / 0	-77.3	-77.3	0.07 (1)	6.25	6-7	-46 / 43		
7-3	0 / 5	-77.3	-77.3	0.16 (1)	10.00				
5-3	-134 / 0	0.0	0.0	0.02 (1)	7.81		0.00 (1)		
2-6	0 / 0	-17.5	-17.5	0.08 (1)	10.00				
6-5	0 / 0	-17.5	-17.5	0.18 (1)	10.00				
5-4	0 / 0	-17.5	-17.5	0.17 (1)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 978 (0.06")

CSI: TC=0.16 (3-7:1), BC=0.18 (5-6:1), WB=0.00 (6-7:1), SSI=0.12 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES					
PLATE	GRIP(DRY)		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.

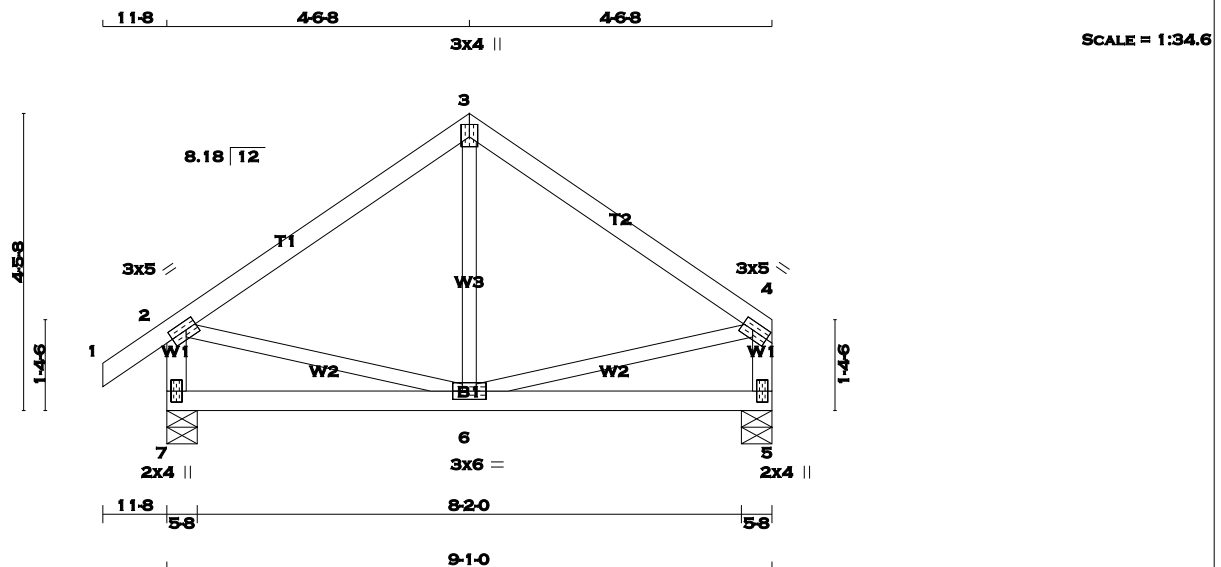
JSI GRIP= 0.15 (2) (INPUT = 0.90)
JSI METAL= 0.05 (2) (INPUT = 1.00)

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IN THE DESIGN OF THIS COMPONENT.**





TOTAL WEIGHT = 6 X 37 = 221 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	5.0	1.50	2.00
3	TTW+p	MT20	3.0	4.0	2.25	1.50
4	TMVW-t	MT20	3.0	5.0	1.50	2.00
5	BMV1+p	MT20	2.0	4.0		
6	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	GROSS REACTION	DOWN	HORZ	UPLIFT	BRG	IN-SX
7	511	0	511	0	0	5-8	5-8	5-8	5-8
5	431	0	431	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS		1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL		
7	357	260 / 0	0 / 0	0 / 0	0 / 0	97 / 0	0 / 0		
5	302	211 / 0	0 / 0	0 / 0	0 / 0	91 / 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		MEMB.		WEBS					
FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LC)	UNBRAC LENGTH	FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX (LC)	
1-2	0 / 23	-77.3	-77.3	0.06 (1)	10.00	6-3	-16 / 73	0.03 (4)	
2-3	-298 / 0	-77.3	-77.3	0.20 (1)	6.25	2-6	0 / 253	0.06 (1)	
3-4	-298 / 0	-77.3	-77.3	0.20 (1)	6.25	6-4	0 / 253	0.06 (1)	
7-2	-480 / 0	0.0	0.0	0.05 (1)	7.81				
5-4	-400 / 0	0.0	0.0	0.04 (1)	7.81				
7-6	0 / 0	-17.5	-17.5	0.10 (4)	10.00				
6-5	0 / 0	-17.5	-17.5	0.10 (4)	10.00				

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.30")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.30")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.20 (2-3:1), BC=0.10 (6-7:4), WB=0.06 (4-6:1), SSI=0.11 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

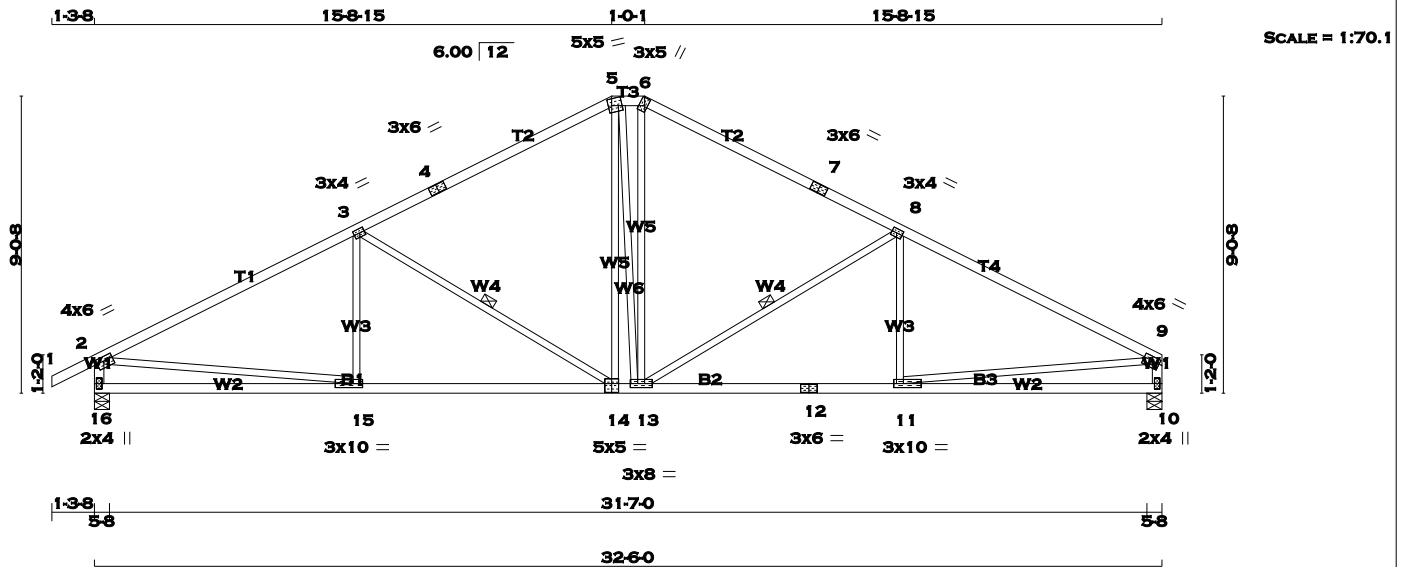
JSI GRIP= 0.46 (6) (INPUT = 0.90)
JSI METAL= 0.13 (4) (INPUT = 1.00)



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TOTAL WEIGHT = 137 lb
[M][F]

LUMBER				N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.	CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF			
4 - 5	2x4	DRY	No.2	SPF			
5 - 6	2x4	DRY	No.2	SPF			
6 - 7	2x4	DRY	No.2	SPF			
7 - 9	2x4	DRY	No.2	SPF			
16 - 2	2x4	DRY	No.2	SPF			
10 - 9	2x4	DRY	No.2	SPF			
16 - 14	2x4	DRY	No.2	SPF			
14 - 12	2x4	DRY	No.2	SPF			
12 - 10	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	6.0	1.50	2.75
3	TMWW-t	MT20	3.0	4.0	1.50	1.75
4	TS-t	MT20	3.0	6.0		
5	TTWW-m	MT20	5.0	5.0	2.50	1.25
6	TTW+h	MT20	3.0	5.0	2.75	1.00
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	1.50	2.75
10	BMV1+p	MT20	2.0	4.0		
11	BMWW-t	MT20	3.0	10.0	1.50	3.50
12	BS-t	MT20	3.0	6.0		
13	BMWWW-t	MT20	3.0	8.0		
14	BSWW-I	MT20	5.0	5.0	3.25	2.50
15	BMWW-t	MT20	3.0	10.0	1.50	3.50
16	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS				FACTORED				MAXIMUM FACTORED				INPUT				REQRD			
JT	VERT	HORZ	UPLIFT	GROSS	REACT	DOWN	HORZ	GROSS	REACT	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX	BRG	IN-SX	BRG	IN-SX
16	1646	0	0	1646	0	1646	0	1646	0	1646	0	5-8	5-8	5-8	5-8	5-8	5-8	5-8	5-8
10	1541	0	0	1541	0	1541	0	1541	0	1541	0	5-8	5-8	5-8	5-8	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
16	1153	820 / 0	0 / 0	0 / 0	0 / 0	333 / 0	0 / 0
10	1082	757 / 0	0 / 0	0 / 0	0 / 0	325 / 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 = 3.56 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 3-14, 8-13. DBS = 20-0-0. CBF = 91 LBS.

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

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

LOADING				TOTAL LOAD CASES: (4)			
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	15-3	-64 / 114	0.04 (4)
2-3	-2266 / 0	-77.3 -77.3	0.86 (1)	3-56	3-14	-729 / 0	0.44 (1)
3-4	-1641 / 0	-77.3 -77.3	0.74 (1)	4-21	14-5	0 / 418	0.09 (1)
4-5	-1641 / 0	-77.3 -77.3	0.74 (1)	4-21	5-13	0 / 38	0.01 (1)
5-6	-1441 / 0	-77.3 -77.3	0.03 (1)	5-43	13-6	0 / 455	0.10 (1)
6-7	-1640 / 0	-77.3 -77.3	0.74 (1)	4-21	13-8	-726 / 0	0.44 (1)
7-8	-1640 / 0	-77.3 -77.3	0.74 (1)	4-21	11-8	-69 / 112	0.04 (4)
8-9	-2264 / 0	-77.3 -77.3	0.86 (1)	3-56	2-15	0 / 2067	0.47 (1)
16-2	-1589 / 0	0.0 0.0	0.16 (1)	6-55	11-9	0 / 2066	0.46 (1)
10-9	-1483 / 0	0.0 0.0	0.15 (1)	6-73			
16-15	0 / 0	-17.5 -17.5	0.27 (4)	10-00			
15-14	0 / 2056	-17.5 -17.5	0.47 (1)	10-00			
14-13	0 / 1438	-17.5 -17.5	0.35 (1)	10-00			
13-12	0 / 2054	-17.5 -17.5	0.46 (1)	10-00			
12-11	0 / 2054	-17.5 -17.5	0.46 (1)	10-00			
11-10	0 / 0	-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 (1.08")
CALCULATED VERT. DEFL.(LL) = L/999 (0.12")
ALLOWABLE DEFL.(TL)= L/360 (1.08")
CALCULATED VERT. DEFL.(TL) = L/999 (0.24")

CSI: TC=0.86 (2-3:1), BC=0.47 (14-15:1), WB=0.47 (2-15:1), SSI=0.27 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

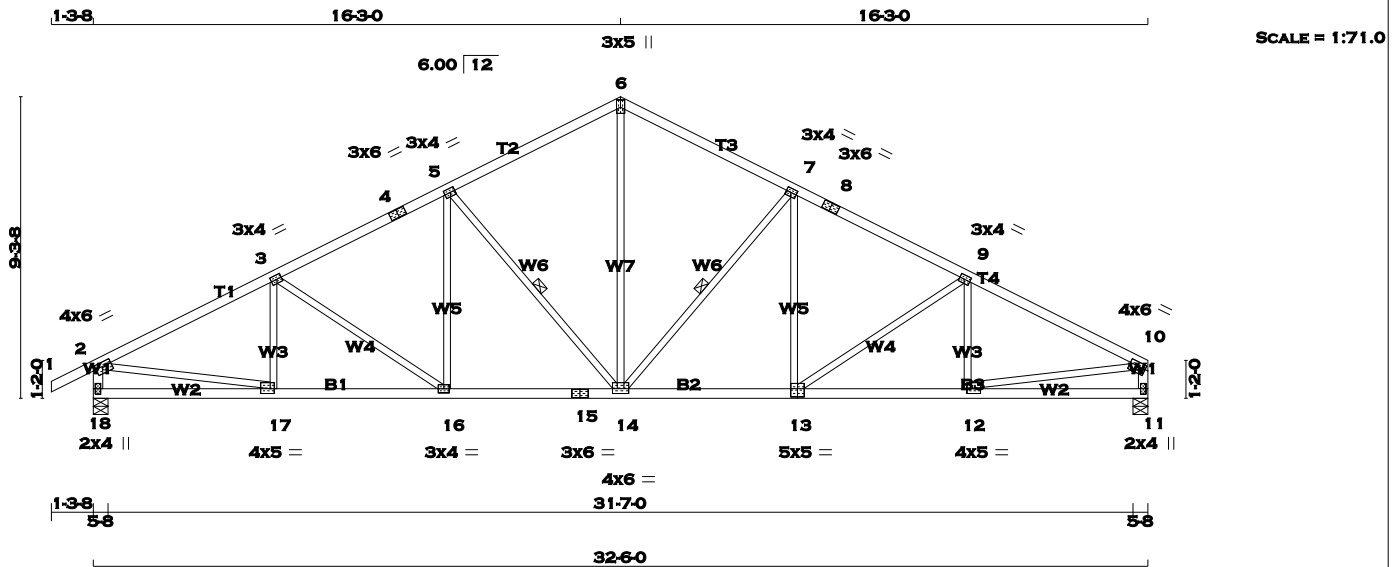
JSI GRIP= 0.89 (14) (INPUT = 0.90)
JSI METAL= 0.61 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 15 X 136 = 2039 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
18 - 2	2x4	DRY	No.2
11 - 10	2x4	DRY	No.2
18 - 15	2x4	DRY	No.2
15 - 13	2x4	DRY	No.2
13 - 11	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	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	1.50 2.75
11	BMV1+p	MT20	2.0	4.0	
12	BMVW-t	MT20	4.0	5.0	1.75 1.50
13	BSVW-t	MT20	5.0	5.0	3.00 2.50
14	BMVW-t	MT20	4.0	6.0	1.75 3.00
15	BS-t	MT20	3.0	6.0	
16	BMVW-t	MT20	3.0	4.0	
17	BMVW-t	MT20	4.0	5.0	1.75 1.50
18	BMV1+p	MT20	2.0	4.0	

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

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
18		1646	0	1646	0	0	5-8	5-8	
11		1541	0	1541	0	0	5-8	5-8	

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
18	1153	820 / 0	0 / 0	0 / 0	0 / 0	333 / 0	0 / 0
11	1082	757 / 0	0 / 0	0 / 0	0 / 0	325 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 18, 11

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-14, 5-14. DBS = 20-0-0 . CBF = 79 LBS.

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

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

LOADING									
TOTAL LOAD CASES: (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. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO			FR-TO			FR-TO	
1- 2	0 / 23	-77.3	-77.3	0.10 (1)	10.00	14- 6	0 / 1064	0.24 (1)	
2- 3	-2242 / 0	-77.3	-77.3	0.37 (1)	4.25	14- 7	-633 / 0	0.29 (1)	
3- 4	-2022 / 0	-77.3	-77.3	0.30 (1)	4.50	13- 7	0 / 235	0.05 (1)	
4- 5	-2022 / 0	-77.3	-77.3	0.30 (1)	4.50	13- 9	-257 / 0	0.19 (1)	
5- 6	-1582 / 0	-77.3	-77.3	0.29 (1)	4.96	12- 9	-210 / 28	0.05 (1)	
6- 7	-1582 / 0	-77.3	-77.3	0.29 (1)	4.96	5-14	-633 / 0	0.29 (1)	
7- 8	-2022 / 0	-77.3	-77.3	0.30 (1)	4.50	16- 5	0 / 235	0.05 (1)	
8- 9	-2022 / 0	-77.3	-77.3	0.30 (1)	4.50	3-16	-257 / 0	0.19 (1)	
9-10	-2242 / 0	-77.3	-77.3	0.37 (1)	4.25	17- 3	-210 / 28	0.05 (1)	
18- 2	-1604 / 0	0.0	0.0	0.16 (1)	6.52	2-17	0 / 2044	0.46 (1)	
11-10	-1499 / 0	0.0	0.0	0.15 (1)	6.70	12-10	0 / 2044	0.46 (1)	
18-17	0 / 0	-17.5	-17.5	0.12 (4)	10.00				
17-16	0 / 2021	-17.5	-17.5	0.37 (1)	10.00				
16-15	0 / 1808	-17.5	-17.5	0.35 (1)	10.00				
15-14	0 / 1808	-17.5	-17.5	0.35 (1)	10.00				
14-13	0 / 1808	-17.5	-17.5	0.35 (1)	10.00				
13-12	0 / 2021	-17.5	-17.5	0.37 (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
- TPIC 2011

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

ALLOWABLE DEFL.(LL)= L/360 (1.08")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.11")
ALLOWABLE DEFL.(TL)= L/360 (1.08")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.20")

CSI: TC=0.37 (9-10:1) , BC=0.37 (12-13:1) , WB=0.46 (10-12:1) , 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.

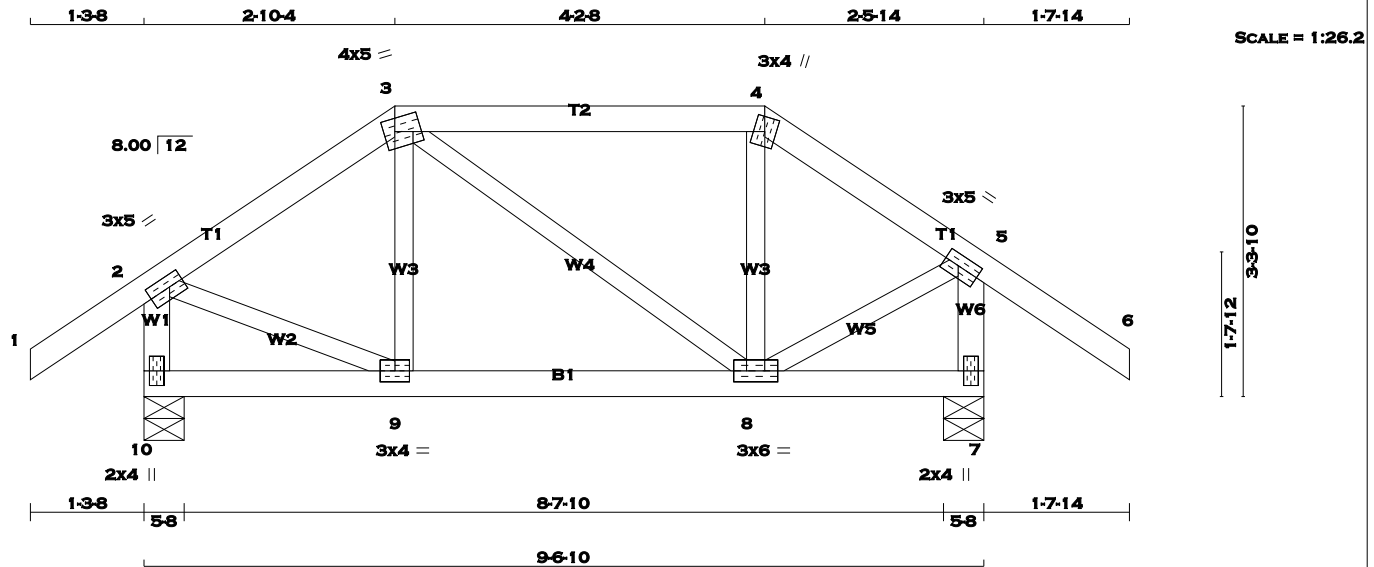
JSI GRIP= 0.88 (12) (INPUT = 0.90)
JSI METAL= 0.61 (17) (INPUT = 1.00)



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TOTAL WEIGHT = 2 X 42 = 85 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
4 - 6	2x4	DRY	No.2		SPF
10 - 2	2x4	DRY	No.2		SPF
7 - 5	2x4	DRY	No.2		SPF
10 - 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	TTWW-m	MT20	4.0	5.0	1.75	1.50
4	TTWW-m	MT20	3.0	4.0		
5	TMVW-t	MT20	3.0	5.0	1.50	2.00
7	BMV1+p	MT20	2.0	4.0		
8	BMVWW-t	MT20	3.0	6.0		
9	BMVWW-t	MT20	3.0	4.0		
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		MAXIMUM FACTORED		INPUT		REQRD	
JT	GROSS REACTION	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	BRG	IN-SX
10	559	0	559	0	0	5-8	5-8	5-8	5-8
7	587	0	587	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS							
JT	1ST LCASE	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
10	390	286	0	0/0	0/0	0/0	104/0
7	409	303	0	0/0	0/0	0/0	106/0

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.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 (LC)	UNBRAC LENGTH
FR-TO		FROM	TO	FR-TO		FROM	TO
1-2	0/29	-77.3	-77.3 0.10 (1)	10.00	9-3	-46/41	0.01 (4)
2-3	-375/0	-77.3	-77.3 0.08 (1)	6.25	3-8	-30/0	0.01 (1)
3-4	-286/0	-77.3	-77.3 0.18 (1)	6.25	8-4	-65/32	0.01 (1)
4-5	-347/0	-77.3	-77.3 0.06 (1)	6.25	2-9	0/332	0.07 (1)
5-6	0/37	-77.3	-77.3 0.16 (1)	10.00	8-5	0/323	0.07 (1)
10-2	-540/0	0.0	0.0 0.06 (1)	7.81			
7-5	-571/0	0.0	0.0 0.06 (1)	7.81			
10-9	0/0	-17.5	-17.5 0.05 (4)	10.00			
9-8	0/310	-17.5	-17.5 0.07 (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/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 (0.32")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.32")
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.18 (3-4:1), BC=0.07 (8-9:1), WB=0.07 (2-9:1), 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) (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 (8) (INPUT = 0.90)
JSI METAL= 0.15 (2) (INPUT = 1.00)



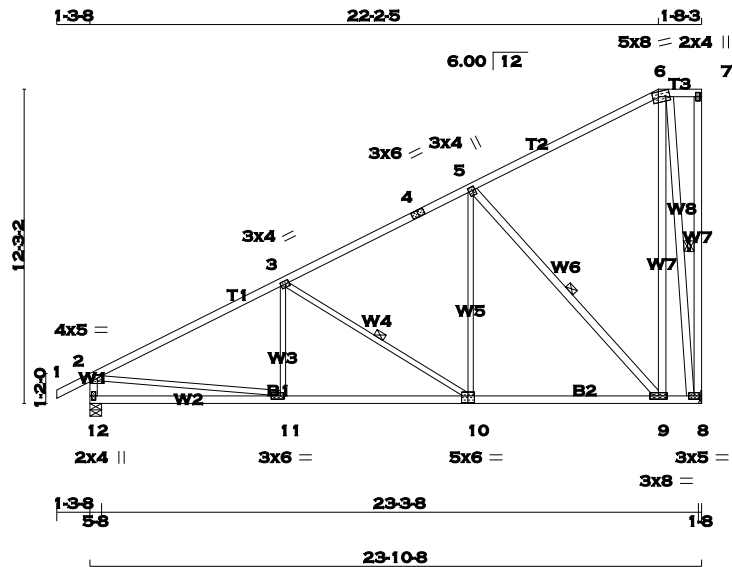
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TOTAL WEIGHT = 2 X 135 = 270 lb
[M][F]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 7	2x4	DRY	No.2	SPF
8 - 7	2x4	DRY	No.2	SPF
12 - 2	2x4	DRY	No.2	SPF
12 - 10	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
5 - 9	2x4	DRY	No.2	SPF
9 - 6	2x4	DRY	No.2	SPF
6 - 8	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-p	MT20	4.0	5.0	1.50	2.25
3	TMWW-t	MT20	3.0	4.0	1.50	1.75
4	TS-t	MT20	3.0	6.0		
5	TMWW+t	MT20	3.0	4.0	1.75	0.75
6	TTWW-m	MT20	5.0	8.0	2.25	2.75
7	TMV+p	MT20	2.0	4.0		
8	BMVW1-t	MT20	3.0	5.0		
9	BMWW-t	MT20	3.0	8.0		
10	BSWW-l	MT20	5.0	6.0	3.25	3.00
11	BMWW-t	MT20	3.0	6.0	1.50	1.75
12	BMV1+p	MT20	2.0	4.0		

A SIZE FOR SIZE SUBSTITUTION OF 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	
8	1132	0		1132	0	0	HANGER BY OTHERS		
12	1237	0		1237	0	0	MIN. SEAT SIZE: 1-8	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS		PERM.LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE								
8	795	556 / 0	0 / 0	0 / 0	0 / 0	0 / 0	239 / 0	0 / 0	0 / 0	0 / 0	0 / 0
12	866	619 / 0	0 / 0	0 / 0	0 / 0	0 / 0	247 / 0	0 / 0	0 / 0	0 / 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 = 4.61 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-8, 3-10. DBS = 20-0-0 . CBF = 81 LBS.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-9. DBS = 14-0-0 . CBF = 89 LBS.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 6-8. DBS = 12-0-0 . CBF = 82 LBS.

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

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

LOADING

TOTAL LOAD CASES: (4)

C H O R D S					W E B S				
MEMB.		MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)		LC1 MAX (CSI (LC))	MAX. UNBRAC	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	11-3	-15 / 117	0.04 (4)
2-3	-1508 / 0		-77.3	-77.3	0.61 (1)	4.61	3-10	-645 / 0	0.33 (1)
3-4	-924 / 0		-77.3	-77.3	0.47 (1)	5.79	10-5	0 / 480	0.11 (1)
4-5	-924 / 0		-77.3	-77.3	0.47 (1)	5.79	5-9	-1023 / 0	0.70 (1)
5-6	-183 / 0		-77.3	-77.3	0.49 (1)	6.25	9-6	0 / 855	0.14 (1)
6-7	0 / 0		-77.3	-77.3	0.04 (1)	10.00	6-8	-1087 / 0	0.92 (1)
8-7	-65 / 0		0.0	0.0	0.05 (1)	6.25	2-11	0 / 1380	0.31 (1)
12-2	-1183 / 0		0.0	0.0	0.12 (1)	7.34			
12-11	0 / 0		-17.5	-17.5	0.23 (4)	10.00			
11-10	0 / 1371		-17.5	-17.5	0.34 (1)	10.00			
10-9	0 / 826		-17.5	-17.5	0.25 (1)	10.00			
9-8	0 / 152		-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 (0.14")

CSI: TC=0.61 (2-3:1) , BC=0.34 (10-11:1) , WB=0.92 (6-8:1) , 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= 0.90 (11) (INPUT = 0.90)
JSI METAL= 0.40 (2) (INPUT = 1.00)



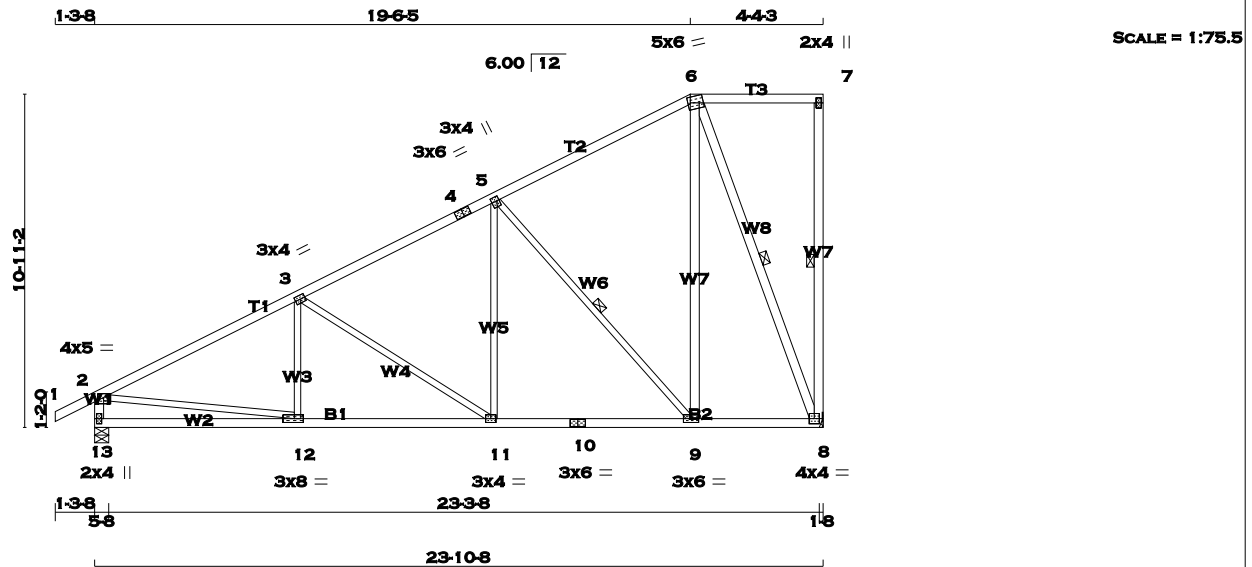
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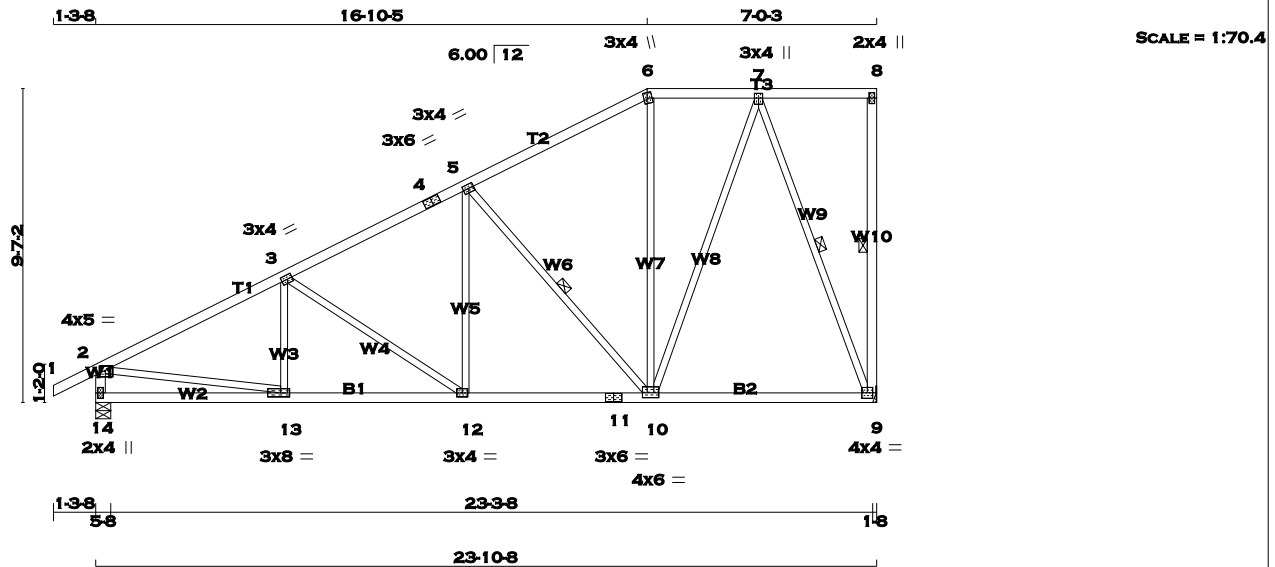
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17-5253

BUILDING DIVISION

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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	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	TS-t	MT20	3.0	6.0		
5	TMVW-t	MT20	3.0	4.0	1.50	1.75
6	TTW+m	MT20	3.0	4.0	2.00	1.25
7	TMVW+t	MT20	3.0	4.0	1.75	1.50
8	TMV+p	MT20	2.0	4.0		
9	BMVW1-t	MT20	4.0	4.0		
10	BMVWV-t	MT20	4.0	6.0	1.75	3.00
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	3.25
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
9	1132	0	1132	0	0	HANGER BY OTHERS	
14	1237	0	1237	0	0	MIN. SEAT SIZE: 1-8	

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN.	LIVE	PERM.	LIVE	WIND	DEAD
9	795	556 / 0	0 / 0	0 / 0	0 / 0	0 / 0	239 / 0
14	866	619 / 0	0 / 0	0 / 0	0 / 0	0 / 0	247 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.95 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 8-9, 5-10. DBS = 20-0-0 . CBF = 90 LBS.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-9. DBS = 14-0-0 . 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

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	-99 / 65	0.02 (1)	
2-3	-1546 / 0	-77.3 -77.3	0.34 (1)	4.95	-390 / 0	0.32 (1)	
3-4	-1202 / 0	-77.3 -77.3	0.27 (1)	5.53	12-5	0 / 305	0.07 (1)
4-5	-1202 / 0	-77.3 -77.3	0.27 (1)	5.53	5-10	-717 / 0	0.36 (1)
5-6	-696 / 0	-77.3 -77.3	0.28 (1)	6.25	10-6	0 / 63	0.02 (4)
6-7	-605 / 0	-77.3 -77.3	0.12 (1)	6.25	10-7	0 / 679	0.15 (1)
7-8	0 / 0	-77.3 -77.3	0.16 (1)	10.00	7-9	-1046 / 0	0.75 (1)
9-8	-108 / 0	0.0 0.0	0.05 (1)	6.25	2-13	0 / 1414	0.32 (1)
14-2	-1195 / 0	0.0 0.0	0.12 (1)	7.31			
14-13	0 / 0	-17.5 -17.5	0.13 (4)	10.00			
13-12	0 / 1399	-17.5 -17.5	0.29 (1)	10.00			
12-11	0 / 1075	-17.5 -17.5	0.28 (1)	10.00			
11-10	0 / 1075	-17.5 -17.5	0.28 (1)	10.00			
10-9	0 / 379	-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

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 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.80")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.10")

CSI: TC=0.34 (2-3:1) , BC=0.29 (12-13:1) , WB=0.75 (7-9:1) , 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)
MT20	618	354	1667	822	2284

PLATE PLACEMENT TOL. = 0.250 inches

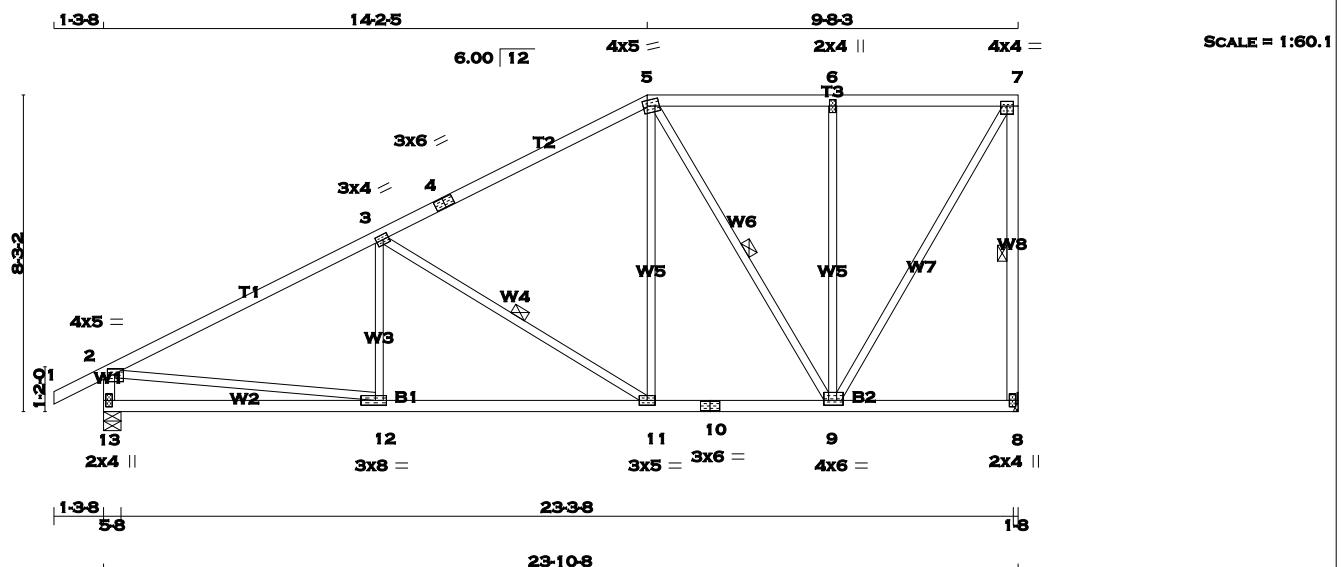
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (13) (INPUT = 0.90)
JSI METAL= 0.40 (2) (INPUT = 1.00)

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IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 2 X 110 = 221 lb

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

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER			AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER		
<u>BEARINGS</u>			<u>BEARINGS</u>		
JT	FACTORED GROSS REACTION	VERT HORZ	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
			DOWN HORZ	UPLIFT IN-SX	IN-SX
8	1132	0	1132	0	0
					HANGER BY OTHERS MIN. SEAT SIZE: 1-8
13	1237	0	1237	0	0
				5-8	5-8

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
8	795	556 / 0	0 / 0	0 / 0	0 / 0	239 / 0	0 / 0
13	866	619 / 0	0 / 0	0 / 0	0 / 0	247 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.59 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY
APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 7-8. DBS = 12-0-0 . CBF = 82 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/ 2 LENGTH OF 3-11, 5-9. DBS = 20-0-0 . 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

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	12-3	-25 / 113	0.04 (4)	
2-3	-1538 / 0	-77.3	-77.3	0.59 (1)	4.59	3-11	-689 / 0	0.33 (1)	
3-4	-946 / 0	-77.3	-77.3	0.53 (1)	5.61	11-5	0 / 469	0.11 (1)	
4-5	-946 / 0	-77.3	-77.3	0.53 (1)	5.61	5-9	-473 / 0	0.28 (1)	
5-6	-579 / 0	-77.3	-77.3	0.23 (1)	6.25	9-6	-463 / 0	0.62 (1)	
6-7	-579 / 0	-77.3	-77.3	0.23 (1)	6.25	9-7	0 / 1116	0.25 (1)	
8-7	-1096 / 0	0.0	0.0	0.34 (1)	6.04	2-12	0 / 1412	0.32 (1)	
13-2	-1186 / 0	0.0	0.0	0.12 (1)	7.33				
13-12	0 / 0	-17.5	-17.5	0.22 (4)	10.00				
12-11	0 / 1402	-17.5	-17.5	0.34 (1)	10.00				
11-10	0 / 825	-17.5	-17.5	0.20 (1)	10.00				
10-9	0 / 825	-17.5	-17.5	0.20 (1)	10.00				
9-8	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 (0.80")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.80")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.12")

CSI: TC=0.59 (2-3:1) , BC=0.34 (11-12:1) ,
WB=0.62 (6-9:1) . SSI=0.24 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (7) (INPUT = 0.90)
JSI METAL= 0.40 (2) (INPUT = 1.00)

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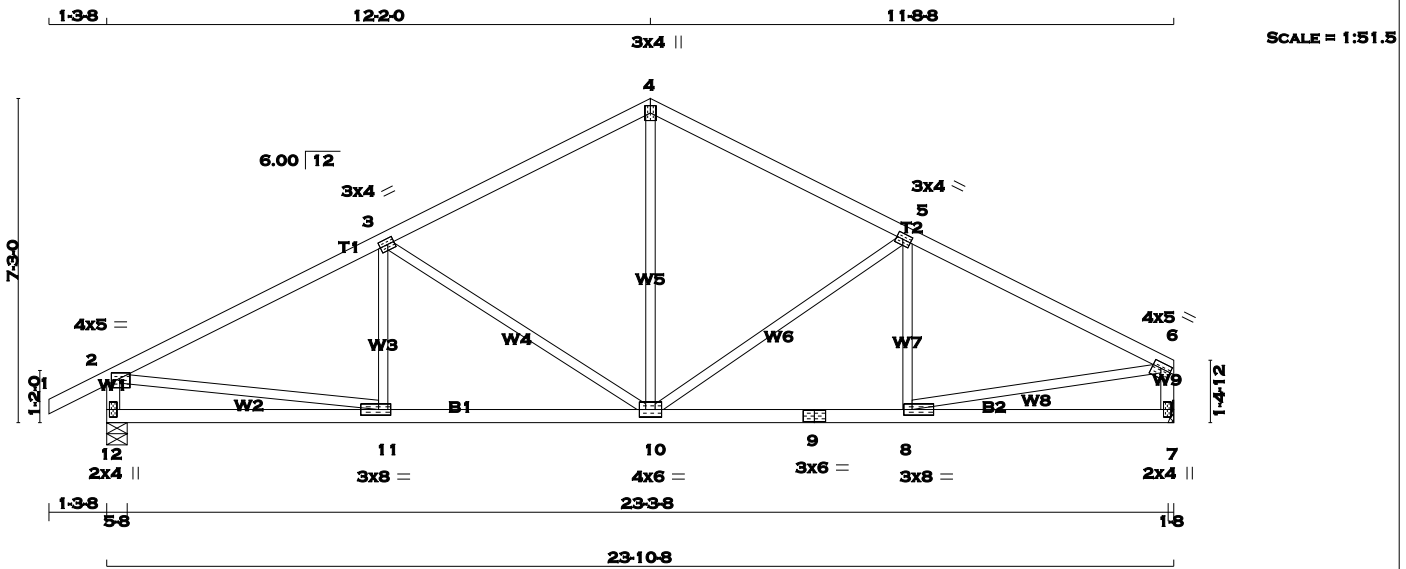
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LUMBER					N. L. G. A. RULES				
CHORDS	SIZE		LUMBER	DESCR.					
1 - 4	2x4	DRY	No.2	SPF					
4 - 6	2x4	DRY	No.2	SPF					
12 - 2	2x4	DRY	No.2	SPF					
7 - 6	2x4	DRY	No.2	SPF					
12 - 9	2x4	DRY	No.2	SPF					
9 - 7	2x4	DRY	No.2	SPF					
ALL WEBS	2x3	DRY	No.2	SPF					
EXCEPT									
DRY: SEASONED LUMBER.									

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMWW-p	MT20	4.0	5.0	1.50	2.25
3	TMWW-t	MT20	3.0	4.0	1.50	1.75
4	TTW+p	MT20	3.0	4.0		
5	TMWW-t	MT20	3.0	4.0	1.50	1.75
6	TMWW-t	MT20	4.0	5.0	1.50	2.25
7	BMV1+p	MT20	2.0	4.0		
8	BMWW-t	MT20	3.0	8.0	1.50	2.25
9	BS-t	MT20	3.0	6.0		
10	BMWW-t	MT20	4.0	6.0		
11	BMWW-t	MT20	3.0	8.0	1.50	3.25
12	BMV1+p	MT20	2.0	4.0		

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

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	COMBINED	GROSS REACTION		GROSS REACTION		BRG		BRG	
12	1237	0		1237	0	0		5-8	5-8
7	1132	0		1132	0	0		HANGER BY OTHERS	
MIN. SEAT SIZE: 1-8									

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN.	COMPONENT	REACTIONS			
12	866	619 / 0	0 / 0	PERM.LIVE	WIND	DEAD	SOIL
7	795	556 / 0	0 / 0	0 / 0	0 / 0	247 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.83 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING					WEBS				
TOTAL LOAD CASES: (4)									
MEMB.	CHORDS	MAX. FACTORED	FACTORED		MEMB.	MAX. FACTORED	FACTORED		
FR-TO		FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX. (LC)	UNBRACED LENGTH	FR-TO	FORCE (LBS)	MAX. (LC)	
1-2	0 / 23	-77.3	-77.3	0.10 (1)	10.00	11-3	-80 / 78	0.03 (4)	
2-3	-1555 / 0	-77.3	-77.3	0.42 (1)	4.83	3-10	-519 / 0	0.51 (1)	
3-4	-1121 / 0	-77.3	-77.3	0.38 (1)	5.51	10-4	0 / 638	0.14 (1)	
4-5	-1120 / 0	-77.3	-77.3	0.36 (1)	5.56	10-5	-434 / 0	0.41 (1)	
5-6	-1468 / 0	-77.3	-77.3	0.38 (1)	4.99	8-5	-133 / 58	0.04 (1)	
12-2	-1191 / 0	0.0	0.0	0.12 (1)	7.32	2-11	0 / 1426	0.32 (1)	
7-6	-1088 / 0	0.0	0.0	0.11 (1)	7.58	8-6	0 / 1357	0.31 (1)	
12-11	0 / 0	-17.5	-17.5	0.15 (4)	10.00				
11-10	0 / 1413	-17.5	-17.5	0.30 (1)	10.00				
10-9	0 / 1334	-17.5	-17.5	0.28 (1)	10.00				
9-8	0 / 1334	-17.5	-17.5	0.28 (1)	10.00				
8-7	0 / 0	-17.5	-17.5	0.14 (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 (0.80")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.80")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11")

CSI: TC=0.42 (2-3:1) , BC=0.30 (10-11:1) , WB=0.51 (3-10:1) , SS=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= 0.89 (8) (INPUT = 0.90)
JSI METAL= 0.47 (6) (INPUT = 1.00)

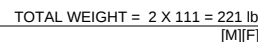


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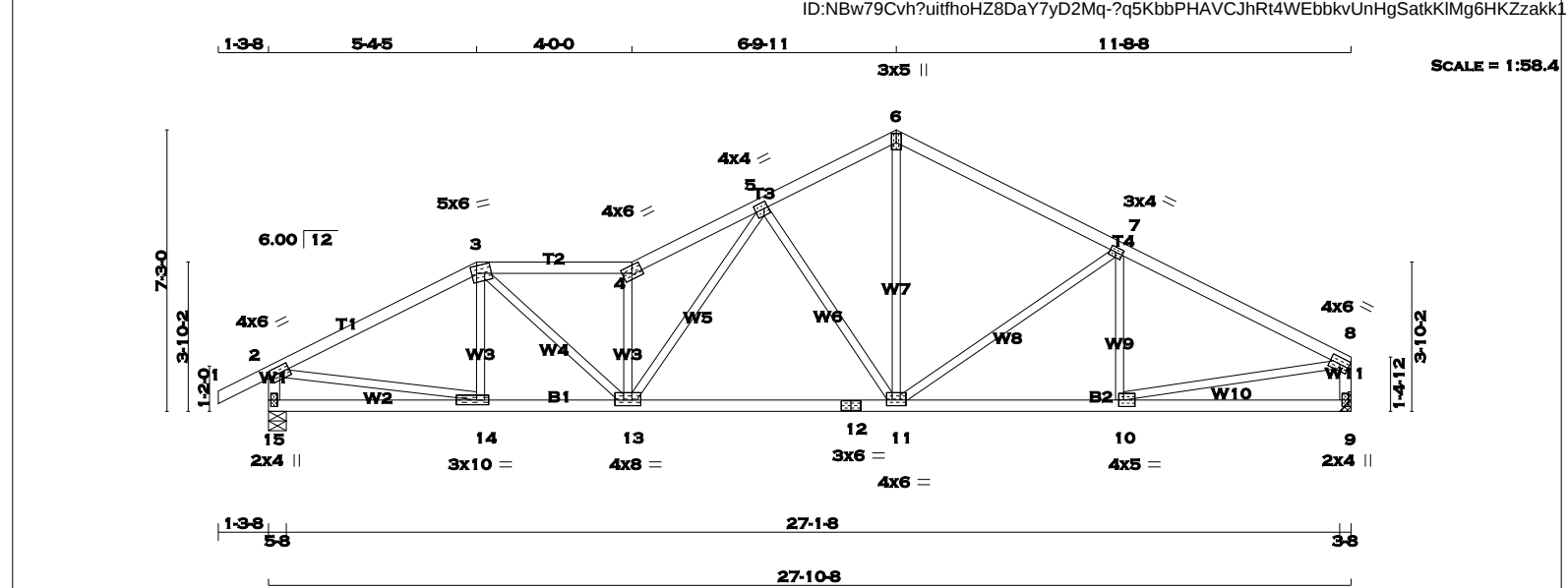
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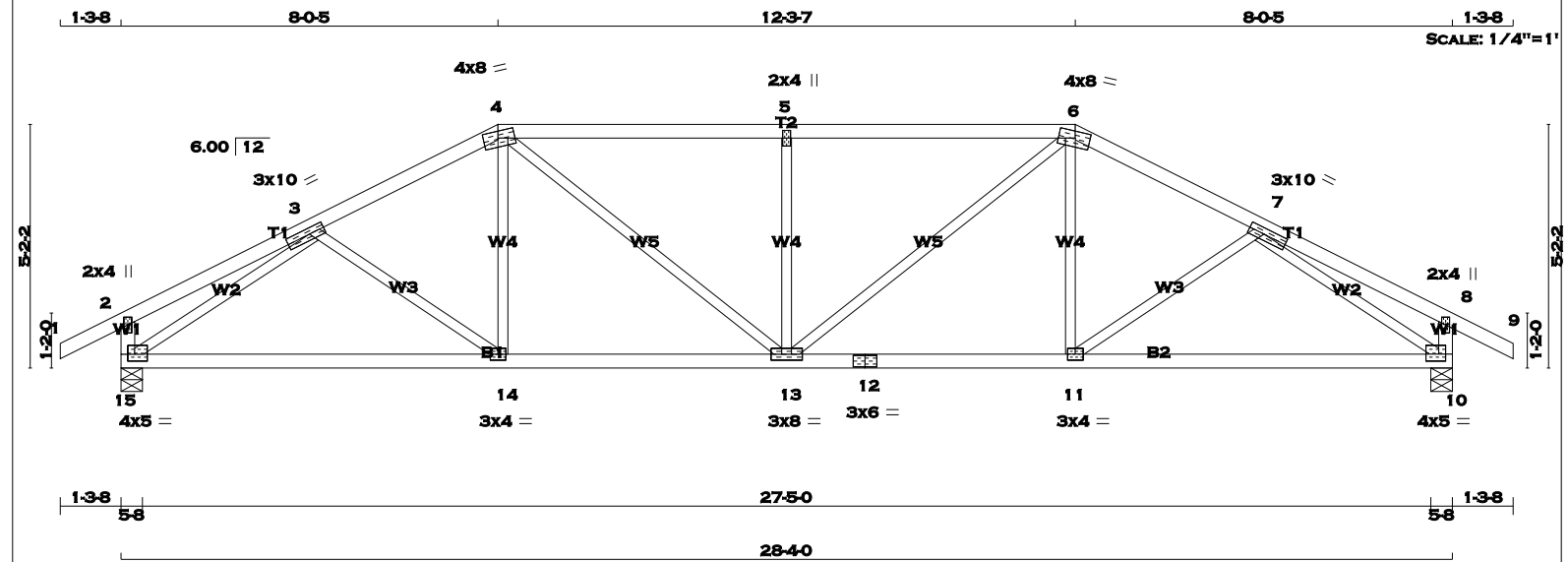


JSI GRIP= 0.89 (10) (INPUT = 0.90)
JSI METAL= 0.49 (12) (INPUT = 1.00)

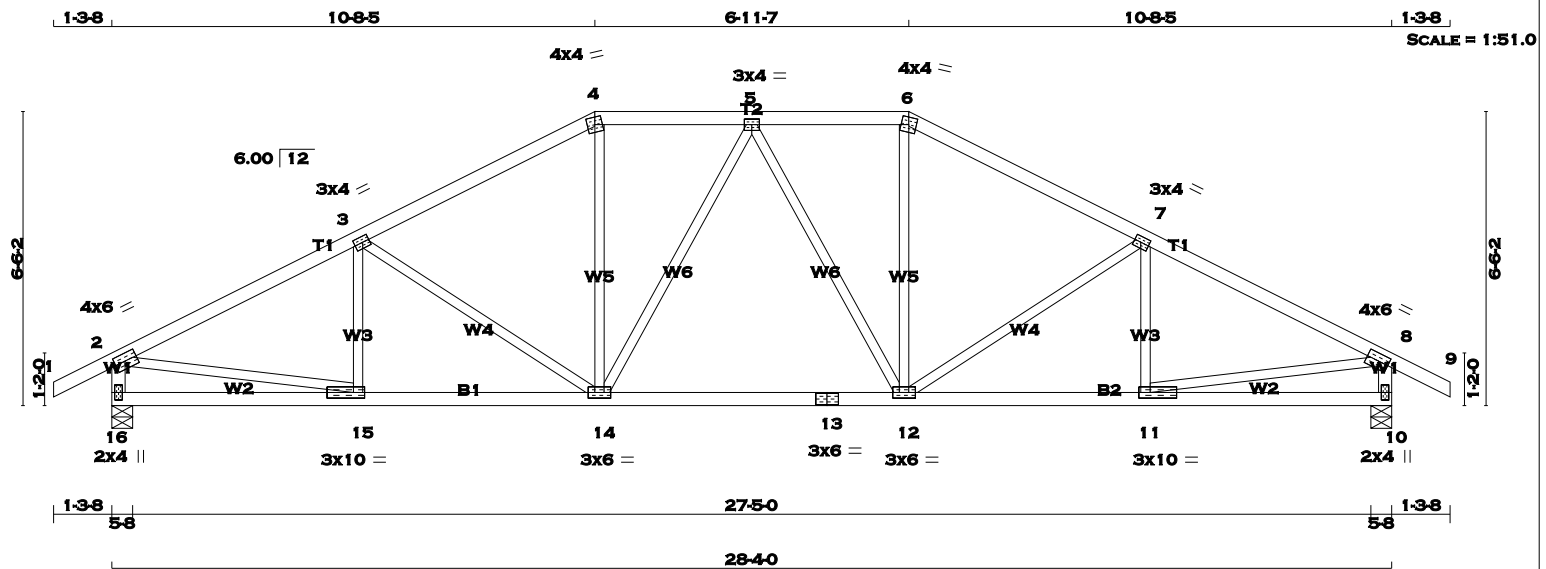




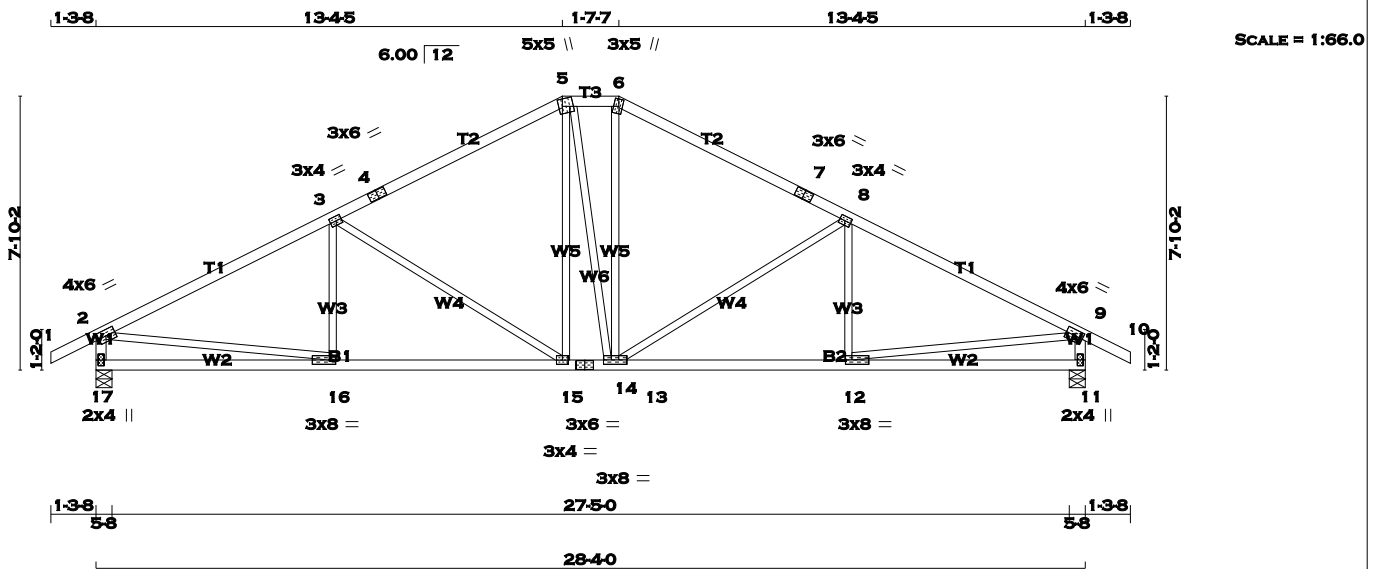
TOTAL WEIGHT = 2 X 112 = 225 lb										[M][F]																			
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. 1 - 3 2x4 DRY No.2 SPF 3 - 4 2x4 DRY No.2 SPF 4 - 6 2x4 DRY No.2 SPF 6 - 8 2x4 DRY No.2 SPF 15 - 2 2x4 DRY No.2 SPF 9 - 8 2x4 DRY No.2 SPF 15 - 12 2x4 DRY No.2 SPF 12 - 9 2x4 DRY No.2 SPF ALL WEBS 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 15 1427 0 1427 0 0 5-8 5-8 9 1322 0 1322 0 0 HANGER BY OTHERS MIN. SEAT SIZE: 3-8 UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 15 999 712 / 0 0 / 0 0 / 0 0 / 0 287 / 0 0 / 0 9 928 649 / 0 0 / 0 0 / 0 0 / 0 279 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 15 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.14 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. LOADING TOTAL LOAD CASES: (4) CHORDS WEBS MAX. FACTORED FACTORED MAX. FACTORED MEMB. FORCE VERT. LOAD LC1 MAX. MAX. MEMB. FORCE MAX. (LBS) (PLF) CSI (LC) UNBRAC (LBS) CSI (LC) FR-TO FROM TO LENGTH FR-TO 1-2 0 / 23 -77.3 -77.3 0.10 (1) 10.00 14-3 -165 / 21 0.04 (1) 2-3 -1823 / 0 -77.3 -77.3 0.34 (1) 4.63 3-13 0 / 922 0.21 (1) 3-4 -2306 / 0 -77.3 -77.3 0.22 (1) 4.33 13-4 -1423 / 0 0.33 (1) 4-5 -2608 / 0 -77.3 -77.3 0.19 (1) 4.14 13-5 0 / 1065 0.24 (1) 5-6 -1472 / 0 -77.3 -77.3 0.14 (1) 5.27 5-11 -829 / 0 0.57 (1) 6-7 -1482 / 0 -77.3 -77.3 0.37 (1) 4.98 11-6 0 / 1035 0.23 (1) 7-8 -1776 / 0 -77.3 -77.3 0.40 (1) 4.61 11-7 -375 / 0 0.35 (1) 15-2 -1385 / 0 0.0 0.0 0.14 (1) 6.91 10-7 -190 / 37 0.05 (1) 9-8 -1276 / 0 0.0 0.0 0.13 (1) 7.13 2-14 0 / 1649 0.37 (1) 10-8 0 / 1636 0.37 (1) 15-14 0 / 0 -17.5 -17.5 0.11 (4) 10.00 14-13 0 / 1624 -17.5 -17.5 0.31 (1) 10.00 13-12 0 / 1755 -17.5 -17.5 0.38 (1) 10.00 12-11 0 / 1755 -17.5 -17.5 0.38 (1) 10.00 11-10 0 / 1610 -17.5 -17.5 0.36 (1) 10.00 10-9 0 / 0 -17.5 -17.5 0.13 (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 (0.93") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.12") ALLOWABLE DEFL.(TL)= L/360 (0.93") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.24") CSI: TC=0.40 (7-8:1), BC=0.38 (11-13:1), WB=0.57 (5-11:1), SSI=0.20 (7-8:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 822 2284 1656 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.89 (10) (INPUT = 0.90) JSI METAL= 0.52 (4) (INPUT = 1.00)									
PLATES (table is in inches) JT TYPE PLATES W LEN Y X 2 TMVW-t MT20 4.0 6.0 2.00 3.00 3 TTWW-m MT20 5.0 6.0 2.25 1.50 4 TTW-h MT20 4.0 6.0 2.25 3.25 5 TMWW-t MT20 4.0 4.0 2.00 1.25 6 TTW+p MT20 3.0 5.0 2.75 1.50 7 TMWW-t MT20 3.0 4.0 1.50 1.75 8 TMVW-t MT20 4.0 6.0 Edge 9 BMV1+p MT20 2.0 4.0 10 BMWW-t MT20 4.0 5.0 2.00 1.50 11 BMWWW-t MT20 4.0 6.0 1.75 3.00 12 BS-t MT20 3.0 6.0 13 BMWWW-t MT20 4.0 8.0 1.75 4.00 14 BMWW-t MT20 3.0 10.0 1.50 3.75 15 BMV1+p MT20 2.0 4.0 Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD. A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.																													
RECEIVED TOWN OF MILTON MAR 29, 2017 17-5253 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 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 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 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 15 1449 0 1449 0 0 5-8 5-8 10 1449 0 1449 0 0 5-8 5-8 UNFACTORED REACTIONS 1ST LCASE MAX/MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 15 1014 723 / 0 0 / 0 0 / 0 291 / 0 0 / 0 10 1014 723 / 0 0 / 0 0 / 0 291 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 15, 10 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.32 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. LOADING TOTAL LOAD CASES: (4) CHORDS WEBS MAX. FACTORED MAX. FACTORED MAX. FACTORED MEMB. FORCE VERT. LOAD LC1 MAX. MAX. MEMB. FORCE MAX. (LBS) (PLF) CSI (LC) UNBRAC LENGTH FR-TO (LBS) CSI (LC) FR-TO FROM TO 1-2 0 / 23 -77.3 -77.3 0.10 (1) 10.00 3-14 -31 / 56 0.02 (4) 2-3 0 / 14 -77.3 -77.3 0.18 (1) 10.00 14-4 0 / 169 0.05 (4) 3-4 -1808 / 0 -77.3 -77.3 0.18 (1) 4.83 4-13 0 / 530 0.12 (1) 4-5 -2022 / 0 -77.3 -77.3 0.44 (1) 4.32 13-5 -583 / 0 0.23 (1) 5-6 -2022 / 0 -77.3 -77.3 0.44 (1) 4.32 13-6 0 / 530 0.12 (1) 6-7 -1808 / 0 -77.3 -77.3 0.18 (1) 4.83 11-6 0 / 169 0.05 (4) 7-8 0 / 14 -77.3 -77.3 0.18 (1) 10.00 11-7 -31 / 56 0.02 (4) 8-9 0 / 23 -77.3 -77.3 0.10 (1) 10.00 15-3 -2000 / 0 0.79 (1) 15-2 -229 / 0 0.0 0.0 0.02 (1) 7.81 7-10 -2000 / 0 0.79 (1) 10-8 -229 / 0 0.0 0.0 0.02 (1) 7.81 15-14 0 / 1628 -17.5 -17.5 0.40 (1) 10.00 14-13 0 / 1607 -17.5 -17.5 0.40 (1) 10.00 13-12 0 / 1607 -17.5 -17.5 0.40 (1) 10.00 12-11 0 / 1607 -17.5 -17.5 0.40 (1) 10.00 11-10 0 / 1628 -17.5 -17.5 0.40 (1) 10.00		DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.0 PSF TOTAL LOAD = 33.3 PSF SPACING = 24.0 IN. C/C LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12 THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (0.94") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.10") ALLOWABLE DEFL.(TL)= L/360 (0.94") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.18") CSI: TC=0.44 (5-6:1) , BC=0.40 (10-11:1) , WB=0.79 (7-10:1) , SSI=0.23 (5-6:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) 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= 0.49 (15) (INPUT = 1.00)	
PLATES (table is in inches) JT TYPE PLATES W LEN Y X 2 TMV+p MT20 2.0 4.0 3 TMVW-t MT20 3.0 10.0 1.50 4.00 4 TTWW-m MT20 4.0 8.0 1.75 3.75 5 TMV+w MT20 2.0 4.0 6 TTWW-m MT20 4.0 8.0 1.75 3.75 7 TMVW-t MT20 3.0 10.0 1.50 4.00 8 TMV+p MT20 2.0 4.0 10 BMVW1-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 BMVWW-t MT20 3.0 8.0 14 BMVW-t MT20 3.0 4.0 15 BMVW1-t MT20 4.0 5.0 1.75 1.75 A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.		LICENSED PROFESSIONAL ENGINEER P. M. TREVISAN 100136551 March 15th, 2017 PROVINCE OF ONTARIO RECEIVED TOWN OF MILTON MAR 29, 2017 17-5253 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 = 2 X 117 = 234 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 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 16 1449 0 1449 0 0 5-8 5-8 10 1449 0 1449 0 0 5-8 5-8 UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 16 1014 723 / 0 0 / 0 0 / 0 291 / 0 0 / 0 10 1014 723 / 0 0 / 0 0 / 0 0 / 0 291 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 16, 10 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.55 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. LOADING TOTAL LOAD CASES: (4) CHORDS WEBS MAX. FACTORED MAX. FACTORED MEMB. FORCE VERT. LOAD LC1 MAX. MAX. MEMB. MAX. FACTORED (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 15- 3 -178 / 32 0.04 (1) 2- 3 -1913 / 0 -77.3 -77.3 0.34 (1) 4.55 3-14 -343 / 0 0.26 (1) 3- 4 -1638 / 0 -77.3 -77.3 0.31 (1) 4.86 14- 4 0 / 462 0.10 (1) 4- 5 -1453 / 0 -77.3 -77.3 0.13 (1) 5.31 14- 5 -182 / 0 0.17 (1) 5- 6 -1453 / 0 -77.3 -77.3 0.13 (1) 5.31 5-12 -182 / 0 0.17 (1) 6- 7 -1638 / 0 -77.3 -77.3 0.31 (1) 4.86 12- 6 0 / 462 0.10 (1) 7- 8 -1913 / 0 -77.3 -77.3 0.34 (1) 4.55 12- 7 -343 / 0 0.26 (1) 8- 9 0 / 23 -77.3 -77.3 0.10 (1) 10.00 11- 7 -178 / 32 0.04 (1) 16- 2 -1406 / 0 0.0 0.0 0.14 (1) 6.87 2-15 0 / 1751 0.39 (1) 10- 8 -1406 / 0 0.0 0.0 0.14 (1) 6.87 11- 8 0 / 1751 0.39 (1) 16-15 0 / 0 -17.5 -17.5 0.11 (4) 10.00 15-14 0 / 1730 -17.5 -17.5 0.35 (1) 10.00 14-13 0 / 1539 -17.5 -17.5 0.32 (1) 10.00 13-12 0 / 1539 -17.5 -17.5 0.32 (1) 10.00 12-11 0 / 1730 -17.5 -17.5 0.35 (1) 10.00 11-10 0 / 0 -17.5 -17.5 0.11 (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 (0.94") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.08") ALLOWABLE DEFL.(TL)= L/360 (0.94") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.17") CSI: TC=0.34 (7-8:1) , BC=0.35 (11-12:1) , WB=0.39 (8-11:1) , SSI=0.18 (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 (11) (INPUT = 0.90) JSI METAL= 0.51 (8) (INPUT = 1.00)									
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.										RECEIVED TOWN OF MILTON MAR 29, 2017 17-5253 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 = 2 X 121 = 241 lb
[M][F]

LUMBER		LUMBER	DESCR.
N. L. G. A. RULES	SIZE		
CHORDS	SIZE		
1 - 4	2x4 DRY	No.2	SPF
4 - 5	2x4 DRY	No.2	SPF
5 - 6	2x4 DRY	No.2	SPF
6 - 7	2x4 DRY	No.2	SPF
7 - 10	2x4 DRY	No.2	SPF
17 - 2	2x4 DRY	No.2	SPF
11 - 9	2x4 DRY	No.2	SPF
17 - 14	2x4 DRY	No.2	SPF
14 - 11	2x4 DRY	No.2	SPF
ALL WEBS EXCEPT	2x3 DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMVW-t	MT20	4.0	6.0	2.00 2.75
3	TMVW-t	MT20	3.0	4.0	1.50 1.75
4	TS-t	MT20	3.0	6.0	
5	TTWW+m	MT20	5.0	5.0	2.50 1.25
6	TTW+m	MT20	3.0	5.0	2.50 1.25
7	TS-t	MT20	3.0	6.0	
8	TMVW-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	BMVW-t	MT20	3.0	8.0	1.50 2.25
13	BMVW-t	MT20	3.0	8.0	
14	BS-t	MT20	3.0	6.0	
15	BMVW-t	MT20	3.0	4.0	
16	BMVW-t	MT20	3.0	8.0	1.50 2.25
17	BMV1+p	MT20	2.0	4.0	

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	DOWN	HORZ	UPLIFT	BRG	IN-SX
17	1449	0	1449	0	0	5-8	5-8	5-8	5-8
11	1449	0	1449	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX	MIN	COMPONENT	REACTIONS		
17	COMBINED	SNOW	LIVE	PERM.	LIVE	WIND	DEAD
17	1014	723 / 0	0 / 0	0 / 0	0 / 0	291 / 0	0 / 0
11	1014	723 / 0	0 / 0	0 / 0	0 / 0	291 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 17, 11

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.28 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING				TOTAL LOAD CASES: (4)			
CHORDS		WEBS		FACTORED		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	LC1 MAX (PLF)	MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	LC1 MAX (PLF)
FR-TO		FROM	TO	FR-TO		FROM	TO
1-2	0 / 23	-77.3	-77.3 0.10 (1)	10.00	16-3	-88 / 88	0.03 (4)
2-3	-1924 / 0	-77.3	-77.3 0.55 (1)	4.28	3-15	-579 / 0	0.75 (1)
3-4	-1434 / 0	-77.3	-77.3 0.49 (1)	4.87	15-5	0 / 364	0.08 (1)
4-5	-1434 / 0	-77.3	-77.3 0.49 (1)	4.87	5-13	0 / 12	0.00 (1)
5-6	-1265 / 0	-77.3	-77.3 0.04 (1)	5.69	13-6	0 / 378	0.08 (1)
6-7	-1437 / 0	-77.3	-77.3 0.49 (1)	4.87	13-8	-575 / 0	0.75 (1)
7-8	-1437 / 0	-77.3	-77.3 0.49 (1)	4.87	12-8	-91 / 87	0.03 (4)
8-9	-1923 / 0	-77.3	-77.3 0.55 (1)	4.28	2-16	0 / 1759	0.40 (1)
9-10	0 / 23	-77.3	-77.3 0.10 (1)	10.00	12-9	0 / 1758	0.40 (1)
17-2	-1400 / 0	0.0	0.0 0.14 (1)	6.88			
11-9	-1399 / 0	0.0	0.0 0.14 (1)	6.88			
17-16	0 / 0	-17.5	-17.5 0.20 (4)	10.00			
16-15	0 / 1745	-17.5	-17.5 0.38 (1)	10.00			
15-14	0 / 1262	-17.5	-17.5 0.28 (1)	10.00			
14-13	0 / 1262	-17.5	-17.5 0.28 (1)	10.00			
13-12	0 / 1744	-17.5	-17.5 0.37 (1)	10.00			
12-11	0 / 0	-17.5	-17.5 0.19 (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 (0.94")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.09")
ALLOWABLE DEFL.(TL)= L/360 (0.94")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.17")

CSI: TC=0.55 (2-3:1), BC=0.38 (15-16:1), WB=0.75 (3-15:1), SSI=0.23 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) 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 (16) (INPUT = 0.90)
JSI METAL= 0.52 (2) (INPUT = 1.00)



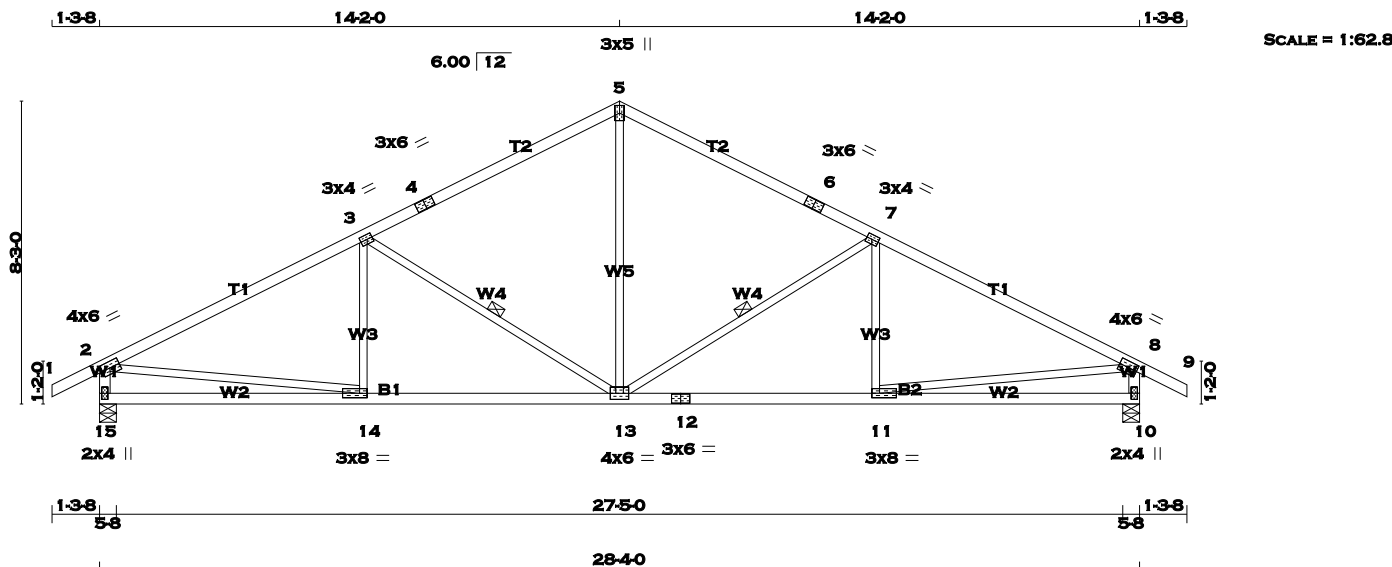
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BUILDING DIVISION

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TOTAL WEIGHT = 6 X 111 = 665 lb
[M][F]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
1 - 4	2x4	DRY	No.2	SPF
4 - 5	2x4	DRY	No.2	SPF
5 - 6	2x4	DRY	No.2	SPF
6 - 9	2x4	DRY	No.2	SPF
15 - 2	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF
15 - 12	2x4	DRY	No.2	SPF
12 - 10	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMVW-t	MT20	4.0	6.0	2.00 2.75
3	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 2.50
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 2.50
15	BMV1+p	MT20	2.0	4.0	

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	GROSS	REACTION	GROSS	REACTION	DOWN	HORZ	BRG	BRG
15	1449	0		1449	0	0	0	5-8	5-8
10	1449	0		1449	0	0	0	5-8	5-8

UNFACTORED REACTIONS							
JT	1ST LCASE	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
15	1014	723	0	0/0	0/0	0/0	291/0
10	1014	723	0	0/0	0/0	0/0	291/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 15, 10

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

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-13, 3-13. DBS = 20-0-0 . CBF = 79 LBS.

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

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

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 MAX CSI (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0/23	-77.3 -77.3	0.10 (1)	10.00	13-5	0/801	0.18 (1)
2-3	-1917/0	-77.3 -77.3	0.62 (1)	4.17	13-7	-633/0	0.30 (1)
3-4	-1379/0	-77.3 -77.3	0.55 (1)	4.84	11-7	-72/96	0.03 (4)
4-5	-1379/0	-77.3 -77.3	0.55 (1)	4.84	3-13	-633/0	0.30 (1)
5-6	-1379/0	-77.3 -77.3	0.55 (1)	4.84	14-3	-72/96	0.03 (4)
6-7	-1379/0	-77.3 -77.3	0.55 (1)	4.84	2-14	0/1753	0.39 (1)
7-8	-1917/0	-77.3 -77.3	0.62 (1)	4.17	11-8	0/1753	0.39 (1)
8-9	0/23	-77.3 -77.3	0.10 (1)	10.00			
15-2	-1396/0	0.0	0.0	0.14 (1)	6.89		
10-8	-1396/0	0.0	0.0	0.14 (1)	6.89		
15-14	0/0	-17.5 -17.5	0.21 (4)	10.00			
14-13	0/1741	-17.5 -17.5	0.38 (1)	10.00			
13-12	0/1741	-17.5 -17.5	0.38 (1)	10.00			
12-11	0/1741	-17.5 -17.5	0.38 (1)	10.00			
11-10	0/0	-17.5 -17.5	0.21 (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 (0.94")
CALCULATED VERT. DEFL.(LL) = L/999 (0.09")
ALLOWABLE DEFL.(TL)= L/360 (0.94")
CALCULATED VERT. DEFL.(TL) = L/999 (0.17")

CSI: TC=0.62 (2-3:1) , BC=0.38 (13-14:1) , WB=0.39 (2-14:1) , SSI=0.24 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) 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.

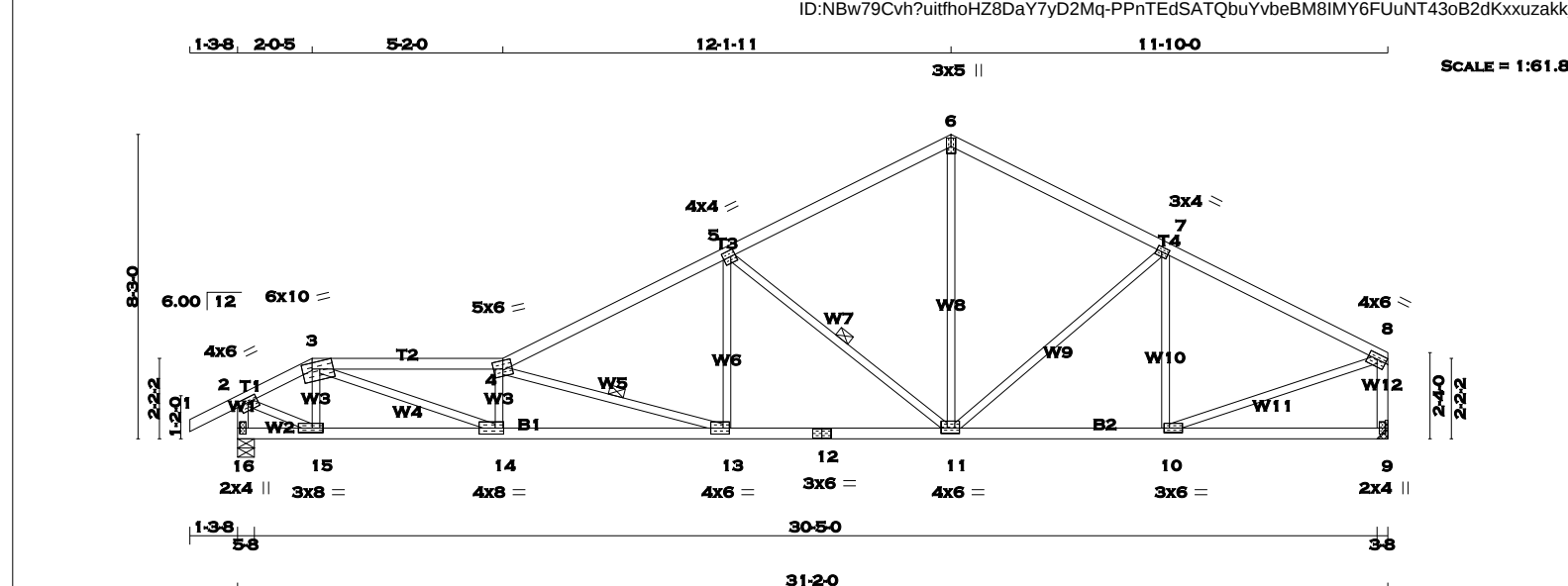
JSI GRIP= 0.90 (11) (INPUT = 0.90)
JSI METAL= 0.52 (2) (INPUT = 1.00)



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LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER				DESIGN CRITERIA			
CHORDS	SIZE	LUMBER	DESCR.	BEARINGS				SPECIFIED LOADS:			
1 - 3	2x4	DRY	No.2	FACTORED	MAXIMUM FACTORED	INPUT	REQRD	TOP CH.	LL	=	23.3 PSF
3 - 4	2x4	DRY	No.2	GROSS REACTION	GROSS REACTION	BRG	BRG	DL	=	3.0 PSF	
4 - 6	2x4	DRY	No.2	JT VERT	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
6 - 8	2x4	DRY	No.2	16 1583 0	1583 0	0	5-8	5-8			
16 - 2	2x4	DRY	No.2	9 1478 0	1478 0	0		HANGER BY OTHERS			
9 - 8	2x4	DRY	No.2					MIN. SEAT SIZE: 3-8			
16 - 12	2x4	DRY	No.2								
12 - 9	2x4	DRY	No.2								

ALL WEBS	2x3	DRY	No.2	SPF	UNFACTORED REACTIONS				SPACING = 24.0 IN./C			
EXCEPT					1ST LCASE	MAX./MIN.	COMPONENT REACTIONS		LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12			
DRY: SEASONED LUMBER.					JT COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
					16 1109	789 / 0	0 / 0	0 / 0	0 / 0	320 / 0	0 / 0	
					9 1037	726 / 0	0 / 0	0 / 0	0 / 0	312 / 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 = 3.03 FT.

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

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-13. DBS = 6-0-0 . CBF = 76 LBS.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-11. DBS = 10-0-0 . 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)

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		FORCE (LBS)	MAX	
FR-TO		FROM TO	CSI (LC)	FR-TO		UNBRAC	CSI (LC)

1-2	0 / 23	-77.3	-77.3	0.10 (1)	10.00	15-3	-508 / 0	0.08 (1)
2-3	-1746 / 0	-77.3	-77.3	0.07 (1)	5.00	3-14	0 / 2919	0.66 (1)
3-4	-4267 / 0	-77.3	-77.3	0.53 (1)	3.03	14-4	-966 / 0	0.15 (1)
4-5	-2634 / 0	-77.3	-77.3	0.51 (1)	3.81	4-13	-2031 / 0	0.59 (1)
5-6	-1559 / 0	-77.3	-77.3	0.41 (1)	4.83	13-5	0 / 732	0.16 (1)
6-7	-1559 / 0	-77.3	-77.3	0.39 (1)	4.86	5-11	-1296 / 0	0.53 (1)
7-8	-1654 / 0	-77.3	-77.3	0.40 (1)	4.74	11-6	0 / 1024	0.23 (1)
16-2	-1597 / 0	0.0	0.0	0.16 (1)	6.53	11-7	-170 / 0	0.20 (1)
9-8	-1434 / 0	0.0	0.0	0.18 (1)	6.82	10-7	-391 / 0	0.17 (1)

16-15	0 / 0	-17.5	-17.5	0.10 (1)	10.00	2-15	0 / 1681	0.38 (1)
15-14	0 / 1531	-17.5	-17.5	0.34 (1)	10.00	10-8	0 / 1583	0.36 (1)
14-13	0 / 4320	-17.5	-17.5	0.82 (1)	10.00			
13-12	0 / 2380	-17.5	-17.5	0.48 (1)	10.00			
12-11	0 / 2380	-17.5	-17.5	0.48 (1)	10.00			
11-10	0 / 1501	-17.5	-17.5	0.31 (1)	10.00			
10-9	0 / 0	-17.5	-17.5	0.14 (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.

COMPANION 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.

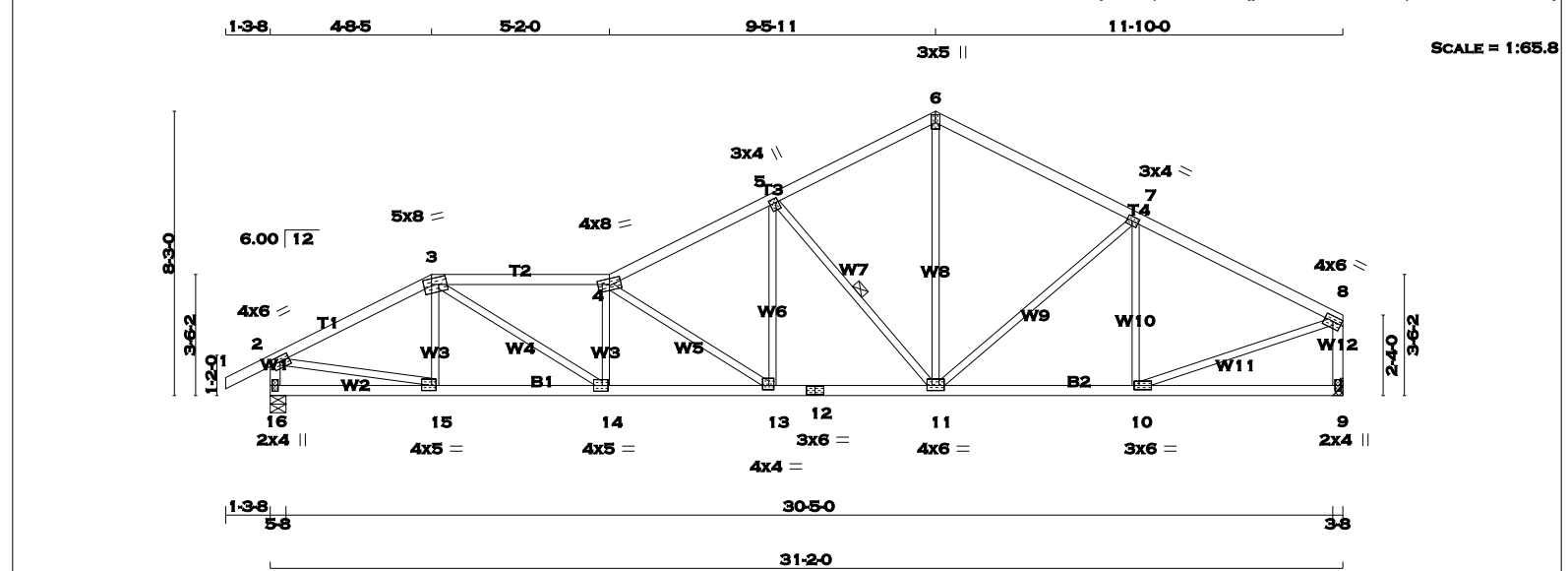
JSI GRIP= 0.90 (10) (INPUT = 0.90)

JSI METAL= 0.63 (12) (INPUT = 1.00)

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TOTAL WEIGHT = 128 lb
[M][F]

LUMBER				N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.	CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	1 - 3	2x4	DRY	No.2
3 - 4	2x4	DRY	No.2	3 - 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
16 - 2	2x4	DRY	No.2	16 - 2	2x4	DRY	No.2
9 - 8	2x4	DRY	No.2	9 - 8	2x4	DRY	No.2
16 - 12	2x4	DRY	No.2	16 - 12	2x4	DRY	No.2
12 - 9	2x4	DRY	No.2	12 - 9	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2	ALL WEBS	2x3	DRY	No.2
EXCEPT				EXCEPT			
DRY: SEASONED LUMBER.				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	2.75	
3	TTWW-m	MT20	5.0	8.0	2.00	2.75	
4	TTWW-m	MT20	4.0	8.0			
5	TMVW-t	MT20	3.0	4.0	1.50	0.75	
6	TTW+p	MT20	3.0	5.0	2.75	1.50	
7	TMVW-t	MT20	3.0	4.0	1.50	1.75	
8	TMVW-t	MT20	4.0	6.0	1.75	Edge	
9	BMV1+p	MT20	2.0	4.0			
10	BMVW-t	MT20	3.0	6.0	1.50	1.75	
11	BMVW-t	MT20	4.0	6.0	1.75	3.00	
12	BS-t	MT20	3.0	6.0			
13	BMVW-t	MT20	4.0	4.0	1.50	1.75	
14	BMVW-t	MT20	4.0	5.0	2.00	2.00	
15	BMVW-t	MT20	4.0	5.0	1.75	1.50	
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		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX	IN-SX	IN-SX
16		1583	0	1583	0	0	5-8	5-8	
9		1478	0	1478	0	0	HANGER BY OTHERS		
MIN. SEAT SIZE: 3-8									

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS				
16	1109	789 / 0	0 / 0	0 / 0	0 / 0	320 / 0	0 / 0
9	1037	726 / 0	0 / 0	0 / 0	0 / 0	312 / 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 = 3.66 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 5-11. DBS = 12-0-0. CBF = 84 LBS.

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

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

LOADING							
TOTAL LOAD CASES: (4)							
C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX UNBRAC LENGTH	MAX FACTORED FORCE (LBS)
FR-TO		FROM TO		FR-TO			
1-2	0 / 23	-77.3 -77.3	0.10 (1)	10.00	15-3	-231 / 10	0.05 (1)
2-3	-2076 / 0	-77.3 -77.3	0.28 (1)	4.46	3-14	0 / 1456	0.33 (1)
3-4	-3077 / 0	-77.3 -77.3	0.40 (1)	3.66	14-4	-707 / 0	0.15 (1)
4-5	-2326 / 0	-77.3 -77.3	0.29 (1)	4.25	4-13	-1210 / 0	0.69 (1)
5-6	-1553 / 0	-77.3 -77.3	0.25 (1)	5.04	13-5	0 / 763	0.17 (1)
6-7	-1558 / 0	-77.3 -77.3	0.39 (1)	4.86	5-11	-1123 / 0	0.40 (1)
7-8	-1654 / 0	-77.3 -77.3	0.40 (1)	4.74	11-6	0 / 1062	0.24 (1)
16-2	-1549 / 0	0.0	0.0	6.61	11-7	-171 / 0	0.20 (1)
9-8	-1434 / 0	0.0	0.0	6.82	10-7	-390 / 0	0.17 (1)
					2-15	0 / 1885	0.42 (1)
					10-8	0 / 1583	0.36 (1)
16-15	0 / 0	-17.5 -17.5	0.10 (4)	10.00			
15-14	0 / 1848	-17.5 -17.5	0.35 (1)	10.00			
14-13	0 / 3100	-17.5 -17.5	0.55 (1)	10.00			
13-12	0 / 2099	-17.5 -17.5	0.39 (1)	10.00			
12-11	0 / 2099	-17.5 -17.5	0.39 (1)	10.00			
11-10	0 / 1501	-17.5 -17.5	0.31 (1)	10.00			
10-9	0 / 0	-17.5 -17.5	0.15 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C

LOADING IN 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 (1.04")
CALCULATED VERT. DEFL.(LL) = L/999 (0.16")
ALLOWABLE DEFL.(TL)= L/360 (1.04")
CALCULATED VERT. DEFL.(TL) = L/999 (0.29")

CSI: TC=0.40 (3-4:1), BC=0.55 (13-14:1), WB=0.69 (4-13:1), 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)	(PLI)
MAX	MIN	MAX	MIN
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

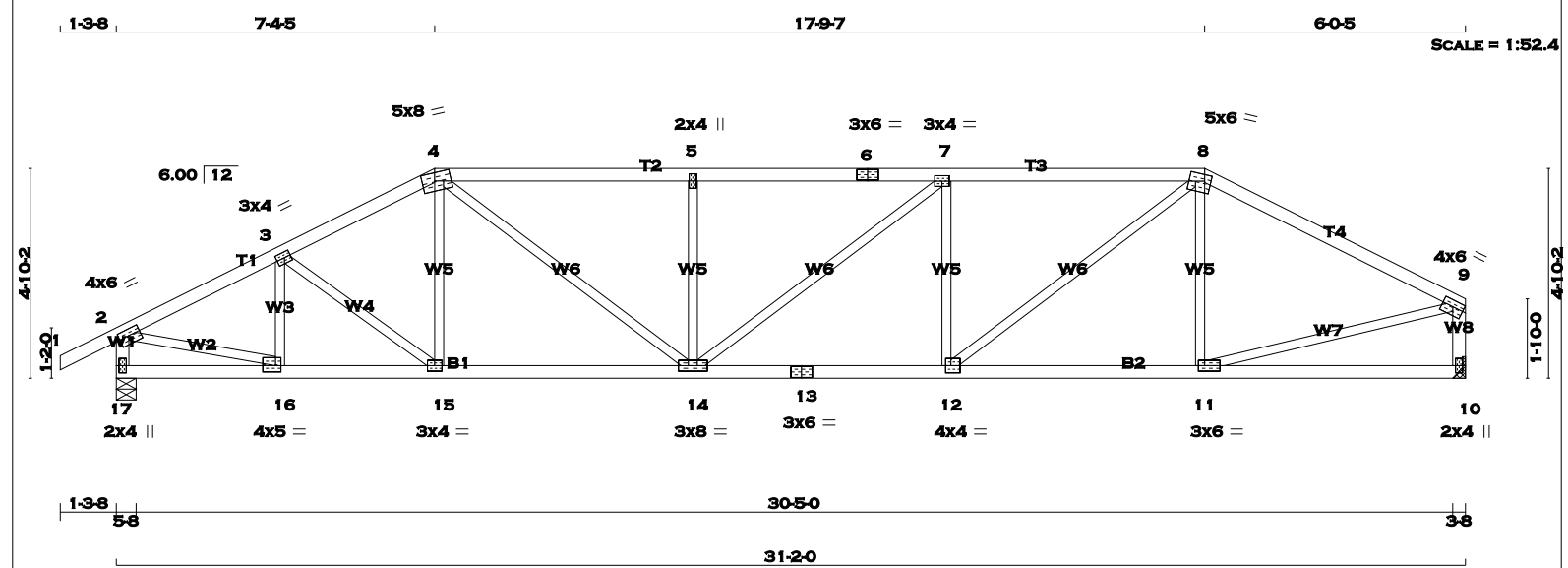
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (10) (INPUT = 0.90)
JSI METAL= 0.55 (15) (INPUT = 1.00)

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TOTAL WEIGHT = 122 lb [M]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 8	2x4	DRY	No.2	SPF
8 - 9	2x4	DRY	No.2	SPF
17 - 2	2x4	DRY	No.2	SPF
10 - 9	2x4	DRY	No.2	SPF
17 - 13	2x4	DRY	No.2	SPF
13 - 10	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	6.0	1.75	2.75
3	TMVW-t	MT20	3.0	4.0	1.50	1.75
4	TTWW-m	MT20	5.0	8.0	2.25	3.50
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	1.75
9	TMVW-t	MT20	4.0	6.0	1.75	Edge
10	BMV1+p	MT20	2.0	4.0		
11	BMVW-t	MT20	3.0	6.0	1.50	1.75
12	BMVW-t	MT20	4.0	4.0	2.00	1.50
13	BS-t	MT20	3.0	6.0		
14	BMVW-t	MT20	3.0	8.0		
15	BMVW-t	MT20	3.0	4.0		
16	BMVW-t	MT20	4.0	5.0	1.75	1.50
17	BMV1+p	MT20	2.0	4.0		
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.						
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.						



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	UPLIFT	IN-SX	
17		1583	0	1583	0	0	5-8	5-8	
10		1478	0	1478	0	0			HANGER BY OTHERS MIN. SEAT SIZE: 3-8

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.83 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

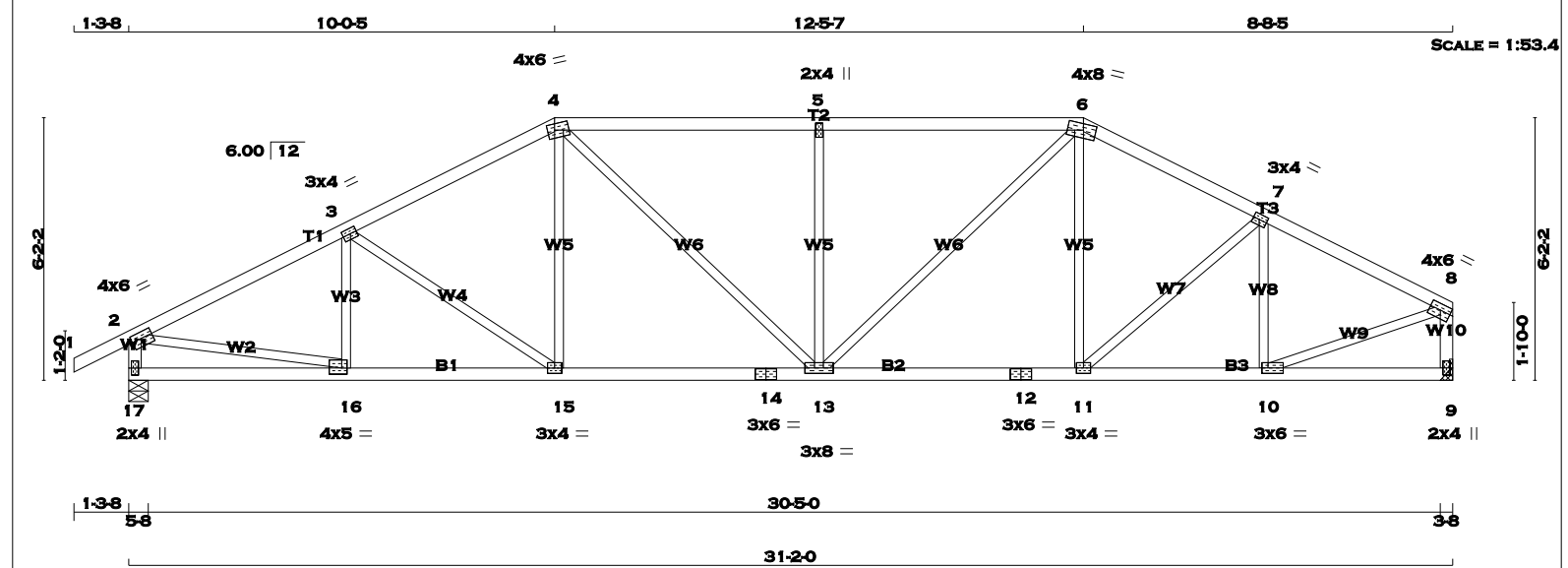
BRACING									
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.83 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.									
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.									
LOADING									
TOTAL LOAD CASES: (4)									
		CHORDS			WEBS				
		MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FORCE (LBS)	MAX. FACTORED LC1 (LC)	
FR-TO				FROM TO	MAX. UNBRACED LENGTH	FR-TO			
1-2			0 / 23	-77.3	-77.3 0.10 (1)	10.00	16-3	-363 / 0	0.07 (1)
2-3			-2026 / 0	-77.3	-77.3 0.20 (1)	4.57	3-15	0 / 17	0.01 (4)
3-4			-2068 / 0	-77.3	-77.3 0.20 (1)	4.53	15-4	0 / 89	0.03 (4)
4-5			-2540 / 0	-77.3	-77.3 0.53 (1)	3.85	4-14	0 / 882	0.20 (1)
5-6			-2540 / 0	-77.3	-77.3 0.53 (1)	3.83	14-5	-496 / 0	0.17 (1)
6-7			-2540 / 0	-77.3	-77.3 0.53 (1)	3.83	14-7	0 / 103	0.02 (1)
7-8			-2458 / 0	-77.3	-77.3 0.53 (1)	3.90	12-7	-561 / 0	0.19 (1)
8-9			-1792 / 0	-77.3	-77.3 0.63 (1)	4.27	12-8	0 / 1085	0.24 (1)
17-2			-1548 / 0	0.0	0.0 0.16 (1)	6.61	11-8	-279 / 14	0.10 (1)
10-9			-1434 / 0	0.0	0.0 0.16 (1)	6.82	2-16	0 / 1869	0.42 (1)
							11-9	0 / 1650	0.37 (1)
17-16			0 / 0	-17.5	-17.5 0.06 (4)	10.00			
16-15			0 / 1823	-17.5	-17.5 0.35 (1)	10.00			
15-14			0 / 1838	-17.5	-17.5 0.35 (1)	10.00			
14-13			0 / 2458	-17.5	-17.5 0.45 (1)	10.00			
13-12			0 / 2458	-17.5	-17.5 0.45 (1)	10.00			
12-11			0 / 1595	-17.5	-17.5 0.34 (1)	10.00			
11-10			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 (1.04")									
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.14")									
ALLOWABLE DEFL.(TL)= L/360 (1.04")									
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.25")									
CSI: TC=0.63 (8-9:1), BC=0.45 (12-14:1), WB=0.42 (2-16:1), SSI=0.21 (7-8:1)									
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10									
COMPANION LIVE LOAD FACTOR = 0.50									
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .									
NAIL VALUES									
PLATE GRIP(DRY)	SHEAR	SECTION							
(PSI)	(PLI)	(PLI)							
MAX MIN	MAX MIN	MAX MIN							
MT20	618	354	1667	822	2284	1656			
PLATE PLACEMENT TOL. = 0.250 inches									
PLATE ROTATION TOL. = 5.0 Deg.									
JSI GRIP= 0.90 (14) (INPUT = 0.90)									
JSI METAL= 0.69 (13) (INPUT = 1.00)									

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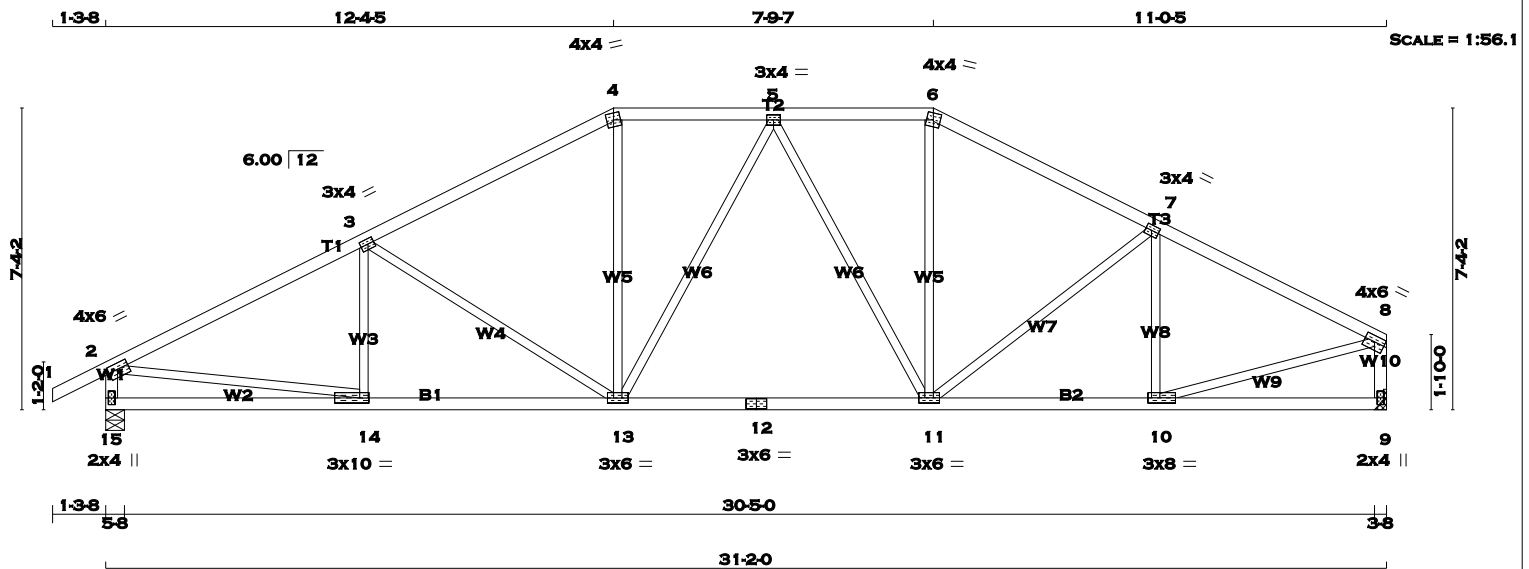


LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR.							DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS										DESIGN CRITERIA							
1 - 4	2x4	DRY	No.2	SPF	FACTORED					MAXIMUM FACTORED					INPUT		REQRD		SPECIFIED LOADS:					
4 - 6	2x4	DRY	No.2	SPF	GROSS REACTION					GROSS REACTION					BRG		BRG		TOP CH. LL = 23.3 PSF					
6 - 8	2x4	DRY	No.2	SPF	JT	VERT	HORZ		DOWN	HORZ	UPLIFT	IN-SX	IN-SX	DL = 3.0 PSF										
17 - 2	2x4	DRY	No.2	SPF	17	1583	0		1583	0	0	5-8	5-8	BOT CH. LL = 0.0 PSF										
9 - 8	2x4	DRY	No.2	SPF	9	1478	0		1478	0	0	HANGER BY OTHERS				DL = 7.0 PSF								
17 - 14	2x4	DRY	No.2	SPF	MIN. SEAT SIZE: 3-8										TOTAL LOAD = 33.3 PSF									
14 - 12	2x4	DRY	No.2	SPF															SPACING = 24.0 IN./C					
12 - 9	2x4	DRY	No.2	SPF																				
ALL WEBS 2x3 DRY No.2 SPF					UNFACTORED REACTIONS																			
EXCEPT					1ST LCASE MAX./MIN. COMPONENT REACTIONS																			
					JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL												
					17	1109	789 / 0	0 / 0	0 / 0	0 / 0	320 / 0	0 / 0												
					9	1037	726 / 0	0 / 0	0 / 0	0 / 0	312 / 0	0 / 0												
DRY: SEASONED LUMBER.					BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 17														LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12					
					BRACING														THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010					
					TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.30 FT.														THIS DESIGN COMPLIES WITH:					
					MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.														- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014					
					ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.														- CSA 086-09					
																			- TPIC 2011					
																			(55 % OF 27.2 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)																			ALLOWABLE DEFL.(LL)= L/360 (1.04")					
JT	TYPE	PLATES	W	LEN	Y	X															CALCULATED VERT. DEFL.(LL) = L/ 999 (0.10")			
2	TMVW-t	MT20	4.0	6.0	1.75	2.75															ALLOWABLE DEFL.(TL)= L/360 (1.04")			
3	TMVW-t	MT20	3.0	4.0	1.50	1.75															CALCULATED VERT. DEFL.(TL) = L/ 999 (0.19")			
4	TTWW-m	MT20	4.0	6.0	1.75	2.00															CSI: TC=0.45 (4-5:1) , BC=0.37 (15-16:1) ,			
5	TMW+w	MT20	2.0	4.0																	WB=0.44 (2-16:1) , SSI=0.23 (4-5:1)			
6	TTWW-m	MT20	4.0	8.0	1.75	3.50															DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10			
7	TMVW-t	MT20	3.0	4.0	1.50	1.75															COMP=1.10 SHEAR=1.10 TENS= 1.10			
8	TMVW-t	MT20	4.0	6.0	1.75	Edge															COMPANION LIVE LOAD FACTOR = 0.50			
9	BMV1+p	MT20	2.0	4.0																				
10	BMVW-t	MT20	3.0	6.0	1.50	1.75															TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .			
11	BMVW-t	MT20	3.0	4.0																	NAIL VALUES			
12	BS-t	MT20	3.0	6.0																	PLATE GRIP(DRY) SHEAR SECTION			
13	BMVW-t	MT20	3.0	8.0																	(PSI) (PLI) (PLI)			
14	BS-t	MT20	3.0	6.0																	MAX MIN MAX MIN MAX MIN			
15	BMVW-t	MT20	3.0	4.0																	MT20 618 354 1667 822 2284 1656			
16	BMVW-t	MT20	4.0	5.0	1.75	1.50															PLATE PLACEMENT TOL. = 0.250 inches			
17	BMV1+p	MT20	2.0	4.0																				
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.																								
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.																								

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TOTAL WEIGHT = 129 lb
[M][F]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 8	2x4	DRY	No.2	SPF
15 - 2	2x4	DRY	No.2	SPF
9 - 8	2x4	DRY	No.2	SPF
15 - 12	2x4	DRY	No.2	SPF
12 - 9	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	6.0	1.75	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	1.75	Edge
9	BMV1+p	MT20	2.0	4.0		
10	BMVW-t	MT20	3.0	8.0	1.50	3.50
11	BMVW-t	MT20	3.0	6.0		
12	BS-t	MT20	3.0	6.0		
13	BMVW-t	MT20	3.0	6.0		
14	BMVW-t	MT20	3.0	10.0	1.50	2.75
15	BMV1+p	MT20	2.0	4.0		
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.						
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.						

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG		
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
15		1583	0	1583	0	0	5-8	5-8	
9		1478	0	1478	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
15		1109	789 / 0	0 / 0	0 / 0	0 / 0	320 / 0
9		1037	726 / 0	0 / 0	0 / 0	0 / 0	312 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.17 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)	VERT. LOAD (PLF)	MAX. FACTORED (LC1)	MAX. UNBRACED (LC)	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	14-3	-155 / 53	0.04 (1)
2-3	-2158 / 0		-77.3	-77.3	0.48 (1)	4.17	3-13	-455 / 0	0.48 (1)
3-4	-1782 / 0		-77.3	-77.3	0.43 (1)	4.56	13-4	0 / 490	0.11 (1)
4-5	-1578 / 0		-77.3	-77.3	0.17 (1)	5.10	13-5	-132 / 1	0.18 (1)
5-6	-1509 / 0		-77.3	-77.3	0.16 (1)	5.19	5-11	-278 / 0	0.38 (1)
6-7	-1703 / 0		-77.3	-77.3	0.34 (1)	4.75	11-6	0 / 475	0.11 (1)
7-8	-1815 / 0		-77.3	-77.3	0.35 (1)	4.63	11-7	-179 / 0	0.17 (1)
15-2	-1535 / 0		0.0	0.0	0.16 (1)	6.64	10-7	-348 / 0	0.11 (1)
9-8	-1435 / 0		0.0	0.0	0.16 (1)	6.82	2-14	0 / 1970	0.44 (1)
							10-8	0 / 1702	0.38 (1)
15-14	0 / 0		-17.5	-17.5	0.14 (4)	10.00			
14-13	0 / 1952		-17.5	-17.5	0.41 (1)	10.00			
13-12	0 / 1640		-17.5	-17.5	0.36 (1)	10.00			
12-11	0 / 1640		-17.5	-17.5	0.36 (1)	10.00			
11-10	0 / 1643		-17.5	-17.5	0.35 (1)	10.00			
10-9	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 (1.04")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.09")
ALLOWABLE DEFL.(TL)= L/360 (1.04")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.20")

CSI: TC=0.48 (2-3:1), BC=0.41 (13-14:1), WB=0.48 (3-13:1), SSI=0.21 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

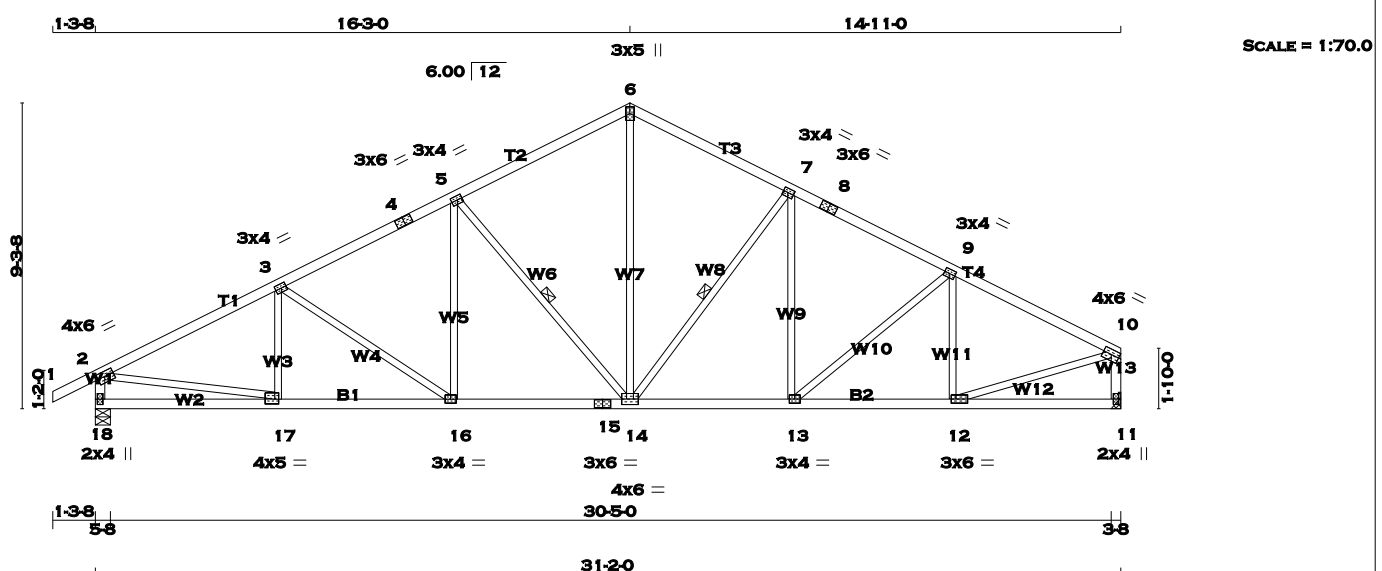
JSI GRIP= 0.89 (14) (INPUT = 0.90)
JSI METAL= 0.58 (2) (INPUT = 1.00)



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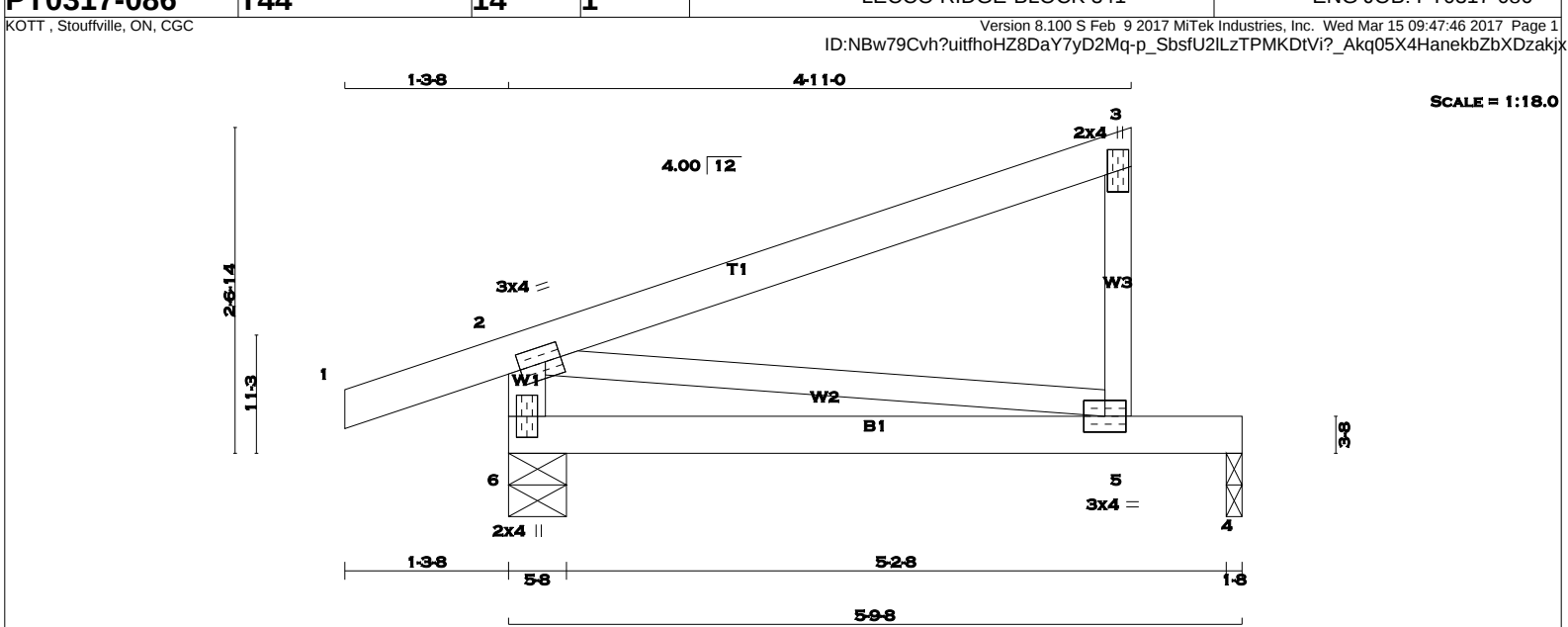
LUMBER N. L. G. A. RULES CHORDS SIZE 1 - 4 2x4 DRY No.2 4 - 6 2x4 DRY No.2 6 - 8 2x4 DRY No.2 8 - 10 2x4 DRY No.2 18 - 2 2x4 DRY No.2 11 - 10 2x4 DRY No.2 18 - 15 2x4 DRY No.2 15 - 11 2x4 DRY No.2 ALL WEBS 2x3 DRY No.2 EXCEPT DRY: SEASONED LUMBER.				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED GROSS REACTION JT VERT HORZ 18 1583 0 11 1478 0 MAXIMUM FACTORED GROSS REACTION DOWN HORZ 1583 0 1478 0 INPUT UPLIFT IN-SX 5-8 5-8 REQRD BRG IN-SX 5-8 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 1109 789 / 0 0 / 0 0 / 0 0 / 0 320 / 0 0 / 0 11 1037 726 / 0 0 / 0 0 / 0 0 / 0 312 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 18 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.34 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-14, 7-14. DBS = 20-0-0 . CBF = 80 LBS. DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"x3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12. END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW LOADING TOTAL LOAD CASES: (4) C H O R D S MEMB. MAX. FACTORED FORCE (LBS) FACTORED VERT. LOAD (PLF) MAX. CSI (LC) W E B S MEMB. MAX. FACTORED FORCE (LBS) MAX. FACTORED CSI (LC) FR-TO LENGTH FR-TO 1-2 0 / 23 -77.3 -77.3 0.10 (1) 10.00 17-3 -195 / 32 0.05 (1) 2-3 -2134 / 0 -77.3 -77.3 0.36 (1) 4.34 3-16 -272 / 0 0.21 (1) 3-4 -1900 / 0 -77.3 -77.3 0.29 (1) 4.63 16-5 0 / 244 0.05 (1) 4-5 -1900 / 0 -77.3 -77.3 0.29 (1) 4.63 5-14 -642 / 0 0.30 (1) 5-6 -1454 / 0 -77.3 -77.3 0.29 (1) 5.13 14-6 0 / 963 0.22 (1) 6-7 -1452 / 0 -77.3 -77.3 0.24 (1) 5.19 14-7 -473 / 0 0.21 (1) 7-8 -1754 / 0 -77.3 -77.3 0.24 (1) 4.82 13-7 0 / 107 0.03 (4) 8-9 -1754 / 0 -77.3 -77.3 0.24 (1) 4.82 13-9 -43 / 0 0.03 (1) 9-10 -1774 / 0 -77.3 -77.3 0.28 (1) 4.76 12-9 -382 / 0 0.11 (1) 18-2 -1540 / 0 0.0 0.0 0.16 (1) 6.63 2-17 0 / 1947 0.44 (1) 11-10 -1440 / 0 0.0 0.0 0.16 (1) 6.81 12-10 0 / 1671 0.38 (1) 18-17 0 / 0 -17.5 -17.5 0.12 (4) 10.00 17-16 0 / 1924 -17.5 -17.5 0.36 (1) 10.00 16-15 0 / 1699 -17.5 -17.5 0.33 (1) 10.00 15-14 0 / 1699 -17.5 -17.5 0.33 (1) 10.00 14-13 0 / 1568 -17.5 -17.5 0.31 (1) 10.00 13-12 0 / 1601 -17.5 -17.5 0.30 (1) 10.00 12-11 0 / 0 -17.5 -17.5 0.10 (4) 10.00				DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.0 PSF TOTAL LOAD = 33.3 PSF SPACING = 24.0 IN./C THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (1.04") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.09") ALLOWABLE DEFL.(TL)= L/360 (1.04") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.17") CSI: TC=0.36 (2-3:1) , BC=0.36 (16-17:1) , WB=0.44 (2-17:1) , SSI=0.18 (2-3:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) 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= 0.58 (17) (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

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

6

373

0

373

0

0

5-8

5-8

4

212

0

212

0

0

1-8

1-8

UNFACTORED REACTIONS

1ST LCASE

MAX./MIN. COMPONENT REACTIONS

JT

COMBINED

SNOW

LIVE

PERM.LIVE

WIND

DEAD

SOIL

6

260

194 / 0

0 / 0

0 / 0

0 / 0

66 / 0

0 / 0

4

150

97 / 0

0 / 0

0 / 0

0 / 0

53 / 0

0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS

MAX. FACTORED

FACTORED

VERT. LOAD

LC1

MAX

MAX.

MEMB.

FORCE

VERT.

LOAD

LC1

MAX

MAX.

MEMB.

FORCE

VERT.

LOAD

LC1

MAX

FR-TO

FROM

TO

FR-TO

FROM

TO

1-2

0 / 16

-77.3

-77.3

0.10 (1)

10.00

2-5

0 / 0

-77.3

-77.3

0.32 (1)

10.00

2-3

0 / 0

-77.3

-77.3

0.32 (1)

10.00

5-3

-190 / 0

0.0

0.0

0.03 (1)

7.81

6-2

-294 / 0

0.0

0.0

0.03 (1)

7.81

6-5

0 / 0

-17.5

-17.5

0.25 (1)

10.00

5-4

0 / 0

-17.5

-17.5

0.24 (1)

10.00

WEBS

MAX. FACTORED

MAX.

MEMB.

FORCE

VERT.

LOAD

LC1

MAX

2-5

0 / 0

0.00 (1)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP

CH.

LL

=

23.3

PSF

DL

=

3.0

PSF

BOT

CH.

LL

=

0.0

PSF

DL

=

7.0

PSF

TOTAL LOAD

=

33.3

PSF

SPACING = 24.0 IN./C/C

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

THIS DESIGN COMPLIES WITH:

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

- CSA 086-09

- TPIC 2011

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

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

CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")

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

CALCULATED VERT. DEFL.(TL) = L/ 586 (0.12")

CSI: TC=0.32 (2-3:1) , BC=0.25 (5-6:1) , WB=0.00 (2-5:1) , SSI=0.17 (4-5:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

PLATE

GRIP(DRY)

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= 0.27 (2) (INPUT = 0.90)

JSI METAL= 0.05 (6) (INPUT = 1.00)

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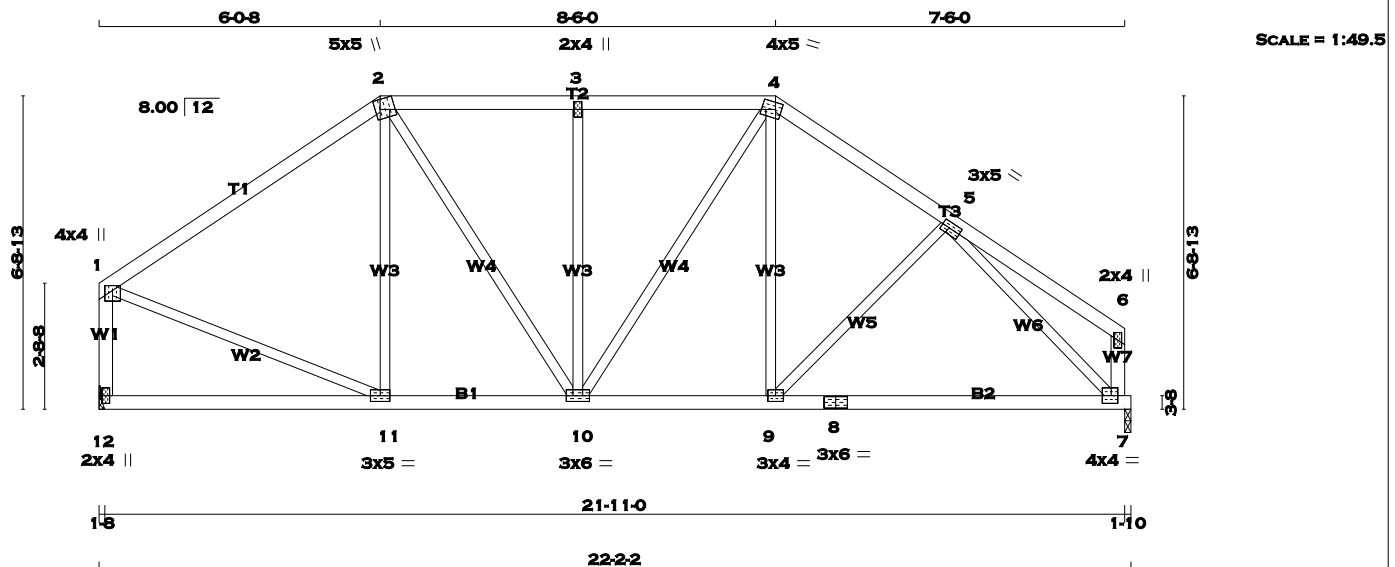
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CONTAINS SPECIFICATIONS AND CRITERIA USED

IN THE DESIGN OF THIS COMPONENT.



TOTAL WEIGHT = 98 lb
[M][F]

LUMBER		N. L. G. A. RULES		LUMBER	DESCR.
CHORDS	SIZE				
1 - 2	2x4	DRY	No.2	SPF	SPF
2 - 4	2x4	DRY	No.2		
4 - 6	2x4	DRY	No.2		
12 - 1	2x4	DRY	No.2		
7 - 6	2x4	DRY	No.2		
12 - 8	2x4	DRY	No.2		
8 - 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	TTWW+m	MT20	5.0	5.0	Edge	3.75
3	TMVW+w	MT20	2.0	4.0		
4	TTWW-m	MT20	4.0	5.0	1.75	1.50
5	TMVW-t	MT20	3.0	5.0	1.50	2.00
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	BMVW-t	MT20	3.0	4.0		
10	BMVW-t	MT20	3.0	6.0		
11	BMVW-t	MT20	3.0	5.0		
12	BMV1+p	MT20	2.0	4.0		
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.						
A SIZE FOR SIZE SUBSTITUTION OF MITEK M120 WITH TEE-LOK TL20 PLATES IS ALLOWED.						

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
12		1045	0	1045	0	0	HANGER BY OTHERS		
7		1045	0	1045	0	0	MIN. SEAT SIZE: 1-8		

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS				
12	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 = 6.05 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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		FROM	TO
1-2	-874 / 0	-77.3	-77.3 0.38 (1)	6.05	11-2	-165 / 44	0.12 (1)
2-3	-914 / 0	-77.3	-77.3 0.18 (1)	6.24	2-10	0 / 345	0.08 (1)
3-4	-914 / 0	-77.3	-77.3 0.18 (1)	6.24	10-3	-399 / 0	0.30 (1)
4-5	-1002 / 0	-77.3	-77.3 0.14 (1)	6.10	10-4	0 / 172	0.04 (1)
5-6	0 / 18	-77.3	-77.3 0.17 (1)	10.00	9-4	0 / 163	0.04 (4)
12-1	-1002 / 0	0.0	0.0 0.14 (1)	7.81	9-5	-35 / 40	0.02 (1)
7-6	-113 / 0	0.0	0.0 0.01 (1)	7.81	1-11	0 / 779	0.18 (1)
					5-7	-1216 / 0	0.57 (1)
12-11	0 / 0	-17.5	-17.5 0.15 (4)	10.00			
11-10	0 / 724	-17.5	-17.5 0.20 (4)	10.00			
10-9	0 / 820	-17.5	-17.5 0.28 (4)	10.00			
9-8	0 / 841	-17.5	-17.5 0.27 (4)	10.00			
8-7	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=0.38 (1-2:1), BC=0.28 (9-10:4), WB=0.57 (5-7:1), SSI=0.16 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

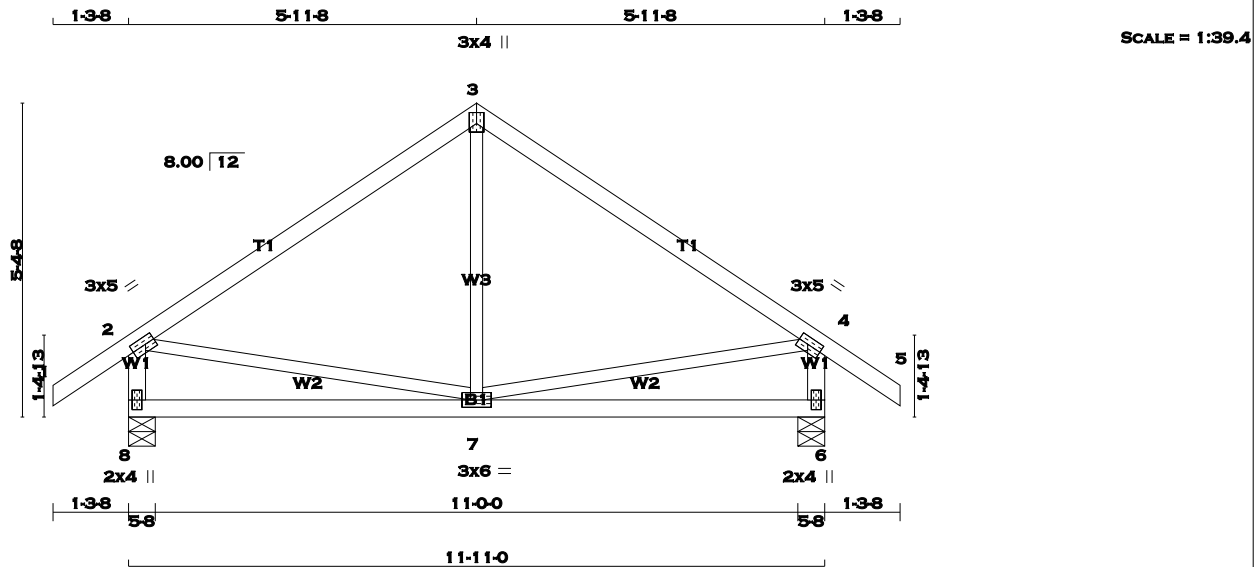
JSI GRIP= 0.90 (5) (INPUT = 0.90)
JSI METAL= 0.35 (5) (INPUT = 1.00)



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TOTAL WEIGHT = 2 X 49 = 98 lb

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 EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	5.0	1.50	2.00
3	TTW+p	MT20	3.0	4.0	2.25	1.50
4	TMVW-t	MT20	3.0	5.0	1.50	2.00
6	BMV1+p	MT20	2.0	4.0		
7	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		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		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

1ST LCASE		MAX./MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
8	469	341 / 0	0 / 0	0 / 0	0 / 0	127 / 0	0 / 0		
6	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) 8, 6

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (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
	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 (0.40")
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 (7-8:4), 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)	(PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1667 822	2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.76 (7) (INPUT = 0.90)
JSI METAL= 0.18 (2) (INPUT = 1.00)



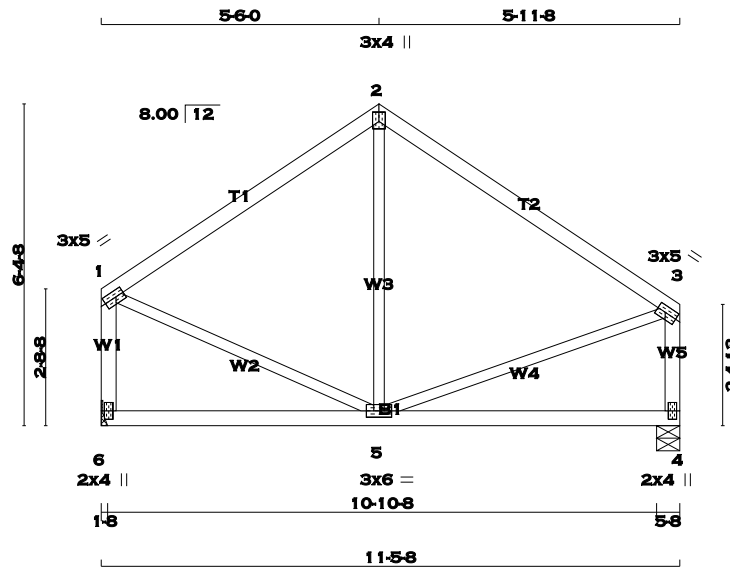
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17-5253

BUILDING DIVISION

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TOTAL WEIGHT = 2 X 48 = 96 lb
[M][F]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	3.0	5.0	1.50	2.00
2	TTW+p	MT20	3.0	4.0	2.25	1.50
3	TMVW-t	MT20	3.0	5.0	1.50	2.00
4	BMV1+p	MT20	2.0	4.0		
5	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	HORZ	IN-SX	IN-SX	IN-SX	IN-SX
6	543	0		543	0	0		HANGER BY OTHERS	
4	543	0		543	0	0		MIN. SEAT SIZE: 1-8	5-8

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) 4

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED LC1 (LC)	
FR-TO		FROM	TO	FR-TO		FROM	TO
1-2	-322 / 0	-77.3	-77.3 0.30 (1)	6.25	5-2	-86 / 70	0.05 (1)
2-3	-322 / 0	-77.3	-77.3 0.35 (1)	6.25	1-5	0 / 292	0.07 (1)
6-1	-508 / 0	0.0	0.0 0.07 (1)	7.81	5-3	0 / 284	0.06 (1)
4-3	-503 / 0	0.0	0.0 0.06 (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

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

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

(55 % OF 27.2 P.S.F. G.S.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 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.38")
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.35 (2-3:1), BC=0.17 (5-6:4), WB=0.07 (1-5:1), SSI=0.15 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) 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= 0.53 (5) (INPUT = 0.90)
JSI METAL= 0.13 (3) (INPUT = 1.00)

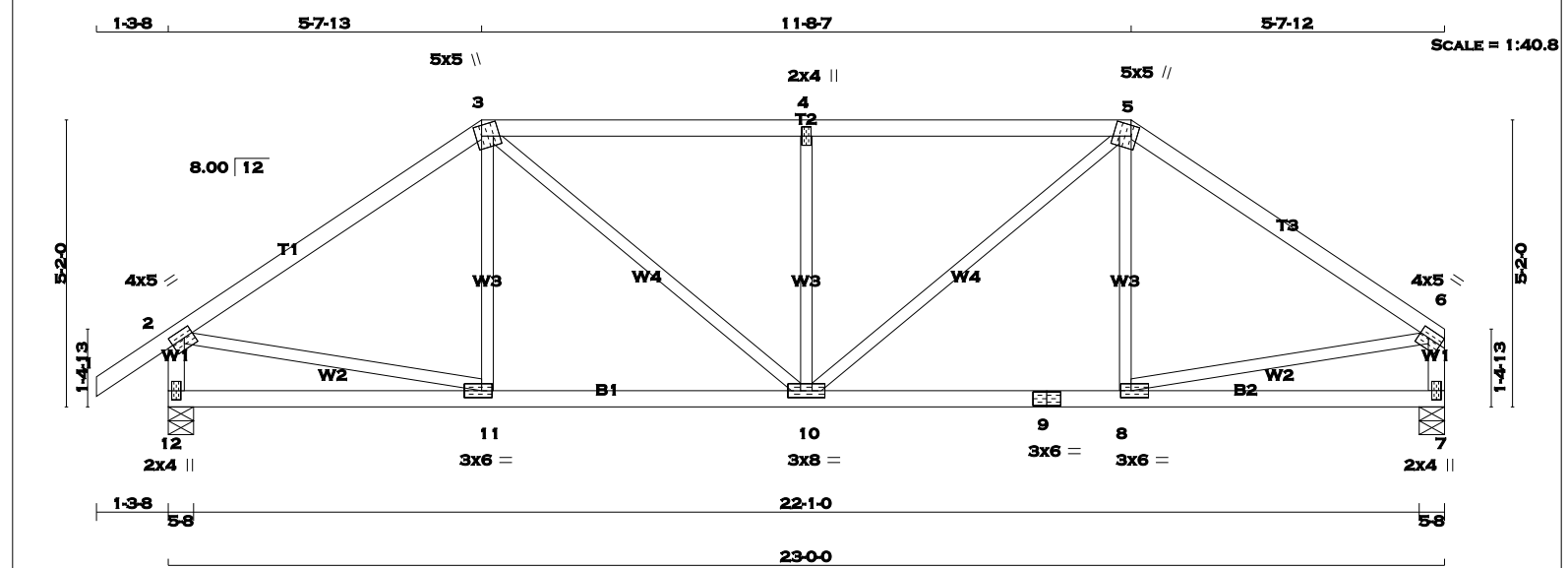


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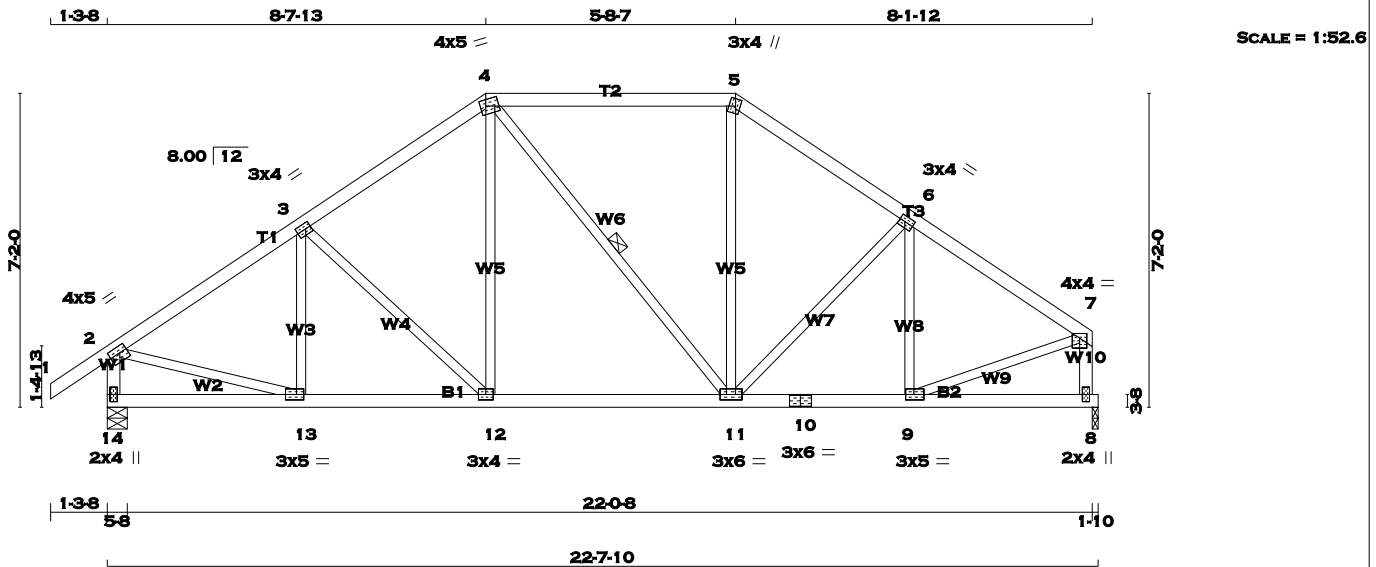
										TOTAL WEIGHT = 91 lb										[M]																																																																																																																																																																																						
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. SPF 1 - 3 2x4 DRY No.2 SPF 3 - 5 2x4 DRY No.2 SPF 5 - 6 2x4 DRY No.2 SPF 12 - 2 2x4 DRY No.2 SPF 7 - 6 2x4 DRY No.2 SPF 12 - 9 2x4 DRY No.2 SPF 9 - 7 2x4 DRY No.2 SPF ALL WEBS 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><th>UPLIFT</th><th>IN-SX</th><th>IN-SX</th></tr><tr><td>12</td><td>1197</td><td>0</td><td>1197</td><td>0</td><td>0</td><td>5-8</td><td>5-8</td></tr><tr><td>7</td><td>1091</td><td>0</td><td>1091</td><td>0</td><td>0</td><td>5-8</td><td>5-8</td></tr></table> UNFACTORED REACTIONS <table><tr><th>JT</th><th>1ST LCASE COMBINED</th><th>MAX. SNOW</th><th>MIN. LIVE</th><th>COMPONENT PERM. LIVE</th><th>WIND</th><th>DEAD</th><th>SOIL</th></tr><tr><td>12</td><td>838</td><td>599 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>238 / 0</td><td>0 / 0</td></tr><tr><td>7</td><td>765</td><td>535 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>230 / 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 = 4.91 FT. 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>FACTORED VERT. LOAD (PLF)</th><th>MAX. LC1 (LC)</th></tr><tr><td>FR-TO</td><td></td><td>FROM</td><td>TO</td><td>FR-TO</td><td></td><td>FROM</td><td>TO</td></tr><tr><td>1-2</td><td>0 / 29</td><td>-77.3</td><td>-77.3 0.10 (1)</td><td>10.00</td><td>11-3</td><td>-67 / 73</td><td>0.03 (1)</td></tr><tr><td>2-3</td><td>-1168 / 0</td><td>-77.3</td><td>-77.3 0.50 (1)</td><td>5.24</td><td>3-10</td><td>0 / 505</td><td>0.11 (1)</td></tr><tr><td>3-4</td><td>-1358 / 0</td><td>-77.3</td><td>-77.3 0.50 (1)</td><td>4.91</td><td>10-4</td><td>-554 / 0</td><td>0.22 (1)</td></tr><tr><td>4-5</td><td>-1358 / 0</td><td>-77.3</td><td>-77.3 0.50 (1)</td><td>4.91</td><td>10-5</td><td>0 / 505</td><td>0.11 (1)</td></tr><tr><td>5-6</td><td>-1168 / 0</td><td>-77.3</td><td>-77.3 0.50 (1)</td><td>5.24</td><td>8-5</td><td>-67 / 73</td><td>0.03 (1)</td></tr><tr><td>12-2</td><td>-1157 / 0</td><td>0.0</td><td>0.0 0.12 (1)</td><td>7.40</td><td>2-11</td><td>0 / 988</td><td>0.22 (1)</td></tr><tr><td>7-6</td><td>-1051 / 0</td><td>0.0</td><td>0.0 0.11 (1)</td><td>7.68</td><td>8-6</td><td>0 / 988</td><td>0.22 (1)</td></tr><tr><td>12-11</td><td>0 / 0</td><td>-17.5</td><td>-17.5 0.14 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>11-10</td><td>0 / 969</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>10-9</td><td>0 / 969</td><td>-17.5</td><td>-17.5 0.24 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>9-8</td><td>0 / 969</td><td>-17.5</td><td>-17.5 0.24 (1)</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 0.14 (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	UPLIFT	IN-SX	IN-SX	12	1197	0	1197	0	0	5-8	5-8	7	1091	0	1091	0	0	5-8	5-8	JT	1ST LCASE COMBINED	MAX. SNOW	MIN. LIVE	COMPONENT PERM. LIVE	WIND	DEAD	SOIL	12	838	599 / 0	0 / 0	0 / 0	0 / 0	238 / 0	0 / 0	7	765	535 / 0	0 / 0	0 / 0	0 / 0	230 / 0	0 / 0	CHORDS				WEBS				MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	FR-TO		FROM	TO	FR-TO		FROM	TO	1-2	0 / 29	-77.3	-77.3 0.10 (1)	10.00	11-3	-67 / 73	0.03 (1)	2-3	-1168 / 0	-77.3	-77.3 0.50 (1)	5.24	3-10	0 / 505	0.11 (1)	3-4	-1358 / 0	-77.3	-77.3 0.50 (1)	4.91	10-4	-554 / 0	0.22 (1)	4-5	-1358 / 0	-77.3	-77.3 0.50 (1)	4.91	10-5	0 / 505	0.11 (1)	5-6	-1168 / 0	-77.3	-77.3 0.50 (1)	5.24	8-5	-67 / 73	0.03 (1)	12-2	-1157 / 0	0.0	0.0 0.12 (1)	7.40	2-11	0 / 988	0.22 (1)	7-6	-1051 / 0	0.0	0.0 0.11 (1)	7.68	8-6	0 / 988	0.22 (1)	12-11	0 / 0	-17.5	-17.5 0.14 (4)	10.00				11-10	0 / 969	-17.5	-17.5 0.23 (1)	10.00				10-9	0 / 969	-17.5	-17.5 0.24 (1)	10.00				9-8	0 / 969	-17.5	-17.5 0.24 (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 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 (0.77") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05") ALLOWABLE DEFL.(TL)= L/360 (0.77") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.08") CSI: TC=0.50 (3-4:1) , BC=0.24 (8-10:1) , WB=0.22 (6-8:1) , SSI=0.22 (3-4:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 822 2284 1656 PLATE PLACEMENT TOL. = 0.250 inches									
	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG																																																																																																																																																																																																						
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX																																																																																																																																																																																																			
12	1197	0	1197	0	0	5-8	5-8																																																																																																																																																																																																			
7	1091	0	1091	0	0	5-8	5-8																																																																																																																																																																																																			
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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																																																																																																																																																																																																			
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2-3	-1168 / 0	-77.3	-77.3 0.50 (1)	5.24	3-10	0 / 505	0.11 (1)																																																																																																																																																																																																			
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7-6	-1051 / 0	0.0	0.0 0.11 (1)	7.68	8-6	0 / 988	0.22 (1)																																																																																																																																																																																																			
12-11	0 / 0	-17.5	-17.5 0.14 (4)	10.00																																																																																																																																																																																																						
11-10	0 / 969	-17.5	-17.5 0.23 (1)	10.00																																																																																																																																																																																																						
10-9	0 / 969	-17.5	-17.5 0.24 (1)	10.00																																																																																																																																																																																																						
9-8	0 / 969	-17.5	-17.5 0.24 (1)	10.00																																																																																																																																																																																																						
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TOTAL WEIGHT = 100 lb
[M][F]

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMVW-t	MT20	4.0	5.0	1.75 2.00
3	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 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							
JT	1ST LCASE	MAX/MIN.	COMPONENT	REACTIONS			
14	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 = 5.69 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		W E B S	
MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED UNBRAC LENGTH (FR-TO)
FR-TO			
1-2	0 / 29	-77.3 -77.3	0.10 (1) 10.00
2-3	-1167 / 0	-77.3 -77.3	0.20 (1) 5.69
3-4	-1022 / 0	-77.3 -77.3	0.19 (1) 5.98
4-5	-815 / 0	-77.3 -77.3	0.33 (1) 6.25
5-6	-998 / 0	-77.3 -77.3	0.17 (1) 6.06
6-7	-1067 / 0	-77.3 -77.3	0.17 (1) 5.91
14-2	-1139 / 0	0.0 0.0	0.12 (1) 7.45
8-7	-1035 / 0	0.0 0.0	0.11 (1) 7.72
14-13	0 / 0	-17.5 -17.5	0.07 (4) 10.00
13-12	0 / 988	-17.5 -17.5	0.21 (1) 10.00
12-11	0 / 834	-17.5 -17.5	0.18 (1) 10.00
11-10	0 / 905	-17.5 -17.5	0.20 (1) 10.00
10-9	0 / 905	-17.5 -17.5	0.20 (1) 10.00
9-8	0 / 0	-17.5 -17.5	0.06 (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=0.33 (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.

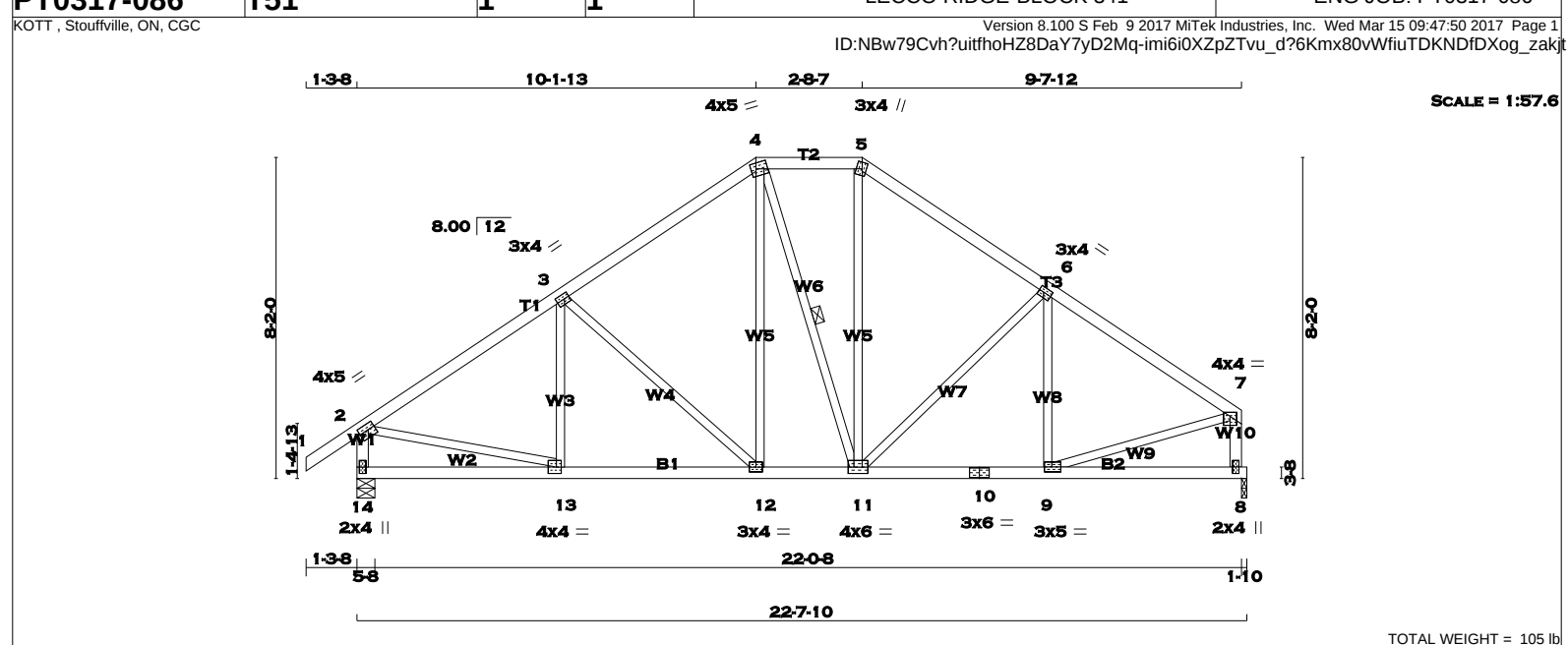
JSI GRIP= 0.88 (9) (INPUT = 0.90)
JSI METAL= 0.40 (2) (INPUT = 1.00)



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BUILDING DIVISION

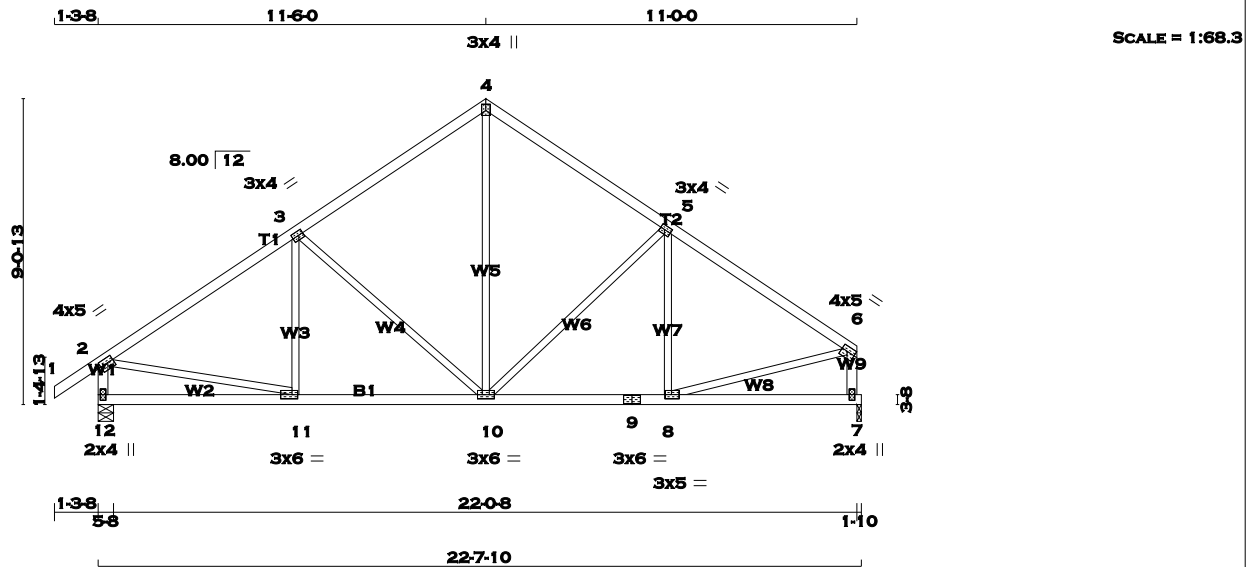
READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER				DESIGN CRITERIA			
CHORDS	SIZE	LUMBER	DESCR.	BEARINGS				SPECIFIED LOADS:			
1 - 4	2x4	DRY	No.2	FACTORED	MAXIMUM FACTORED	INPUT	REQRD	TOP CH.	LL =	23.3	PSF
4 - 5	2x4	DRY	No.2	GROSS REACTION	GROSS REACTION	BRG	BRG	DL =	3.0	PSF	
5 - 7	2x4	DRY	No.2	JT VERT	DOWN	HORZ	UPLIFT	BOT CH.	LL =	0.0	PSF
14 - 2	2x4	DRY	No.2	14	1173	0	1173	DL =	7.0	PSF	
8 - 7	2x4	DRY	No.2	8	1067	0	1067	TOTAL LOAD =	33.3	PSF	
14 - 10	2x4	DRY	No.2	UNFACTORED REACTIONS				SPACING = 24.0 IN./C/C			
10 - 8	2x4	DRY	No.2	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS		LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12			
ALL WEBS 2x3 DRY EXCEPT				JT COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
DRY: SEASONED LUMBER.				14	821	588 / 0	0 / 0	0 / 0	233 / 0	0 / 0	
				8	749	524 / 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)							THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 27.2 P.S.F. G.S.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 <table><tr><td>PLATE</td><td>GRIP(DRY)</td><td>SHEAR</td><td>SECTION</td></tr><tr><td></td><td>(PSI)</td><td>(PLI)</td><td>(PLI)</td></tr><tr><td></td><td>MAX</td><td>MIN</td><td>MAX</td></tr><tr><td>MT20</td><td>618</td><td>354</td><td>1667</td></tr><tr><td></td><td>822</td><td>2284</td><td>1656</td></tr></table> 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)							PLATE	GRIP(DRY)	SHEAR	SECTION		(PSI)	(PLI)	(PLI)		MAX	MIN	MAX	MT20	618	354	1667		822	2284	1656																																																																																																																																																																																																																														
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PLATES (table is in inches) <table><tr><td>JT</td><td>TYPE</td><td>PLATES</td><td>W</td><td>LEN</td><td>Y</td><td>X</td></tr><tr><td>2</td><td>TMVW-t</td><td>MT20</td><td>4.0</td><td>5.0</td><td>1.75</td><td>2.00</td></tr><tr><td>3</td><td>TMVW-t</td><td>MT20</td><td>3.0</td><td>4.0</td><td>1.50</td><td>1.50</td></tr><tr><td>4</td><td>TTWW-m</td><td>MT20</td><td>4.0</td><td>5.0</td><td>1.75</td><td>1.50</td></tr><tr><td>5</td><td>TTW+m</td><td>MT20</td><td>3.0</td><td>4.0</td><td>2.00</td><td>1.25</td></tr><tr><td>6</td><td>TMVW-t</td><td>MT20</td><td>3.0</td><td>4.0</td><td>1.50</td><td>1.50</td></tr><tr><td>7</td><td>TMVW-p</td><td>MT20</td><td>4.0</td><td>4.0</td><td>1.25</td><td>2.00</td></tr><tr><td>8</td><td>BMV1+p</td><td>MT20</td><td>2.0</td><td>4.0</td><td></td><td></td></tr><tr><td>9</td><td>BMVW-t</td><td>MT20</td><td>3.0</td><td>5.0</td><td>1.50</td><td>2.25</td></tr><tr><td>10</td><td>BS-t</td><td>MT20</td><td>3.0</td><td>6.0</td><td></td><td></td></tr><tr><td>11</td><td>BMVW-t</td><td>MT20</td><td>4.0</td><td>6.0</td><td></td><td></td></tr><tr><td>12</td><td>BMVW-t</td><td>MT20</td><td>3.0</td><td>4.0</td><td></td><td></td></tr><tr><td>13</td><td>BMVW-t</td><td>MT20</td><td>4.0</td><td>4.0</td><td>2.00</td><td>1.50</td></tr><tr><td>14</td><td>BMV1+p</td><td>MT20</td><td>2.0</td><td>4.0</td><td></td><td></td></tr></table> A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.							JT	TYPE	PLATES	W	LEN	Y	X	2	TMVW-t	MT20	4.0	5.0	1.75	2.00	3	TMVW-t	MT20	3.0	4.0	1.50	1.50	4	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	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			<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. FACTORED LC1 MAX (LC)</th><th>MEMB.</th><th>MAX. FACTORED FORCE (LBS)</th><th>MAX. FACTORED UNBRAC LENGTH (FR-TO)</th><th>MEMB.</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>1- 2</td><td>0 / 29</td><td>-77.3 -77.3</td><td>0.10 (1)</td><td>10.00</td><td>13- 3</td><td>-106 / 56</td><td>0.04 (1)</td></tr><tr><td>2- 3</td><td>-1177 / 0</td><td>-77.3 -77.3</td><td>0.28 (1)</td><td>5.57</td><td>3-12</td><td>-329 / 0</td><td>0.28 (1)</td></tr><tr><td>3- 4</td><td>-936 / 0</td><td>-77.3 -77.3</td><td>0.26 (1)</td><td>6.08</td><td>12- 4</td><td>0 / 278</td><td>0.06 (1)</td></tr><tr><td>4- 5</td><td>-752 / 0</td><td>-77.3 -77.3</td><td>0.08 (1)</td><td>6.25</td><td>4-11</td><td>-22 / 0</td><td>0.01 (1)</td></tr><tr><td>5- 6</td><td>-926 / 0</td><td>-77.3 -77.3</td><td>0.24 (1)</td><td>6.14</td><td>11- 5</td><td>0 / 260</td><td>0.06 (1)</td></tr><tr><td>6- 7</td><td>-1090 / 0</td><td>-77.3 -77.3</td><td>0.25 (1)</td><td>5.77</td><td>11- 6</td><td>-250 / 0</td><td>0.21 (1)</td></tr><tr><td>14- 2</td><td>-1136 / 0</td><td>0.0 0.0</td><td>0.12 (1)</td><td>7.45</td><td>9- 6</td><td>-171 / 32</td><td>0.06 (1)</td></tr><tr><td>8- 7</td><td>-1031 / 0</td><td>0.0 0.0</td><td>0.11 (1)</td><td>7.73</td><td>2-13</td><td>0 / 1022</td><td>0.23 (1)</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>9- 7</td><td>0 / 965</td><td>0.22 (1)</td></tr><tr><td>14-13</td><td>0 / 0</td><td>-17.5 -17.5</td><td>0.12 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>13-12</td><td>0 / 1000</td><td>-17.5 -17.5</td><td>0.22 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>12-11</td><td>0 / 759</td><td>-17.5 -17.5</td><td>0.15 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>11-10</td><td>0 / 927</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 / 927</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>9- 8</td><td>0 / 0</td><td>-17.5 -17.5</td><td>0.10 (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. FACTORED LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED UNBRAC LENGTH (FR-TO)	MEMB.	FR-TO		FROM TO		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			
JT	TYPE	PLATES	W	LEN	Y	X																																																																																																																																																																																																																																																									
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TOTAL WEIGHT = 97 lb

<u>LUMBER</u>				
N. L. G. A. RULES			LUMBER	DESCR.
CHORDS	SIZE			
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
12 - 2	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
12 - 9	2x4	DRY	No.2	SPF
9 - 7	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	5.0	1.75	2.00
3	TMVW-t	MT20	3.0	4.0	1.50	1.50
4	TTW+p	MT20	3.0	4.0	2.25	1.50
5	TMVW-t	MT20	3.0	4.0	1.50	1.50
6	TMVW-t	MT20	4.0	5.0	1.75	Edge
7	BMV1+p	MT20	2.0	4.0		
8	BMVW-t	MT20	3.0	5.0	1.50	2.25
9	BS-t	MT20	3.0	6.0		
10	BMVWWW-t	MT20	3.0	6.0		
11	BMVW-t	MT20	3.0	6.0	1.50	2.00
12	BMV1+p	MT20	2.0	4.0		

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

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

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER			AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER					
BEARINGS			FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT UPLIFT	REQ'D BRG IN-SX
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
12	1173	0	1173	0	0	5-8	5-8	
7	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
7	749	524 / 0	0 / 0	0 / 0	0 / 0	225 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.46 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY
APPLIED.

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

LOADING

TOTAL LOAD CASES: (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 / 29	-77.3	-77.3	0.10 (1)	10.00	11-3	-73 / 74 0.03 (1)		
2-3	-1172 / 0	-77.3	-77.3	0.36 (1)	5.46	3-10	-413 / 0 0.47 (1)		
3-4	-860 / 0	-77.3	-77.3	0.34 (1)	6.15	10-4	0 / 600 0.14 (1)		
4-5	-859 / 0	-77.3	-77.3	0.31 (1)	6.21	10-5	-340 / 0 0.37 (1)		
5-6	-1097 / 0	-77.3	-77.3	0.32 (1)	5.65	8-5	-130 / 53 0.06 (1)		
12-2	-1131 / 0	0.0	0.0	0.12 (1)	7.46	2-11	0 / 1017 0.23 (1)		
7-6	-1026 / 0	0.0	0.0	0.11 (1)	7.74	8-6	0 / 965 0.22 (1)		
12-11	0 / 0	-17.5	-17.5	0.14 (4)	10.00				
11-10	0 / 1000	-17.5	-17.5	0.23 (1)	10.00				
10-9	0 / 936	-17.5	-17.5	0.21 (1)	10.00				
9-8	0 / 936	-17.5	-17.5	0.21 (1)	10.00				
8-7	0 / 0	-17.5	-17.5	0.13 (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 (0.75")
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)

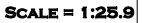


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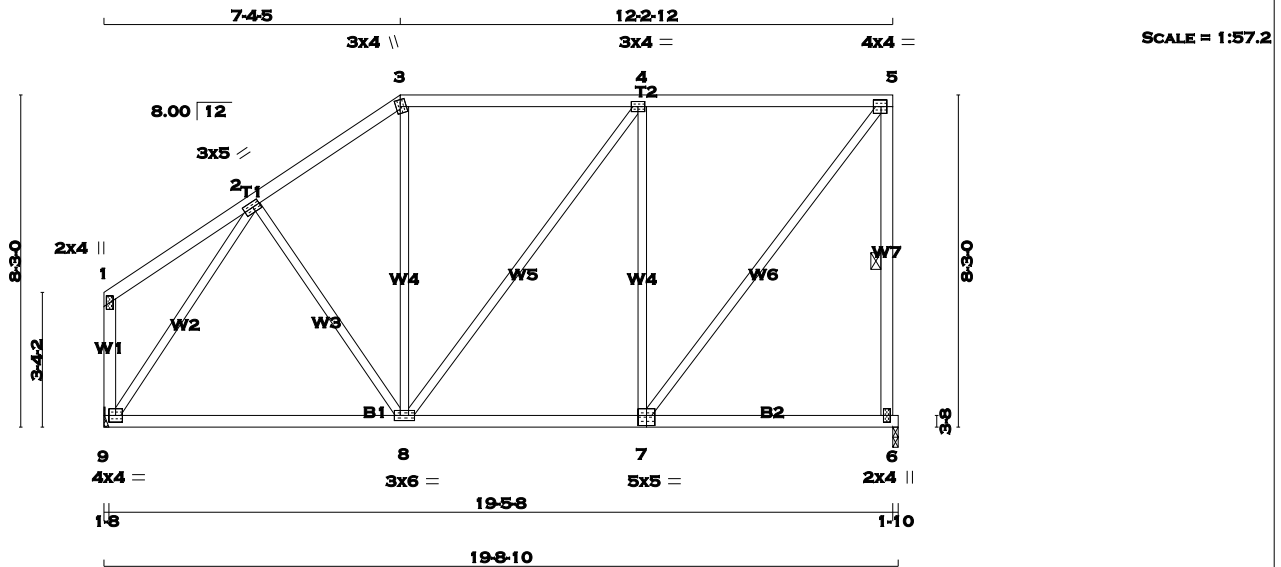
**READ ALL NOTES ON THIS PAGE AND ON THE
ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE
IS AN INTEGRAL PART OF THIS DRAWING AS IT
CONTAINS SPECIFICATIONS AND CRITERIA USED
IN THE DESIGN OF THIS COMPONENT.**





[M][F]





TOTAL WEIGHT = 97 lb
[M]

LUMBER				DESCR.			
N. L. G. A. RULES				BUILDING DESIGNER			
CHORDS	SIZE	LUMBER		BEARINGS			
1 - 3	2x4	DRY	No.2	FACTORED	MAXIMUM FACTORED	INPUT	REQRD
3 - 5	2x4	DRY	No.2	GROSS REACTION	GROSS REACTION	BRG	BRG
6 - 5	2x4	DRY	No.2	JT VERT	DOWN	HORZ	UPLIFT
9 - 1	2x4	DRY	No.2	6 929 0	929 0	0	1-10
9 - 7	2x4	DRY	No.2	9 929 0	929 0	0	1-10
7 - 6	2x4	DRY	No.2				HANGER BY OTHERS
							MIN. SEAT SIZE: 1-8
ALL WEBS	2x3	DRY	No.2	UNFACTORED REACTIONS			
EXCEPT				1ST LCASE	MAX./MIN.	COMPONENT REACTIONS	
				JT COMBINED	SNOW	LIVE	PERM.LIVE
				6 652	456 / 0	0 / 0	0 / 0
				9 652	456 / 0	0 / 0	0 / 0
							DEAD
							196 / 0
							SOIL
							0 / 0

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
1	TMV+p	MT20	2.0	4.0		
2	TMVW-t	MT20	3.0	5.0	1.50	2.25
3	TTW+m	MT20	3.0	4.0	2.00	1.25
4	TMVW-t	MT20	3.0	4.0		
5	TMVW-t	MT20	4.0	4.0	2.00	1.75
6	BMV1+p	MT20	2.0	4.0		
7	BSWW-l	MT20	5.0	5.0	3.00	2.50
8	BSWWW-t	MT20	3.0	6.0		
9	BMVW1-t	MT20	4.0	4.0		

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

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG			
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
6	929	0	929	0	0	1-10	1-10		
9	929	0	929	0	0	HANGER BY OTHERS			
						MIN. SEAT SIZE: 1-8			
UNFACTORED REACTIONS									
JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS							
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
6	652	456 / 0	0 / 0	0 / 0	0 / 0	196 / 0	0 / 0		
9	652	456 / 0	0 / 0	0 / 0	0 / 0	196 / 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.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-6. DBS = 16-0-0 . 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

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 / 18	-77.3 -77.3	0.17 (1)	10.00	2-8	0 / 61	0.02 (4)
2-3	-677 / 0	-77.3 -77.3	0.18 (1)	6.25	8-3	0 / 84	0.03 (4)
3-4	-548 / 0	-77.3 -77.3	0.50 (1)	6.25	8-4	0 / 21	0.01 (4)
4-5	-546 / 0	-77.3 -77.3	0.51 (1)	6.25	7-4	-590 / 0	0.79 (1)
6-5	-883 / 0	0.0 0.0	0.27 (1)	6.25	7-5	0 / 888	0.20 (1)
9-1	-110 / 0	0.0 0.0	0.02 (1)	7.81	9-2	-922 / 0	0.71 (1)
9-8	0 / 515	-17.5 -17.5	0.24 (4)	10.00			
8-7	0 / 546	-17.5 -17.5	0.24 (4)	10.00			
7-6	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 (0.65")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.65")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.10")

CSI: TC=0.51 (4-5:1) , BC=0.24 (7-8:4) , WB=0.79 (4-7:1) , SSI=0.23 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) 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.

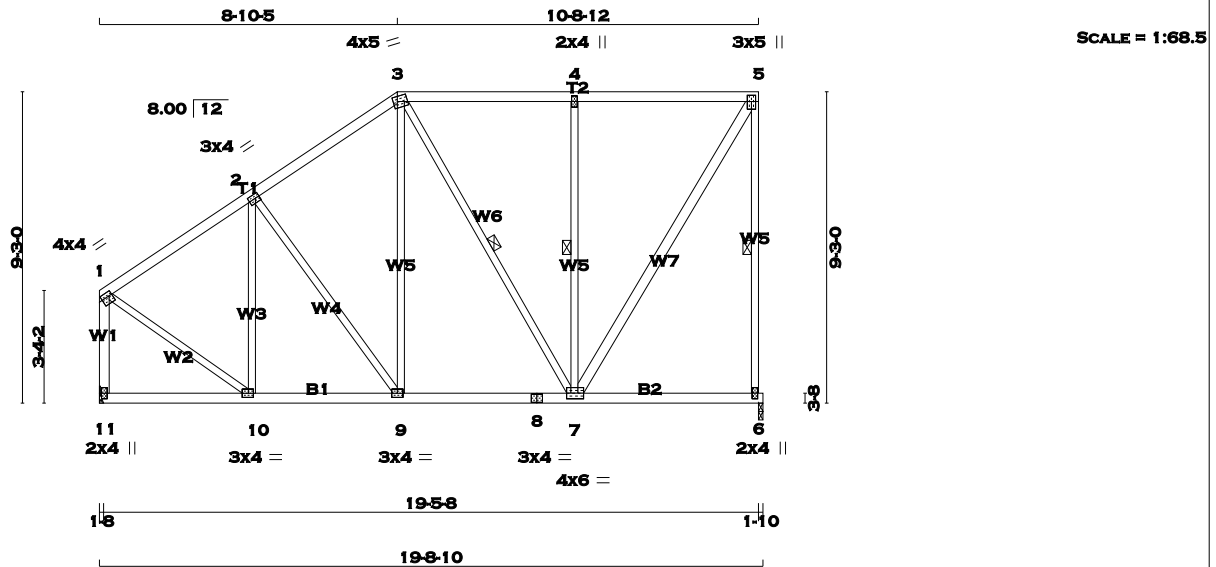
JSI GRIP= 0.89 (7) (INPUT = 0.90)
JSI METAL= 0.26 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 106 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	2x3	DRY	No.2	SPF
11 - 1	2x4	DRY	No.2	SPF
11 - 8	2x4	DRY	No.2	SPF
8 - 6	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
7 - 5	2x4	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	4.0	4.0	1.50	1.00
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	TMW+w	MT20	2.0	4.0		
5	TMVW+p	MT20	3.0	5.0	2.25	1.50
6	BMV1+p	MT20	2.0	4.0		
7	BMVWW-t	MT20	4.0	6.0	2.00	1.50
8	BS-t	MT20	3.0	4.0		
9	BMVW-t	MT20	3.0	4.0		
10	BMVW-t	MT20	3.0	4.0	1.50	1.75
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

FACTORED			MAXIMUM FACTORED			INPUT	REQRD
GROSS REACTION			GROSS REACTION			BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
6	929	0	929	0	0	1-10	1-10
11	929	0	929	0	0	HANGER BY OTHERS	
MIN. SEAT SIZE: 1-8							

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN.	COMPONENT	REACTIONS			
6	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
6	652	456 / 0	0 / 0	0 / 0	0 / 0	196 / 0	0 / 0
11	652	456 / 0	0 / 0	0 / 0	0 / 0	196 / 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.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-6. DBS = 16-0-0 . CBF = 89 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 3-7, 4-7. 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)									
CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED MAX CSI (LC)		
FR-TO		FROM TO			FR-TO				
1-2	-663 / 0	-77.3	-77.3	0.27 (1)	6.25	10-2	-294 / 0	0.19 (1)	
2-3	-632 / 0	-77.3	-77.3	0.26 (1)	6.25	2-9	-111 / 0	0.12 (1)	
3-4	-444 / 0	-77.3	-77.3	0.38 (1)	6.25	9-3	0 / 168	0.04 (1)	
4-5	-444 / 0	-77.3	-77.3	0.38 (1)	6.25	3-7	-125 / 0	0.10 (1)	
6-5	-890 / 0	0.0	0.0	0.50 (1)	5.76	7-4	-514 / 0	0.29 (1)	
11-1	-896 / 0	0.0	0.0	0.17 (1)	7.81	7-5	0 / 852	0.14 (1)	
						1-10	0 / 686	0.15 (1)	
11-10	0 / 0	-17.5	-17.5	0.08 (4)	10.00				
10-9	0 / 571	-17.5	-17.5	0.14 (1)	10.00				
9-8	0 / 507	-17.5	-17.5	0.16 (4)	10.00				
8-7	0 / 507	-17.5	-17.5	0.16 (4)	10.00				
7-6	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

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 (0.65")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.65")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")

CSI: TC=0.50 (5-6:1) , BC=0.16 (7-9:4) , WB=0.29 (4-7:1) , 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

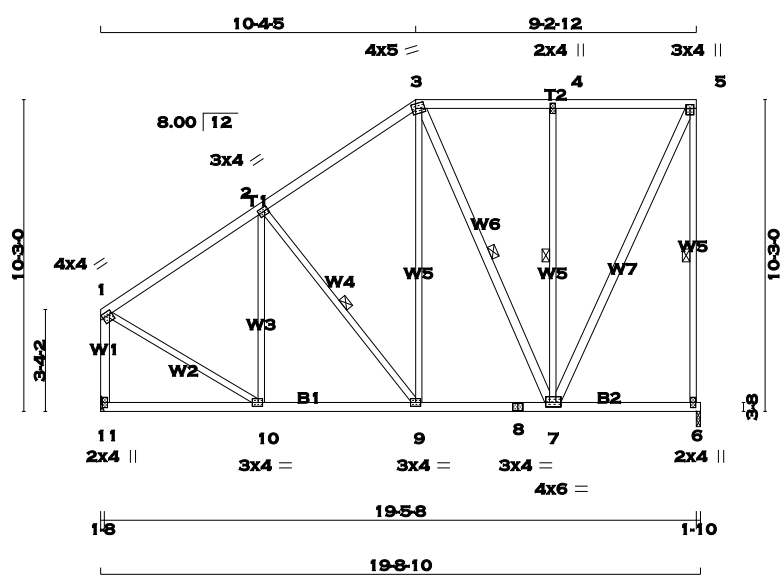
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (10) (INPUT = 0.90)
JSI METAL= 0.29 (1) (INPUT = 1.00)

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





TOTAL WEIGHT = 115 lb
[M][F]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
6 - 5	2x3	DRY	No.2	SPF
11- 1	2x4	DRY	No.2	SPF
11- 8	2x4	DRY	No.2	SPF
8 - 6	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				
3 - 7	2x4	DRY	No.2	SPF
7 - 5	2x4	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	4.0	4.0	1.50	1.00
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	TMW+w	MT20	2.0	4.0		
5	TMVW+p	MT20	3.0	4.0	1.50	1.50
6	BMV1+p	MT20	2.0	4.0		
7	BMVWV-t	MT20	4.0	6.0	1.75	1.50
8	BS-t	MT20	3.0	4.0		
9	BMVW-t	MT20	3.0	4.0		
10	BMVW-t	MT20	3.0	4.0	1.50	1.75
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								
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQRD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
6	929	0	929	0	0	1-10	1-10	
11	929	0	929	0	0	HANGER BY OTHERS		
MIN. SEAT SIZE: 1-8								

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN.	SNOW	LIVE	PERM.LIVE	WIND	DEAD
6	652	456 / 0	0 / 0	0 / 0	0 / 0	0 / 0	196 / 0
11	652	456 / 0	0 / 0	0 / 0	0 / 0	0 / 0	196 / 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.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-6. DBS = 16-0-0 . CBF = 89 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 2-9, 3-7, 4-7. DBS = 20-0-0 . CBF = 55 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)	LC1 MAX	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRAC LENGTH	CS1 (LC)	CS2 (LC)
FR-TO		FROM TO			FR-TO				
1-2	-686 / 0	-77.3 -77.3	0.27 (1)	6.25	10-2	-235 / 19	0.19 (1)		
2-3	-577 / 0	-77.3 -77.3	0.27 (1)	6.25	2-9	-221 / 0	0.10 (1)		
3-4	-357 / 0	-77.3 -77.3	0.21 (1)	6.25	9-3	0 / 252	0.06 (1)		
4-5	-357 / 0	-77.3 -77.3	0.21 (1)	6.25	3-7	-247 / 0	0.16 (1)		
6-5	-894 / 0	0.0 0.0	0.65 (1)	5.75	7-4	-441 / 0	0.32 (1)		
11-1	-892 / 0	0.0 0.0	0.17 (1)	7.81	7-5	0 / 833	0.13 (1)		
					1-10	0 / 684	0.15 (1)		
11-10	0 / 0	-17.5 -17.5	0.12 (4)	10.00					
10-9	0 / 593	-17.5 -17.5	0.16 (4)	10.00					
9-8	0 / 459	-17.5 -17.5	0.12 (4)	10.00					
8-7	0 / 459	-17.5 -17.5	0.12 (4)	10.00					
7-6	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				

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 (0.65")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.65")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")

CSI: TC=0.65 (5-6:1) , BC=0.16 (9-10:4) , WB=0.32 (4-7:1) , 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
MT20	618	354	1667	822	2284

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

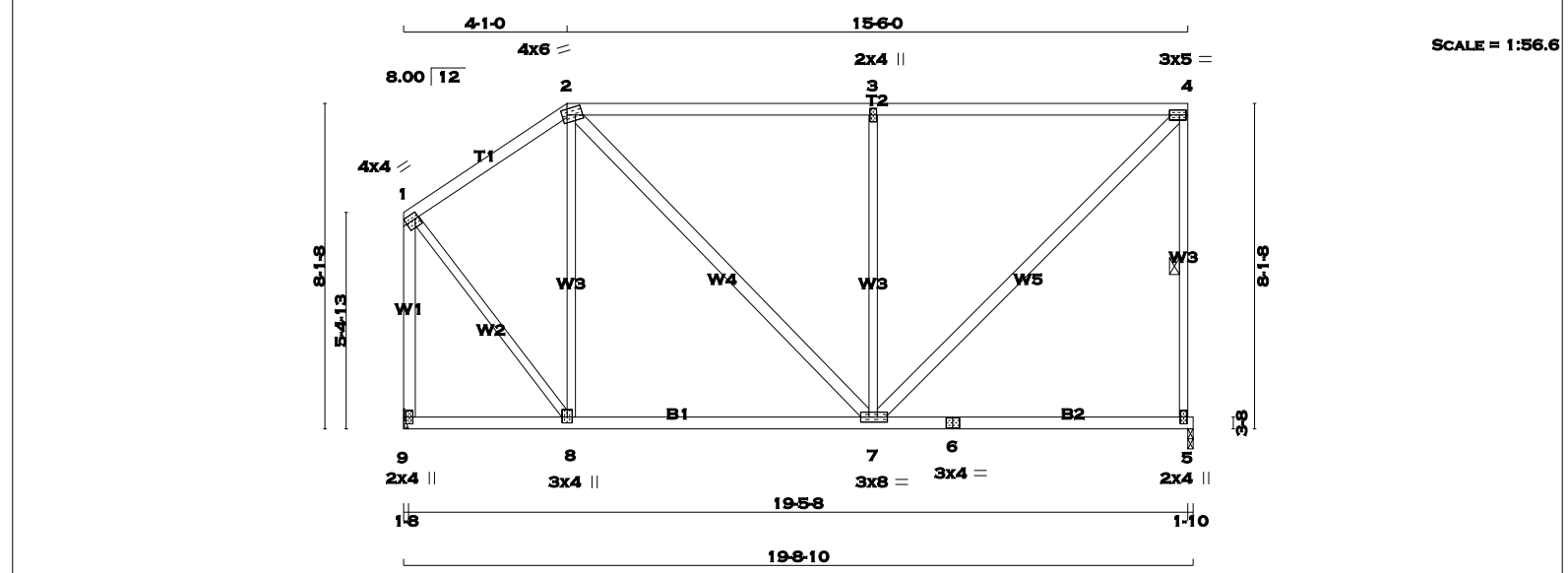
JSI GRIP= 0.90 (10) (INPUT = 0.90)
JSI METAL= 0.30 (1) (INPUT = 1.00)



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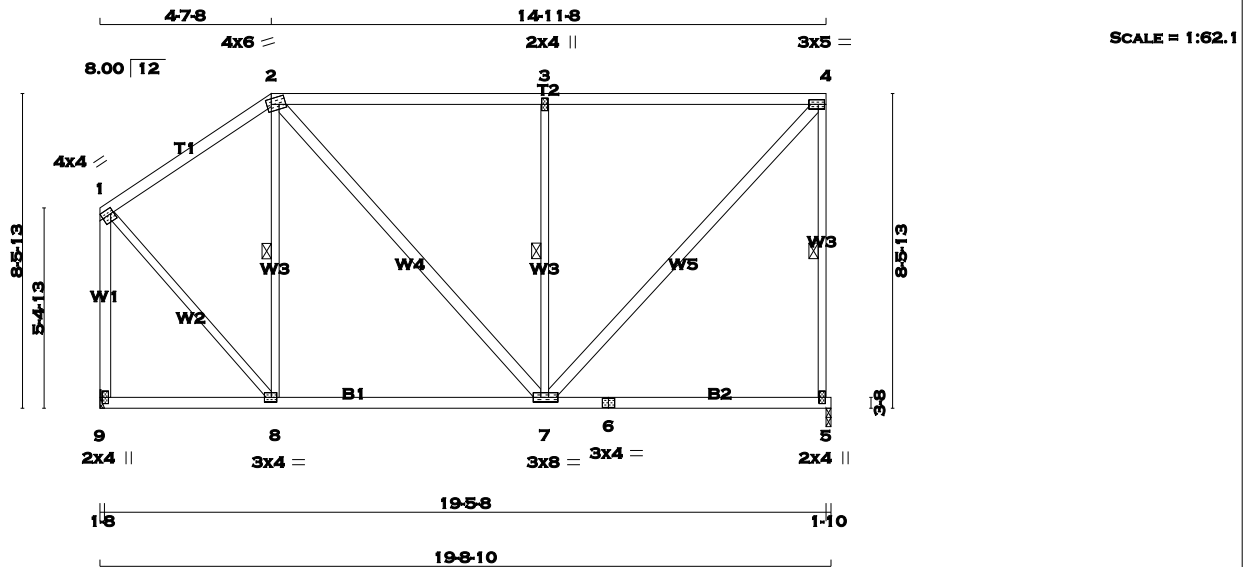
READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR.					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA										TOTAL WEIGHT = 99 lb [M]										
1 - 2	2x4	DRY	No.2	SPF	BEARINGS										SPECIFIED LOADS:																				
2 - 4	2x4	DRY	No.2	SPF	FACTORED MAXIMUM FACTORED INPUT REQD										TOP CH. LL = 23.3 PSF																				
5 - 4	2x3	DRY	No.2	SPF	GROSS REACTION GROSS REACTION										DL = 3.0 PSF																				
9 - 1	2x4	DRY	No.2	SPF	JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	BOT CH. LL = 0.0 PSF																						
9 - 6	2x4	DRY	No.2	SPF	5	929	0	929	0	0	1-10	1-10	DL = 7.0 PSF																						
6 - 5	2x4	DRY	No.2	SPF	9	929	0	929	0	0	HANGER BY OTHERS										TOTAL LOAD = 33.3 PSF														
															MIN. SEAT SIZE: 1-8																				
ALL WEBS EXCEPT					2x3	DRY	No.2	SPF	UNFACTORED REACTIONS										SPACING = 24.0 IN. C/C																
2 - 7	2x4	DRY	No.2	SPF	1ST LCASE MAX./MIN. COMPONENT REACTIONS										LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12																				
7 - 4	2x4	DRY	No.2	SPF	JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	THIS TRUSS IS DESIGNED FOR RESIDENTIAL																						
					5	652	456 / 0	0 / 0	0 / 0	0 / 0	196 / 0	0 / 0																							
DRY: SEASONED LUMBER.					9	652	456 / 0	0 / 0	0 / 0	0 / 0	196 / 0	0 / 0																							

PLATES (table is in inches)				BRACING				ALLOWABLE DEFL.(LL)= L/360 (0.65")			
JT	TYPE	PLATES	W LEN Y X	TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.35 FT.				CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")			
1	TMVW-t	MT20	4.0 4.0 1.75 Edge	MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.				ALLOWABLE DEFL.(TL)= L/360 (0.65")			
2	TTWW-m	MT20	4.0 6.0 1.75 1.50	ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.				CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11")			
3	TMW+w	MT20	2.0 4.0	1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-5. DBS = 16-0-0 . CBF = 87 LBS.				CSI: TC=0.85 (3-4:1) , BC=0.30 (7-8:4) , WB=0.95 (3-7:1) , SSI=0.29 (3-4:1)			
4	TMVW-t	MT20	3.0 5.0 1.50 2.00	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.				DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10			
5	BMV1+p	MT20	2.0 4.0	END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW				COMPANION LIVE LOAD FACTOR = 0.50			
6	BS-t	MT20	3.0 4.0	LOADING				TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .			
7	BMWWW-t	MT20	3.0 8.0 1.50 2.50	TOTAL LOAD CASES: (4)				NAIL VALUES			
8	BMWW-t	MT20	3.0 4.0 1.75 1.50	C H O R D S				PLATE GRIP(DRY) SHEAR SECTION			
9	BMV1+p	MT20	2.0 4.0	MAX. FACTORED FORCE (LBS)				(PSI) (PLI) (PLI)			
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.				FACTORED VERT. LOAD LC1 MAX				MAX MIN MAX MIN MAX MIN			
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.				MEMB. UNBRAC LENGTH				MT20 618 354 1667 822 2284 1656			
				FR-TO FROM TO				PLATE PLACEMENT TOL. = 0.250 inches			
				1-2 -478 / 0 -77.3 -77.3 0.23 (1) 6.25 8-2 -372 / 0 0.47 (1)				PLATE ROTATION TOL. = 5.0 Deg.			
				2-3 -645 / 0 -77.3 -77.3 0.85 (1) 5.35 2-7 0 / 362 0.06 (1)				JSI GRIP= 0.87 (4) (INPUT = 0.90)			
				3-4 -645 / 0 -77.3 -77.3 0.85 (1) 5.35 7-3 -746 / 0 0.95 (1)				JSI METAL= 0.22 (1) (INPUT = 1.00)			
				5-4 -874 / 0 0.0 0.0 0.36 (1) 5.80 7-4 0 / 911 0.15 (1)							
				9-1 -906 / 0 0.0 0.0 0.50 (1) 7.81 1-8 0 / 624 0.14 (1)							
				9-8 0 / 0 -17.5 -17.5 0.13 (4) 10.00							
				8-7 0 / 392 -17.5 -17.5 0.30 (4) 10.00							
				7-6 0 / 0 -17.5 -17.5 0.27 (4) 10.00							
				6-5 0 / 0 -17.5 -17.5 0.27 (4) 10.00							



TOTAL WEIGHT = 101 lb [M]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	X
1	TMVW-t	MT20	4.0	4.0	1.75 Edge
2	TTWW-m	MT20	4.0	6.0	1.75 1.50
3	TMW+w	MT20	2.0	4.0	
4	TMVW-t	MT20	3.0	5.0	1.50 2.00
5	BMV1+p	MT20	2.0	4.0	
6	BS-t	MT20	3.0	4.0	
7	BMVWW-t	MT20	3.0	8.0	1.50 2.50
8	BMVW-t	MT20	3.0	4.0	1.50 1.75
9	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
5		929	0	929	0	0	1-10
9		929	0	929	0	0	1-10

HANGER BY OTHERS
MIN. SEAT SIZE: 1-8

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS				
5	652	456 / 0	0 / 0	0 / 0	0 / 0	196 / 0	0 / 0
9	652	456 / 0	0 / 0	0 / 0	0 / 0	196 / 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 = 5.76 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.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-5. DBS = 16-0-0 . CBF = 88 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 2-8, 3-7. DBS = 20-0-0 . CBF = 90 LBS.

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

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

LOADING							
TOTAL LOAD CASES: (4)							
C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC)	
FR-TO		FROM TO	CSI (LC)	FR-TO		LENGTH	
1-2	-497 / 0	-77.3 -77.3	0.29 (1)	6.25	8-2	-333 / 0	0.15 (1)
2-3	-604 / 0	-77.3 -77.3	0.78 (1)	5.76	2-7	0 / 291	0.05 (1)
3-4	-604 / 0	-77.3 -77.3	0.79 (1)	5.76	7-3	-720 / 0	0.33 (1)
5-4	-875 / 0	0.0 0.0	0.40 (1)	5.79	7-4	0 / 889	0.14 (1)
9-1	-899 / 0	0.0 0.0	0.49 (1)	7.81	1-8	0 / 606	0.14 (1)
9-8	0 / 0	-17.5 -17.5	0.13 (4)	10.00			
8-7	0 / 409	-17.5 -17.5	0.28 (4)	10.00			
7-6	0 / 0	-17.5 -17.5	0.25 (4)	10.00			
6-5	0 / 0	-17.5 -17.5	0.25 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.65")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.65")
CALCULATED VERT. DEFL.(TL) = L/999 (0.09")

CSI: TC=0.79 (3-4:1), BC=0.28 (7-8:4), WB=0.33 (3-7:1), SSI=0.28 (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.

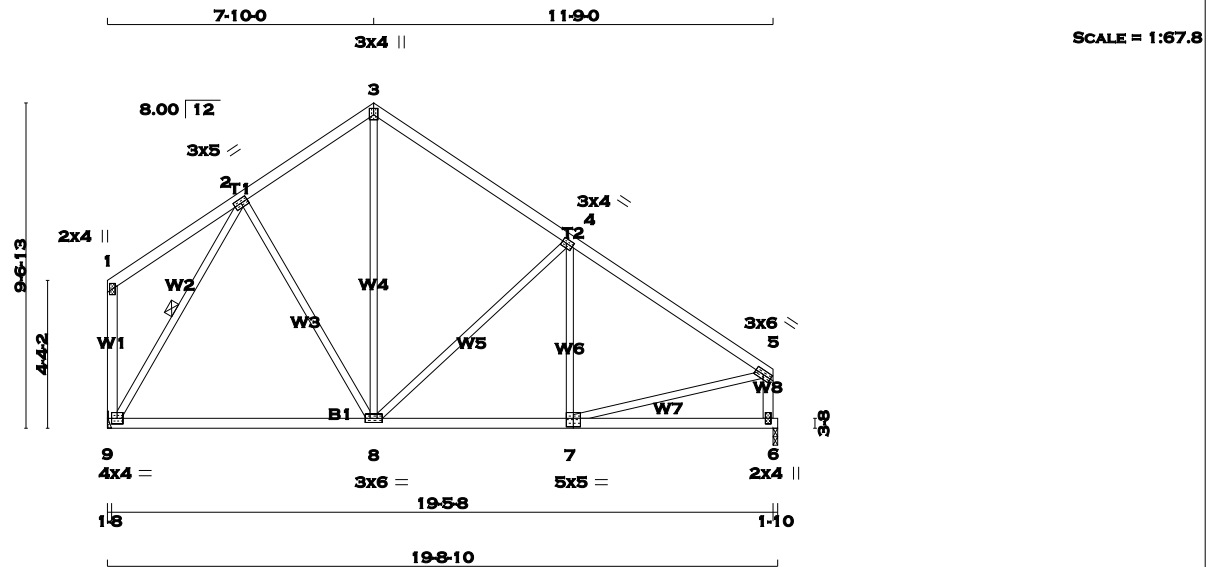
JSI GRIP= 0.90 (8) (INPUT = 0.90)
JSI METAL= 0.22 (1) (INPUT = 1.00)



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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.





TOTAL WEIGHT = 3 X 90 = 270 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	
9 - 1	2x4	DRY	No.2		SPF	
6 - 5	2x4	DRY	No.2		SPF	
9 - 7	2x4	DRY	No.2		SPF	
7 - 6	2x4	DRY	No.2		SPF	

ALL WEBS 2x3 DRY No.2 SPF

EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMV+p	MT20	2.0	4.0		
2	TMVW-t	MT20	3.0	5.0		
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	3.0	6.0		
6	BMV1+p	MT20	2.0	4.0		
7	BSWW-l	MT20	5.0	5.0	3.00	2.50
8	BSWWW-t	MT20	3.0	6.0		
9	BMVW1-t	MT20	4.0	4.0		

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

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

FACTORED GROSS REACTION			MAXIMUM FACTORED GROSS REACTION			INPUT		REQRD	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	BRG	IN-SX	BRG	IN-SX
9	929	0	929	0	0		HANGER BY OTHERS		
							MIN. SEAT SIZE: 1-8		
6	929	0	929	0	0	1-10	1-10		

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS						
9	652	456 / 0	0 / 0	0 / 0	0 / 0	196 / 0	0 / 0		
6	652	456 / 0	0 / 0	0 / 0	0 / 0	196 / 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 = 5.99 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 2-9. DBS = 16-0-0 . 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)	LC1 MAX	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH		
FR-TO		FROM TO			FR-TO				
1-2	0 / 19	-77.3 -77.3	0.19 (1)	10.00	2-8	0 / 69	0.02 (4)		
2-3	-599 / 0	-77.3 -77.3	0.15 (1)	6.25	8-3	0 / 362	0.08 (1)		
3-4	-611 / 0	-77.3 -77.3	0.35 (1)	6.25	8-4	-412 / 0	0.53 (1)		
4-5	-911 / 0	-77.3 -77.3	0.37 (1)	5.99	7-4	-84 / 61	0.04 (1)		
9-1	-118 / 0	0.0 0.0	0.04 (1)	7.81	9-2	-877 / 0	0.34 (1)		
6-5	-884 / 0	0.0 0.0	0.10 (1)	7.81	7-5	0 / 804	0.18 (1)		
9-8	0 / 447	-17.5 -17.5	0.26 (4)	10.00					
8-7	0 / 783	-17.5 -17.5	0.28 (4)	10.00					
7-6	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

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

ALLOWABLE DEFL.(LL)= L/360 (0.65")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.65")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11")

CSI: TC=0.37 (4-5:1) , BC=0.28 (7-8:4) , WB=0.53 (4-8:1) , SSI=0.19 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (8) (INPUT = 0.90)
JSI METAL= 0.26 (5) (INPUT = 1.00)



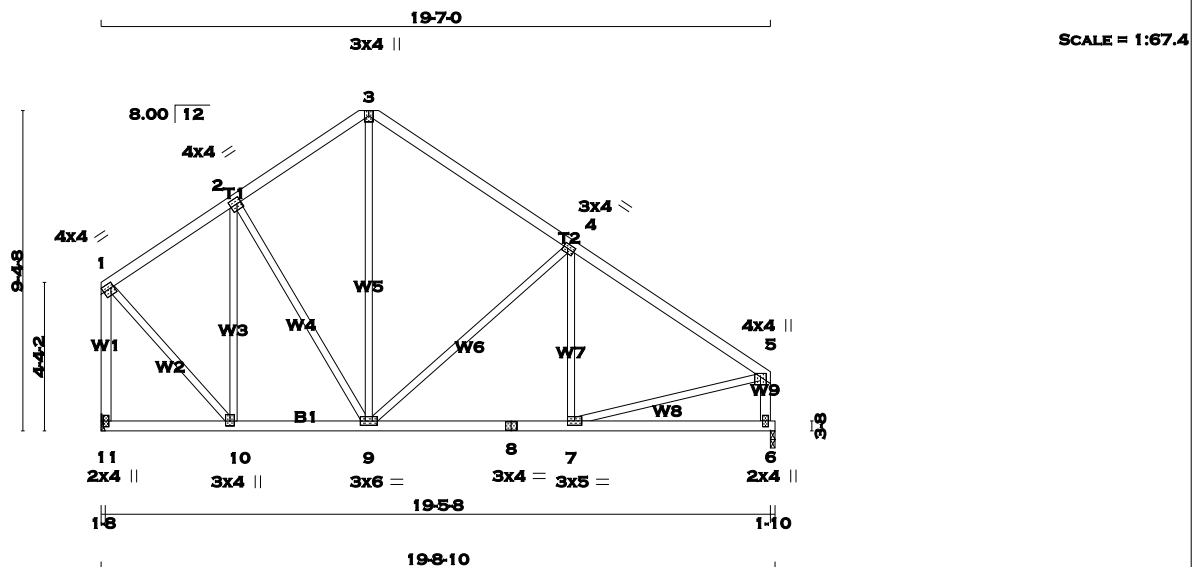
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BUILDING DIVISION

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TOTAL WEIGHT = 93 lb
[M][F]

LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
11 - 1	2x4	DRY	No.2	SPF
6 - 5	2x4	DRY	No.2	SPF
11 - 8	2x4	DRY	No.2	SPF
8 - 6	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	4.0	4.0	1.75	Edge
2	TMVW-t	MT20	4.0	4.0	2.00	1.50
3	TMTMW+p	MT20	3.0	4.0	Edge	
4	TMVW-t	MT20	3.0	4.0	1.50	1.50
5	TMVW+p	MT20	4.0	4.0	1.25	2.00
6	BMV1+p	MT20	2.0	4.0		
7	BMVW-t	MT20	3.0	5.0		
8	BS-t	MT20	3.0	4.0		
9	BMVW-t	MT20	3.0	6.0		
10	BMVW-t	MT20	3.0	4.0	1.75	1.50
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	IN-SX	IN-SX	
11		929	0	929	0	0	HANGER BY OTHERS		
MIN. SEAT SIZE: 1-8									
6		929	0	929	0	0	1-10	1-10	

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN.	COMPONENT	REACTIONS			
11	652	456 / 0	0 / 0	0 / 0	0 / 0	196 / 0	0 / 0
6	652	456 / 0	0 / 0	0 / 0	0 / 0	196 / 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 = 5.98 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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)
FR-TO		FROM TO		FR-TO
1-2	-534 / 0	-77.3 -77.3 0.15 (1)	6.25	10-2 -408 / 0 0.33 (1)
2-3	-591 / 0	-77.3 -77.3 0.15 (1)	6.25	2-9 0 / 28 0.01 (1)
3-4	-602 / 0	-77.3 -77.3 0.35 (1)	6.25	9-4 -422 / 0 0.55 (1)
4-5	-918 / 0	-77.3 -77.3 0.36 (1)	5.98	7-4 -74 / 77 0.04 (1)
11-1	-900 / 0	0.0 0.0 0.29 (1)	7.81	1-10 0 / 665 0.15 (1)
6-5	-888 / 0	0.0 0.0 0.10 (1)	7.81	7-5 0 / 813 0.18 (1)
				9-3 0 / 343 0.08 (1)
11-10	0 / 0	-17.5 -17.5 0.05 (4)	10.00	
10-9	0 / 461	-17.5 -17.5 0.12 (1)	10.00	
9-8	0 / 790	-17.5 -17.5 0.21 (4)	10.00	
8-7	0 / 790	-17.5 -17.5 0.21 (4)	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/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 (0.65")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.65")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.05")

CSI: TC=0.36 (4-5:1) , BC=0.21 (7-9:4) , WB=0.55 (4-9:1) , SSI=0.18 (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.

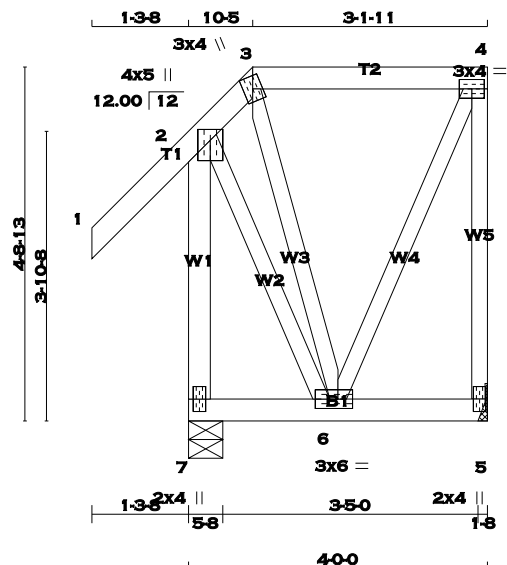
JSI GRIP= 0.89 (10) (INPUT = 0.90)
JSI METAL= 0.24 (5) (INPUT = 1.00)



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SCALE = 1:30.8

TOTAL WEIGHT = 2 X 30 = 59 lb [M]

LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
1 - 3	2x4	DRY	No.2		SPF
3 - 4	2x4	DRY	No.2		SPF
5 - 4	2x3	DRY	No.2		SPF
7 - 2	2x4	DRY	No.2		SPF
7 - 5	2x4	DRY	No.2		SPF
ALL WEBS 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	4.0	5.0	1.75	2.00
3	TTW+m	MT20	3.0	4.0		
4	TMVW-t	MT20	3.0	4.0		
5	BMV1+p	MT20	2.0	4.0		
6	BMVWW-t	MT20	3.0	6.0		
7	BMV1+p	MT20	2.0	4.0		

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	MAXIMUM FACTORED GROSS REACTION	DOWN	HORZ	UPLIFT		
5	171	0	171	0	0	IN-SX	IN-SX
7	316	0	316	0	0	HANGER BY OTHERS	MIN. SEAT SIZE: 1-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	120	82 / 0	0 / 0	0 / 0	0 / 0	39 / 0	0 / 0
7	219	169 / 0	0 / 0	0 / 0	0 / 0	50 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 38	-77.3 -77.3	0.11 (1)	10.00	3-6	-43 / 4	0.01 (1)
2-3	-99 / 0	-77.3 -77.3	0.10 (1)	6.25	6-4	0 / 36	0.01 (4)
3-4	-15 / 0	-77.3 -77.3	0.13 (1)	6.25	2-6	0 / 53	0.01 (1)
5-4	-153 / 0	0.0 0.0	0.08 (1)	7.81			
7-2	-301 / 0	0.0 0.0	0.08 (1)	7.81			
7-6	0 / 0	-17.5 -17.5	0.02 (4)	10.00			
6-5	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

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=0.13 (3-4:1) , BC=0.02 (5-6:4) , WB=0.01 (3-6:1) , 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 (PSI)	SECTION (PLI)	
MAX MIN	MAX MIN	MAX MIN	
MT20	618 354	1667 822	2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.35 (3) (INPUT = 0.90)
JSI METAL= 0.06 (7) (INPUT = 1.00)



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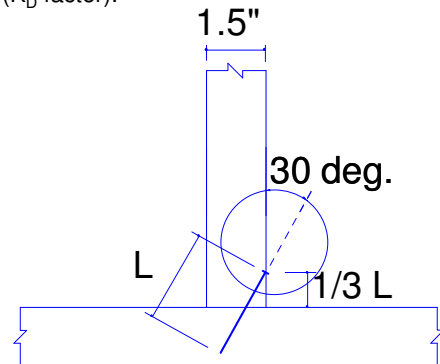
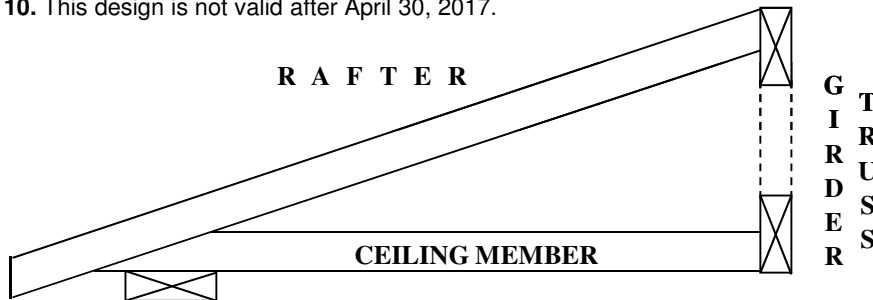
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

B37579H1

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

NOTES:

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



TOE-NAIL INSTALLATION

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



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

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April 24, 2015

BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

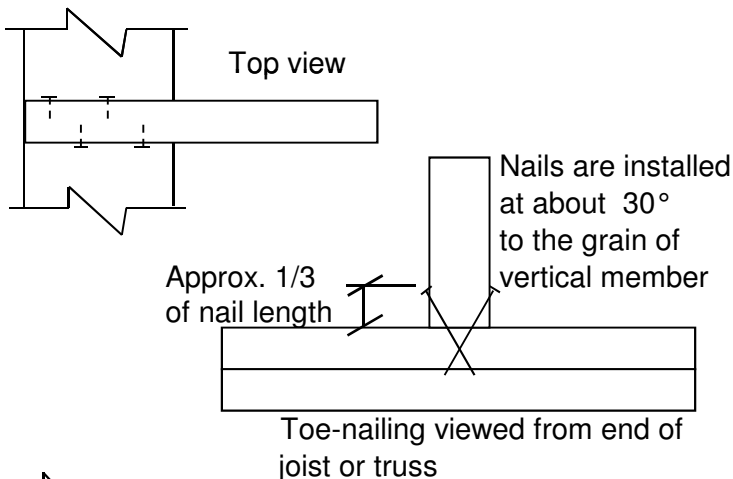
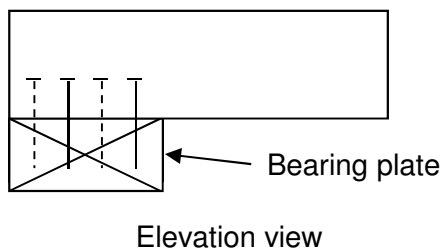
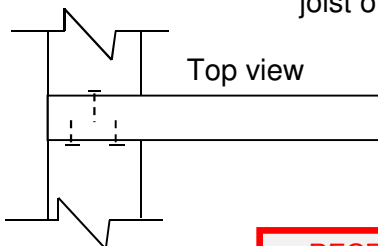
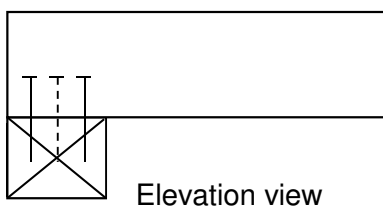
B37579H2

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

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

NOTES:

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

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

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



April 24, 2015

JOB NAME DETAILS

JOB DESC.

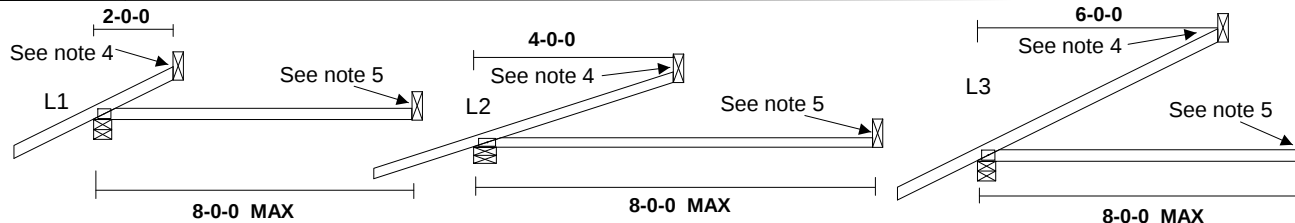
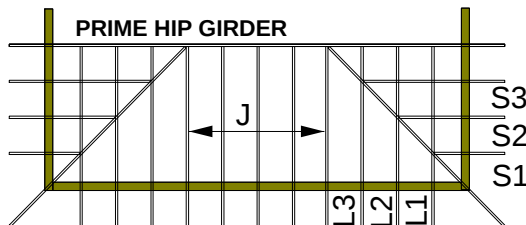
HIP END FRAMING

TOO BRIDGE-BLOCK 341

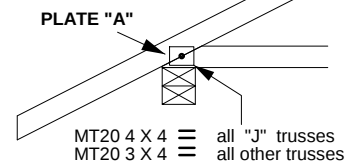
DRAWING NO.

B37579J

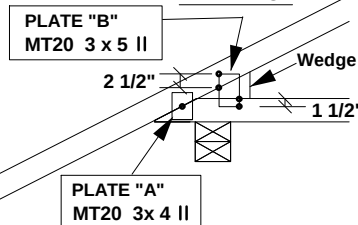
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DETAIL "A"



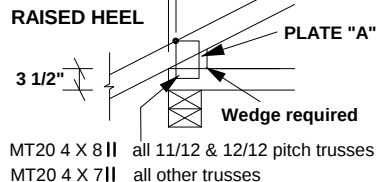
DETAIL "C"



CANTILEVER DETAIL "C"

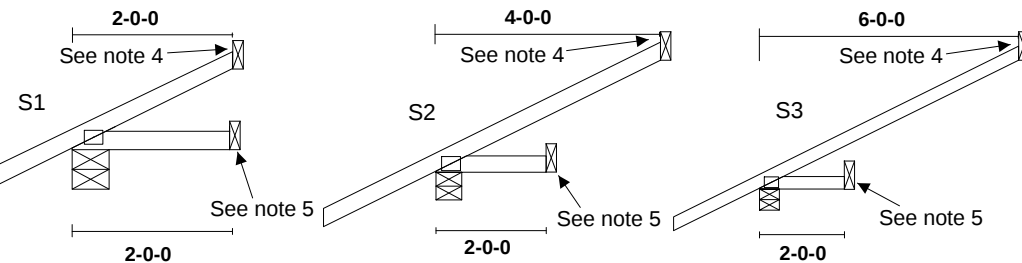
SLOPE	MAX CANTILEVER	PLATE "B"	WEDGE SIZE
3/12	17"	3 X 5	2 X 3
4/12	14"	3 X 5	2 X 3
5/12	12"	3 X 5	2 X 4
6/12	10"	3 X 5	2 X 4
7/12	9"	3 X 5	2 X 6
8/12	8.5"	3 X 5	2 X 6
9/12	8"	3 X 5	2 X 6
10/12	7.5"	3 X 5	2 X 6

DETAIL "B"

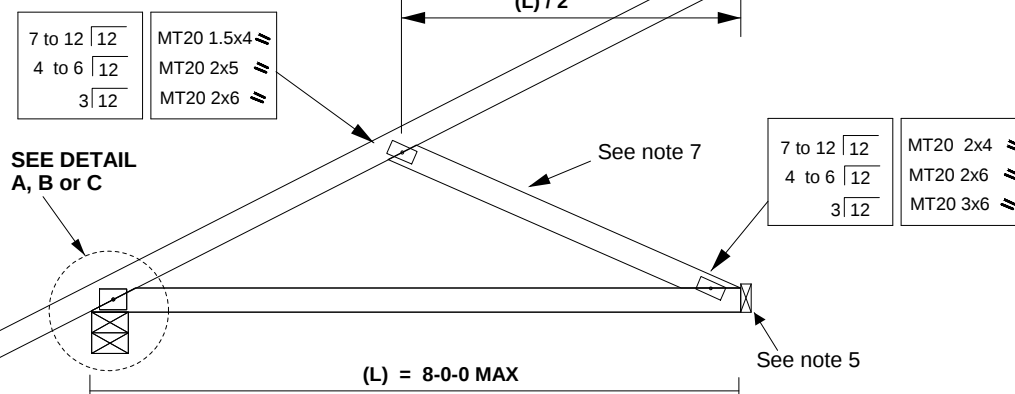


NOTES:

- 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



"J"



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

PEO
Certificate No. 10889485

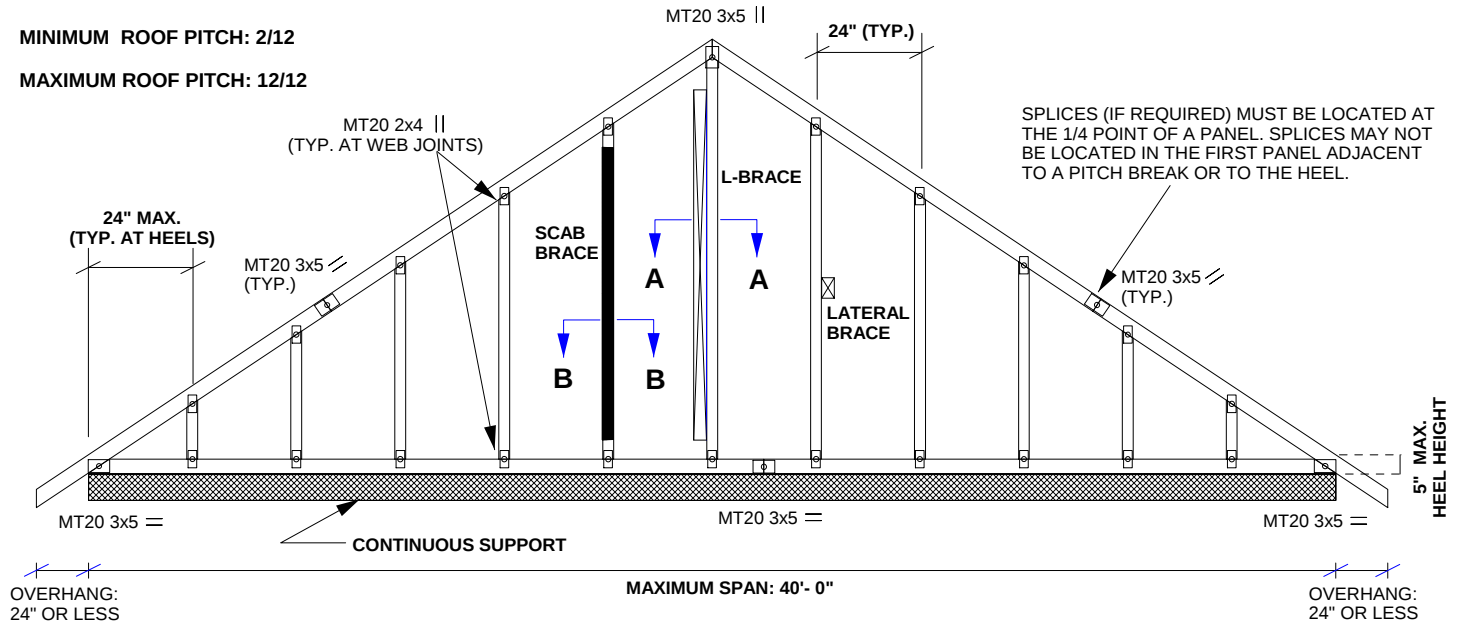


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MINIMUM ROOF PITCH: 2/12

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

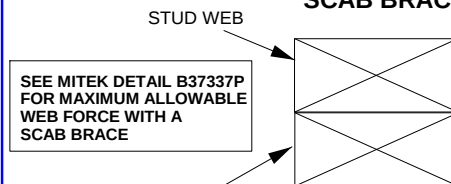
TOTAL LOAD = 73.0 PSF OR LESS

BRACING

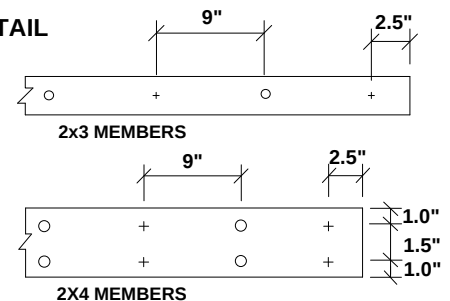
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10 FT. OR RIGID CEILING DIRECTLY APPLIED.
 WEBS MUST BE Laterally Braced, SCAB BRACED OR L-BRACED AS INDICATED IN TABLE BELOW:

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



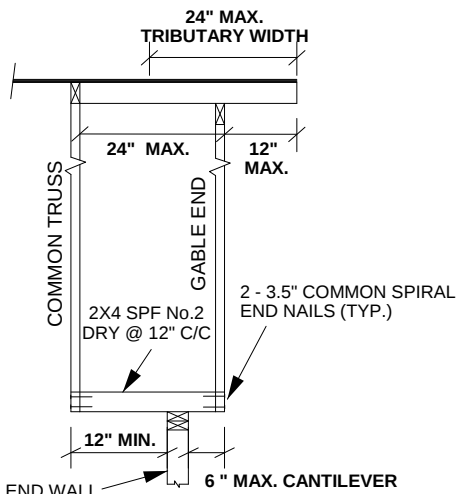
No. 2 DRY SPF OR D. Fir SCAB BRACE, SAME SIZE AS WEB



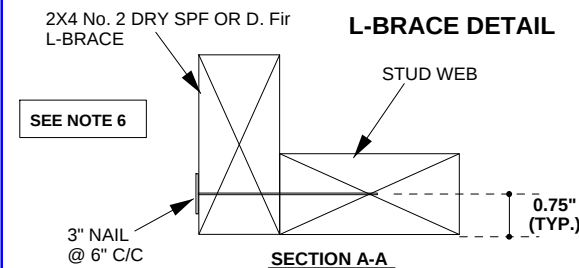
FASTEN SCAB BRACE TO ONE FACE OF WEB WITH 9-3/4 GAUGE 0.122" X 3" COMMON SPIRAL NAILS SPACED @ 9" C/C (MAX) WITH 2.5" MINIMUM END DISTANCE. SCAB BRACE MUST COVER 90% OF WEB LENGTH. DRIVE NAILS ALTERNATELY FROM FRONT AND BACK FACES.

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:

- Gable studs are spaced at 24" C/C (max.) with a max. length of 12 ft.
- All plates specified are MiTek MT20, centered at each joint, and pressed into both faces of truss.
- Truss spacing is 24" C/C, maximum.
- 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.
- This truss requires rigid sheathing attached to exposed face.
- 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.
- This truss is designed for residential or small building requirements, conforming to Part 9, NBCC 2010.
- This detail is not valid after April 30, 2017.

PEO
 Certificate No. 10889485



RECEIVED
 TOWN OF MILTON
 MAR 29, 2017
 17-5253
 BUILDING DIVISION

April 24, 2015



MiTek Canada, Inc.
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 Bradford, Ontario, L3Z 3G7