



TOWN OF MILTON
PLANNING AND DEVELOPMENT
BUILDING PERMIT: 17-5403

BUILDING: REVIEWED
SCOTT SHERRIFFS
PLANS EXAMINER
APR 26, 2017
DATE

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

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17-5403
BUILDING DIVISION



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

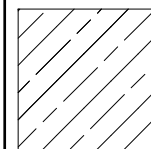
UNDERSIDE OF SOFFIT
FOR PORCHES AT
8' 6" A.F.F.

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

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

HANGER LEGEND:

▼ LUS24 ■ LJS26DS
● HGUS26 × HGUS26-2

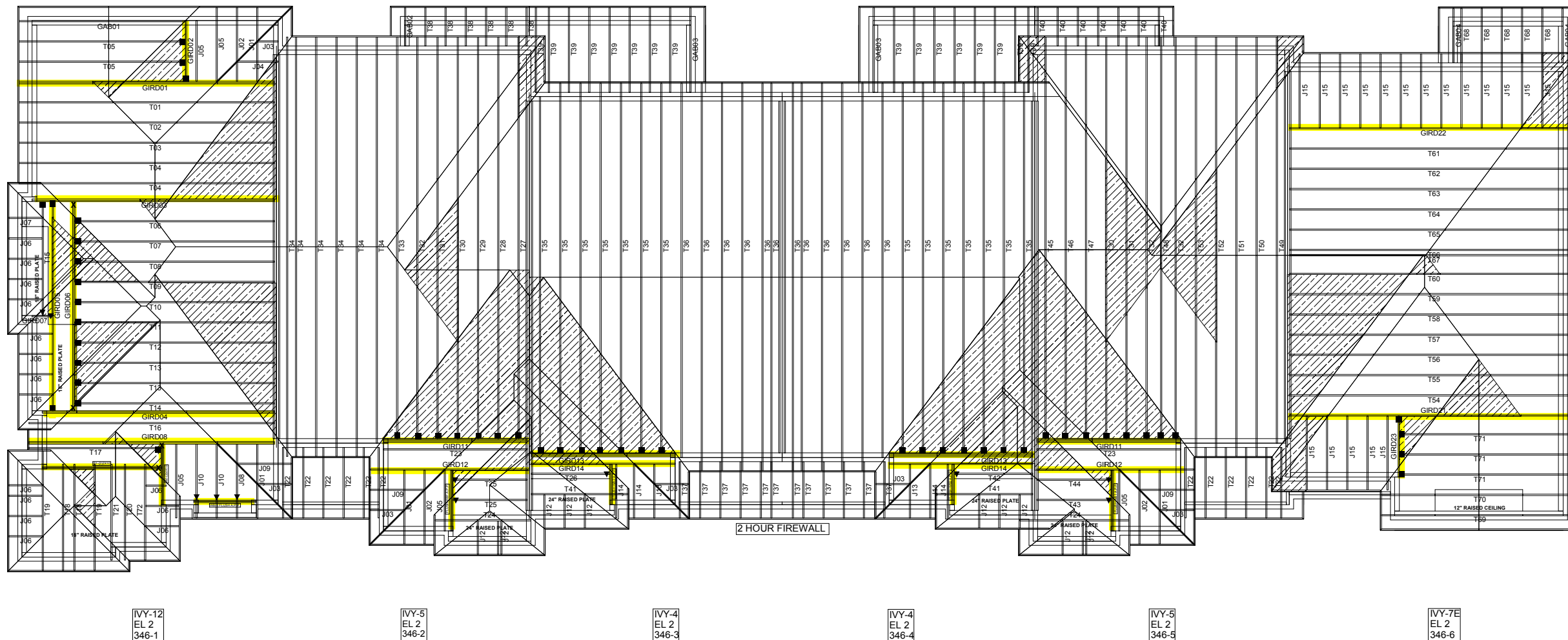


CONVENTIONAL FRAMING BY OTHERS

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 346**
Customer: **GREENPARK**
Project: **LECCO RIDGE**
Location: **MILTON**
Date: **3/16/2017** Drawn by: **BB**



ENGINEERING NOTE PAGE (ENP-1)

PLEASE READ PRIOR TO INSTALLATION

RESPONSIBILITIES

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

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

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

USE AND OCCUPANCY

- The building is of the type indicated on the drawing

LOADING

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

HANDLING, INSTALLATION AND BRACING

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

SUPPORTS

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

DIMENSIONS

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

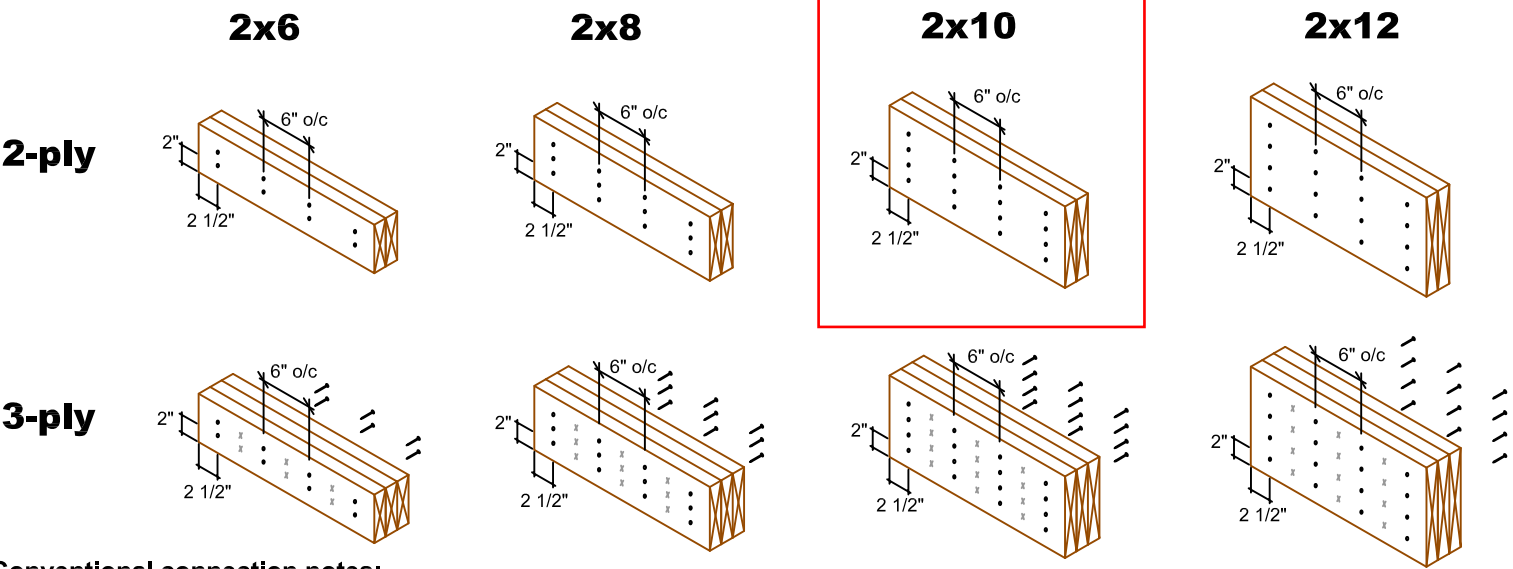
WHERE CONTINUOUS LATERAL BRACING IS REQUIRED FOR WEBS BUT CAN NOT BE PROVIDED SUBSTITUTE EACH WITH ONE SPF #2 2" X 4" T-BRACE COVERING 90% OF WEB LENGTH AND FASTENED TO EDGE OF WEB USING 3 1/4" SPIRAL NAILS @ 6" C/C

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01/29/2013

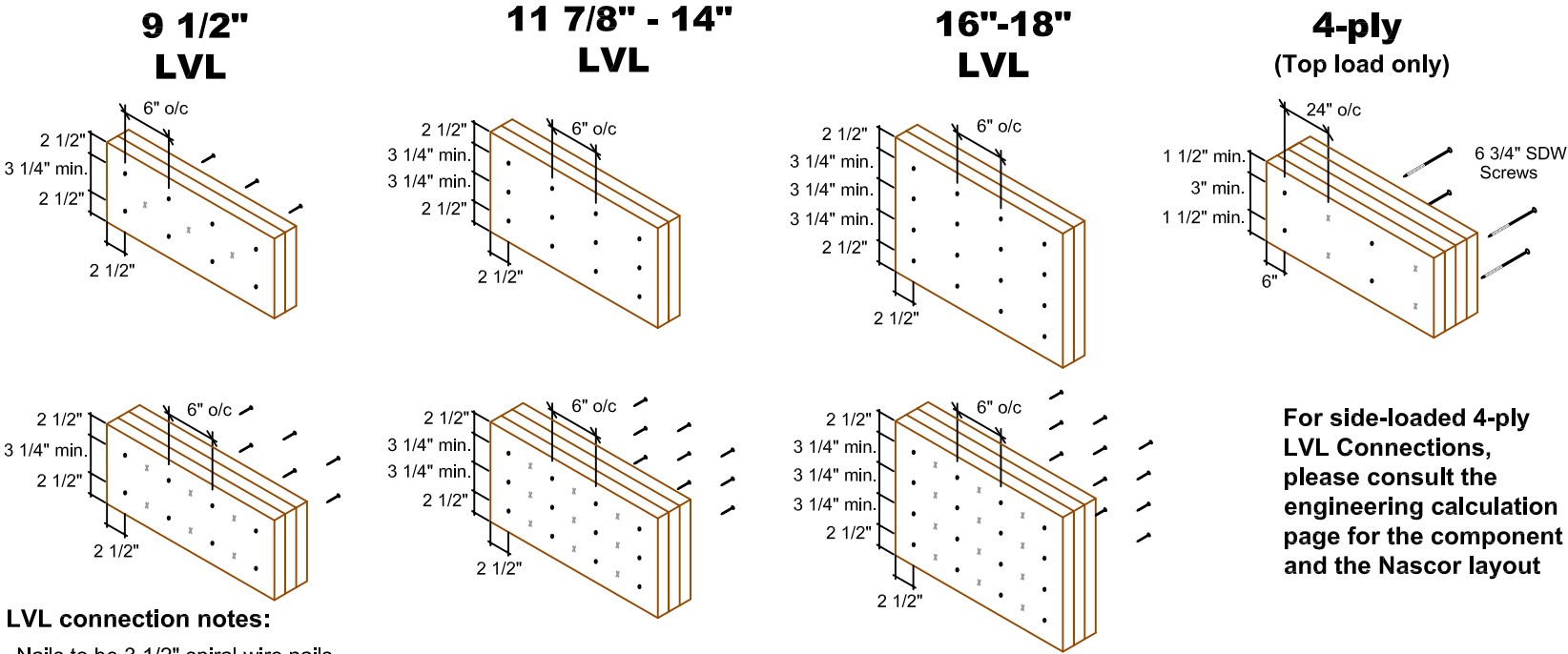
MULTIPLE MEMBER CONNECTIONS

Conventional Connections (for uniform distributed loads)



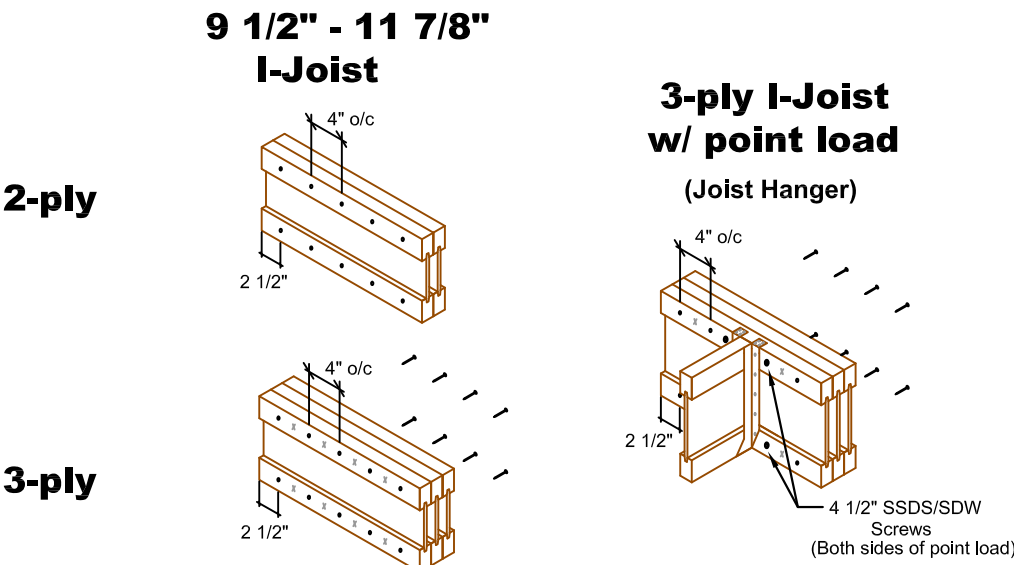
- Conventional connection notes:**
- Nails to be 3" 10d spiral wire nails.
 - Nails to be located a minimum of 2" from the top and bottom of the member. Start all nails a minimum of 2 1/2" in from ends.
 - Number of rows and spacing as per details shown, unless noted otherwise.
 - "X" represents nail driven from the opposite side.

LVL Connections (for uniform distributed loads)



- LVL connection notes:**
- Nails to be 3 1/2" spiral wire nails.
 - Nails to be located a minimum of 2 1/2" from the top and bottom of the member. Start all nails a minimum of 2 1/2" in from ends.
 - Minimum 3 1/4" spacing between rows.
 - Number of rows and spacing as per details shown, unless noted otherwise.
 - "X" represents nail or screw driven from the opposite side.

Vertical I-Joist Connections (for uniform distributed loads)



- Vertical I-Joist connection notes:**
- Nails to be 3" spiral wire nails.
 - Nails to be located at centre of top and bottom flanges. Start all nails a minimum of 2 1/2" in from ends.
 - Number of rows and spacing as per details shown, unless noted otherwise.
 - "X" represents nail driven from the opposite side.

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**MULTI -PLY
CONNECTION
DETAILS**

Date: November 30, 2016
Scale: NTS

KOTT
3228 Moodie Drive
Ottawa, ON
K2H 7V1
Ph: 613-838-2775
Fx: 613-838-4751

CS Beam 4.11.26.1
kmBeamEngine 4.11.26.1
Materials Database 1516**Member Data B1****Description:**

Member Type: Beam

Application: Roof

Top Lateral Bracing: Continuous

Slope: 0.00 / 12

Bottom Lateral Bracing: Continuous

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Deflection Criteria: L/360 live, L/240 total

0.720" max. LL

Snow Load: 30 PLF

Deck Connection: Nailed

Member Weight: 5.0 PLF

Dead Load: 15 PLF

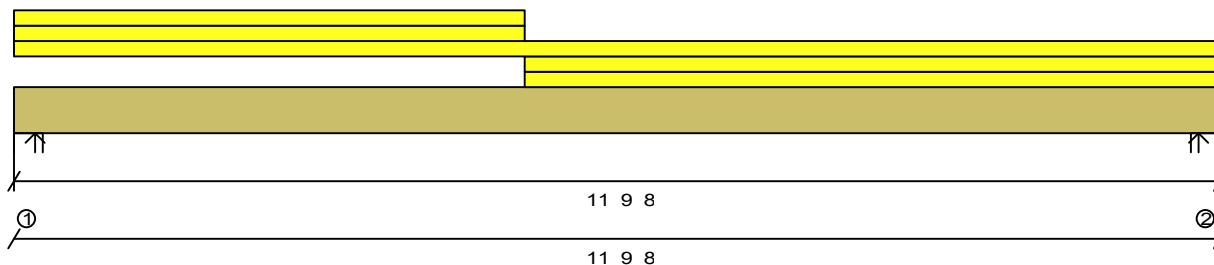
Filename: Beam2

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Additional Uniform (PLF)	Top	0' 0.00"	5' 0.00"		0		41		Live
Additional Uniform (PLF)	Top	0' 0.00"	5' 0.00"		95		0		Snow
Additional Uniform (PLF)	Top	0' 0.00"	11' 9.50"		0		10		Live
Additional Uniform (PLF)	Top	5' 0.00"	11' 9.50"		0		50		Live
Additional Uniform (PLF)	Top	5' 0.00"	11' 9.50"		139		0		Snow

**Bearings and Factored Reactions**

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravit Uplift
1	0' 0.000"	Wall	Steel	3.500"	1.500"	1715#	--
2	11' 9.500"	Wall	Steel	3.500"	1.500"	1929#	--

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

	Snow	Dead
1	793#	420#
2	915#	445#

Design spans
11' 4.250"**Product: S-P-F No1/No2 2x10 2 ply****PASSES DESIGN CHECKS**Design assumes continuous lateral bracing along the top chord.
Design assumes continuous lateral bracing along the bottom chord.**Limit States Design**

	Actual	Limit	Capacity	Location	Loading
Positive Moment	5255.#	6042.#	86%	5.9'	Total Load 1.25D+1.00*1.5S
Shear	1657.#	2656.#	62%	11.01'	Total Load 1.25D+1.00*1.5S
Max. Reaction	1929.#	6457.#	29%	11.79'	Total Load 1.25D+1.00*1.5S
TL Deflection	0.3093"	0.5677"	L/440	5.9'	Total Load D+S
LL Deflection	0.2058"	0.3785"	L/661	5.9'	Total Load S

(Actual is factored load effects, Limit is design resistance)

Bearing length from point load of top loads beams assumed to be 3.50"

Control: Positive Moment

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

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

CS Beam 4.11.26.1
kmBeamEngine 4.11.26.1
Materials Database 1516**Member Data B2****Description:**

Member Type: Beam

Application: Roof

Top Lateral Bracing: Continuous

Slope: 0.00 / 12

Bottom Lateral Bracing: Continuous

Moisture Condition: Dry

Building Code: OBC-2012

Standard Load:

Snow Load: 30 PLF

Deflection Criteria: L/360 live, L/240 total

0.720" max. LL

Dead Load: 15 PLF

Deck Connection: Nailed

Member Weight: 5.0 PLF

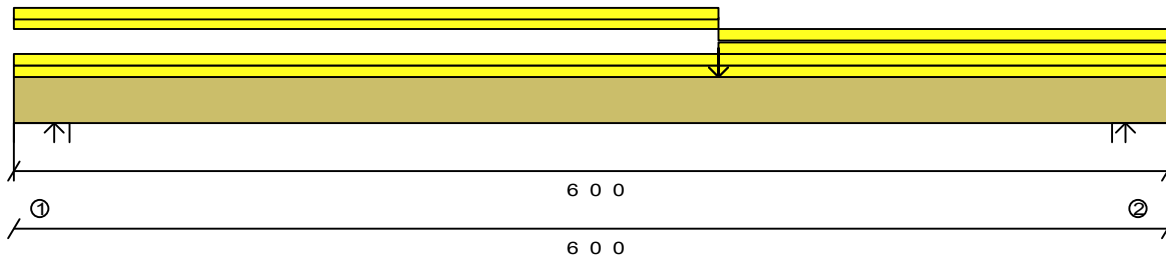
Filename: Beam3

Building Type: Residential

Importance Category: Normal (Part 9)

Other Loads

Type (Description)	Side	Begin	End	Trib. Width	Other Start	End	Dead Start	End	Category
Point (LBS)	Top	3' 8.00"			0		420		Live
Point (LBS)	Top	3' 8.00"			793		0		Snow
Additional Uniform (PLF)	Top	0' 0.00"	3' 8.00"		0		16		Live
Additional Uniform (PLF)	Top	0' 0.00"	3' 8.00"		61		0		Snow
Additional Uniform (PLF)	Top	3' 8.00"	6' 0.00"		0		59		Live
Additional Uniform (PLF)	Top	3' 8.00"	6' 0.00"		139		0		Snow
Additional Uniform (PLF)	Top	0' 0.00"	6' 0.00"		0		10		Live
Additional Uniform (PLF)	Top	0' 0.00"	6' 0.00"		23		0		Live

**Bearings and Factored Reactions**

	Location	Type	Material	Input Length	Min Required	Gravity Reaction	Gravity Uplift
1	0' 0.000"	Wall	Steel	3.500"	1.500"	1292#	--
2	6' 0.000"	Wall	Steel	3.500"	1.500"	1927#	--

Maximum Unfactored Load Case Reactions

Used for applying point loads (or line loads) to carrying members

	Live	Snow	Dead
1	65#	586#	305#
2	65#	878#	462#

Design spans
5' 6.750"**Product: S-P-F No1/No2 2x10 2 ply****PASSES DESIGN CHECKS**

Design assumes continuous lateral bracing along the top chord.
Design assumes continuous lateral bracing along the bottom chord.

Limit States Design

	Actual	Limit	Capacity	Location	Loading
Positive Moment	3234.#	6042.#	53%	3.67'	Total Load 1.25D+1.00*1.5S+0.5L
Shear	1637.#	2656.#	61%	5.22'	Total Load 1.25D+1.00*1.5S+0.5L
Max. Reaction	1927.#	6457.#	29%	6'	Total Load 1.25D+1.00*1.5S+0.5L
TL Deflection	0.0395"	0.2781"	L/999+	3.28'	Total Load D+S+0.5L
LL Deflection	0.0262"	0.1854"	L/999+	3.28'	Total Load S+0.5L

(Actual is factored load effects, Limit is design resistance)

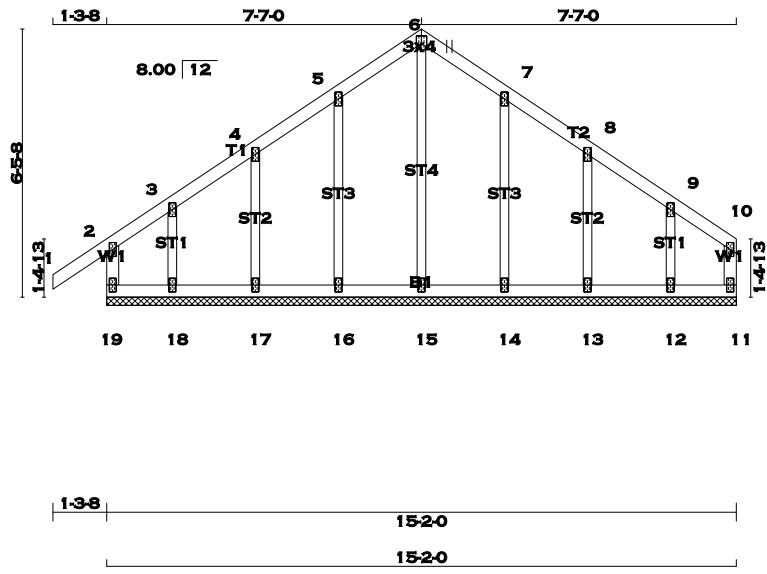
Bearing length from point load of top loads beams assumed to be 3.50"

Control: Shear

Manufacturer's installation guide MUST be consulted for multi-ply connection details and alternatives

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TOTAL WEIGHT = 63 lb [M]

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMV+p	MT20	2.0	4.0	
3, 4, 5, 7, 8, 9					
3	TMW+w	MT20	2.0	4.0	
6	TTW+p	MT20	3.0	4.0	2.25 1.50
10	TMV+p	MT20	2.0	4.0	
11	BMV1+p	MT20	2.0	4.0	
12, 13, 14, 15, 16, 17, 18					
12	BMW1+w	MT20	2.0	4.0	
19	BMV1+p	MT20	2.0	4.0	
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.					

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

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

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

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

LOADING				TOTAL LOAD CASES: (4)			
CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
19-2	-196 / 0	0.0	0.0 0.02 (1)	7.81	15-6	-171 / 0	0.11 (1)
1-2	0 / 29	-77.4	-77.4 0.10 (1)	10.00	16-5	-155 / 0	0.06 (1)
2-3	-19 / 0	-77.4	-77.4 0.08 (1)	6.25	17-4	-162 / 0	0.04 (1)
3-4	0 / 7	-77.4	-77.4 0.04 (1)	10.00	18-3	-94 / 0	0.01 (1)
4-5	0 / 6	-77.4	-77.4 0.04 (1)	10.00	14-7	-157 / 0	0.06 (1)
5-6	0 / 10	-77.4	-77.4 0.04 (1)	10.00	13-8	-153 / 0	0.03 (1)
6-7	0 / 10	-77.4	-77.4 0.04 (1)	10.00	12-9	-142 / 0	0.02 (1)
7-8	0 / 7	-77.4	-77.4 0.04 (1)	10.00			
8-9	-1 / 3	-77.4	-77.4 0.04 (1)	10.00			
9-10	-1 / 2	-77.4	-77.4 0.03 (1)	10.00			
11-10	-49 / 0	0.0	0.0 0.01 (1)	7.81			
19-18	0 / 2	-17.5	-17.5 0.02 (1)	10.00			
18-17	-2 / 1	-17.5	-17.5 0.01 (4)	10.00			
17-16	-6 / 0	-17.5	-17.5 0.01 (4)	10.00			
16-15	-8 / 0	-17.5	-17.5 0.01 (4)	10.00			
15-14	-8 / 0	-17.5	-17.5 0.01 (4)	10.00			
14-13	-6 / 0	-17.5	-17.5 0.01 (4)	10.00			
13-12	-2 / 1	-17.5	-17.5 0.01 (4)	10.00			
12-11	0 / 4	-17.5	-17.5 0.01 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 23.3 PSF
DL = 3.0 PSF

BOT CH. LL = 0.0 PSF
DL = 7.0 PSF

TOTAL LOAD = 33.3 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

CSI: TC=0.10 (1-2:1) , BC=0.02 (18-19:1) , WB=0.11 (6-15:1) , SS=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
MT20	618	354	1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

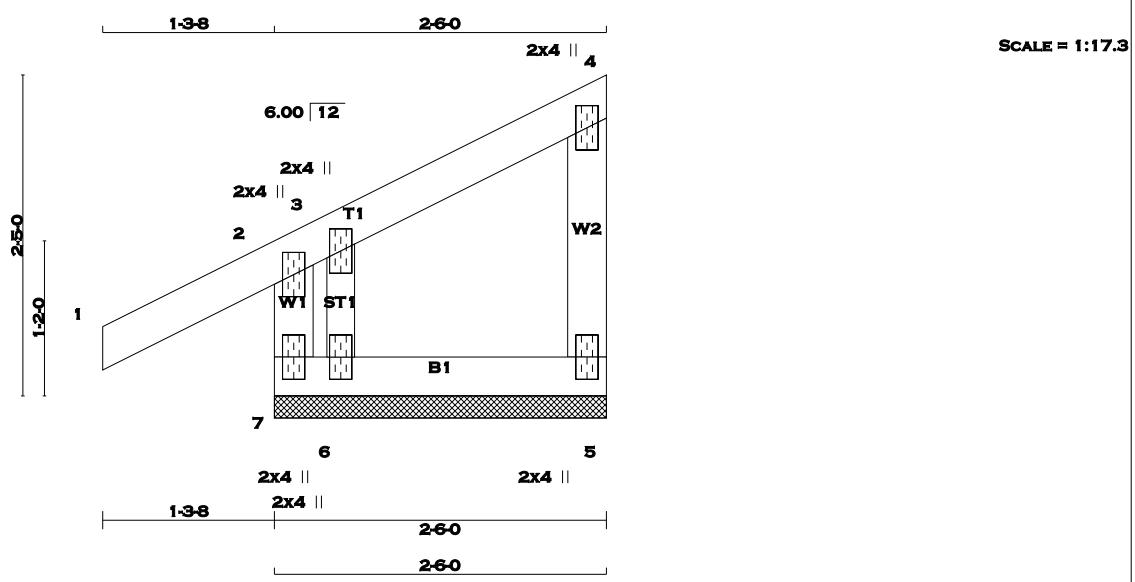
JSI GRIP= 0.13 (10) (INPUT = 0.90)
JSI METAL= 0.06 (6) (INPUT = 1.00)



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TOTAL WEIGHT = 11 lb [M]

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMV+p	MT20	2.0	4.0	
3	TMW+w	MT20	2.0	4.0	
4	TMV+p	MT20	2.0	4.0	
5	BMV1+p	MT20	2.0	4.0	
6	BMW1+w	MT20	2.0	4.0	
7	BMV1+p	MT20	2.0	4.0	
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.					

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED UNBRAC LENGTH (LC)	MAX CSI (LC)
FR-TO		FROM TO		FR-TO			
7-2	-219 / 0	0.0	0.0 0.02 (5)	7.81	6-3	-16 / 103	0.02 (5)
1-2	0 / 23	-77.4	-77.4 0.10 (1)	10.00			
2-3	-48 / 0	-77.4	-77.4 0.09 (1)	6.25			
3-4	-12 / 0	-77.4	-77.4 0.03 (1)	6.25			
5-4	-70 / 0	0.0	0.0 0.02 (1)	7.81			
7-6	-7 / 9	-17.5	-17.5 0.02 (1)	10.00			
6-5	-1 / 8	-17.5	-17.5 0.01 (4)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	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= 0.13 (2) (INPUT = 0.90)

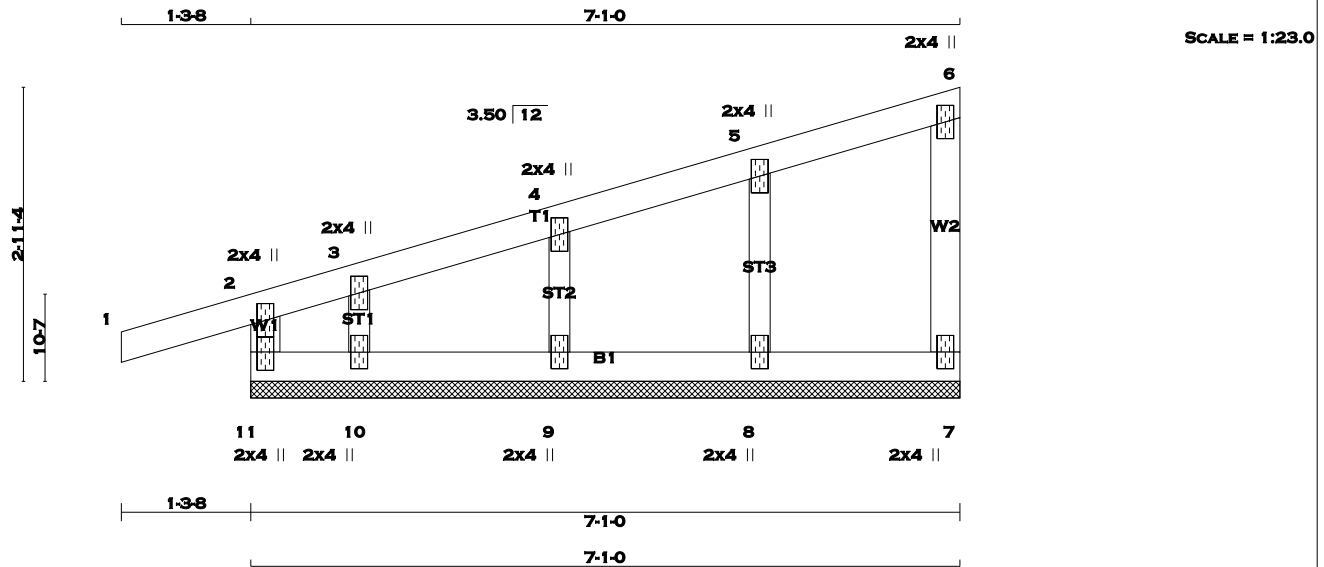
JSI METAL= 0.05 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 2 X 24 = 48 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	-191 / 0	0.0	0.0 0.03 (1)	7.81	8-5	-164 / 0	0.03 (1)
1-2	0 / 14	-77.4	-77.4 0.10 (1)	10.00	9-4	-162 / 0	0.02 (1)
2-3	-29 / 0	-77.4	-77.4 0.07 (1)	6.25	10-3	-66 / 0	0.01 (1)
3-4	-12 / 0	-77.4	-77.4 0.04 (1)	6.25			
4-5	-9 / 0	-77.4	-77.4 0.04 (1)	10.00			
5-6	-8 / 0	-77.4	-77.4 0.04 (1)	10.00			
7-6	-69 / 0	0.0	0.0 0.02 (1)	7.81			
11-10	0 / 16	-17.5	-17.5 0.03 (1)	10.00			
10-9	0 / 13	-17.5	-17.5 0.01 (4)	10.00			
9-8	0 / 9	-17.5	-17.5 0.02 (4)	10.00			
8-7	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 (10-11:1), WB=0.03 (5-8:1), SSI=0.08 (1-2:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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



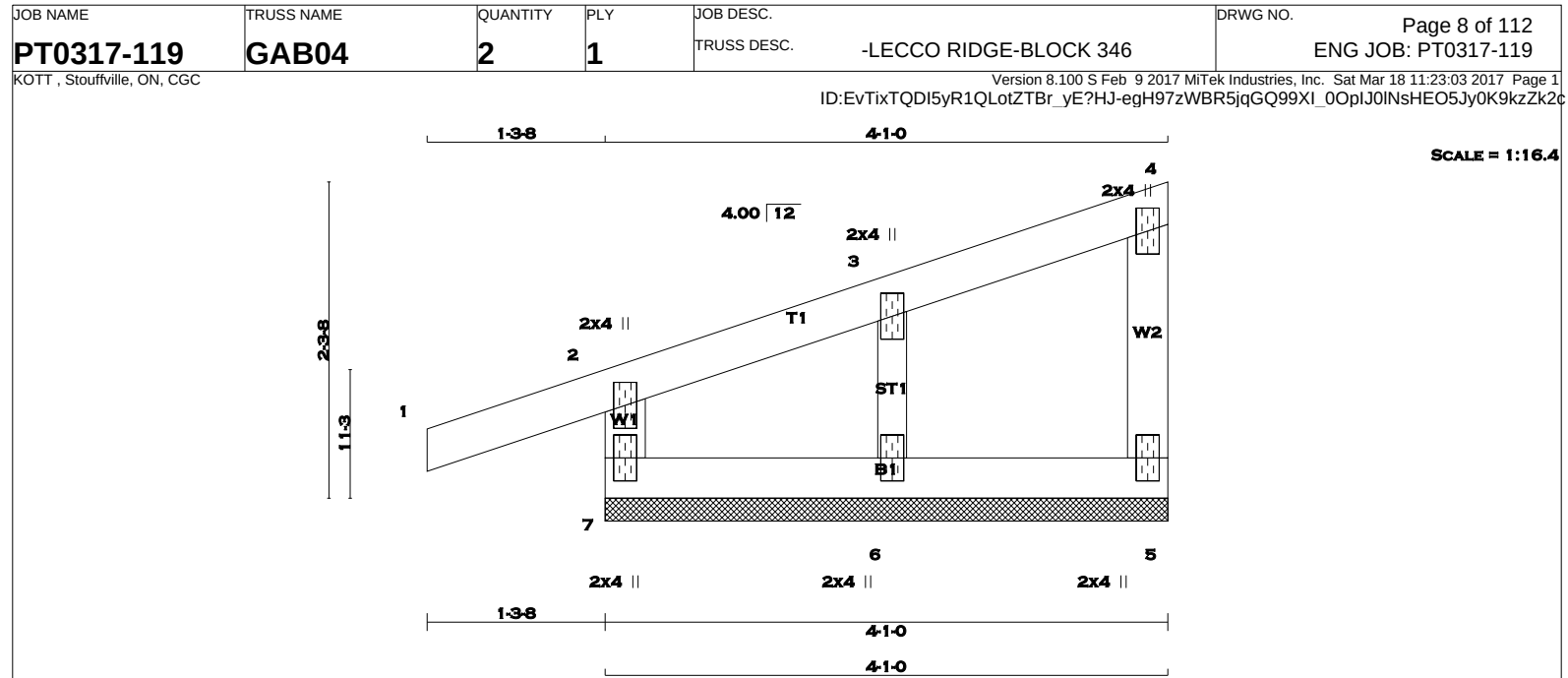
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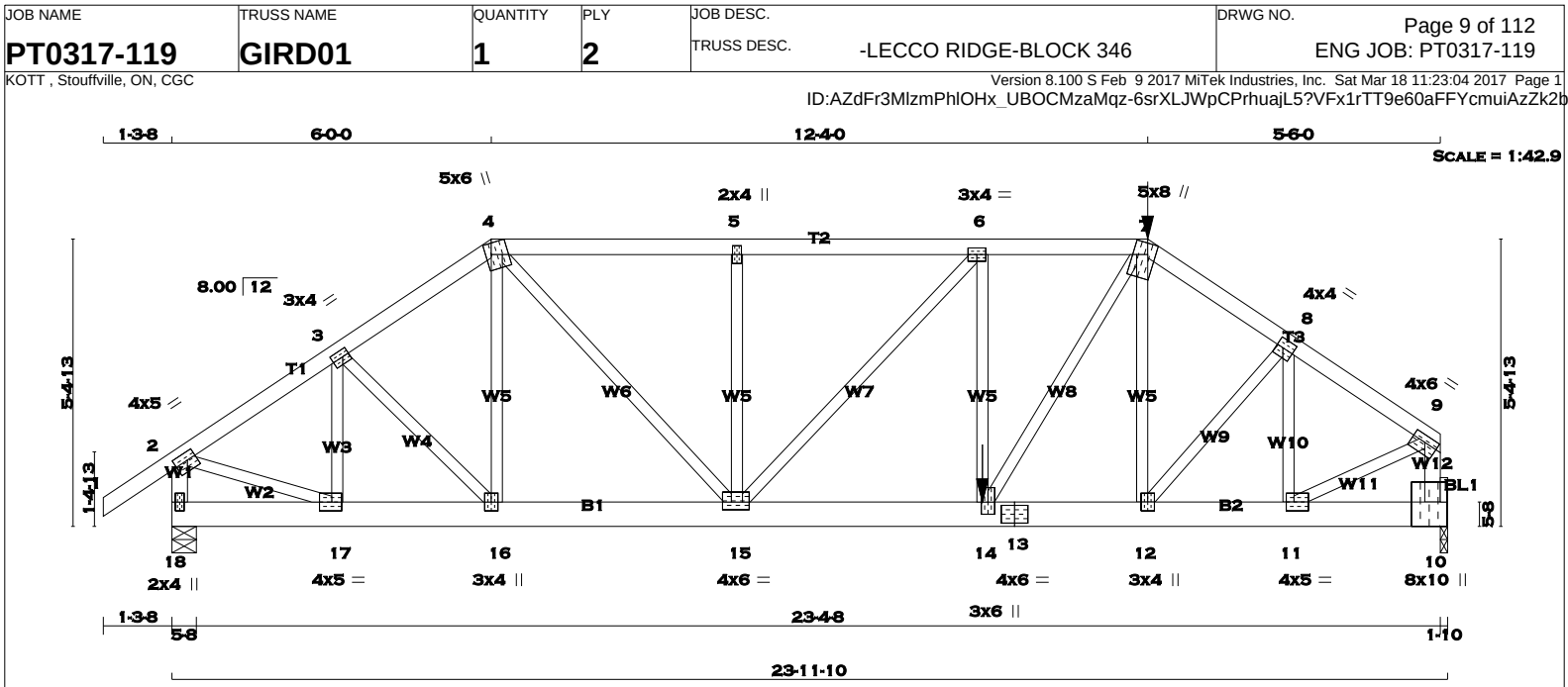
						TOTAL WEIGHT = 2 X 15 = 29 lb										[M]																																																																																															
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. SPF 7 - 2 2x4 DRY No.2 1 - 4 2x4 DRY No.2 5 - 4 2x4 DRY No.2 7 - 5 2x4 DRY No.2 ALL WEBS 2x3 DRY No.2 ALL GABLE WEBS 2x3 DRY No.2 SPF DRY: SEASONED LUMBER. GABLE STUDS SPACED AT 2-0-0 OC.						DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS. THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE. BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. LOADING TOTAL LOAD CASES: (4) <table><tr><th colspan="4">CHORDS</th><th colspan="4">WEBS</th></tr><tr><th>MEMB.</th><th>FORCE (LBS)</th><th>VERT. LOAD (PLF)</th><th>LC1 MAX (LC)</th><th>MAX. UNBRAC LENGTH</th><th>MEMB.</th><th>FORCE (LBS)</th><th>MAX. CSI (LC)</th></tr><tr><td>FR-TO</td><td></td><td>FROM TO</td><td></td><td></td><td>FR-TO</td><td></td><td></td></tr><tr><td>7- 2</td><td>-186 / 0</td><td>0.0</td><td>0.0 0.01 (1)</td><td>7.81</td><td>6- 3</td><td>-164 / 0</td><td>0.02 (1)</td></tr><tr><td>1- 2</td><td>0 / 16</td><td>-77.4</td><td>-77.4 0.10 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>2- 3</td><td>-17 / 0</td><td>-77.4</td><td>-77.4 0.04 (1)</td><td>6.25</td><td></td><td></td><td></td></tr><tr><td>3- 4</td><td>-13 / 0</td><td>-77.4</td><td>-77.4 0.04 (1)</td><td>6.25</td><td></td><td></td><td></td></tr><tr><td>5- 4</td><td>-69 / 0</td><td>0.0</td><td>0.0 0.02 (1)</td><td>7.81</td><td></td><td></td><td></td></tr><tr><td>7- 6</td><td>0 / 16</td><td>-17.5</td><td>-17.5 0.02 (4)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>6- 5</td><td>0 / 11</td><td>-17.5</td><td>-17.5 0.02 (4)</td><td>10.00</td><td></td><td></td><td></td></tr></table>																CHORDS				WEBS				MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	MAX. UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX. CSI (LC)	FR-TO		FROM TO			FR-TO			7- 2	-186 / 0	0.0	0.0 0.01 (1)	7.81	6- 3	-164 / 0	0.02 (1)	1- 2	0 / 16	-77.4	-77.4 0.10 (1)	10.00				2- 3	-17 / 0	-77.4	-77.4 0.04 (1)	6.25				3- 4	-13 / 0	-77.4	-77.4 0.04 (1)	6.25				5- 4	-69 / 0	0.0	0.0 0.02 (1)	7.81				7- 6	0 / 16	-17.5	-17.5 0.02 (4)	10.00				6- 5	0 / 11	-17.5	-17.5 0.02 (4)	10.00				DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.0 PSF TOTAL LOAD = 33.3 PSF SPACING = 24.0 IN. C/C THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014 - CSA 086-09 - TPIC 2011 DESIGN ASSUMPTIONS -OVERHANG NOT TO BE ALTERED OR CUT OFF. (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD CSI: TC=0.10 (1-2:1) , BC=0.02 (6-7:4) , WB=0.02 (3-6:1) , SSI=0.08 (1-2:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 822 2284 1656 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.10 (2) (INPUT = 0.90) JSI METAL= 0.04 (2) (INPUT = 1.00)									
CHORDS				WEBS																																																																																																											
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PLATES (table is in inches) JT TYPE PLATES W LEN Y X 2 TMV+p MT20 2.0 4.0 3 TMW+w MT20 2.0 4.0 4 TMV+p MT20 2.0 4.0 5 BMV1+p MT20 2.0 4.0 6 BMW1+w MT20 2.0 4.0 7 BMV1+p MT20 2.0 4.0 A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.																																																																																																															



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TOTAL WEIGHT = 2 X 123 = 246 lb

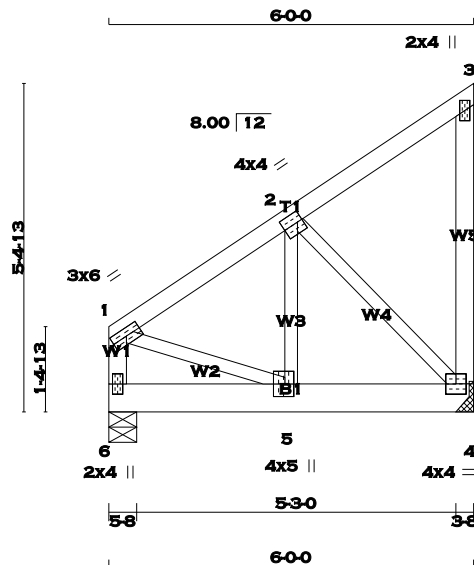
LUMBER N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
1 - 4	2x4	DRY	No.2	SPF
4 - 7	2x4	DRY	No.2	SPF
7 - 9	2x4	DRY	No.2	SPF
18 - 2	2x4	DRY	No.2	SPF
10 - 9	2x4	DRY	No.2	SPF
18 - 13	2x6	DRY	No.2	SPF
13 - 10	2x6	DRY	No.2	SPF
BEARING BLOCKS				
BL1	2x6	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				
DESIGN CONSISTS OF <u>2</u> TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:				
CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)		
TOP CHORDS : (0.122"x3") SPIRAL NAILS				
1-4	1	12	TOP	
4-7	1	12	SIDE(34.2)	
7-9	1	12	SIDE(0.0)	
18-2	1	12	TOP	
10-9	1	12	TOP	
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS				
18-13	2	12	SIDE(8.7)	
13-10	2	12	SIDE(8.7)	
WEBS : (0.122"x3") SPIRAL NAILS				
2x3	1	6		
NAILS TO BE DRIVEN FROM ONE SIDE ONLY.				
GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.				
TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.				
SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERING. REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP.				

BEARING UNDERSIZED: 10									
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		
18	2238	0	2238	0	0	5-8	5-8		
10	3174	0	3174	0	0	1-10	1-12		
UNFACTORED REACTIONS									
	1ST LCASE	MAX./MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
18	1567	1114 / 0	0 / 0	0 / 0	0 / 0	453 / 0	0 / 0		
10	2229	1552 / 0	0 / 0	0 / 0	0 / 0	677 / 0	0 / 0		
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 18, 10									
BRACING									
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.49 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)									
C H O R D S									
W E B S									
MAX. FACTORED									
MEMB. FORCE (LBS)									
MAX. FACTORED									
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LUMBER				DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	
1 - 3	2x4	DRY	No.2	SPF
4 - 3	2x4	DRY	No.2	SPF
6 - 1	2x4	DRY	No.2	SPF
6 - 4	2x6	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
1	TMVW-t	MT20	3.0	6.0	
2	TMVW-t	MT20	4.0	4.0	2.00 1.00
3	TMV+p	MT20	2.0	4.0	
4	BMVW1-t	MT20	4.0	4.0	
5	BMVW-t	MT20	4.0	5.0	2.50 1.75
6	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 GROSS REACTION				MAXIMUM FACTORED GROSS REACTION				INPUT BRG		REQRD BRG	
JT	VERT	HORZ	DOWN	VERT	HORZ	DOWN	UP	DOWN	HORZ	UP	DOWN	IN-SX	IN-SX	IN-SX	IN-SX
4	1189	0	1189	0	0	0	0	1189	0	0	0	5-8	5-8	5-8	5-8
6	1189	0	1189	0	0	0	0	1189	0	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. SNOW		LIVE		PERM.LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
4	834	584 / 0	0 / 0	0 / 0	0 / 0	251 / 0	0 / 0	4	834	584 / 0	0 / 0	0 / 0	0 / 0
6	834	584 / 0	0 / 0	0 / 0	0 / 0	251 / 0	0 / 0	6	834	584 / 0	0 / 0	0 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX. (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX. (LC)
FR-TO		FROM	TO	FR-TO		FROM	TO
1-2	-831 / 0	-77.4	-77.4 0.12 (1)	6.25	5-2	0 / 890	0.22 (1)
2-3	-14 / 0	-77.4	-77.4 0.11 (1)	6.25	2-4	-994 / 0	0.29 (1)
4-3	-91 / 0	0.0	0.0 0.04 (1)	7.81	1-5	0 / 741	0.18 (1)
6-1	-794 / 0	0.0	0.0 0.09 (1)	7.81			
6-5	0 / 0	-318.9	-318.9 0.18 (1)	10.00			
5-4	0 / 703	-318.9	-318.9 0.28 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 15-2-0
END DISTANCE = 6-0-0
END SPAN CARRIED = 15-2-0
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=0.12 (1-2:1) , BC=0.28 (4-5:1) , WB=0.29 (2-4:1) , SSI=0.37 (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	(PL)	(PL)
	(PSI)	(PL)	(PL)		
	MAX MIN	MAX MIN	MAX MIN		
MT20	618 354	1667 822	2284 1656		

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

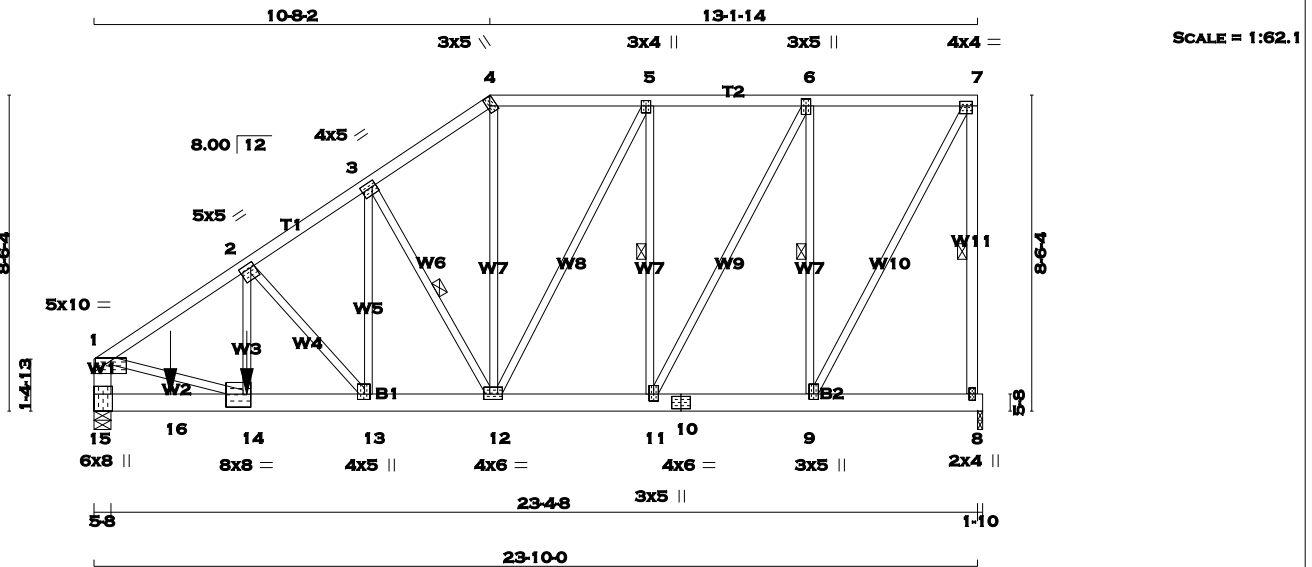
JSI GRIP= 0.89 (1) (INPUT = 0.90)
JSI METAL= 0.26 (4) (INPUT = 1.00)



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TOTAL WEIGHT = 2 X 143 = 286 lb [M]

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
1 - 4	2x4	DRY	No.2
4 - 7	2x4	DRY	No.2
8 - 7	2x4	DRY	No.2
15 - 1	2x6	DRY	No.2
15 - 10	2x6	DRY	No.2
10 - 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
7-8	12	TOP
15-1	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
15-10	12	SIDE(109.7)
10-8	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	TMVW-p	MT20	5.0	10.0	Edge
2	TMVW-t	MT20	5.0	1.50	1.25
3	TMVW-t	MT20	4.0	5.0	1.75 1.25
4	TTW+h	MT20	3.0	5.0	2.75 1.00
5	TMVW+t	MT20	3.0	4.0	1.75 1.50

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
8	2164	0	2164	0	0	1-10	1-10
15	6977	0	6977	0	0	5-8	5-8

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX/MIN.	SNOW	LIVE	PERM.LIVE	WIND	DEAD
8	1519	1063 / 0	0 / 0	0 / 0	0 / 0	0 / 0	456 / 0
15	4896	3425 / 0	0 / 0	0 / 0	0 / 0	0 / 0	1471 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8, 15
BEARING SIZE FACTOR = 1.15 AT JNT(S) 15 (BASED ON SUPPORT DEPTH = 1-8)

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.27 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

- 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-8, 6-9. DBS = 6-0-0 . CBF = 80 LBS.
- 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 3-12. DBS = 4-0-0 . CBF = 68 LBS.
- 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-11. DBS = 10-0-0 . CBF = 92 LBS.

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	
FR-TO		FROM TO		FR-TO			
1-2	-7808 / 0	-77.4 -77.4 0.39 (1)	3.27 14-2	0 / 4564	0.56 (1)		
2-3	-4589 / 0	-77.4 -77.4 0.14 (1)	4.38 2-13	-4057 / 0	0.83 (1)		
3-4	-2989 / 0	-77.4 -77.4 0.10 (1)	5.26 13-3	0 / 2975	0.37 (1)		
4-5	-2488 / 0	-77.4 -77.4 0.12 (1)	5.61 3-12	-2740 / 0	0.45 (1)		
5-6	-1904 / 0	-77.4 -77.4 0.13 (1)	6.19 12-4	0 / 1408	0.17 (1)		
6-7	-1106 / 0	-77.4 -77.4 0.12 (1)	6.25 12-5	0 / 1272	0.16 (1)		
8-7	-2132 / 0	0.0 0.0 0.35 (1)	6.08 11-5	-1474 / 0	0.34 (1)		
15-1	-6057 / 0	0.0 0.0 0.22 (1)	6.01 11-6	0 / 1706	0.21 (1)		
				9-6	-1891 / 0	0.43 (1)	
15-16	0 / 0	-236.9 -236.9 0.51 (1)	10.00 9-7	0 / 2278	0.28 (1)		
16-14	0 / 0	-17.5 -17.5 0.51 (1)	10.00 1-14	0 / 6685	0.83 (1)		
14-13	0 / 6498	-17.5 -17.5 0.47 (1)	10.00				
13-12	0 / 3827	-17.5 -17.5 0.30 (1)	10.00				
12-11	0 / 1904	-17.5 -17.5 0.15 (1)	10.00				
11-10	0 / 1106	-17.5 -17.5 0.09 (1)	10.00				
10-9	0 / 1106	-17.5 -17.5 0.09 (1)	10.00				
9-8	0 / 0	-17.5 -17.5 0.02 (4)	10.00				

FACTORED CONCENTRATED LOADS (LBS)						
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.
14	4-1-8	-5292	-5292	---	FRONT	VERT
16	2-0-12	-1136	-1136	---	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 = 11-3-0
END DISTANCE = 2-0-12
END SPAN CARRIED = 11-3-0
END WALL WIDTH = 0-0
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDT'L LOADS BASED ON 55 % OF GSL.

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.79")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.08")
ALLOWABLE DEFL.(TL)= L/360 (0.79")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.15")

CSI: TC=0.39 (1-2:1) , BC=0.51 (14-15:1) , WB=0.83 (2-13:1) , SSI=0.30 (14-15:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) 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.

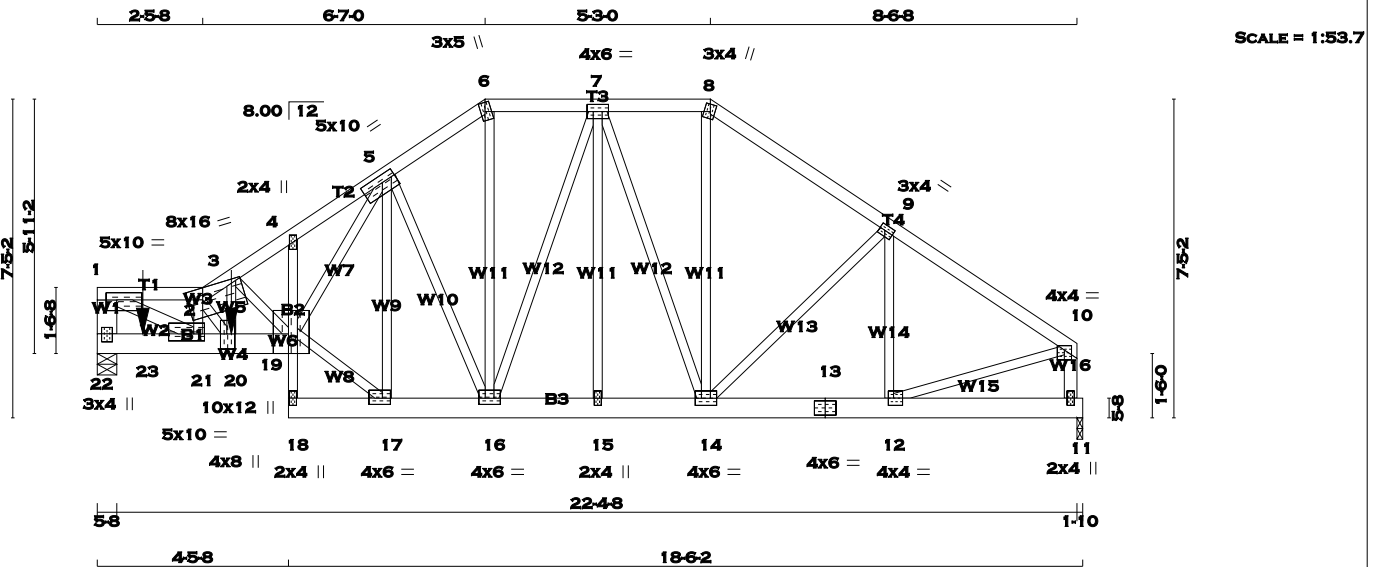
JSI GRIP= 0.8 (3) NP= 1.5 (3)
JSI METAL= 0.62 (3) INF= 1.5 (3)

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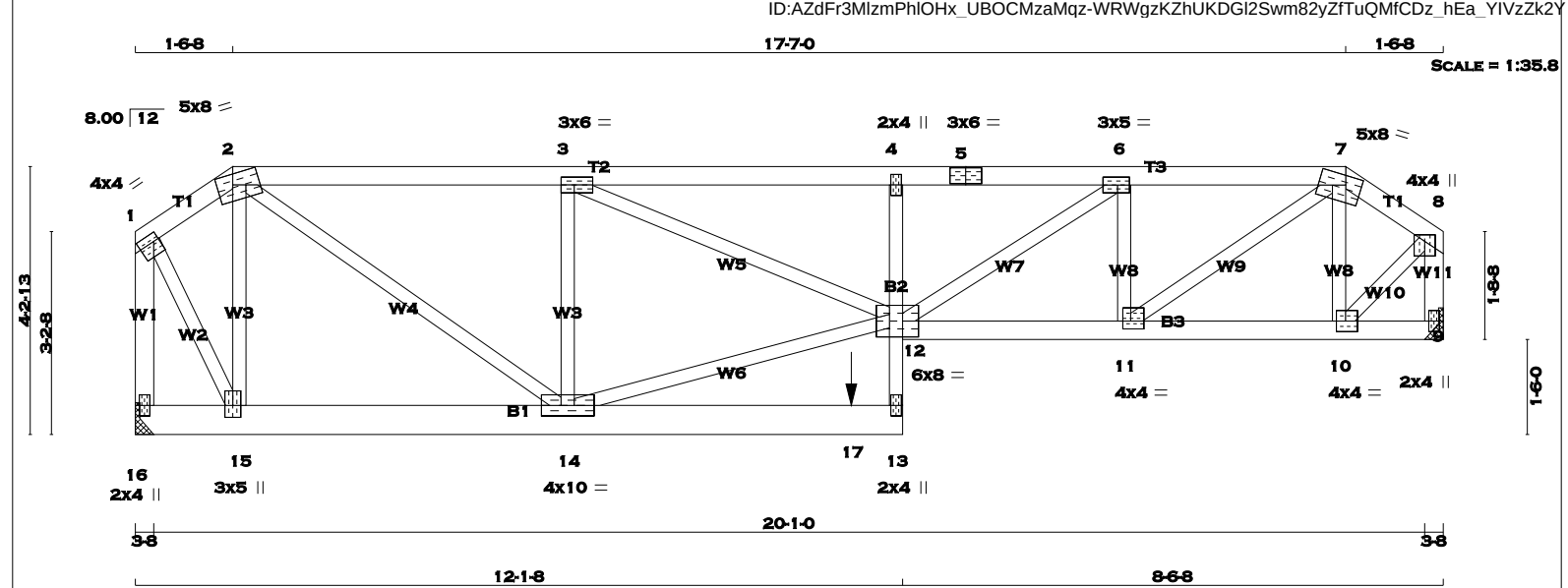


LUMBER N. L. G. A. RULES CHORDS SIZE 22 - 1 2x6 DRY No.2 SPF 1 - 2 2x4 DRY No.2 SPF 2 - 6 2x4 DRY No.2 SPF 6 - 8 2x4 DRY No.2 SPF 8 - 10 2x4 DRY No.2 SPF 11 - 10 2x4 DRY No.2 SPF 22 - 19 2x6 DRY 2100F 1.8E SPF 18 - 4 2x3 DRY No.2 SPF 18 - 13 2x6 DRY 2100F 1.8E SPF 13 - 11 2x6 DRY 2100F 1.8E SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT 1 - 21 2x4 DRY 1650F 1.5E 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 22-1 2 12 TOP 1-2 1 12 TOP 2-6 1 12 TOP 6-8 1 12 TOP 8-10 1 12 TOP 11-10 1 12 TOP BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS 22-19 2 12 SIDE(0.0) 18-13 2 12 TOP 13-11 2 12 TOP 4-18 1 12 TOP WEBS : (0.122"x3") SPIRAL NAILS 2x3 1 6 2x4 1 6 NAILS TO BE DRIVEN FROM ONE SIDE ONLY. GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS. TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.			DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED MAXIMUM FACTORED INPUT REQRD GROSS REACTION GROSS REACTION BRG BRG JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX 22 6734 0 6734 0 0 5-8 5-8 11 1860 0 1860 0 0 1-10 1-10 UNFACTORED REACTIONS 1ST LCASE MAX/MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 22 4726 3306 / 0 0 / 0 0 / 0 1420 / 0 0 / 0 11 1305 913 / 0 0 / 0 0 / 0 392 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 22, 11 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.40 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 MAX. FACTORED WEBS MEMB. FORCE FACTORED VERT. LOAD LC1 MAX. MAX. MEMB. FORCE FACTORED (LBS) (PLF) CSI (LC) UNBRAC LENGTH FR-TO (LBS) CSI (LC) FR-TO FROM TO 22-1 -5544 / 0 0.0 0.0 0.20 (1) 6.24 1-21 0 / 12436 0.80 (1) 1-2 -11147 / 0 -77.4 -77.4 0.44 (1) 2.61 21-2 -4706 / 0 0.36 (1) 2-3 -12278 / 0 -77.4 -77.4 0.48 (1) 2.40 2-20 -2441 / 0 0.19 (1) 3-4 -8591 / 0 -77.4 -77.4 0.40 (1) 3.01 20-3 0 / 5246 0.65 (1) 4-5 -8346 / 0 -77.4 -77.4 0.40 (1) 3.06 3-19 -4887 / 0 0.41 (1) 5-6 -2806 / 0 -77.4 -77.4 0.10 (1) 5.38 19-17 0 / 3898 0.48 (1) 6-7 -2328 / 0 -77.4 -77.4 0.06 (1) 5.83 19-5 0 / 7721 0.96 (1) 7-8 -1787 / 0 -77.4 -77.4 0.05 (1) 6.25 17-5 -1731 / 0 0.45 (1) 8-9 -2155 / 0 -77.4 -77.4 0.14 (1) 5.90 16-6 0 / 1403 0.17 (1) 9-10 -2058 / 0 -77.4 -77.4 0.14 (1) 6.00 16-7 0 / 655 0.08 (1) 11-10 -1811 / 0 0.0 0.0 0.10 (1) 7.81 15-7 0 / 83 0.01 (1) 7-14 -952 / 0 0.52 (1) 22-23 0 / 0 -17.5 -17.5 0.26 (1) 10.00 14-8 0 / 962 0.12 (1) 23-21 0 / 0 -17.5 -17.5 0.26 (1) 10.00 14-9 0 / 62 0.01 (1) 21-20 0 / 11571 -17.5 -17.5 0.69 (1) 10.00 12-9 -484 / 0 0.08 (1) 20-19 0 / 10347 -17.5 -17.5 0.66 (1) 10.00 12-10 0 / 1807 0.22 (1) 18-19 -169 / 0 0.0 0.0 0.20 (1) 7.81 5-16 -2495 / 0 0.78 (1) 19-4 0 / 230 0.0 0.0 0.22 (1) 10.00 18-17 0 / 89 -17.5 -17.5 0.08 (1) 10.00 17-16 0 / 3304 -17.5 -17.5 0.17 (1) 10.00 16-15 0 / 2108 -17.5 -17.5 0.09 (1) 10.00 15-14 0 / 2108 -17.5 -17.5 0.07 (1) 10.00 14-13 0 / 1729 -17.5 -17.5 0.06 (1) 10.00 13-12 0 / 1729 -17.5 -17.5 0.06 (1) 10.00 12-11 0 / 0 -17.5 -17.5 0.01 (1) 10.00 FACTORED CONCENTRATED LOADS (LBS) JT LOC. LC1 MAX- MAX+ FACE DIR. TYPE 20 3-1-8 -5292 -5292 --- FRONT VERT TOTAL 23 1-0-12 -1136 -1136 --- 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 *** 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 (0.15") ALLOWABLE DEFL.(TL)= L/360 (0.76") CALCULATED VERT. DEFL.(TL) = L/999 (0.26") CSI: TC=0.48 (2-3:1) , BC=0.69 (20-21:1) , WB=0.96 (5-19:1) , SSI=0.45 (19-20:1) 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 (20) (INPUT = 0.90) JSI METAL= 0.87 (21) (INPUT = 1.00)		
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CONTAINS SPECIFICATIONS AND CRITERIA USED
IN THE DESIGN OF THIS COMPONENT.



TOTAL WEIGHT = 96 lb

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
7 - 8	2x4	DRY	No.2 SPF
16 - 1	2x4	DRY	No.2 SPF
9 - 8	2x4	DRY	No.2 SPF
16 - 13	2x6	DRY	No.2 SPF
13 - 4	2x3	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
1	TMVW-t	MT20	4.0	4.0	1.50	1.00
2	TTWW-m	MT20	5.0	8.0	2.00	3.00
3	TMVW-t	MT20	3.0	6.0	1.50	2.50
4	TMV+p	MT20	2.0	4.0		
5	TS-t	MT20	3.0	6.0		
6	TMVW-t	MT20	3.0	5.0	1.50	2.25
7	TTWW-m	MT20	5.0	8.0	1.75	3.00
8	TMVW+p	MT20	4.0	4.0	1.25	2.00
9	BMV1+p	MT20	2.0	4.0		
10	BMVW-t	MT20	4.0	4.0	2.00	1.75
11	BMVW-t	MT20	4.0	4.0	1.50	1.50
12	BMVWVW-I	MT20	6.0	8.0	3.00	3.00
13	BMV+p	MT20	2.0	4.0		
14	BMVWVW-t	MT20	4.0	10.0		
15	BMVWVW-t	MT20	3.0	5.0	2.25	1.50
16	BMV1+p	MT20	2.0	4.0		
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.						

HANGERS NOTES
1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 285.0 lbs FACTORED DOWN AT 11-3-12 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
16		1109	0	1109	0	0		HANGER BY OTHERS	
9		1136	0	1136	0	0		HANGER BY OTHERS	

UNFACTORED REACTIONS							
JT	1ST LCASE	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
16		778	545 / 0	0 / 0	0 / 0	0 / 0	234 / 0
9		797	558 / 0	0 / 0	0 / 0	0 / 0	240 / 0

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.75 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)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)	UNBRACED LENGTH
FR-TO		FROM	TO	FR-TO			
1-2	-536 / 0	-77.4	-77.4 0.04 (1)	6.25	15-2	-679 / 0	0.18 (1)
2-3	-1464 / 0	-77.4	-77.4 0.41 (1)	4.88	2-14	0 / 1284	0.32 (1)
3-4	-2587 / 0	-77.4	-77.4 0.52 (1)	3.75	14-3	-1003 / 0	0.27 (1)
4-5	-2603 / 0	-77.4	-77.4 0.22 (1)	4.06	14-12	0 / 1489	0.37 (1)
5-6	-2603 / 0	-77.4	-77.4 0.22 (1)	4.06	3-12	0 / 1242	0.31 (1)
6-7	-1884 / 0	-77.4	-77.4 0.18 (1)	4.71	12-6	0 / 869	0.22 (1)
7-8	-857 / 0	-77.4	-77.4 0.04 (1)	6.25	11-6	-777 / 0	0.14 (1)
16-1	-1115 / 0	0.0	0.0 0.19 (1)	7.48	11-7	0 / 1457	0.36 (1)
9-8	-1137 / 0	0.0	0.0 0.13 (1)	7.42	10-7	-531 / 0	0.10 (1)
					1-15	0 / 876	0.22 (1)
					10-8	0 / 928	0.23 (1)
16-15	0 / 0	-17.5	-17.5 0.03 (4)	10.00			
15-14	0 / 425	-17.5	-17.5 0.09 (1)	10.00			
14-17	0 / 27	-17.5	-17.5 0.15 (1)	10.00			
17-13	0 / 27	-17.5	-17.5 0.15 (1)	10.00			
13-12	0 / 281	0.0	0.0 0.18 (1)	10.00			
12-4	-311 / 0	0.0	0.0 0.12 (1)	7.81			
12-11	0 / 1884	-17.5	-17.5 0.38 (1)	10.00			
11-10	0 / 687	-17.5	-17.5 0.16 (1)	10.00			
10-9	0 / 0	-17.5	-17.5 0.04 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)					
JT	LOC.	LC1	MAX-	MAX+	FACE
17	11-3-12	-285	-285	---	FRONT

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 (0.69")
CALCULATED VERT. DEFL.(LL)= L/999 (0.11")
ALLOWABLE DEFL.(TL)= L/360 (0.69")
CALCULATED VERT. DEFL.(TL)= L/999 (0.19")

CSI: TC=0.52 (3-4:1), BC=0.38 (11-12:1), WB=0.37 (12-14:1), SSI=0.21 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

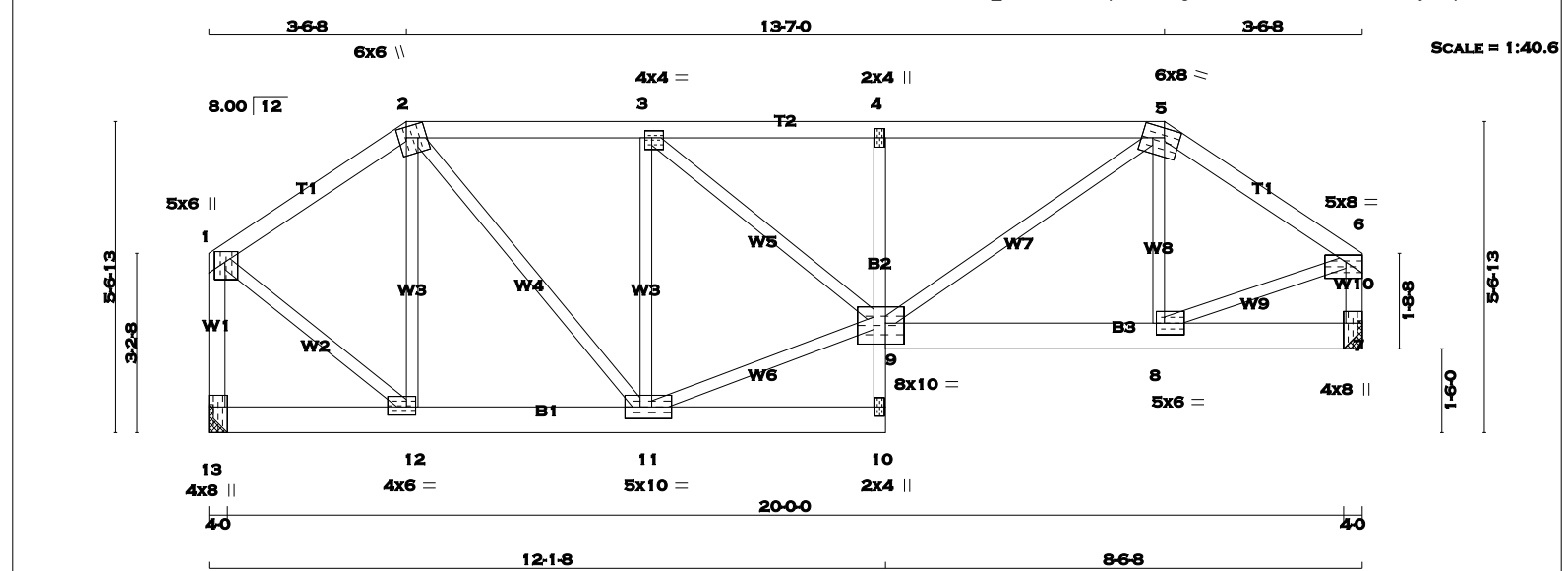
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (12) (INPUT = 0.90)
JSI METAL= 0.45 (11) (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 - 5

2x4

DRY

No.2

SPF

5 - 6

2x4

DRY

No.2

SPF

13 - 1

2x4

DRY

No.2

SPF

7 - 6

2x4

DRY

No.2

SPF

13 - 10

2x6

DRY

No.2

SPF

10 - 4

2x3

DRY

No.2

SPF

9 - 7

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 - 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 - 10

12

SIDE(208.6)

9 - 7

12

SIDE(208.6)

10 - 4

12

TOP

WEBS : (0.122"x3") SPIRAL NAILS

2x3

1

6

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

PLATES (table is in inches)

JT

TYPE

PLATES

W

LEN

Y

X

1

TMVW+p

MT20

5.0

6.0

2.25

2.25

2

TTVW+m

MT20

6.0

6.0

2.25

1.75

3

TMVW-t

MT20

4.0

4.0

1.50

1.50

4

TMV+p

MT20

2.0

4.0

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	DOWN	HORZ	DOWN	HORZ	IN-SX	IN-SX	IN-SX	IN-SX
13	5292	0	0	5292	0	0	0	HANGER BY OTHERS	MIN. SEAT SIZE: 4-0
7	5292	0	0	5292	0	0	0	HANGER BY OTHERS	MIN. SEAT SIZE: 4-0

UNFACTORED REACTIONS									
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
13	3714	2598 / 0	0 / 0	0 / 0	0 / 0	1116 / 0	0 / 0		
7	3714	2598 / 0	0 / 0	0 / 0	0 / 0	1116 / 0	0 / 0		

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.38 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

MAX. FACTORED

MEMB.

FORCE

(LBS)

VERT. LOAD

LC1

MAX

CS1 (LC)

UNBRAC

LENGTH

FR-TO

1 - 2

-3791 / 0

-77.4

-77.4

0.15 (1)

4.73

12 - 2

-563 / 0

0.13 (1)

2 - 3

-5107 / 0

-77.4

-77.4

0.20 (1)

4.13

2 - 11

0 / 3088

0.38 (1)

3 - 4

-7218 / 0

-77.4

-77.4

0.28 (1)

3.47

11 - 3

-2194 / 0

0.49 (1)

4 - 5

-7236 / 0

-77.4

-77.4

0.40 (1)

3.38

11 - 9

0 / 5379

0.67 (1)

5 - 6

-5424 / 0

-77.4

-77.4

0.21 (1)

4.02

3 - 9

0 / 2815

0.35 (1)

13 - 1

-4668 / 0

0.0

0.0

0.41 (1)

5.53

9 - 5

0 / 3341

0.41 (1)

7 - 6

-4767 / 0

0.0

0.0

0.27 (1)

5.48

8 - 5

0 / 734

0.09 (1)

1 - 12

0 / 3970

0.49 (1)

8 - 6

0 / 4783

0.59 (1)

TOP CHORDS : (0.122"x3") SPIRAL NAILS			ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE EXTERNALLY RESTRAINED.										* ADD'L LOADS BASED ON 55 % OF G.S.L.			
1-2	1	12	TOP	LOADING TOTAL LOAD CASES: (4)										THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010		
2-5	1	12	TOP													
5-6	1	12	TOP													
13-1	1	12	TOP													
7-6	1	12	TOP													
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS														THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (0.69") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.12") ALLOWABLE DEFL.(TL)= L/360 (0.69") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.21")		
13-10	2	12	SIDE(208.6)													
9-7	2	12	SIDE(208.6)													
10-4	1	12	TOP													
WEBS : (0.122"x3") SPIRAL NAILS																
2x3	1	6														
NAILS TO BE DRIVEN FROM ONE SIDE ONLY.																
TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.																
SIDE - PLACING THE EQUIV. TO THE TOP PLIES																

TOTAL WEIGHT = 2 X 105 = 210 lb									
[M]									

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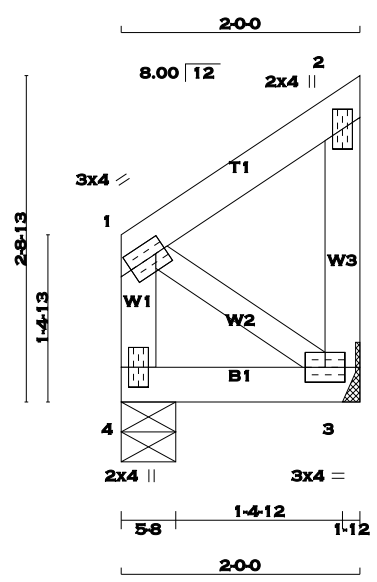
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CONTINUED ON PAGE 2



SCALE = 1:19.3

TOTAL WEIGHT = 10 lb [M]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE		LUMBER	DESCR.
4 - 1	2x4	DRY	No.2	SPF
1 - 2	2x4	DRY	No.2	SPF
4 - 3	2x4	DRY	No.2	SPF
ALL WEBS		2x4	DRY	No.2
EXCEPT				SPF
1 - 3	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	1.00
2	TMVW+w	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 MI TEK 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	IN-SX	IN-SX	IN-SX	IN-SX
4		291	0	291	0	0	5-8	5-8	
3		285	0	285	0	0	HANGER BY OTHERS		MIN. SEAT SIZE: 1-12

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
4	204	143 / 0	0 / 0	0 / 0	0 / 0	61 / 0	0 / 0
3	200	139 / 0	0 / 0	0 / 0	0 / 0	61 / 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.

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED (LC)	
FR-TO		FROM	TO	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	-77.4	-77.4 0.05 (1)	10.00	1-3	0 / 3	0.00 (1)
4-3	0 / 0	-236.9	-236.9 0.15 (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 = 11-3-0
END DISTANCE = 2-0-0
END SPAN CARRIED = 11-3-0
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, NBCC 2010

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

(55 % OF 27.2 P.S.F. G.S.L. 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=0.05 (1-2:1) , BC=0.15 (3-4:1) , WB=0.01 (2-3:1) , SSI=0.19 (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)
				MAX MIN	MAX MIN
MT20	618	354	1667	822	2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

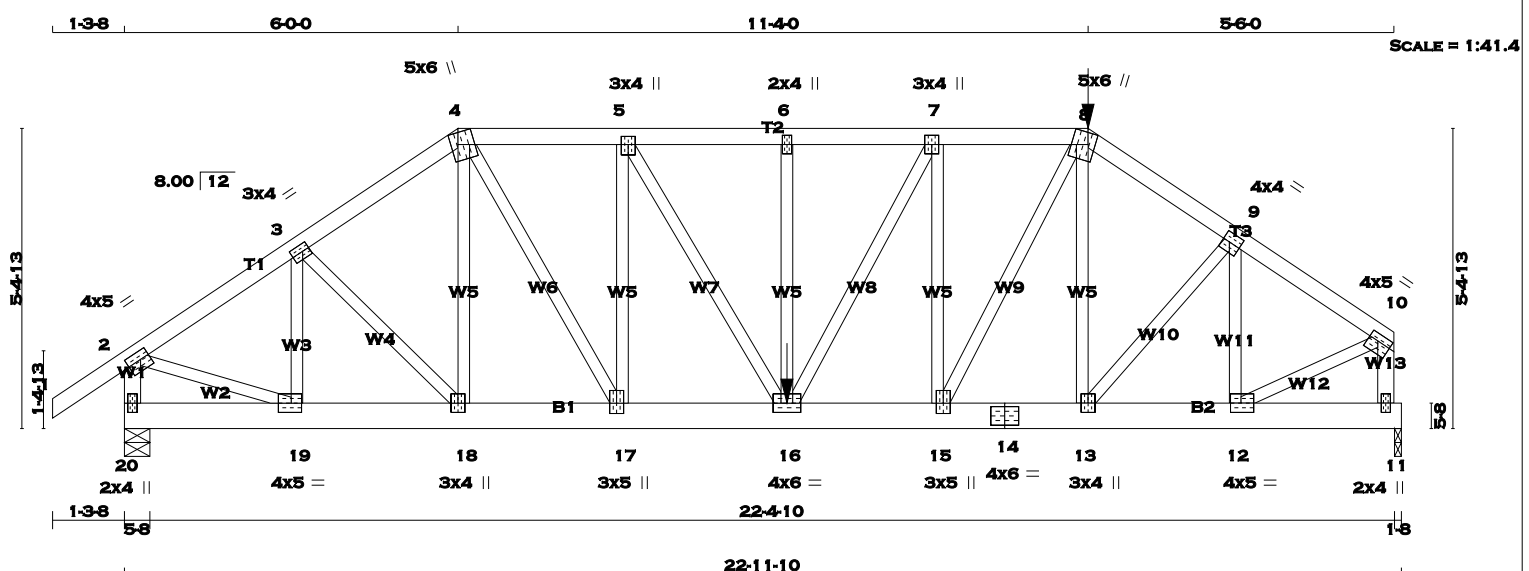
JSI GRIP= 0.07 (3) (INPUT = 0.90)
JSI METAL= 0.02 (2) (INPUT = 1.00)



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LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2
4 - 8	2x4	DRY	No.2
8 - 10	2x4	DRY	No.2
20 - 2	2x4	DRY	No.2
11 - 10	2x4	DRY	No.2
20 - 14	2x6	DRY	No.2
14 - 11	2x6	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2

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
4-8	12	TOP
8-10	12	TOP
20-2	12	TOP
11-10	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
20-14	12	SIDE(8.7)
14-11	12	SIDE(8.7)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMWW-t	MT20	4.0	5.0	1.75 2.00
3	TMWW-t	MT20	3.0	4.0	1.50 1.50
4	TTWW+m	MT20	5.0	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	UPLIFT	IN-SX
20	2399	0	2399	0	5-8
11	2742	0	2742	0	1-8

UNFACTORED REACTIONS						
JT	1ST LCASE	MAX/MIN.	COMPONENT	REACTIONS		
20	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
20	1680	1193 / 0	0 / 0	0 / 0	0 / 0	487 / 0
11	1926	1337 / 0	0 / 0	0 / 0	0 / 0	589 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.63 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 29	-77.4	-77.4 0.06 (1)	10-00	19-3	-714 / 0	0.07 (1)
2-3	-2592 / 0	-77.4	-77.4 0.07 (1)	5.58	3-18	0 / 361	0.04 (1)
3-4	-2926 / 0	-77.4	-77.4 0.08 (1)	5.32	18-4	-162 / 0	0.03 (1)
4-5	-3350 / 0	-77.4	-77.4 0.08 (1)	5.04	4-17	0 / 1839	0.23 (1)
5-6	-4044 / 0	-77.4	-77.4 0.09 (1)	4.66	17-5	-1421 / 0	0.30 (1)
6-7	-4044 / 0	-145.9	-145.9 0.13 (1)	4.63	5-16	0 / 1368	0.17 (1)
7-8	-3540 / 0	-145.9	-145.9 0.11 (1)	4.90	16-6	-272 / 0	0.06 (1)
8-9	-3260 / 0	-77.4	-77.4 0.08 (1)	5.11	16-7	0 / 1062	0.13 (1)
9-10	-2730 / 0	-77.4	-77.4 0.07 (1)	5.48	15-7	-1375 / 0	0.29 (1)
20-2	-2345 / 0	0.0	0.0 0.13 (1)	7.33	15-8	0 / 1790	0.22 (1)
11-10	-2675 / 0	0.0	0.0 0.15 (1)	6.97	13-8	-353 / 0	0.07 (1)
					13-9	0 / 642	0.08 (1)
20-19	0 / 0	-17.5	-17.5 0.03 (1)	10.00	12-9	-1032 / 0	0.11 (1)
19-18	0 / 2166	-17.5	-17.5 0.17 (1)	10.00	2-19	0 / 2275	0.28 (1)
18-17	0 / 2415	-17.5	-17.5 0.18 (1)	10.00	12-10	0 / 2516	0.31 (1)
17-16	0 / 3350	-17.5	-17.5 0.32 (1)	10.00			
16-15	0 / 3540	-33.0	-33.0 0.33 (1)	10.00			
15-14	0 / 2689	-33.0	-33.0 0.19 (1)	10.00			
14-13	0 / 2689	-33.0	-33.0 0.19 (1)	10.00			
13-12	0 / 2280	-33.0	-33.0 0.17 (1)	10.00			
12-11	0 / 0	-33.0	-33.0 0.03 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)					
JT	LOC.	LC1	MAX-	MAX+	FACE DIR.
8	17-4-0	-327	-327	---	FRONT VERT
16	11-11-0	-2002	-2002	---	FRONT VERT

TOTAL WEIGHT = 2 X 126 = 252 lb

DESIGN CRITERIA

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

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

SPACING = 24.0 IN. C/C

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

GIRDER TYPE: CPrimeHip
LEFT SETBACK = 6-0-0
RIGHT SETBACK = 5-7-10
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 11-0-8 OF SPAN MEASURED FROM THE RIGHT.

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

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

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

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

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

CSI: TC=0.15 (10-11:1) , BC=0.33 (15-16:1) , WB=0.31 (10-12:1) , SSI=0.10 (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

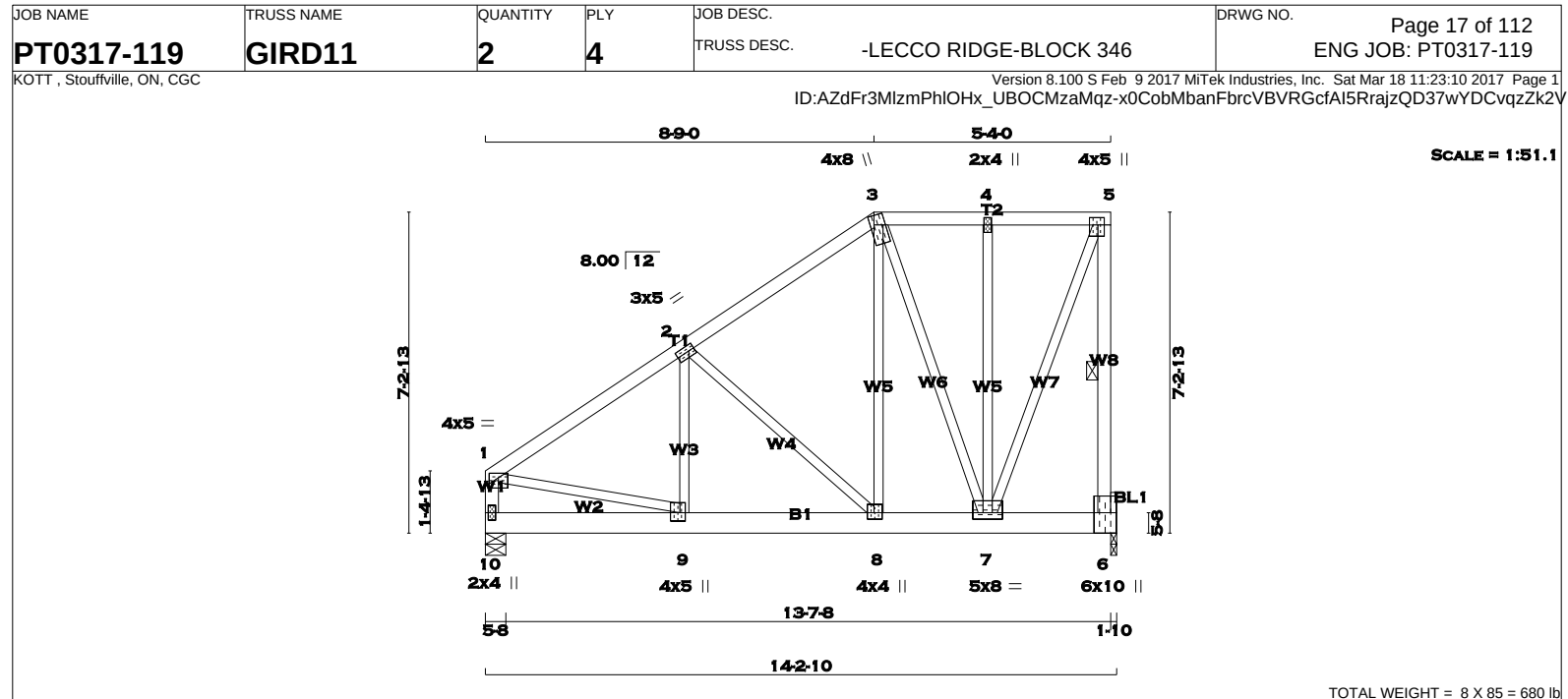
PLATE PLACEMENT TOL. = 0.250 inches

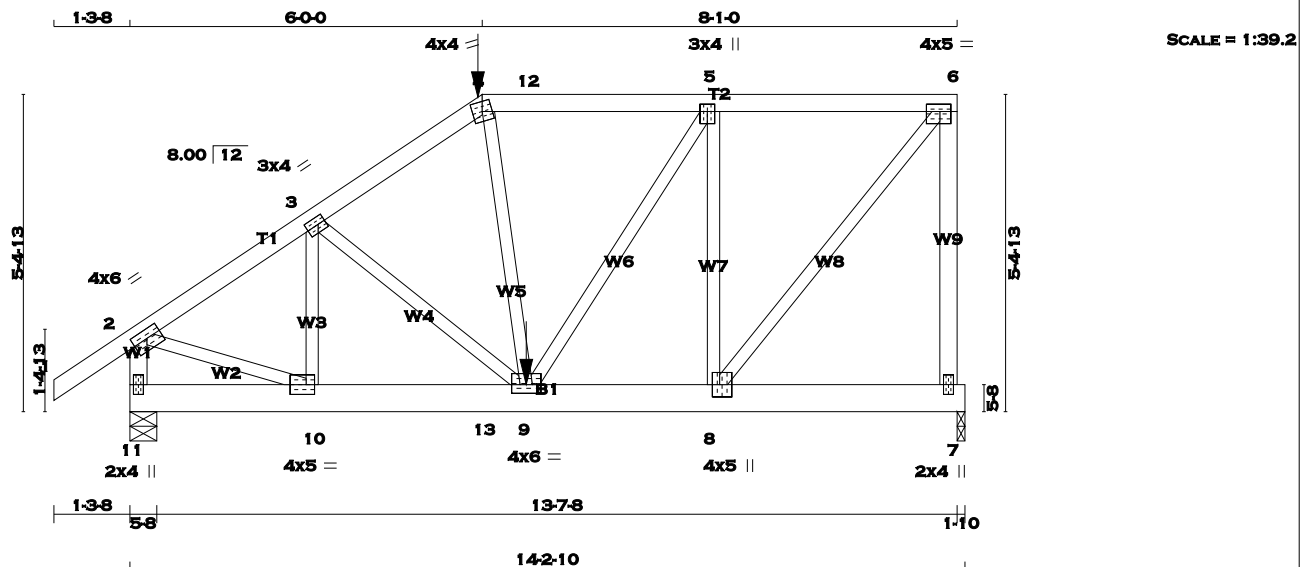
PLATE ROTATION TOL. = 0.250 degrees

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TOTAL WEIGHT = 2 X 76 = 152 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	2x4	DRY	No.2	SPF
11 - 2	2x4	DRY	No.2	SPF
11 - 7	2x6	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMWV-t	MT20	4.0	6.0	1.75	3.00
3	TMWV-t	MT20	3.0	4.0	1.50	1.50
4	TTW-m	MT20	4.0	4.0		
5	TMWV-t	MT20	3.0	4.0	1.50	1.50
6	TMWV-t	MT20	4.0	5.0	1.50	2.25
7	BMV1+p	MT20	2.0	4.0		
8	BMWV-t	MT20	4.0	5.0	2.50	1.50
9	BMWV-t	MT20	4.0	6.0	1.75	3.00
10	BMWV-t	MT20	4.0	5.0	2.00	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) 348.1 lbs FACTORED DOWN AT 6-0-0 ON TOP CHORD, AND 916.2 lbs FACTORED DOWN AT 6-9-0 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									
		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
7		1306	0	1306	0	0	1-10	1-10	
11		1557	0	1557	0	0	5-8	5-8	

UNFACTORED REACTIONS							
		1ST LCASE	MAX./MIN. COMPONENT REACTIONS				
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
7		915	648 / 0	0 / 0	0 / 0	0 / 0	267 / 0
11		1093	762 / 0	0 / 0	0 / 0	0 / 0	331 / 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 = 5.05 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.

LOADING									
TOTAL LOAD CASES: (4)									
CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. LC1 (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM	TO		FR-TO				
1-2	0 / 29	-77.4	-77.4	0.11 (1)	10.00	10-3	-296 / 13	0.06 (1)	
2-3	-1572 / 0	-77.4	-77.4	0.14 (1)	5.10	3-9	-37 / 9	0.02 (4)	
3-4	-1610 / 0	-77.4	-77.4	0.14 (1)	5.05	4-9	0 / 291	0.07 (1)	
4-12	-1370 / 0	-145.9	-145.9	0.26 (1)	5.22	9-5	0 / 793	0.20 (1)	
12-5	-1370 / 0	-77.4	-77.4	0.26 (1)	5.22	8-5	-1057 / 0	0.44 (1)	
5-6	-948 / 0	-77.4	-77.4	0.24 (1)	6.03	8-6	0 / 1490	0.37 (1)	
7-6	-1274 / 0	0.0	0.0	0.61 (1)	7.10	2-10	0 / 1384	0.34 (1)	
11-2	-1506 / 0	0.0	0.0	0.17 (1)	6.65				
11-10	0 / 0	-33.0	-33.0	0.04 (4)	10.00				
10-13	0 / 1318	-33.0	-33.0	0.24 (1)	10.00				
13-9	0 / 1318	-33.0	-33.0	0.24 (1)	10.00				
9-8	0 / 948	-17.5	-17.5	0.17 (1)	10.00				
8-7	0 / 0	-17.5	-17.5	0.03 (4)	10.00				

FACTORED CONCENTRATED LOADS (LBS)						
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.
4	6-0-0	-348	-348	---	FRONT	VERT
9	6-9-0	-916	-916	---	FRONT	VERT

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

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

SPACING = 24.0 IN. C/C

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

GIRDER TYPE: CPrimeHip
LEFT SETBACK = 6-0-0
RIGHT SETBACK = 0-0
END SETBACK = 6-0-0
END WALL WIDTH = 5-8
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDTL LOADS BASED ON 55 % OF GSL.
LOADS APPLIED TO FIRST 6-9-0 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 (0.47")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.47")
CALCULATED VERT. DEFL.(TL) = L/999 (0.06")

CSI: TC=0.61 (6-7:1), BC=0.24 (9-10:1), WB=0.44 (5-8:1), SSI=0.17 (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

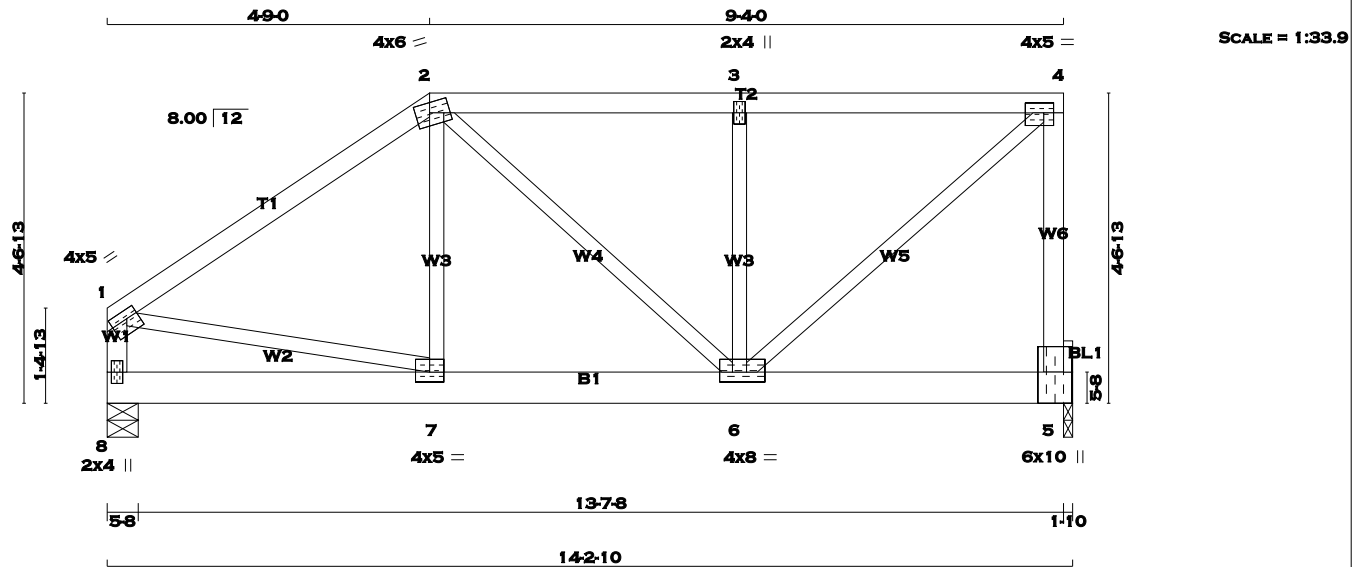
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 0.50 degrees
KOTT
CONTINUED ON PAGE 2



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TOTAL WEIGHT = 8 X 68 = 541 lb [M]

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

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

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
1-2	12	TOP
2-4	12	TOP
4-5	12	TOP
8-1	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
8-5	4	SIDE(582.5)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	

STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.

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

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

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
1	TMVW-t	MT20	4.0	5.0	1.50 2.00

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	UP	IN-SX
5	6085	0	6085	0	1-10
8	6073	0	6073	0	5-8

UNFACTORED REACTIONS							
1ST LCASE	MAX/MIN	COMPONENT	REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	4270	2989 / 0	0 / 0	0 / 0	0 / 0	1281 / 0	0 / 0
8	4262	2982 / 0	0 / 0	0 / 0	0 / 0	1281 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.90 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		CHORDS		WEBS	
MEMB.	FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MEMB.	FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)
FR-TO		FROM TO		FR-TO		FROM TO	
1-2	-5894 / 0	-77.4 -77.4	0.19 (1)	4.90	7-2	0 / 3055	0.17 (1)
2-3	-4843 / 0	-77.4 -77.4	0.11 (1)	5.35	2-6	-176 / 0	0.03 (1)
3-4	-4843 / 0	-77.4 -77.4	0.12 (1)	5.35	6-3	-406 / 0	0.03 (1)
5-4	-4553 / 0	0.0 0.0	0.41 (1)	6.97	6-4	0 / 6658	0.37 (1)
8-1	-4469 / 0	0.0 0.0	0.14 (1)	7.02	1-7	0 / 4999	0.28 (1)
8-7	0 / 0	-794.2 -794.2	0.34 (1)	10.00			
7-6	0 / 4973	-794.2 -794.2	0.49 (1)	10.00			
6-5	-158 / 0	-794.2 -794.2	0.31 (1)	6.25			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 35-2-8
END DISTANCE = 14-2-10
END SPAN CARRIED = 35-2-8
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

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

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

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

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

CSI: TC=0.41 (4-5:1), BC=0.49 (6-7:1), WB=0.37 (4-6:1), SSI=0.38 (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= 0.87 (1) (INPUT = 0.90)
JSI METAL= 0.45 (1) (INPUT = 1.00)



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IN THE DESIGN OF THIS COMPONENT.

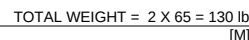
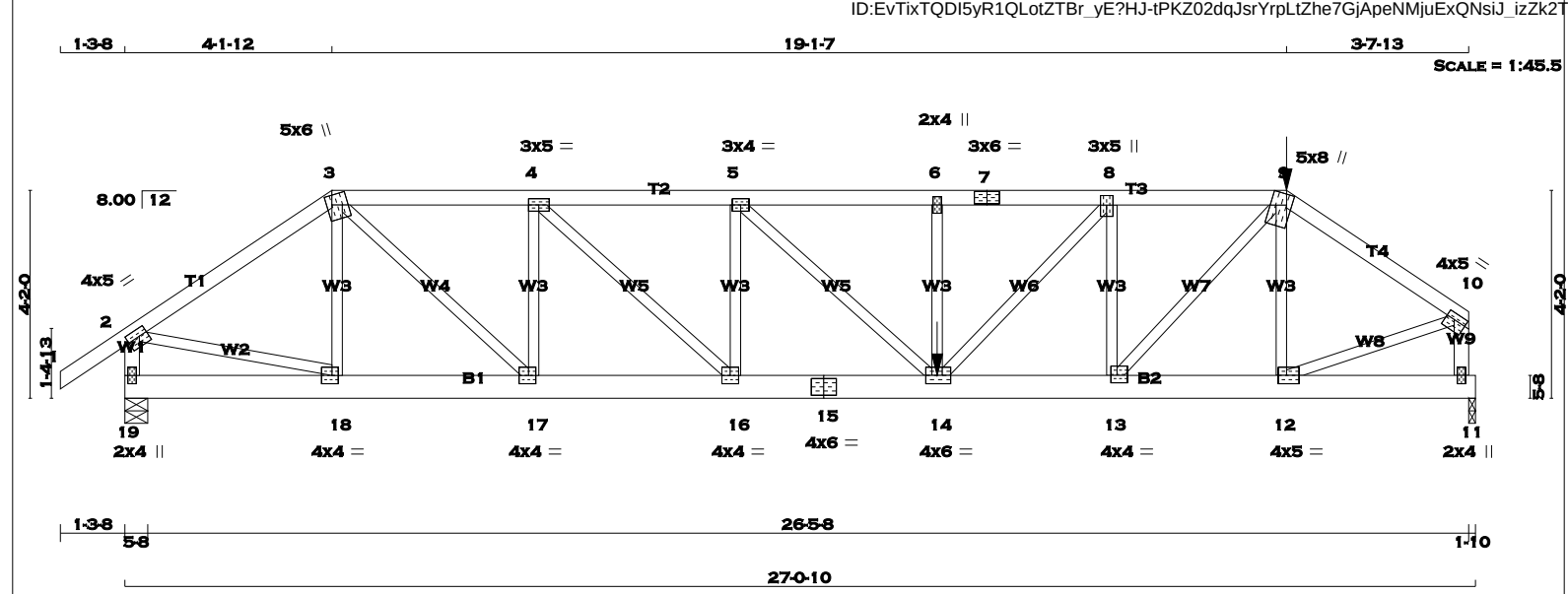


PLATE ROTATION. D. KOTT



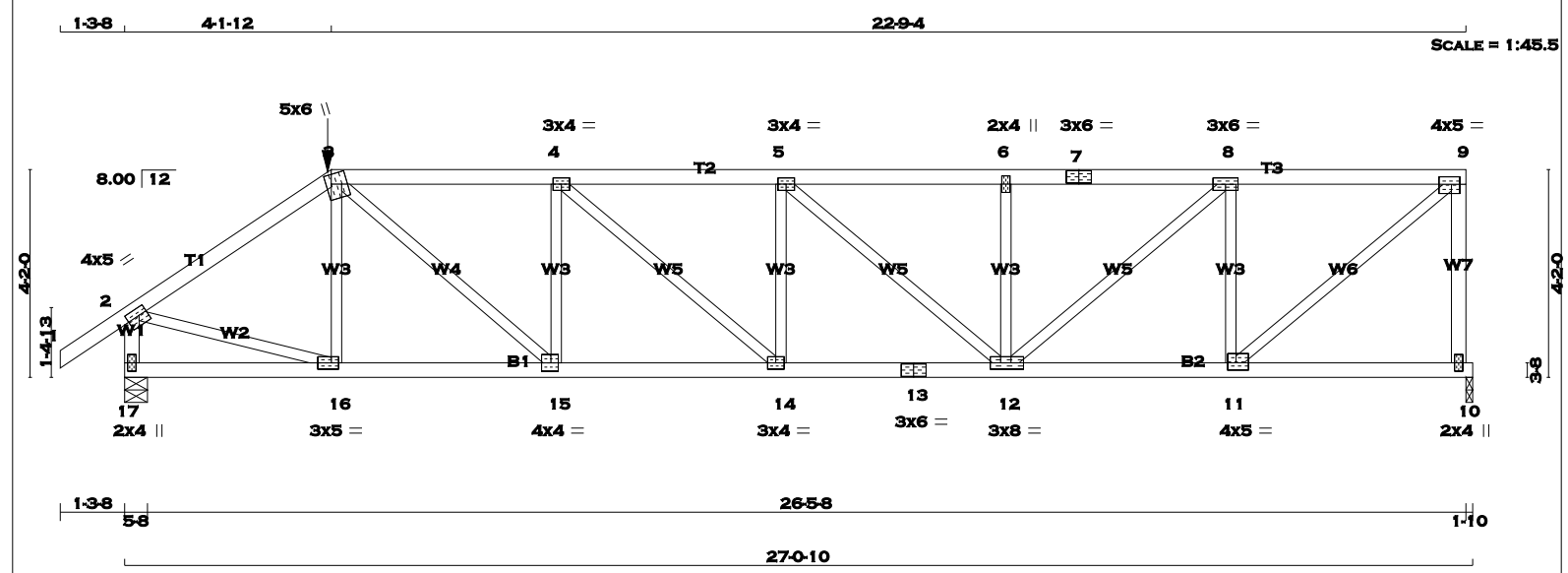
LUMBER			DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER			DESIGN CRITERIA		
N. L. G. A. RULES			BEARINGS			*** SPECIAL LOADS ANALYSIS ***		
CHORDS	SIZE	LUMBER	FACTORED GROSS REACTION			GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.		
1 - 3	2x4	DRY	MAXIMUM FACTORED INPUT REQRD			LOADS WERE DERIVED FROM USER INPUT		
3 - 7	2x4	DRY	DOWN HORZ UPLIFT IN-SX			NO FURTHER MODIFICATIONS WERE MADE		
7 - 9	2x4	DRY	19 2072 0 2072 0 0 5-8 5-8			SPECIFIED LOADS:		
9 - 10	2x4	DRY	11 2714 0 2714 0 0 1-10 1-10			TOP CH. LL = 23.3 PSF		
19 - 2	2x4	DRY	UNFACTORED REACTIONS			DL = 3.0 PSF		
11 - 10	2x4	DRY	1ST LCASE MAX/MIN. COMPONENT REACTIONS			BOT CH. LL = 0.0 PSF		
19 - 15	2x6	DRY	JT COMBINED SNOW LIVE PERM. LIVE WIND DEAD SOIL			DL = 7.0 PSF		
15 - 11	2x6	DRY	19 1451 1030 / 0 0 / 0 0 / 0 421 / 0 0 / 0			TOTAL LOAD = 33.3 PSF		
ALL WEBS	2x3	DRY	11 1906 1328 / 0 0 / 0 0 / 0 578 / 0 0 / 0			SPACING = 24.0 IN. C/C		
EXCEPT			BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 19, 11			LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12		
DRY: SEASONED LUMBER.			BRACING			GIRDER TYPE: CPrimeHip		
DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:			TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.10 FT.			LEFT SETBACK = 4-1-12		
CHORDS #ROWS SURFACE SPACING (IN) LOAD(PLF)			MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.			RIGHT SETBACK = 3-9-6		
TOP CHORDS : (0.122"x3") SPIRAL NAILS			ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.			END SETBACK = 6-0-0		
1-3	1	12	LOADING			END WALL WIDTH = 5-8		
3-7	1	12	TOTAL LOAD CASES: (4)			CORNER FRAMING TYPE: CONVENTIONAL		
7-9	1	12	CHORDS			END JACK TYPE: CONVENTIONAL		
9-10	1	12	MEMB. MAX. FACTORED FORCE (LBS)			APPLIED TO FRONT SIDE		
19-2	1	12	VERT. LOAD LC1 MAX UNBRAC LENGTH			- ADDTL LOADS BASED ON 55 % OF GSL.		
11-10	1	12	FR-TO FROM TO			LOADS APPLIED TO FIRST 10-8-8 OF SPAN		
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS			1-2 0 / 29 -77.4 -77.4 0.06 (1) 10.00 18-3 -368 / 0 0.05 (1)			MEASURED FROM THE RIGHT.		
19-15	2	12	2-3 -2360 / 0 -77.4 -77.4 0.15 (1) 5.69 3-17 0 / 2023 0.25 (1)			*** NON STANDARD GIRDER ***		
15-11	2	12	3-4 -3428 / 0 -77.4 -77.4 0.14 (1) 4.94 17-4 -1330 / 0 0.17 (1)			ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.		
WEBS : (0.122"x3") SPIRAL NAILS			4-5 -4487 / 0 -77.4 -77.4 0.17 (1) 4.10 16-5 0 / 1452 0.18 (1)			THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010		
2x3	1	6	5-6 -5098 / 0 -77.4 -77.4 0.17 (1) 4.18 16-5 -880 / 0 0.11 (1)			THIS DESIGN COMPLIES WITH:		
NAILS TO BE DRIVEN FROM ONE SIDE ONLY.			6-7 -5098 / 0 -145.9 -145.9 0.23 (1) 4.10 14-6 0 / 838 0.10 (1)			- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014		
GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.			7-8 -5098 / 0 -145.9 -145.9 0.23 (1) 4.10 14-6 -383 / 0 0.05 (1)			- CSA 086-09		
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.			8-9 -4102 / 0 -145.9 -145.9 0.20 (1) 4.52 14-8 0 / 1468 0.18 (1)			- TPIC 2011		
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.			9-10 -2961 / 0 -77.4 -77.4 0.13 (1) 5.24 13-8 -1648 / 0 0.21 (1)			(55 % OF 27.2 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)			19-2 -2040 / 0 0.0 0.0 0.11 (1) 7.73 13-9 0 / 2447 0.30 (1)			ALLOWABLE DEFL.(LL)= L/360 (0.90")		
JT TYPE	PLATES	W LEN Y X	11-10 -2662 / 0 0.0 0.0 0.15 (1) 6.98 12-9 -731 / 0 0.09 (1)			CALCULATED VERT. DEFL.(LL) = L/999 (0.10")		
2 TMVW-t	MT20	4.0 5.0 1.75 2.00	12-10 0 / 2609 0.32 (1)			ALLOWABLE DEFL.(TL)= L/360 (0.90")		
FACTORED CONCENTRATED LOADS (LBS)			19-18 0 / 0 -17.5 -17.5 0.02 (4) 10.00			CALCULATED VERT. DEFL.(TL) = L/999 (0.18")		
JT	LOC.	LC1 MAX- MAX+	18-17 0 / 1950 -17.5 -17.5 0.14 (1) 10.00			CSI: TC=0.23 (6-8:1) , BC=0.35 (14-16:1) , WB=0.32 (10-12:1) , SSI=0.13 (8-9:1)		
9	23-3-3	-219 -219	17-16 0 / 3428 -17.5 -17.5 0.25 (1) 10.00			DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00		
14	16-3-4	-1262 -1262	16-15 0 / 4487 -17.5 -17.5 0.35 (1) 10.00			COMP=1.00 SHEAR=1.00 TENS=1.00		
			15-14 0 / 4487 -17.5 -17.5 0.35 (1) 10.00			COMPANION LIVE LOAD FACTOR = 0.50		
			14-13 0 / 4102 -33.0 -33.0 0.33 (1) 10.00			TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .		
			13-12 0 / 2439 -33.0 -33.0 0.17 (1) 10.00			NAIL VALUES		
			12-11 0 / 0 -33.0 -33.0 0.03 (4) 10.00			PLATE GRIP(DRY) SHEAR SECTION		
						(PSI) (PLI) (PLI)		
						MAX MIN MAX MIN MAX MIN		
						618 354 1667 822 2284 1656		
						PLATE PLACEMENT TOL. = 0.250 inches		
						PLATE ROTA TOL. = 0.250 inches		



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

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2
3 - 7	2x4	DRY	No.2
7 - 9	2x4	DRY	No.2
10 - 9	2x4	DRY	No.2
17 - 2	2x4	DRY	No.2
17 - 13	2x4	DRY	No.2
13 - 10	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
SPF			
DRY: SEASONED LUMBER.			
DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:			
CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)	
TOP CHORDS : (0.122"x3") SPIRAL NAILS			
1-3	1	12	SIDE(0.0)
3-7	1	12	SIDE(34.2)
7-9	1	12	SIDE(34.2)
9-10	1	12	TOP
17-2	1	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS			
17-13	1	12	SIDE(8.7)
13-10	1	12	SIDE(8.7)
WEBS : (0.122"x3") SPIRAL NAILS			
2x3	1	6	
NAILS TO BE DRIVEN FROM ONE SIDE ONLY.			
GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.			
TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.			
SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERING. REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP.			
PLATES (table is in inches)			
JT	TYPE	PLATES	W LEN Y X
2	TMWV-t	MT20	4.0 5.0 1.75 2.00
3	TTWW+m	MT20	5.0 6.0 2.25 1.25
4	TMWV-t	MT20	3.0 4.0



DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG			
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
10	2422	0	2422	0	0	1-10	1-10		
17	2454	0	2454	0	0	5-8	5-8		
UNFACTORED REACTIONS									
JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS							
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
10	1700	1191 / 0	0 / 0	0 / 0	0 / 0	509 / 0	0 / 0		
17	1721	1210 / 0	0 / 0	0 / 0	0 / 0	511 / 0	0 / 0		
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 10, 17									
BRACING									
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.32 FT.									
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.									
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.									
LOADING									
TOTAL LOAD CASES: (4)									
CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	LC1 (PLF)	MAX CSI (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM TO			LENGTH	FR-TO			
1-2	0 / 29	-77.4	-77.4	0.06 (1)	10.00	16-3	-423 / 9	0.06 (1)	
2-3	-2776 / 0	-77.4	-77.4	0.16 (1)	5.33	3-15	0 / 1983	0.25 (1)	
3-4	-3801 / 0	-145.9	-145.9	0.29 (1)	4.56	15-4	-1149 / 0	0.16 (1)	
4-5	-4297 / 0	-145.9	-145.9	0.31 (1)	4.32	4-14	0 / 654	0.08 (1)	
5-6	-3864 / 0	-145.9	-145.9	0.24 (1)	4.60	14-5	-273 / 37	0.04 (1)	
6-7	-3864 / 0	-145.9	-145.9	0.32 (1)	4.50	5-12	-572 / 0	0.18 (1)	
7-8	-3864 / 0	-145.9	-145.9	0.32 (1)	4.50	12-6	-632 / 0	0.09 (1)	
8-9	-2532 / 0	-145.9	-145.9	0.27 (1)	5.37	12-8	0 / 1755	0.22 (1)	
10-9	-2357 / 0	0.0	0.0	0.33 (1)	7.32	11-8	-1906 / 0	0.26 (1)	
17-2	-2398 / 0	0.0	0.0	0.14 (1)	7.27	11-9	0 / 3276	0.41 (1)	
						2-16	0 / 2379	0.29 (1)	
17-16	0 / 0	-33.0	-33.0	0.08 (4)	10.00				
16-15	0 / 2295	-33.0	-33.0	0.25 (1)	10.00				
15-14	0 / 3802	-33.0	-33.0	0.37 (1)	10.00				
14-13	0 / 4297	-33.0	-33.0	0.42 (1)	10.00				
13-12	0 / 4297	-33.0	-33.0	0.42 (1)	10.00				
12-11	0 / 2532	-33.0	-33.0	0.27 (1)	10.00				
11-10	0 / 0	-33.0	-33.0	0.09 (4)	10.00				
FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE		
3	4-1-12	-241	-241	---	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 = 4-1-12
RIGHT SETBACK = 0-0
END SETBACK = 6-0-0
END WALL WIDTH = 5-8
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- 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 (0.90")
CALCULATED VERT. DEFL.(LL)= L/999 (0.10")
ALLOWABLE DEFL.(TL)= L/360 (0.90")
CALCULATED VERT. DEFL.(TL)= L/999 (0.18")

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

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

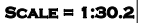
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JSI METAL= 0.59 (13) (INPUT = 1.00)

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CONTINUED ON PAGE 2

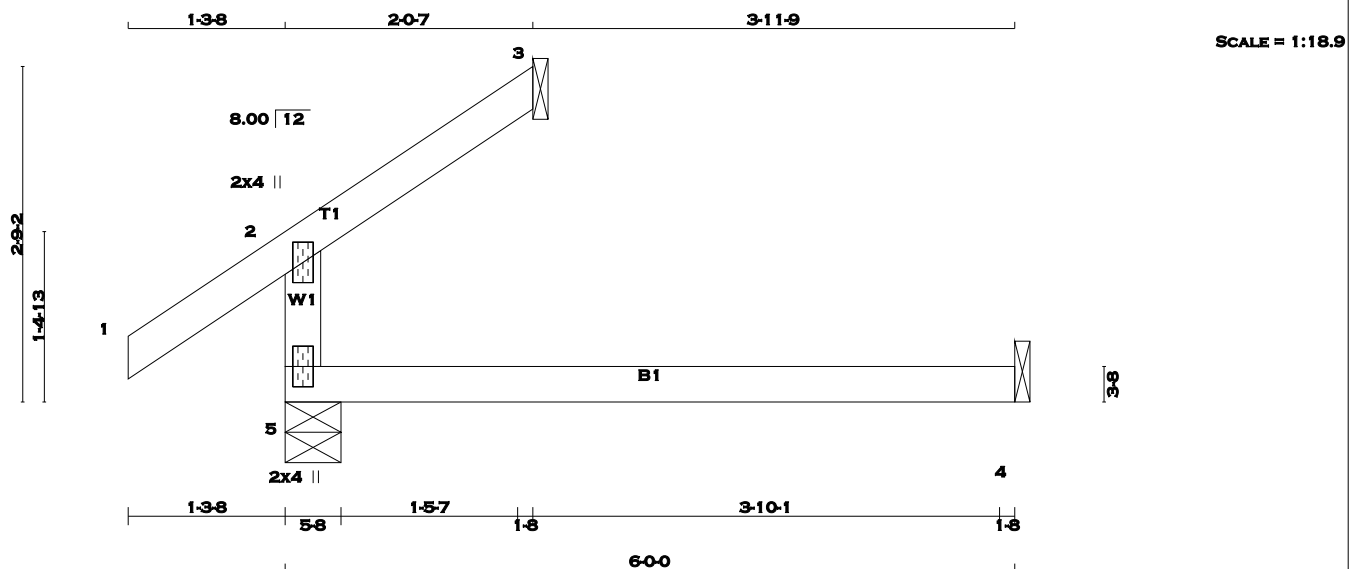
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[M]





TOTAL WEIGHT = 4 X 13 = 51 lb

LUMBER

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
5	265	0	265	0	0	5-8	5-8
3	60	0	60	0	0	1-8	1-8
4	44	0	49	0	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
	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			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM	TO		FR-TO		
5- 2	-204 / 0	0.0	0.0	0.12 (4)	7.81		
1- 2	0 / 29	-77.4	-77.4	0.10 (1)	10.00		
2- 3	-11 / 0	-77.4	-77.4	0.05 (1)	6.25		
5- 4	0 / 0	-17.5	-17.5	0.13 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

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

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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



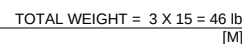
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DRY: SEASONED LUMBER.

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT IN-SX	IN-SX
5	362	0	362	0	0	5-8
3	117	0	117	0	0	1-8
4	44	0	49	0	0	1-8

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

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	254	181 / 0	0 / 0	0 / 0	0 / 0	72 / 0	0 / 0
3	80	71 / 0	0 / 0	0 / 0	0 / 0	9 / 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

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.

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 CSI (LC)
FR-TO		FROM TO		LENGTH	FR-TO		
5-2	-301 / 0	0.0	0.0	0.12 (4)	7.81		
1-2	0 / 29	-77.4	-77.4	0.10 (1)	10.00		
2-3	-22 / 0	-77.4	-77.4	0.21 (1)	6.25		
5-4	0 / 0	-17.5	-17.5	0.13 (4)	10.00		

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

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

THIS DESIGN COMPLIES WITH:

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

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

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

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES						
PLATE	GRIP(DRY) (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.

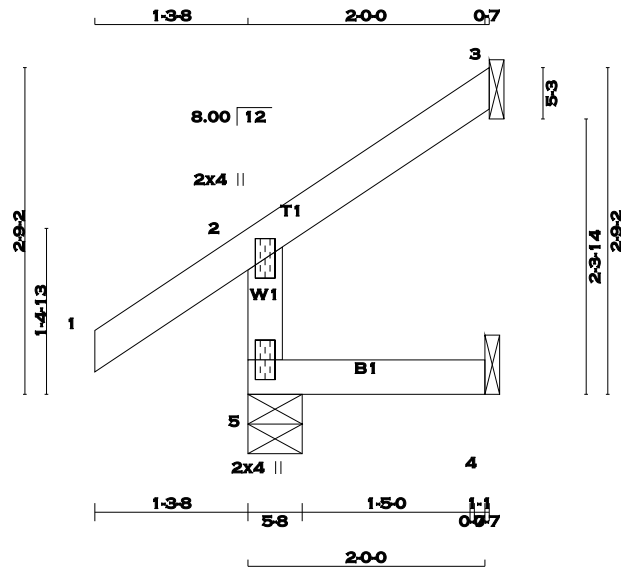
JSI GRIP= 0.19 (2) (INPUT = 0.90)
JSI METAL= 0.07 (2) (INPUT = 1.00)



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SCALE = 1:19.4

TOTAL WEIGHT = 6 X 8 = 49 lb [M]

LUMBER
N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
5	223	0	223	0	0	5-8	5-8
3	60	0	60	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				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	154	123 / 0	0 / 0	0 / 0	0 / 0	31 / 0	0 / 0
3	40	36 / 0	0 / 0	0 / 0	0 / 0	5 / 0	0 / 0
4	13	0 / 0	0 / 0	0 / 0	0 / 0	13 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS					WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM	TO		FR-TO			
5-2	-204 / 0	0.0	0.0	0.01 (4)	7.81			
1-2	0 / 29	-77.4	-77.4	0.10 (1)	10.00			
2-3	-11 / 0	-77.4	-77.4	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.

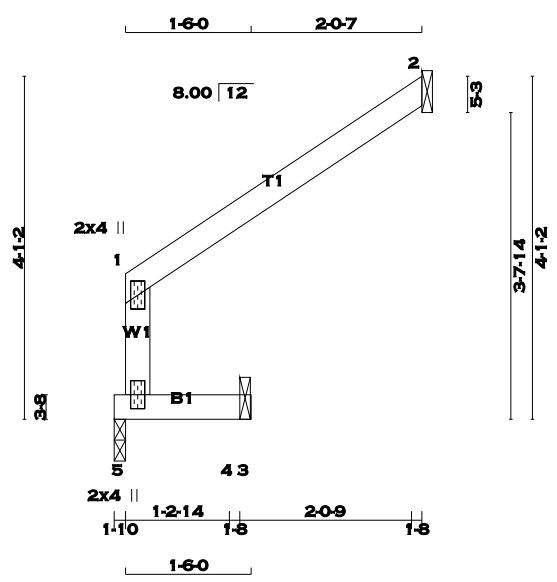
JSI GRIP= 0.13 (2) (INPUT = 0.90)
JSI METAL= 0.05 (2) (INPUT = 1.00)



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SCALE = 1:27.5

TOTAL WEIGHT = 8 lb [M][F]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
1	TMV+p	MT20	2.0	4.0	
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	123	0	123	0	0	1-10	1-10		
2	122	0	122	0	0	1-8	1-8		
4	55	0	55	0	0	1-8	1-8		

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

UNFACTORED REACTIONS							
JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	85	67 / 0	0 / 0	0 / 0	0 / 0	18 / 0	0 / 0
2	83	73 / 0	0 / 0	0 / 0	0 / 0	10 / 0	0 / 0
4	39	24 / 0	0 / 0	0 / 0	0 / 0	15 / 0	0 / 0

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

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

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

LOADING									
TOTAL LOAD CASES: (4)									
MEMB.	CHORDS		FACTORED		WEBS		FACTORED		
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX	MEMB.	MAX. FORCE (LBS)	MAX	CS	(LC)
FR-TO		FROM TO			FR-TO				
5-1	-151 / 0	0.0	0.0	0.06 (1)	7.81				
1-2	-8 / 0	-77.4	-77.4	0.12 (1)	10.00				
5-4	0 / 0	-17.5	-17.5	0.07 (1)	10.00				
4-3	0 / 0	-17.5	-17.5	0.00 (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 (0.19")
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=0.12 (1-2:1) , BC=0.07 (4-5:1) , WB=0.00 (n/a:0) , SSI=0.10 (1-2:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

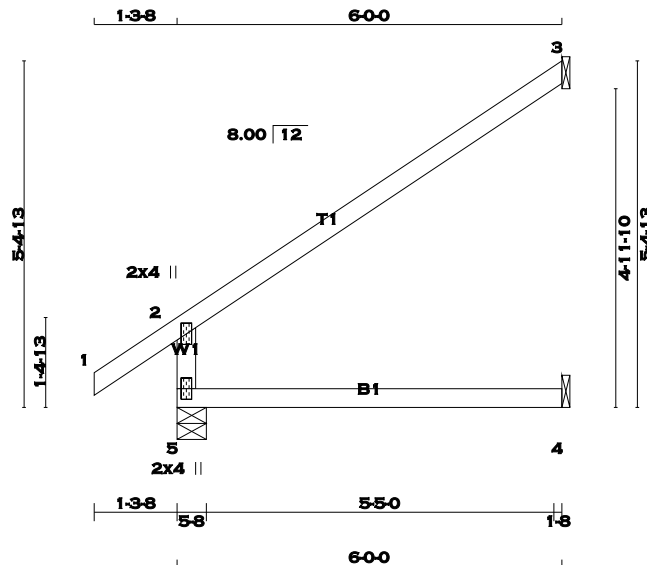
JSI GRIP= 0.10 (1) (INPUT = 0.90)
JSI METAL= 0.04 (1) (INPUT = 1.00)



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

LUMBER					DESCR.
N. L. G. A. RULES	SIZE	LUMBER	No.2	SPF	
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	457	0	457	0	0	5-8	5-8	
3	174	0	174	0	0	1-8	1-8	
4	44	0	49	0	0	1-8	1-8	

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

UNFACTORED REACTIONS

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

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		FACTORED		WEB S		FACTORED	
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1 (LC)	MAX. UNBRAC	MEMB. FORCE (LBS)	MAX. UNBRAC	LC1 (LC)	MAX. UNBRAC
FR-TO								
5-2	-396 / 0	0.0	0.0	0.12 (4)	7.81			
1-2	0 / 29	-77.4	-77.4	0.10 (1)	10.00			
2-3	-32 / 0	-77.4	-77.4	0.47 (1)	6.25			
5-4	0 / 0	-17.5	-17.5	0.13 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, 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=0.19 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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



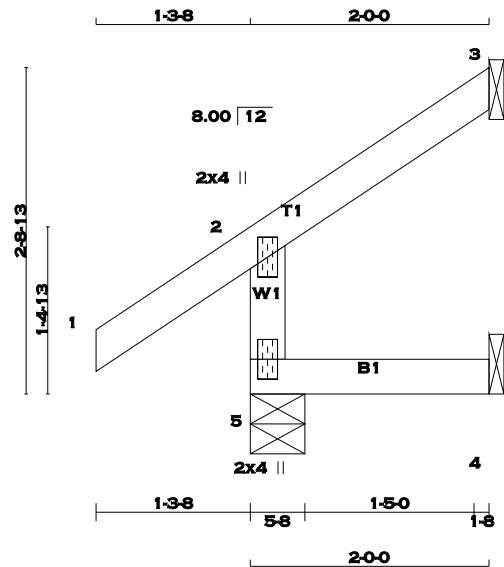
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SCALE = 1:19.3

TOTAL WEIGHT = 15 X 8 = 122 lb [M]

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

DRY: SEASONED LUMBER.

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

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

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

BEARINGS		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	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)

C H O R D S		F A C T O R E D		W E B S		F A C T O R E D	
MEMB.	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 0.01 (4)	7.81			
1-2	0 / 29	-77.4	-77.4 0.10 (1)	10.00			
2-3	-10 / 0	-77.4	-77.4 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.

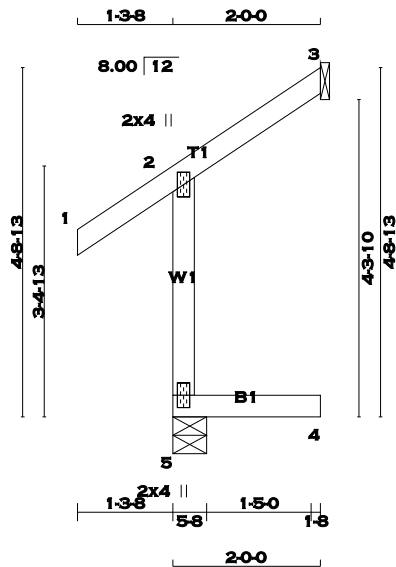
JSI GRIP= 0.13 (2) (INPUT = 0.90)
JSI METAL= 0.05 (2) (INPUT = 1.00)



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SCALE = 1:31.2

TOTAL WEIGHT = 10 lb [M]

LUMBER					DESCR.	SPF
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	No.2		
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		236	0	236	0	0	5-8	5-8	
3		59	0	59	0	0	1-8	1-8	

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
5	165	121 / 0	0 / 0	0 / 0	0 / 0	44 / 0	0 / 0		
3	40	36 / 0	0 / 0	0 / 0	0 / 0	5 / 0	0 / 0		

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS		MAX. FACTORED		FACTORED		WEBS		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD	LC1	MAX	MAX	MEMB.	FORCE (LBS)	MAX	MAX
				CSI (LC)				CSI (LC)	
				UNBRAC					
				LENGTH					
				FR-TO					
5-2	-201 / 0	0.0	0.0	0.04 (1)	7.81				
1-2	0 / 29	-77.4	-77.4	0.10 (1)	10.00				
2-3	-10 / 0	-77.4	-77.4	0.05 (1)	10.00				
5-4	0 / 0	-17.5	-17.5	0.08 (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.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.10 (1-2:1), BC=0.08 (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)



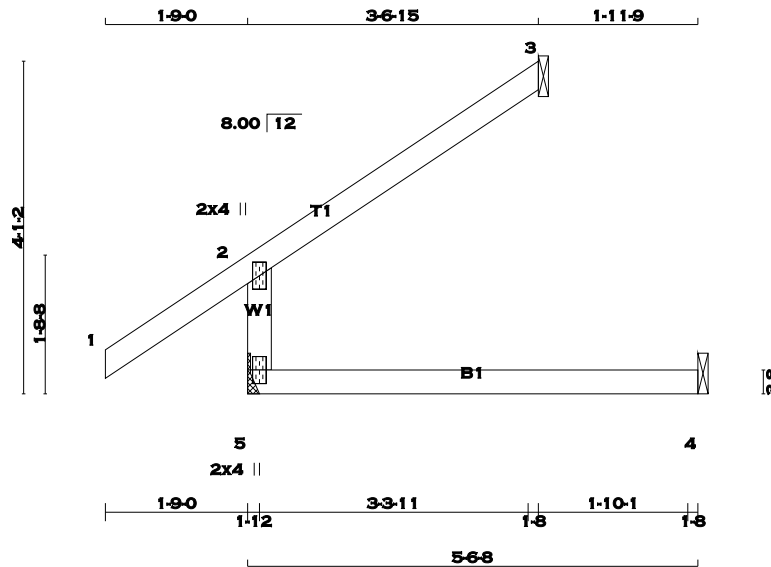
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IN THE DESIGN OF THIS COMPONENT.





SCALE = 1:28.4

TOTAL WEIGHT = 15 lb [M]

LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	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		
5	370	0	370	0	0	0
3	104	0	104	0	0	0
4	42	0	47	0	0	0

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	258	189 / 0	0 / 0	0 / 0	0 / 0	69 / 0	0 / 0
3	71	63 / 0	0 / 0	0 / 0	0 / 0	8 / 0	0 / 0
4	33	0 / 0	0 / 0	0 / 0	0 / 0	33 / 0	0 / 0

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		FACTORED		WEBS		FACTORED	
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. LOAD (LC1)	MAX. UNBRACED LENGTH (LC)	MAX. FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	MAX. FORCE (LBS)	MAX. UNBRACED LENGTH (LC)
FR-TO								
5-2	-314 / 0	0.0	0.0	0.09 (4)	7.81			
1-2	0 / 39	-77.4	-77.4	0.18 (1)	10.00			
2-3	-19 / 0	-77.4	-77.4	0.17 (1)	6.25			
5-4	0 / 0	-17.5	-17.5	0.12 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING 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 (0.03")

CSI: TC=0.18 (1-2:1), BC=0.12 (4-5:4), WB=0.00 (n/a:0), 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

AUTOSOLVE RIGHT HEEL ONLY

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

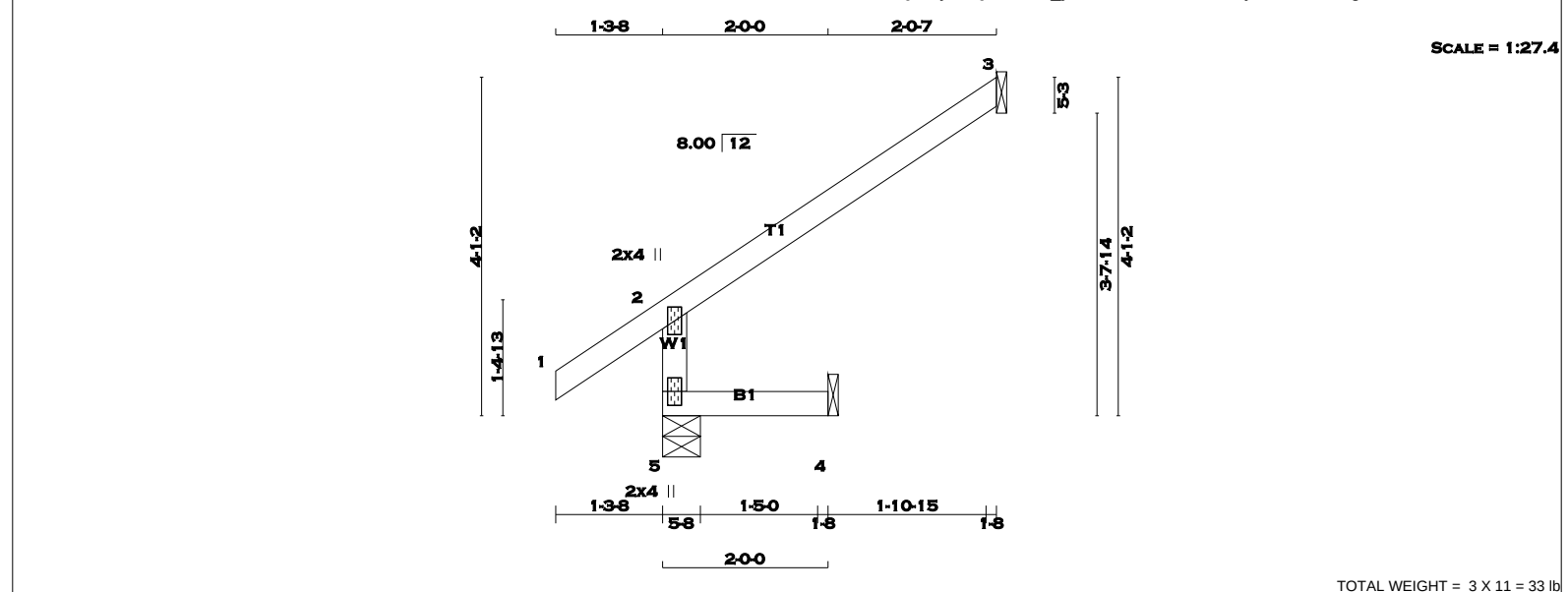
JSI GRIP= 0.20 (2) (INPUT = 0.90)
JSI METAL= 0.08 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 3 X 11 = 33 lb [M]

N. L. G. A. RULES					LUMBER	DESCR.	BUILDING DESIGNER							DESIGN CRITERIA			
CHORDS							BEARINGS										
SIZE																	
5	-	2	2x4	DRY			No.2	SPF									
1	-	3	2x4	DRY			No.2	SPF									
5	-	4	2x4	DRY	No.2	SPF											
DRY: SEASONED LUMBER.																	
							FACTORED		MAXIMUM FACTORED		INPUT		REQRD		SPECIFIED LOADS:		
							GROSS REACTION		GROSS REACTION		BRG		BRG		TOP CH. LL = 23.3 PSF		
							JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	DL = 3.0 PSF		
							5	320	0	320	0	0	5-8	5-8	BOT CH. LL = 0.0 PSF		
							3	117	0	117	0	0	1-8	1-8	DL = 7.0 PSF		
							4	16	0	18	0	0	1-8	1-8	TOTAL LOAD = 33.3 PSF		

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	320	0	320	0	0	5-8	5-8		
3	117	0	117	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	220	181 / 0	0 / 0	0 / 0	0 / 0	39 / 0	0 / 0		
3	80	71 / 0	0 / 0	0 / 0	0 / 0	9 / 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: (4)									
		CHORDS				WEBS			
		MAX. FACTORED	FACTORED			MAX. FACTORED			
MEMB.		FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX. UNBRAC	MEMB.	FORCE (LBS)	MAX. UNBRAC	

FR-TO			FROM	TO	LENGTH	FR-TO			
5-2	-301 / 0	0.0	0.0	0.01 (4)	7.81				
1-2	0 / 29	-77.4	-77.4	0.10 (1)	10.00				
2-3	-22 / 0	-77.4	-77.4	0.21 (1)	6.25				

5-4	0 / 0	-17.5	-17.5	0.02 (4)	10.00				
-----	-------	-------	-------	----------	-------	--	--	--	--

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=0.21 (2-3:1) , BC=0.02 (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

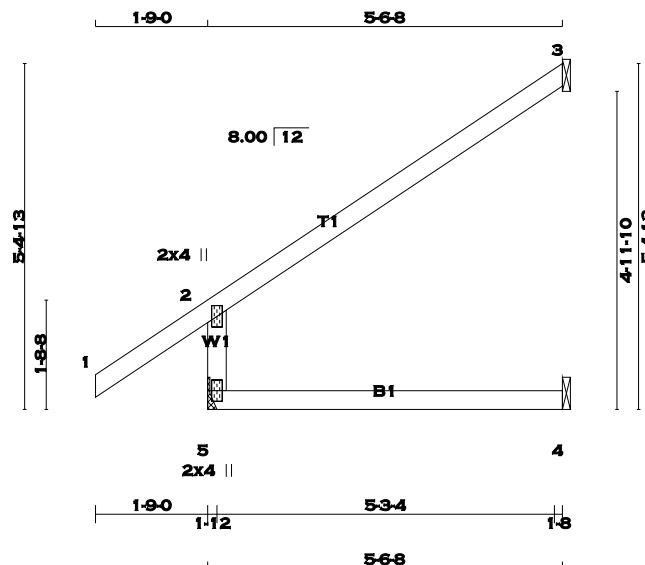
PLATE ROTATION TOL. = 5.0 Deg.

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

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SCALE = 1:36.0

TOTAL WEIGHT = 2 X 18 = 36 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		
5	465	0	465	0	0	0
3	161	0	161	0	0	0
4	42	0	47	0	0	0

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	PERM.LIVE				
5	323	247 / 0	0 / 0	0 / 0	0 / 0	0 / 0	76 / 0	0 / 0
3	109	97 / 0	0 / 0	0 / 0	0 / 0	0 / 0	12 / 0	0 / 0
4	33	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	33 / 0	0 / 0

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		FACTORED		WEBS		FACTORED	
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. LC1 (PLF)	MAX. UNBRACED LENGTH (LC)	MAX. FORCE (LBS)	MAX. LC1 (PLF)	MAX. UNBRACED LENGTH (LC)	MAX. FORCE (LBS)
FR-TO								
5-2	-410 / 0	0.0	0.0	0.09 (4)	7.81			
1-2	0 / 39	-77.4	-77.4	0.18 (1)	10.00			
2-3	-30 / 0	-77.4	-77.4	0.40 (1)	6.25			
5-4	0 / 0	-17.5	-17.5	0.12 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING 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 (0.03")

CSI: TC=0.40 (2-3:1), BC=0.12 (4-5:4), WB=0.00 (n/a:0), SSI=0.17 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES			
PLATE	GRIP(DRY)	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= 0.26 (2) (INPUT = 0.90)
JSI METAL= 0.10 (2) (INPUT = 1.00)



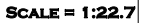
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[M]

DRY: SEASONED LUMBER.

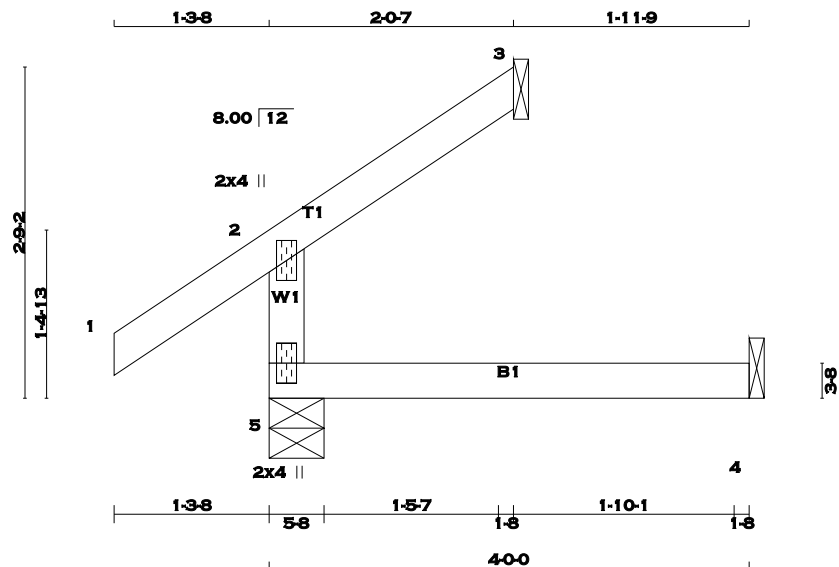
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

Professional Engineer Seal for R. M. Trevisan, License No. 100136551, Province of Ontario, dated March 17th, 2017.

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





TOTAL WEIGHT = 2 X 10 = 21 lb [M]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	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			DOWN			BRG	IN-SX	BRG	IN-SX
JT	VERT	HORZ	JT	VERT	HORZ	JT	VERT	HORZ	UPLIFT	IN-SX	JT	VERT
5	244	0	244	0	0	5-8	5-8				5-8	
3	60	0	60	0	0	1-8	1-8				1-8	
4	30	0	34	0	0	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		WIND	DEAD	SOIL
JT	COMBINED	SNOW	LIVE			
5	171	123 / 0	0 / 0	0 / 0	48 / 0	0 / 0
3	40	36 / 0	0 / 0	0 / 0	5 / 0	0 / 0
4	24	0 / 0	0 / 0	0 / 0	24 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS			WEBS		
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. (LC)	UNBRACED LENGTH	MEMB. MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO			
5-2	-204 / 0	0.0	0.0	0.05 (4)	7.81
1-2	0 / 29	-77.4	-77.4	0.10 (1)	10.00
2-3	-11 / 0	-77.4	-77.4	0.05 (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=0.10 (1-2:1), BC=0.06 (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)



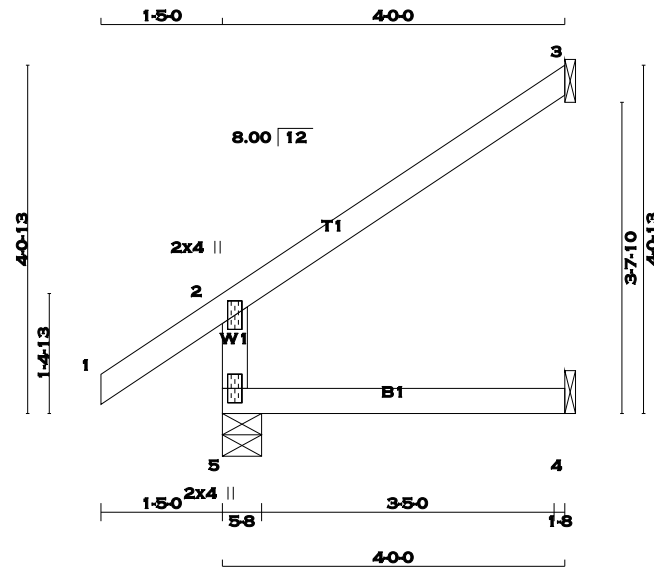
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SCALE = 1:26.9

TOTAL WEIGHT = 4 X 13 = 53 lb [M]

LUMBER
N. L. G. A. RULES

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

SPF
SPF
SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
5	349	0	349	0	5-8	5-8
3	116	0	116	0	1-8	1-8
4	30	0	34	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	242	186 / 0	0 / 0	0 / 0	0 / 0	56 / 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: (5)

MEMB.	CHORDS		FACTORED		MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. UNBRACED LENGTH	MEMB. FORCE (LBS)	MAX. FACTORED FORCE (LBS)
	MAX. FACTORED	FACTORED	VERT. LOAD (PLF)	MAX. UNBRACED LENGTH					
FR-TO									
5-2	-309 / 0	0.0	0.0	0.05 (4)	7.81				
1-2	0 / 32	-77.4	-77.4	0.12 (1)	10.00				
2-3	-21 / 0	-77.4	-77.4	0.21 (1)	6.25				
5-4	0 / 0	-17.5	-17.5	0.06 (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 (0.01")

CSI: TC=0.21 (2-3:1), BC=0.06 (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.

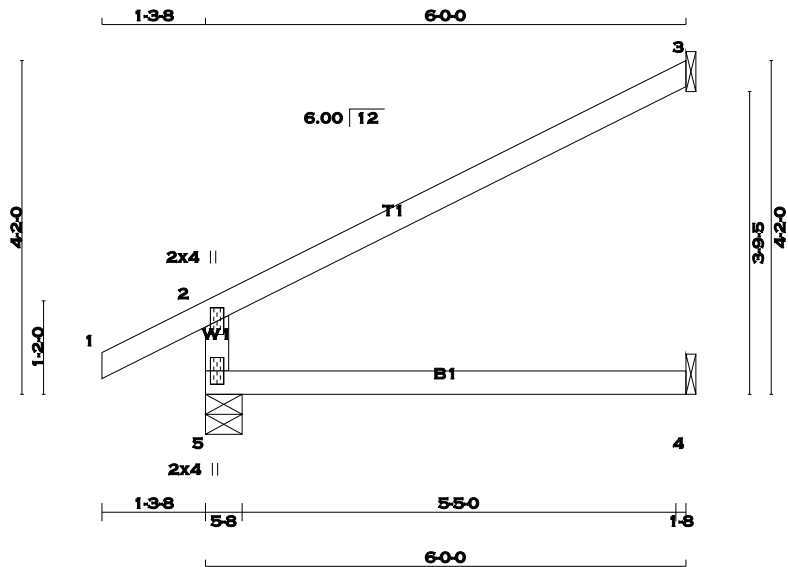
JSI GRIP= 0.20 (2) (INPUT = 0.90)
JSI METAL= 0.08 (2) (INPUT = 1.00)



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SCALE = 1:28.8

TOTAL WEIGHT = 18 X 17 = 308 lb [M]

LUMBER				
N. L. G. A. RULES	SIZE	LUMBER	DESCR.	SPF
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	IN-SX
5	457	0	457	0	0	5-8	5-8	
3	174	0	174	0	0	1-8	1-8	
4	43	0	49	0	0	1-8	1-8	

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

UNFACTORED REACTIONS

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

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		FACTORED		WEB S		FACTORED	
	MAX. FACTORED	FORCE	VERT. LOAD	LC1 MAX	MAX. UNBRAC	MEMB.	MAX. FORCE	MAX. CSI (LC)
	(LBS)	(LBS)	(PLF)	(LC)	(LC)		(LBS)	(LC)
FR-TO			FROM	TO	LENGTH	FR-TO		
5-2	-395 / 0		0.0	0.0	0.13 (4)	7.81		
1-2	0 / 23		-77.4	-77.4	0.10 (1)	10.00		
2-3	-26 / 0		-77.4	-77.4	0.47 (1)	6.25		
5-4	0 / 0		-17.5	-17.5	0.13 (4)	10.00		

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

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

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

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX 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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A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.

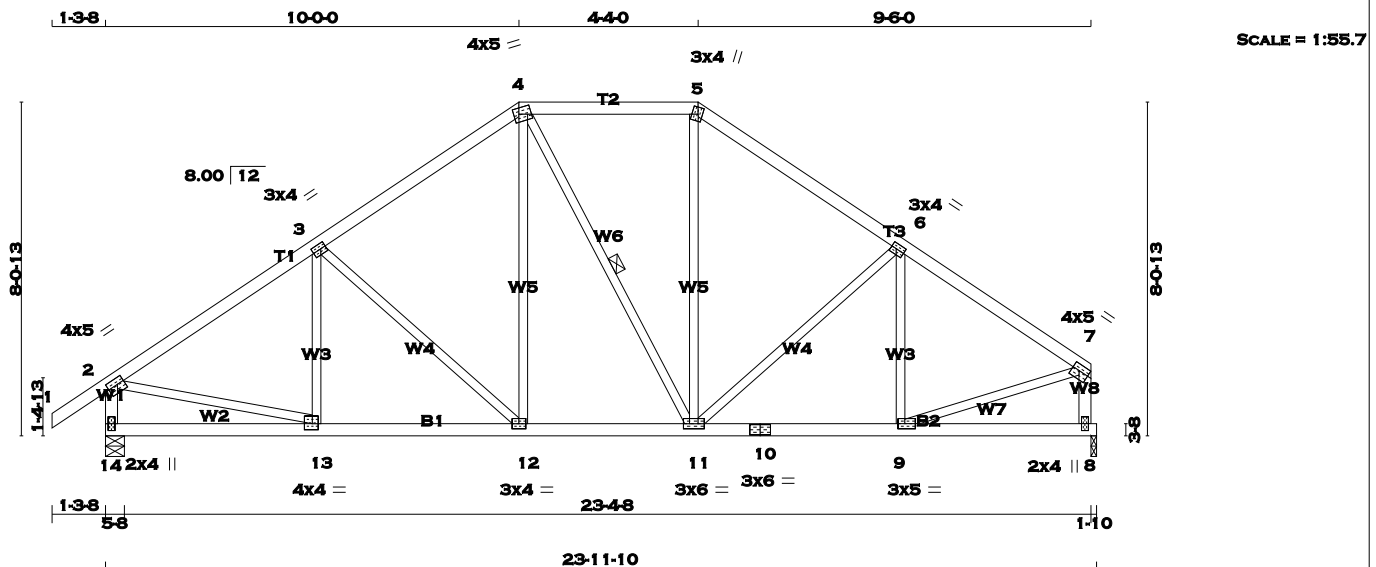
C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED MAX CSI (LC)
FR-TO		FROM TO		LENGTH	FR-TO		
1-2	0/29	-77.4	-77.4	0.10 (1)	10.00	3-13	-92/28 0.05 (1)
2-3	0/19	-77.4	-77.4	0.19 (1)	10.00	13-4	0/211 0.05 (4)
3-4	-1161/0	-77.4	-77.4	0.16 (1)	5.74	4-12	0/211 0.05 (1)
4-5	-1066/0	-77.4	-77.4	0.18 (1)	5.91	12-6	-390/0 0.29 (1)
5-6	-1066/0	-77.4	-77.4	0.18 (1)	5.91	12-6	0/271 0.06 (1)
6-7	-1121/0	-77.4	-77.4	0.15 (1)	5.83	10-6	0/135 0.04 (4)
7-8	0/19	-77.4	-77.4	0.17 (1)	10.00	10-7	0/52 0.02 (4)
14-2	-226/0	0.0	0.0	0.02 (1)	7.81	14-3	-1393/0 0.68 (1)
9-8	-100/0	0.0	0.0	0.01 (1)	7.81	7-9	-1335/0 0.56 (1)
14-13	0/1016	-17.5	-17.5	0.32 (4)	10.00		
13-12	0/952	-17.5	-17.5	0.33 (4)	10.00		
12-11	0/919	-17.5	-17.5	0.29 (4)	10.00		
11-10	0/919	-17.5	-17.5	0.29 (4)	10.00		
10-9	0/911	-17.5	-17.5	0.28 (4)	10.00		

JSI GRIP= 0.89 (3) (INPUT = 0.90)
JSI METAL= 0.38 (14) (INPUT = 1.00)



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TOTAL WEIGHT = 108 lb
[M][F]

LUMBER		N. L. G. A. RULES		LUMBER	DESCR.
CHORDS	SIZE				
1 - 4	2x4	DRY	No.2	SPF	SPF
4 - 5	2x4	DRY	No.2	SPF	SPF
5 - 7	2x4	DRY	No.2	SPF	SPF
14 - 2	2x4	DRY	No.2	SPF	SPF
8 - 7	2x4	DRY	No.2	SPF	SPF
14 - 10	2x4	DRY	No.2	SPF	SPF
10 - 8	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	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 1.75
14	BMV1+p	MT20	2.0	4.0	
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.					
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.					



DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
14		1237	0	1237	0	0	5-8	5-8	
8		1130	0	1130	0	0	1-10	1-10	
UNFACTORED REACTIONS									
		1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
14		866	619 / 0	0 / 0	0 / 0	0 / 0	247 / 0	0 / 0	
8		793	555 / 0	0 / 0	0 / 0	0 / 0	238 / 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 = 5.43 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 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				WEBS			
		MAX. FACTORED		FACTORED		MAX. FACTORED		FACTORED	
MEMB.		FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	UNBRAC LENGTH	MEMB.	FORCE (LBS)	LC1 MAX (LC)	UNBRAC LENGTH
FR-TO			FROM TO			FR-TO			
1-2		0 / 29	-77.4	-77.4 0.10 (1)	10.00	13-3	-128 / 47	0.04 (1)	
2-3		-1262 / 0	-77.4	-77.4 0.27 (1)	5.43	3-12	-304 / 0	0.25 (1)	
3-4		-1044 / 0	-77.4	-77.4 0.26 (1)	5.85	12-4	0 / 278	0.06 (1)	
4-5		-837 / 0	-77.4	-77.4 0.19 (1)	6.25	4-11	-25 / 0	0.01 (1)	
5-6		-1027 / 0	-77.4	-77.4 0.24 (1)	5.91	11-5	0 / 244	0.05 (1)	
6-7		-1165 / 0	-77.4	-77.4 0.24 (1)	5.64	11-6	-210 / 0	0.17 (1)	
14-2		-1199 / 0	0.0	0.0 0.12 (1)	7.30	9-6	-213 / 17	0.07 (1)	
8-7		-1097 / 0	0.0	0.0 0.12 (1)	7.55	2-13	0 / 1095	0.25 (1)	
						9-7	0 / 1036	0.23 (1)	
14-13		0 / 0	-17.5	-17.5 0.11 (4)	10.00				
13-12		0 / 1071	-17.5	-17.5 0.22 (1)	10.00				
12-11		0 / 849	-17.5	-17.5 0.18 (1)	10.00				
11-10		0 / 990	-17.5	-17.5 0.20 (1)	10.00				
10-9		0 / 990	-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

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 (0.79")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.79")
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.27 (2-3:1), BC=0.22 (12-13:1), WB=0.25 (3-12:1), SSI=0.16 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (11) (INPUT = 0.90)
JSI METAL= 0.43 (2) (INPUT = 1.00)

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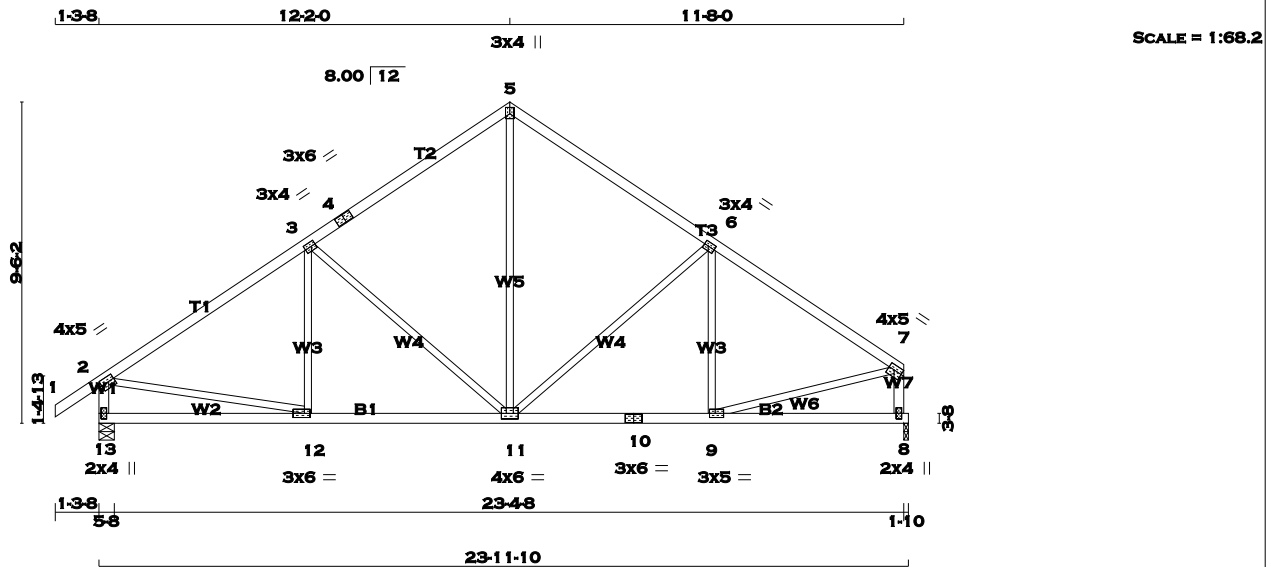




Professional Engineer Seal for P. M. Trevisan, License No. 100136551, Province of Ontario, dated March 17th, 2017.

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TOTAL WEIGHT = 2 X 102 = 203 lb

[M][F]

LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR.					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS								DESIGN CRITERIA										
1 - 4	2x4	DRY	No.2	SPF	FACTORED		MAXIMUM FACTORED		INPUT		REQRD		SPECIFIED LOADS:										
4 - 5	2x4	DRY	No.2	SPF	GROSS REACTION		GROSS REACTION		BRG		BRG		TOP CH. LL = 23.3 PSF										
5 - 7	2x4	DRY	No.2	SPF	JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	DL = 3.0 PSF										
13 - 2	2x4	DRY	No.2	SPF	13	1237	0	1237	0	0	5-8	5-8	BOT CH. LL = 0.0 PSF										
8 - 7	2x4	DRY	No.2	SPF	8	1130	0	1130	0	0	1-10	1-10	DL = 7.0 PSF										
13 - 10	2x4	DRY	No.2	SPF													TOTAL LOAD = 33.3 PSF						
10 - 8	2x4	DRY	No.2	SPF													SPACING = 24.0 IN./C						
ALL WEBS 2x3 DRY No.2																	THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010						
EXCEPT																	THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014 - CSA 086-09 - TPIC 2011						
DRY: SEASONED LUMBER.																	(55 % OF 27.2 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 (0.79") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04") ALLOWABLE DEFL.(TL)= L/360 (0.79") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.08")						
JT	TYPE	PLATES	W	LEN	Y	X													CSI: TC=0.41 (2-3:1) , BC=0.25 (11-12:1) , WB=0.58 (3-11:1) , SSI=0.19 (2-3:1)				
2	TMWV-t	MT20	4.0	5.0	1.75	2.00													DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10				
3	TMWWV-t	MT20	3.0	4.0	1.50	1.50													COMPANION LIVE LOAD FACTOR = 0.50				
4	TS-t	MT20	3.0	6.0															TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .				
5	TTW+p	MT20	3.0	4.0	2.25	1.50													NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 822 2284 1656				
6	TMWV-t	MT20	3.0	4.0	1.50	1.50													PLATE PLACEMENT TOL. = 0.250 inches				
7	TMWV-t	MT20	4.0	5.0	1.75	Edge													PLATE ROTATION TOL. = 5.0 Deg.				
8	BMV1+p	MT20	2.0	4.0															JSI GRIP= 0.89 (12) (INPUT = 0.90) JSI METAL= 0.43 (2) (INPUT = 1.00)				
9	BMWV-t	MT20	3.0	5.0	1.50	2.00																	
10	BS-t	MT20	3.0	6.0																			
11	BMWWV-t	MT20	4.0	6.0																			
12	BMWV-t	MT20	3.0	6.0	1.50	2.00																	
13	BMV1+p	MT20	2.0	4.0																			
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.																							
A SIZE FOR SIZE SUBSTITUTION OF MITEK MI20 WITH TEE-LOK TL20 PLATES IS ALLOWED.																							



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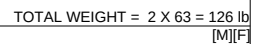
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DRY: SEASONED LUMBER.

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

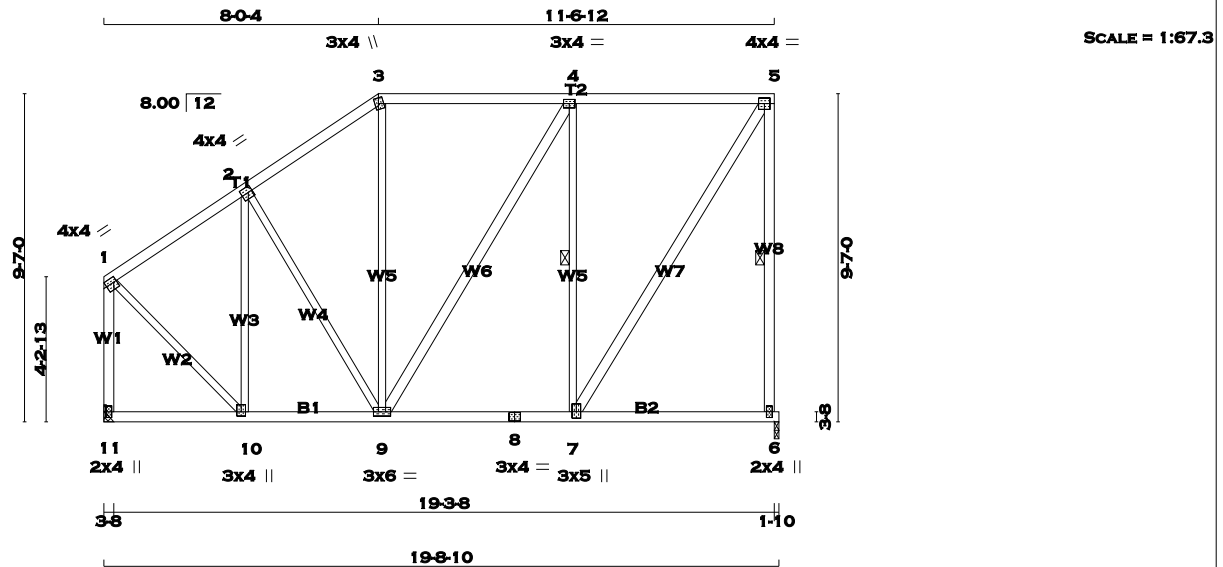
CHORDS				WEBS			
MAX. FACTORED		FACTORED		MAX. FACTORED		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO			FR-TO		
1-2	0 / 29	-77.4	-77.4 0.10 (1)	10.00	8-4	0 / 391	0.09 (1)
2-3	0 / 19	-77.4	-77.4 0.18 (1)	10.00	8-5	-165 / 4	0.08 (1)
3-4	-576 / 0	-77.4	-77.4 0.14 (1)	6.25	3-8	-165 / 4	0.08 (1)
4-5	-576 / 0	-77.4	-77.4 0.14 (1)	6.25	9-3	-806 / 0	0.35 (1)
5-6	0 / 19	-77.4	-77.4 0.18 (1)	10.00	5-7	-806 / 0	0.35 (1)
9-2	-219 / 0	0.0	0.0 0.02 (1)	7.81			
7-6	-113 / 0	0.0	0.0 0.01 (1)	7.81			
9-8	0 / 584	-17.5	-17.5 0.33 (4)	10.00			
8-7	0 / 584	-17.5	-17.5 0.33 (4)	10.00			

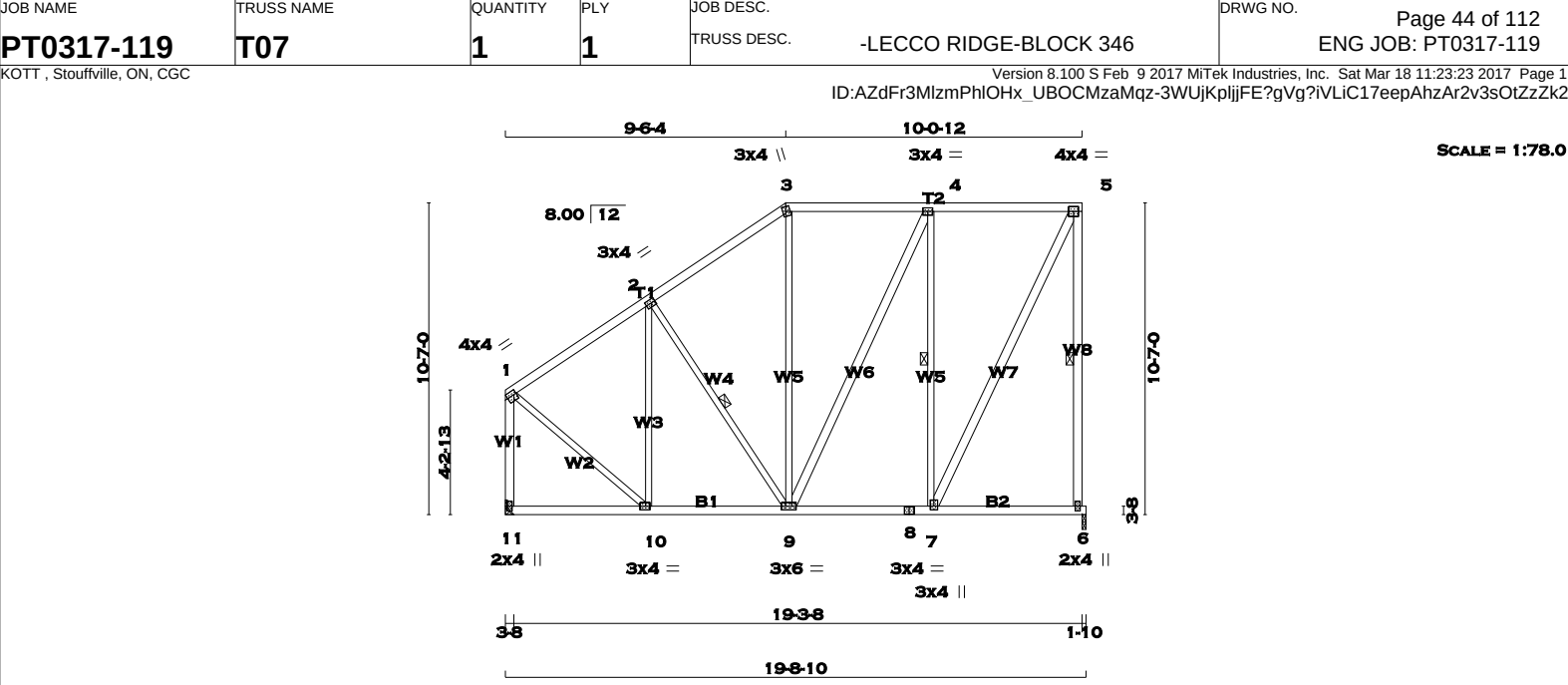
JST METAL= 0.23 (J) (INFO1 = 1.00)



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TOTAL WEIGHT = 122 lb [M]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4 DRY	No.2	SPF
3 - 5	2x4 DRY	No.2	SPF
6 - 5	2x4 DRY	No.2	SPF
11 - 1	2x4 DRY	No.2	SPF
11 - 8	2x4 DRY	No.2	SPF
8 - 6	2x4 DRY	No.2	SPF
ALL WEBS EXCEPT	2x3 DRY	No.2	SPF
9 - 4	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	1.75	Edge
2	TMVW-t	MT20	3.0	4.0	1.50	1.50
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		
6	BMV1+p	MT20	2.0	4.0		
7	BMVW+t	MT20	3.0	4.0	1.50	1.50
8	BS-t	MT20	3.0	4.0		
9	BMVW+t	MT20	3.0	6.0		
10	BMVW-t	MT20	3.0	4.0	1.50	1.75
11	BMV1+p	MT20	2.0	4.0		

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

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
6	929	0	929	0	0	1-10
11	929	0	929	0	0	1-10

HANGER BY OTHERS
MIN. SEAT SIZE: 3-8

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS				
	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 2-9, 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)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO		FROM TO			FR-TO		
1-2	-589 / 0	-77.4 -77.4	0.31 (1)	6.25	10- 2	-314 / 0	0.32 (1)
2- 3	-559 / 0	-77.4 -77.4	0.31 (1)	6.25	2- 9	-122 / 0	0.06 (1)
3- 4	-443 / 0	-77.4 -77.4	0.33 (1)	6.25	9- 3	0 / 58	0.02 (4)
4- 5	-369 / 0	-77.4 -77.4	0.33 (1)	6.25	9- 4	0 / 174	0.03 (1)
6- 5	-893 / 0	0.0 0.0	0.50 (1)	6.25	7- 4	-639 / 0	0.50 (1)
11- 1	-895 / 0	0.0 0.0	0.27 (1)	7.81	7- 5	0 / 827	0.13 (1)
					1-10	0 / 655	0.15 (1)
11-10	0 / 0	-17.5 -17.5	0.10 (4)	10.00			
10- 9	0 / 510	-17.5 -17.5	0.14 (1)	10.00			
9- 8	0 / 369	-17.5 -17.5	0.14 (4)	10.00			
8- 7	0 / 369	-17.5 -17.5	0.14 (4)	10.00			
7- 6	0 / 0	-17.5 -17.5	0.11 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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=0.14 (9-10:1), WB=0.50 (4-7:1), SSI=0.19 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

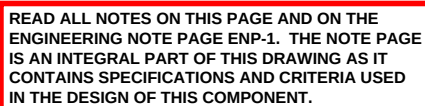
JSI GRIP= 0.90 (10) (INPUT = 0.90)
JSI METAL= 0.26 (1) (INPUT = 1.00)



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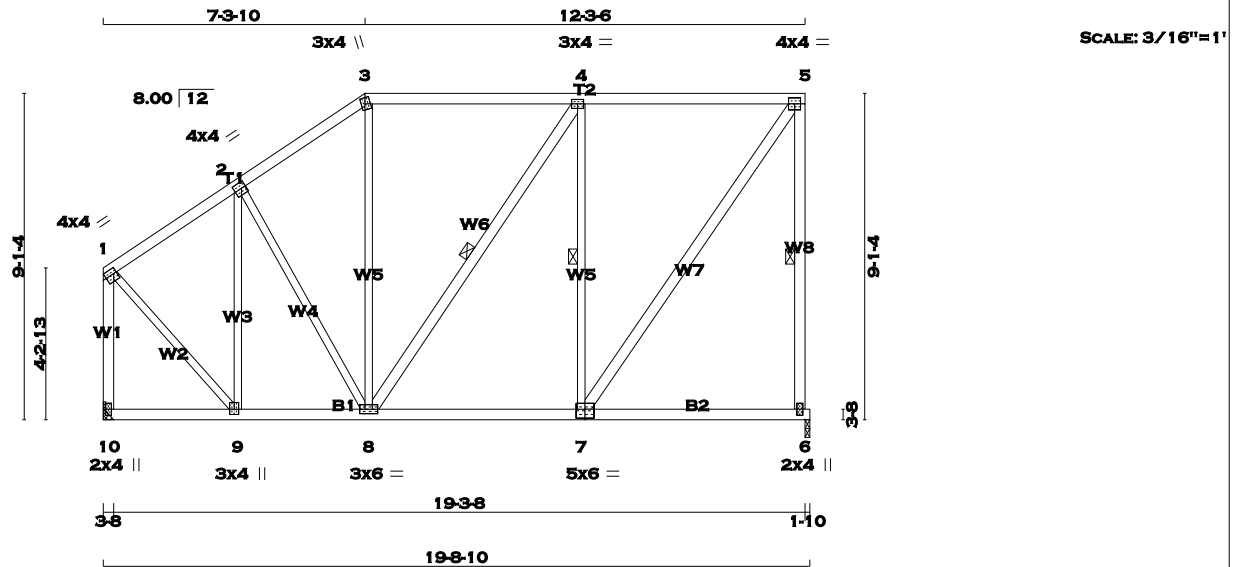
READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





JSI GRIP= 0.90 (10) (INPUT = 0.90)
JSI METAL= 0.25 (1) (INPUT = 1.00)





TOTAL WEIGHT = 113 lb
[M]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
6 - 5	2x4	DRY	No.2	SPF
10 - 1	2x4	DRY	No.2	SPF
10 - 7	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				
8 - 4	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	1.75 Edge
2	TMVW-t	MT20	4.0	4.0	2.00 1.50
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	
6	BMV1+p	MT20	2.0	4.0	
7	BSWW-l	MT20	5.0	6.0	3.00 3.00
8	BMVW-t	MT20	3.0	6.0	
9	BMVW-t	MT20	3.0	4.0	1.75 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.



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
10	929	0	929	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
6	652	456 / 0	0 / 0	0 / 0	0 / 0	196 / 0	0 / 0
10	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 4-8, 4-7. DBS = 20-0-0 . CBF = 72 LBS.

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

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

LOADING
TOTAL LOAD CASES: (4)

C H O R D S				W E B S				
MAX. FACTORED		FACTORED		MAX. FACTORED		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	-537 / 0	-77.4	-77.4	0.17 (1)	6.25	9-2	-413 / 0	0.31 (1)
2-3	-605 / 0	-77.4	-77.4	0.18 (1)	6.25	2-8	0 / 50	0.01 (1)
3-4	-487 / 0	-77.4	-77.4	0.51 (1)	6.25	8-3	0 / 67	0.02 (4)
4-5	-497 / 0	-77.4	-77.4	0.51 (1)	6.25	8-4	-17 / 3	0.01 (1)
6-5	-885 / 0	0.0	0.0	0.34 (1)	6.25	7-4	-576 / 0	0.31 (1)
10-1	-901 / 0	0.0	0.0	0.27 (1)	7.81	7-5	0 / 860	0.14 (1)
						1-9	0 / 667	0.15 (1)
10-9	0 / 0	-17.5	-17.5	0.05 (4)	10.00			
9-8	0 / 462	-17.5	-17.5	0.11 (1)	10.00			
8-7	0 / 497	-17.5	-17.5	0.21 (4)	10.00			
7-6	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

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 (0.05")

CSI: TC=0.51 (4-5-1) , BC=0.21 (7-8-4) , WB=0.31 (2-9-1) , 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

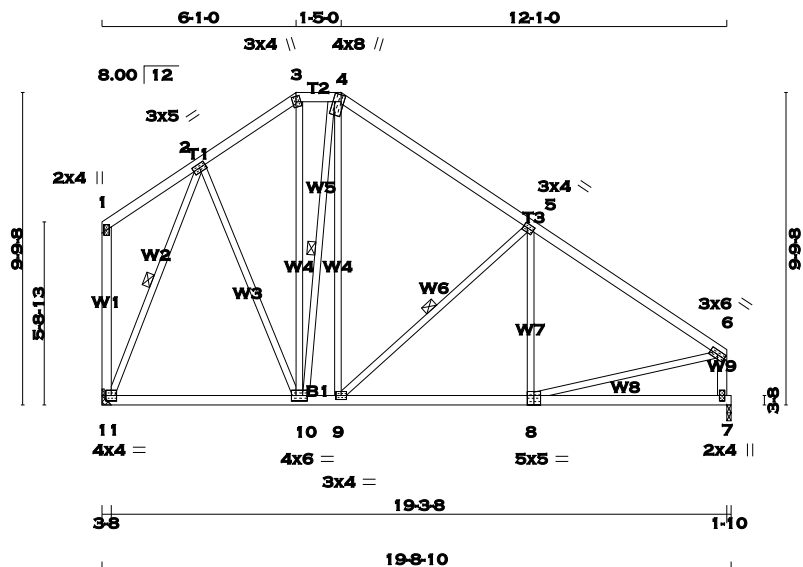
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (5) (INPUT = 0.90)
JSI METAL= 0.23 (1) (INPUT = 1.00)

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TOTAL WEIGHT = 108 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
11- 1	2x4	DRY	No.2	SPF
7 - 6	2x4	DRY	No.2	SPF
11- 8	2x4	DRY	No.2	SPF
8 - 7	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
1	TMV+p	MT20	2.0	4.0		
2	TMWW-t	MT20	3.0	5.0		
3	TTW+m	MT20	3.0	4.0	2.00	1.25
4	TTWW+m	MT20	4.0	8.0	2.50	1.00
5	TMWW-t	MT20	3.0	4.0	1.50	1.50
6	TMVW-t	MT20	3.0	6.0		
7	BMV1+p	MT20	2.0	4.0		
8	BSWW-l	MT20	5.0	5.0	Edge	2.50
9	BMWW-t	MT20	3.0	4.0		
10	BMWWW-t	MT20	4.0	6.0		
11	BMVW1-t	MT20	4.0	4.0		

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

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

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

BEARINGS						FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT				
11	929	0	929	0	0				
7	929	0	929	0	0				

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN.	COMPONENT	REACTIONS			
11	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
7	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) 7

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.94 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 4-10, 5-9. DBS = 20-0-0 . CBF = 57 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 2-11. DBS = 16-0-0 . 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

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. CSI (LC)		
FR-TO		FROM TO			FR-TO				
1-2	0 / 14	-77.4 -77.4	0.11 (1)	10.00	2-10	0 / 242	0.05 (1)		
2-3	-522 / 0	-77.4 -77.4	0.09 (1)	6.25	10-3	0 / 139	0.03 (1)		
3-4	-422 / 0	-77.4 -77.4	0.02 (1)	6.25	10-4	-232 / 0	0.15 (1)		
4-5	-575 / 0	-77.4 -77.4	0.37 (1)	6.25	9-4	0 / 306	0.07 (1)		
5-6	-914 / 0	-77.4 -77.4	0.39 (1)	5.94	9-5	-454 / 0	0.21 (1)		
11-1	-94 / 0	0.0 0.0	0.06 (1)	7.81	8-5	-54 / 88	0.03 (4)		
7-6	-886 / 0	0.0 0.0	0.10 (1)	7.81	11-2	-859 / 0	0.37 (1)		
					8-6	0 / 807	0.18 (1)		
11-10	0 / 328	-17.5 -17.5	0.19 (4)	10.00					
10-9	0 / 454	-17.5 -17.5	0.20 (4)	10.00					
9-8	0 / 786	-17.5 -17.5	0.23 (4)	10.00					
8-7	0 / 0	-17.5 -17.5	0.17 (4)	10.00					

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

SPACING = 24.0 IN./C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.65")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.65")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.06")

CSI: TC=0.39 (5-6:1) , BC=0.23 (8-9:4) , WB=0.37 (2-11:1) , SSI=0.19 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

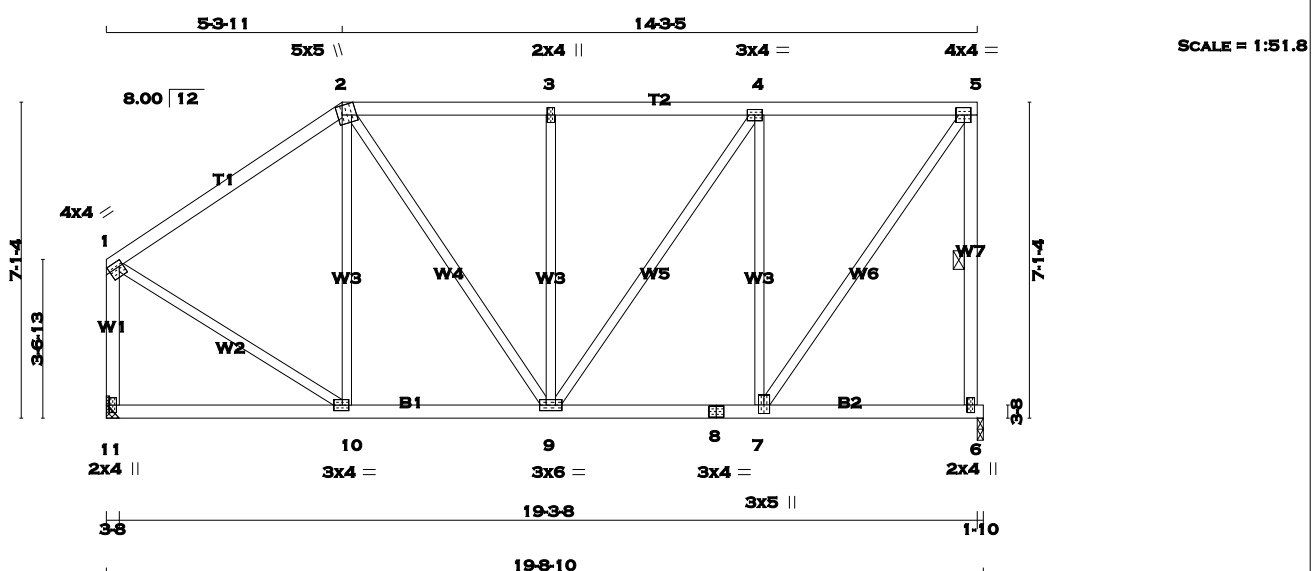
JSI GRIP= 0.87 (3) (INPUT = 0.90)
JSI METAL= 0.26 (6) (INPUT = 1.00)



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TOTAL WEIGHT = 97 lb

LUMBER				
N. L. G. A. RULES				
CHORDS		SIZE	LUMBER	DESCR
1 - 2	2x4	DRY	No.2	SPF
2 - 5	2x4	DRY	No.2	SPF
6 - 5	2x4	DRY	No.2	SPF
11 - 1	2x4	DRY	No.2	SPF
11 - 8	2x4	DRY	No.2	SPF
8 - 6	2x4	DRY	No.2	SPF

ALL WEBS 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	4.0	1.50	1.00
2	TTWW+m	MT20	5.0	5.0	Edge	3.75
3	TMVW+w	MT20	2.0	4.0		
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	BMVW+t	MT20	3.0	5.0	2.25	1.50
8	BS-t	MT20	3.0	4.0		
9	BMVW-t	MT20	3.0	6.0		
10	BMVW-t	MT20	3.0	4.0	1.50	1.75
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

DESIGNER								
BEARINGS								
		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: 3-8								

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS	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.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)
FR-TO		FROM TO			FR-TO		
1-2	-650 / 0	-77.4 -77.4	0.40 (1)	6.25	10-2	-220 / 16	0.19 (1)
2-3	-693 / 0	-77.4 -77.4	0.23 (1)	6.25	2-9	0 / 275	0.06 (1)
3-4	-693 / 0	-77.4 -77.4	0.25 (1)	6.25	9-3	-391 / 0	0.34 (1)
4-5	-533 / 0	-77.4 -77.4	0.25 (1)	6.25	9-4	0 / 282	0.06 (1)
6-5	-894 / 0	0.0 0.0	0.20 (1)	6.25	7-4	-643 / 0	0.56 (1)
11-1	-891 / 0	0.0 0.0	0.19 (1)	7.81	7-5	0 / 913	0.21 (1)
					1-10	0 / 630	0.14 (1)
11-10	0 / 0	-17.5 -17.5	0.12 (4)	10.00			
10-9	0 / 537	-17.5 -17.5	0.16 (4)	10.00			
9-8	0 / 533	-17.5 -17.5	0.14 (1)	10.00			
8-7	0 / 533	-17.5 -17.5	0.14 (1)	10.00			
7-6	0 / 0	-17.5 -17.5	0.10 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.65")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.65")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.40 (1-2:1) , BC=0.16 (9-10:4) , WB=0.56 (4-7:1) , SSI=0.18 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) 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.

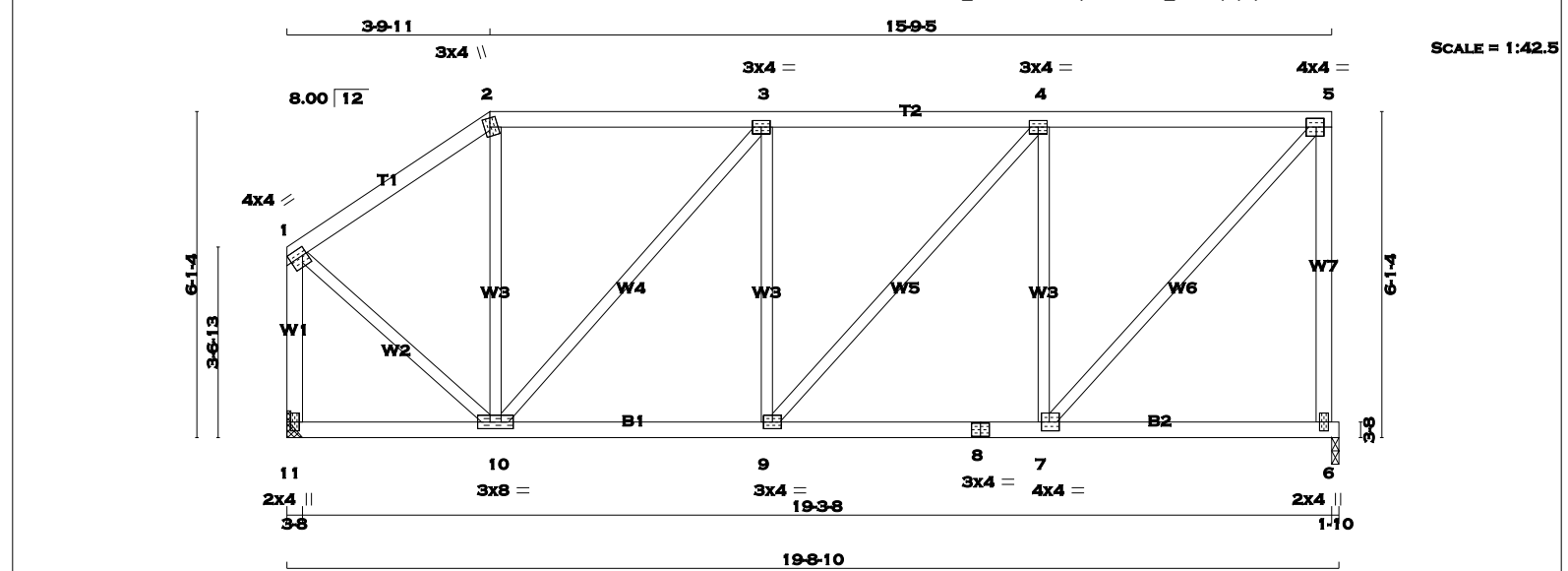
JSI GRIP= 0.90 (7) (INPUT = 0.90)
JSI METAL= 0.29 (1) (INPUT = 1.00)



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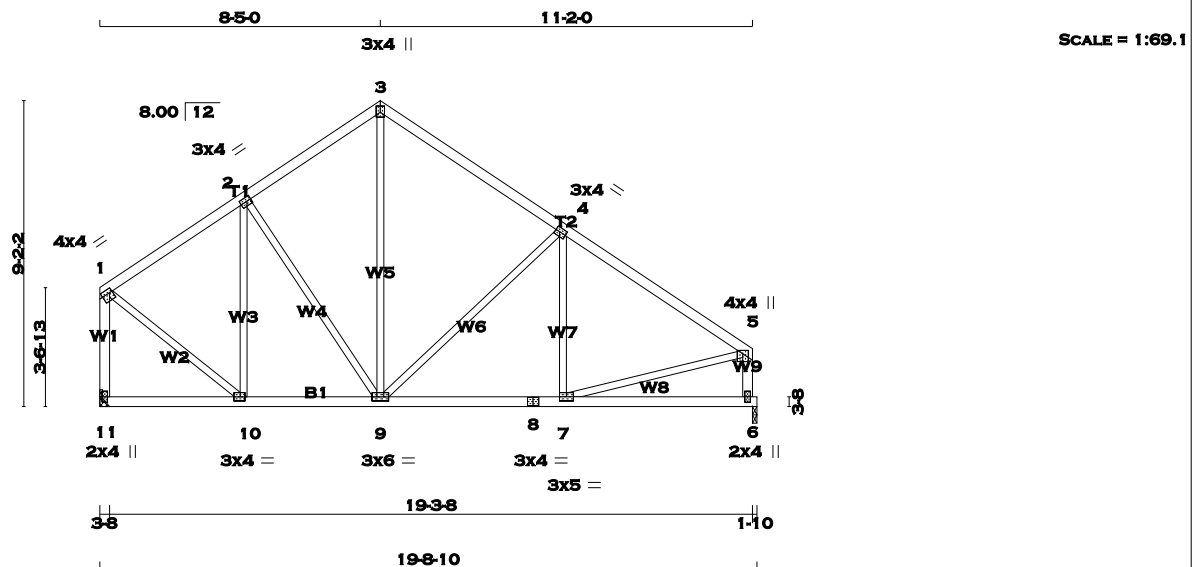


LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER				DESIGN CRITERIA			
CHORDS	SIZE	LUMBER	DESCR.	BEARINGS				SPECIFIED LOADS:			
1 - 2	2x4	DRY	No.2	FACTORED	MAXIMUM FACTORED	INPUT	REQRD	TOP CH.	LL	=	23.3 PSF
2 - 5	2x4	DRY	No.2	GROSS REACTION	GROSS REACTION	BRG	BRG	DL	=	3.0 PSF	
6 - 5	2x4	DRY	No.2	JT VERT	DOWN	HORZ	UPLIFT	BOT CH.	LL	=	0.0 PSF
11 - 1	2x4	DRY	No.2	6 929 0	929 0	0	0	DL	=	7.0 PSF	
11 - 8	2x4	DRY	No.2	11 929 0	929 0	0	0	TOTAL LOAD	=	33.3 PSF	
8 - 6	2x4	DRY	No.2					SPACING = 24.0 IN./C/C			
ALL WEBS	2x3	DRY	No.2	UNFACTORED REACTIONS				LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12			
EXCEPT				1ST LCASE	MAX./MIN.	COMPONENT REACTIONS		THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010			
DRY: SEASONED LUMBER.				JT	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

PLATES (table is in inches)											
JT	TYPE	PLATES	W	LEN	Y	X	BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6				
1	TMVW-t	MT20	4.0	4.0	1.75	Edge	BRACING				
2	TTW+m	MT20	3.0	4.0	2.00	1.25	TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.				
3	TMVW-t	MT20	3.0	4.0			MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.				
4	TMVW-t	MT20	3.0	4.0			ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.				
5	TMVW-t	MT20	4.0	4.0	2.00	1.75	LOADING				
6	BMV1+p	MT20	2.0	4.0			TOTAL LOAD CASES: (4)				
7	BMVW-t	MT20	4.0	4.0	2.00	1.75	CHORDS				
8	BS-t	MT20	3.0	4.0			MEMB. FORCE VERT. LOAD LC1 MAX. MAX. MEMB. FORCE MAX.				
9	BMVW-t	MT20	3.0	4.0			FR-TO 1-2 -607 / 0 -77.4 -77.4 0.20 (1) 6.25 10-2 0 / 69 0.02 (4)				
10	BMVW-t	MT20	3.0	4.0			2-3 -504 / 0 -77.4 -77.4 0.28 (1) 6.25 10-3 -474 / 0 0.57 (1)				
11	BMV1+p	MT20	2.0	4.0			3-4 -816 / 0 -77.4 -77.4 0.31 (1) 6.25 9-3 -79 / 50 0.05 (1)				
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.							4-5 -670 / 0 -77.4 -77.4 0.31 (1) 6.25 9-4 0 / 220 0.05 (1)				
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.							6-5 -890 / 0 0.0 0.0 0.64 (1) 7.81 7-4 -616 / 0 0.36 (1)				
							11-1 -904 / 0 0.0 0.0 0.19 (1) 7.81 7-5 0 / 984 0.22 (1)				
							11-10 0 / 0 -17.5 -17.5 0.08 (4) 10.00 1-10 0 / 655 0.15 (1)				
							10-9 0 / 816 -17.5 -17.5 0.18 (1) 10.00				
							9-8 0 / 670 -17.5 -17.5 0.17 (1) 10.00				
							8-7 0 / 670 -17.5 -17.5 0.17 (1) 10.00				
							7-6 0 / 0 -17.5 -17.5 0.12 (4) 10.00				

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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	1.50	1.00
2	TMVW-t	MT20	3.0	4.0	1.50	1.50
3	TTW+p	MT20	3.0	4.0	2.25	1.50
4	TMVW-t	MT20	3.0	4.0	1.50	1.50
5	TMVW+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	1.50	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		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
GROSS REACTION		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
11	929	0	929	0	0	HANGER BY OTHERS			
						MIN. SEAT SIZE: 3-8			
6	929	0	929	0	0	1-10	1-10		

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
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 = 6.03 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.

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)	UNBRACED LENGTH (LC)
FR-TO				FR-TO			
1-2	-630 / 0	-77.4	-77.4 0.18 (1)	6.25	10-2	-328 / 0	0.22 (1)
2-3	-631 / 0	-77.4	-77.4 0.18 (1)	6.25	2-9	-63 / 0	0.07 (1)
3-4	-638 / 0	-77.4	-77.4 0.32 (1)	6.25	9-3	0 / 398	0.09 (1)
4-5	-917 / 0	-77.4	-77.4 0.33 (1)	6.03	9-4	-386 / 0	0.44 (1)
11-1	-897 / 0	0.0	0.0 0.19 (1)	7.81	7-4	-84 / 69	0.04 (1)
6-5	-888 / 0	0.0	0.0 0.10 (1)	7.81	1-10	0 / 678	0.15 (1)
					7-5	0 / 810	0.18 (1)
11-10	0 / 0	-17.5	-17.5 0.07 (4)	10.00			
10-9	0 / 541	-17.5	-17.5 0.13 (1)	10.00			
9-8	0 / 787	-17.5	-17.5 0.20 (1)	10.00			
8-7	0 / 787	-17.5	-17.5 0.20 (1)	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

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

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

(55 % OF 27.2 P.S.F. G.S.L. 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=0.33 (4-5:1) , BC=0.20 (7-9:1) , WB=0.44 (4-9:1) , SSI=0.18 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) 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.

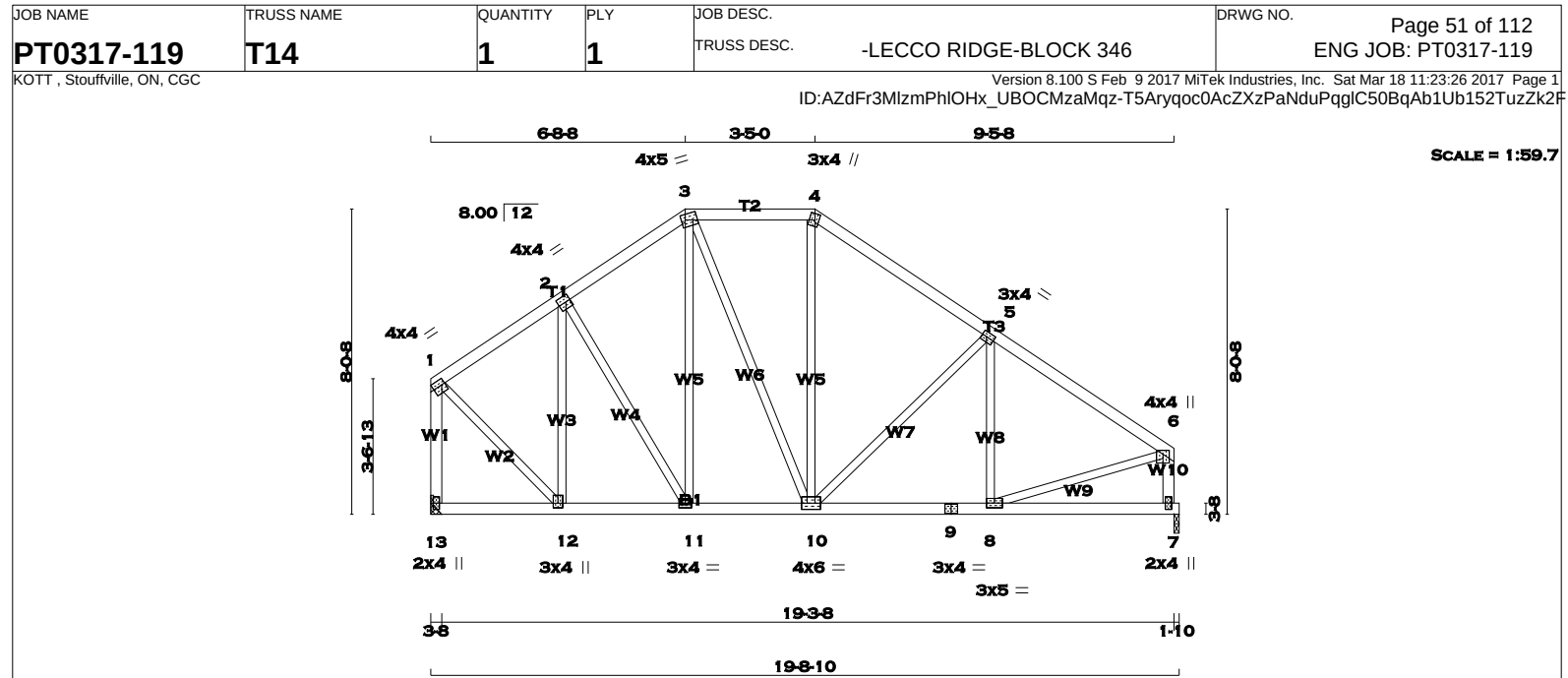
JSI GRIP= 0.90 (10) (INPUT = 0.90)
JSI METAL= 0.27 (1) (INPUT = 1.00)



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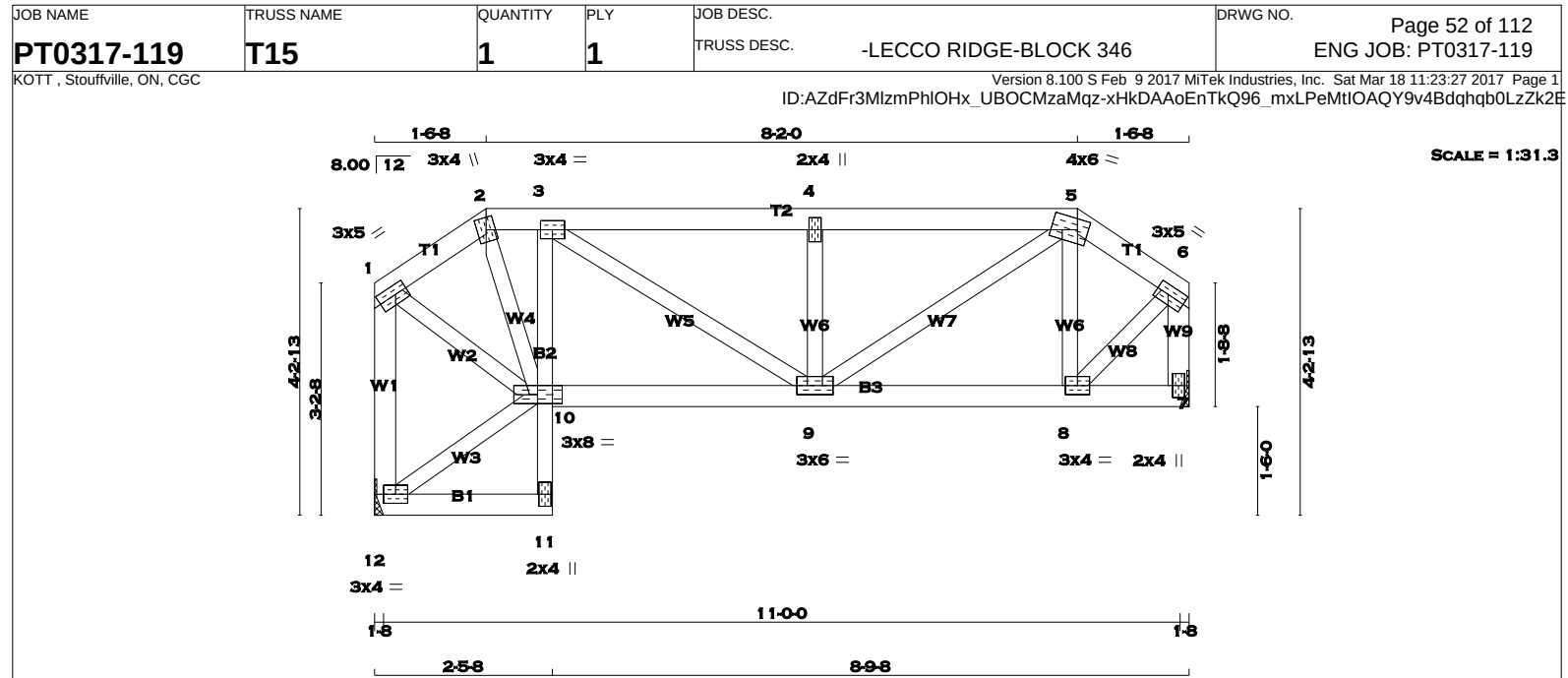
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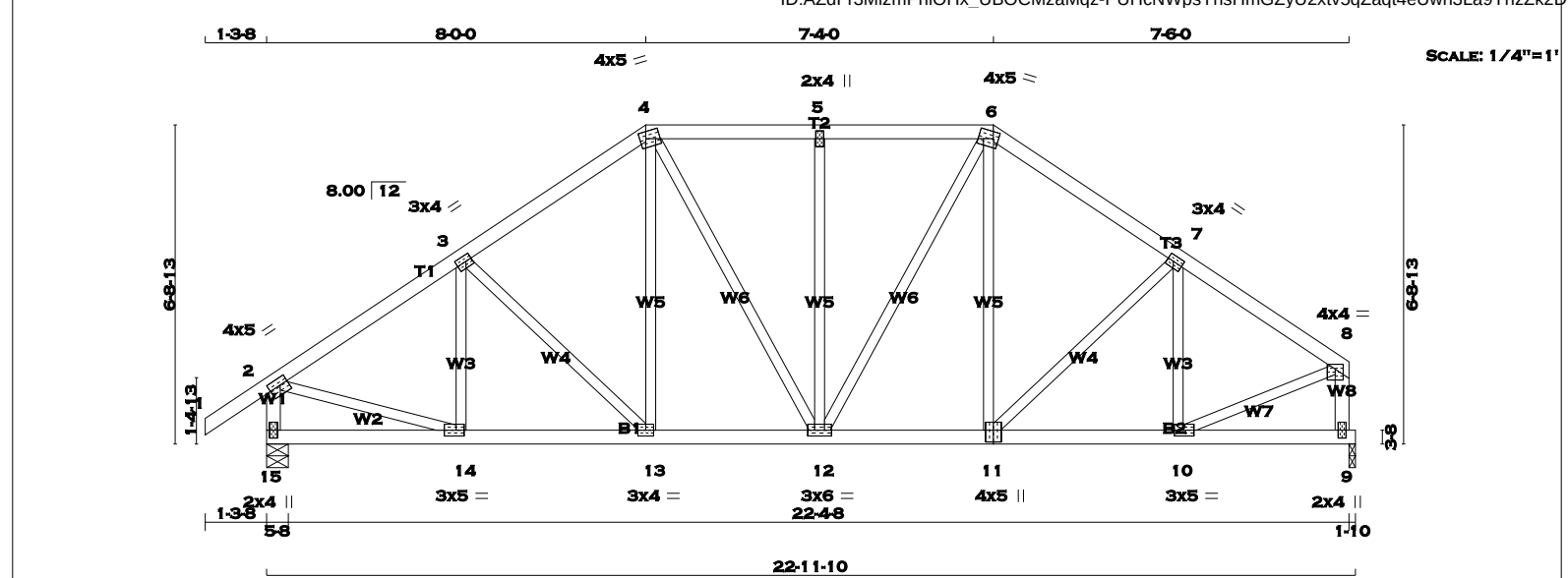


TOTAL WEIGHT = 98 lb		[M][F]	
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR. 1 - 3 2x4 DRY No.2 SPF 3 - 4 2x4 DRY No.2 SPF 4 - 6 2x4 DRY No.2 SPF 13 - 1 2x4 DRY No.2 SPF 7 - 6 2x4 DRY No.2 SPF 13 - 9 2x4 DRY No.2 SPF 9 - 7 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT DRY: SEASONED LUMBER.		DIMENSIONS, 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 13 929 0 929 0 0 HANGER BY OTHERS 7 929 0 929 0 0 MIN. SEAT SIZE: 3-8 1-10 1-10 UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 13 652 456 / 0 0 / 0 0 / 0 0 / 0 196 / 0 0 / 0 7 652 456 / 0 0 / 0 0 / 0 0 / 0 196 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 7 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.18 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. LOADING TOTAL LOAD CASES: (4) CHORDS WEBS MEMB. MAX. FACTORED FORCE VERT. LOAD LC1 MAX. MAX. MEMB. MAX. FACTORED FORCE MAX. (LBS) (PLF) CSI (LC) UNBRAC LENGTH FR-TO (LBS) CSI (LC) FR-TO FROM TO 1-2 -582 / 0 -77.4 -77.4 0.11 (1) 6.25 12-2 -400 / 0 0.21 (1) 2-3 -658 / 0 -77.4 -77.4 0.11 (1) 6.25 2-11 0 / 64 0.01 (1) 3-4 -589 / 0 -77.4 -77.4 0.12 (1) 6.25 11-3 -4 / 39 0.01 (4) 4-5 -732 / 0 -77.4 -77.4 0.23 (1) 6.25 3-10 0 / 146 0.03 (1) 5-6 -916 / 0 -77.4 -77.4 0.23 (1) 6.18 10-4 0 / 127 0.03 (4) 13-1 -904 / 0 0.0 0.0 0.19 (1) 7.81 10-5 -273 / 0 0.22 (1) 7-6 -894 / 0 0.0 0.0 0.10 (1) 7.81 8-5 -135 / 41 0.05 (1) 1-12 0 / 684 0.15 (1) 13-12 0 / 0 -17.5 -17.5 0.05 (4) 10.00 8-6 0 / 815 0.18 (1) 12-11 0 / 498 -17.5 -17.5 0.11 (1) 10.00 11-10 0 / 531 -17.5 -17.5 0.12 (1) 10.00 10-9 0 / 782 -17.5 -17.5 0.17 (1) 10.00 9-8 0 / 782 -17.5 -17.5 0.17 (1) 10.00 8-7 0 / 0 -17.5 -17.5 0.10 (4) 10.00	
DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.0 PSF TOTAL LOAD = 33.3 PSF SPACING = 24.0 IN. C/C LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12 THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012, BCBC 2012, ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (0.65") 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=0.23 (5-6:1), BC=0.17 (8-10:1), WB=0.22 (5-10:1), SSI=0.15 (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= 0.87 (4) (INPUT = 0.90) JSI METAL= 0.25 (1) (INPUT = 1.00)			
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 TTWW-m MT20 4.0 5.0 1.75 1.25 4 TTWW-m MT20 3.0 4.0 2.00 1.25 5 TMVW-t MT20 3.0 4.0 1.50 1.50 6 TMVW-p MT20 4.0 4.0 1.25 2.00 7 BMV1+p MT20 2.0 4.0 8 BMWW-t MT20 3.0 5.0 9 BS-t MT20 3.0 4.0 10 BMWWW-t MT20 4.0 6.0 11 BMWW-t MT20 3.0 4.0 12 BMWW-t MT20 3.0 4.0 1.50 1.50 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.		 RECEIVED TOWN OF MILTON MAR 29, 2017 17-5403 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 1 - 2 2x4 DRY No.2 2 - 5 2x4 DRY No.2 5 - 6 2x4 DRY No.2 12 - 1 2x4 DRY No.2 7 - 6 2x4 DRY No.2 12 - 11 2x4 DRY No.2 11 - 3 2x3 DRY No.2 10 - 7 2x4 DRY No.2 ALL WEBS 2x3 DRY No.2 EXCEPT DRY: SEASONED LUMBER.			DESCR. SPF SPF SPF SPF SPF SPF SPF SPF SPF SPF		
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+m MT20 3.0 4.0 3 TMVW-t MT20 3.0 4.0 4 TMW+w MT20 2.0 4.0 5 TTWW-m MT20 4.0 6.0 1.75 1.75 6 TMVW-t MT20 3.0 5.0 1.50 2.00 7 BMV1+p MT20 2.0 4.0 8 BMWW-t MT20 3.0 4.0 9 BMWWW-t MT20 3.0 6.0 10 BMWWWW-I MT20 3.0 8.0 Edge 5.50 11 BMV+p MT20 2.0 4.0 12 BMVW1-t MT20 3.0 4.0 Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD. A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.			DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED GROSS REACTION JT VERT HORZ 7 534 0 12 534 0 MAXIMUM FACTORED GROSS REACTION DOWN HORZ UPLIFT 7 534 0 0 12 534 0 0 INPUT BRG IN-SX 7 HANGER BY OTHERS 12 HANGER BY OTHERS MIN. SEAT SIZE: 1-8 UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 7 374 262 / 0 0 / 0 0 / 0 113 / 0 0 / 0 12 374 262 / 0 0 / 0 0 / 0 113 / 0 0 / 0 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 MEMB. MAX. FACTORED FORCE (LBS) FACTORED VERT. LOAD (PLF) MAX. LC1 (LC) UNBRAC LENGTH FR-TO 1-2 -431 / 0 -77.4 -77.4 0.03 (1) 6.25 2-3 -428 / 0 -77.4 -77.4 0.08 (1) 6.25 3-4 -657 / 0 -77.4 -77.4 0.15 (1) 6.25 4-5 -657 / 0 -77.4 -77.4 0.15 (1) 6.25 5-6 -373 / 0 -77.4 -77.4 0.03 (1) 6.25 12-1 -511 / 0 0.0 0.0 0.09 (1) 7.81 7-6 -529 / 0 0.0 0.0 0.06 (1) 7.81 WEBS MEMB. MAX. FACTORED FORCE (LBS) MAX. LC1 (LC) UNBRAC LENGTH FR-TO 2-10 0 / 227 0.05 (1) 3-9 0 / 270 0.06 (1) 9-4 -322 / 0 0.05 (1) 9-5 0 / 429 0.10 (1) 8-5 -204 / 0 0.03 (1) 8-6 0 / 404 0.09 (1) 12-10 -3 / 0 0.00 (1) 1-10 0 / 414 0.09 (1) 12-11 0 / 2 -17.5 -17.5 0.03 (4) 10.00 11-10 0 / 23 0.0 0.0 0.01 (1) 10.00 10-3 -377 / 0 0.0 0.0 0.02 (1) 7.81 10-9 0 / 431 -17.5 -17.5 0.10 (1) 10.00 9-8 0 / 300 -17.5 -17.5 0.08 (4) 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/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 (0.38") CALCULATED VERT. DEFL.(LL) = L/999 (0.01") ALLOWABLE DEFL.(TL)= L/360 (0.38") CALCULATED VERT. DEFL.(TL) = L/999 (0.02") CSI: TC=0.15 (3-4:1), BC=0.10 (9-10:1), WB=0.10 (5-9:1), SSI=0.13 (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 AUTOSOLVE RIGHT HEEL ONLY TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 822 2284 1656 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.86 (6) (INPUT = 0.90) JSI METAL= 0.20 (10) (INPUT = 1.00)		



TOTAL WEIGHT = 107 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- 11	2x4	DRY	No.2	SPF
11- 9	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	5.0	1.75	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	TMVW-w	MT20	2.0	4.0		
6	TTWW-m	MT20	4.0	5.0	1.75	1.25
7	TMVW-t	MT20	3.0	4.0	1.50	1.50
8	TMVW-p	MT20	4.0	4.0	1.25	2.00
9	BMV1+p	MT20	2.0	4.0		
10	BMVW-t	MT20	3.0	5.0	1.50	2.25
11	BSWW-H	MT20	4.0	5.0	3.00	2.00
12	BMVW-t	MT20	3.0	6.0		
13	BMVW-t	MT20	3.0	4.0		
14	BMVW-t	MT20	3.0	5.0	1.50	2.00
15	BMV1+p	MT20	2.0	4.0		
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.						



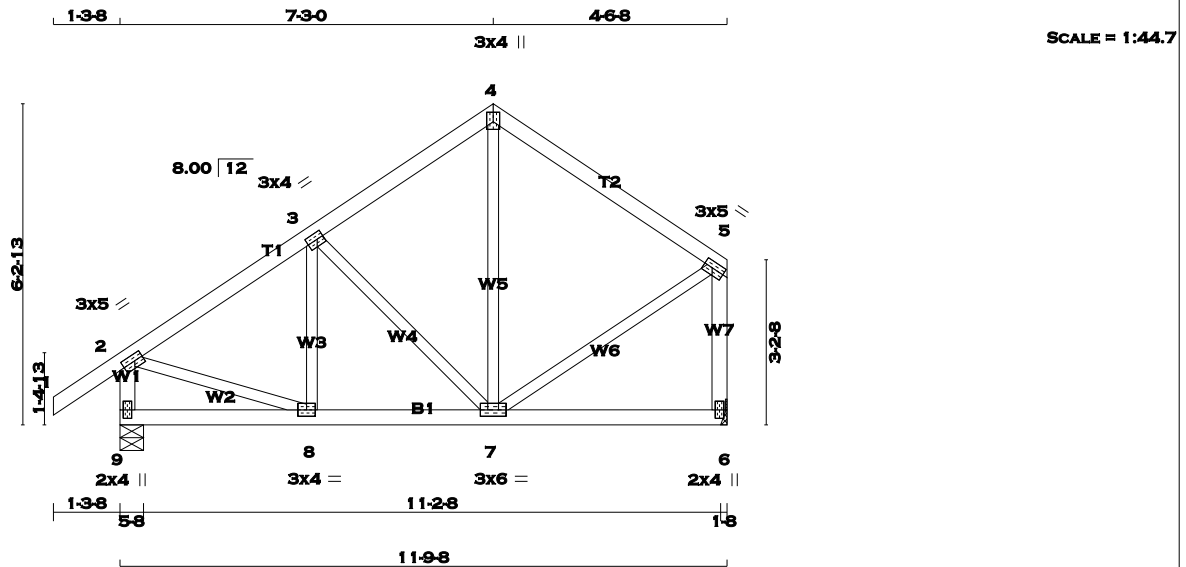
DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
15		1189	0	1189	0	0	5-8	5-8	
9		1083	0	1083	0	0	1-10	1-10	
UNFACTORED REACTIONS									
		1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
15		832	596 / 0	0 / 0	0 / 0	0 / 0	237 / 0	0 / 0	
9		760	532 / 0	0 / 0	0 / 0	0 / 0	228 / 0	0 / 0	
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 15, 9									
BRACING									
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.70 FT.									
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.									
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.									
LOADING									
TOTAL LOAD CASES: (4)									
		CHORDS			WEBS				
		MAX. FACTORED		FACTORED		MAX. FACTORED		FACTORED	
		MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	LC1 MAX (PLF)	MEMB.	FORCE (LBS)	MAX (PLF)	
				FROM TO				LENGTH FR-TO	
1-2		0 / 29		-77.4	-77.4 0.10 (1)	10.00	14-3	-188 / 12	0.05 (1)
2-3		-1180 / 0		-77.4	-77.4 0.17 (1)	5.70	3-13	-168 / 0	0.09 (1)
3-4		-1075 / 0		-77.4	-77.4 0.17 (1)	5.91	13-4	0 / 185	0.04 (1)
4-5		-979 / 0		-77.4	-77.4 0.13 (1)	6.15	4-12	0 / 202	0.05 (1)
5-6		-979 / 0		-77.4	-77.4 0.13 (1)	6.15	12-5	-340 / 0	0.26 (1)
6-7		-1042 / 0		-77.4	-77.4 0.15 (1)	6.00	12-6	0 / 256	0.06 (1)
7-8		-1061 / 0		-77.4	-77.4 0.15 (1)	5.96	11-6	0 / 116	0.03 (4)
15-2		-1158 / 0		0.0	0.0 0.12 (1)	7.40	11-7	-66 / 0	0.03 (1)
9-8		-1056 / 0		0.0	0.0 0.11 (1)	7.66	10-7	-283 / 0	0.07 (1)
							2-14	0 / 1032	0.23 (1)
15-14		0 / 0		-17.5	-17.5 0.06 (4)	10.00	10-8	0 / 965	0.22 (1)
14-13		0 / 998		-17.5	-17.5 0.19 (1)	10.00			
13-12		0 / 879		-17.5	-17.5 0.17 (1)	10.00			
12-11		0 / 852		-17.5	-17.5 0.17 (1)	10.00			
11-10		0 / 899		-17.5	-17.5 0.17 (1)	10.00			
10-9		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 (0.76")			
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")			
ALLOWABLE DEFL.(TL)= L/360 (0.76")			
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.05")			
CSI: TC=0.17 (2-3:1), BC=0.19 (13-14:1), WB=0.26 (5-12:1), SSI=0.14 (5-6:1)			
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10			
COMP=1.10 SHEAR=1.10 TENS= 1.10			
COMPANION LIVE LOAD FACTOR = 0.50			
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .			
NAIL VALUES			
PLATE GRIP(DRY)	SHEAR (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 (10) (INPUT = 0.90)			
JSI METAL= 0.40 (2) (INPUT = 1.00)			

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MAR 29, 2017
17-5403
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 = 54 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	5.0	1.50	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	5.0	1.50	2.00
6	BMV1+p	MT20	2.0	4.0		
7	BMVW-t	MT20	3.0	6.0		
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 GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
9	665	0	665	0	0
6	559	0	559	0	0

HANGER BY OTHERS
MIN. SEAT SIZE: 1-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
9	465	339 / 0	0 / 0	0 / 0	0 / 0	126 / 0	0 / 0
6	393	275 / 0	0 / 0	0 / 0	0 / 0	118 / 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		FROM	TO	FR-TO			
1-2	0 / 29	-77.4	-77.4 0.10 (1)	10.00	8-3	-65 / 36	0.02 (1)
2-3	-508 / 0	-77.4	-77.4 0.13 (1)	6.25	3-7	-240 / 0	0.10 (1)
3-4	-343 / 0	-77.4	-77.4 0.13 (1)	6.25	7-4	0 / 82	0.03 (4)
4-5	-324 / 0	-77.4	-77.4 0.21 (1)	6.25	2-8	0 / 456	0.10 (1)
9-2	-636 / 0	0.0	0.0 0.07 (1)	7.81	7-5	0 / 319	0.07 (1)
6-5	-526 / 0	0.0	0.0 0.09 (1)	7.81			
9-8	0 / 0	-17.5	-17.5 0.05 (4)	10.00			
8-7	0 / 438	-17.5	-17.5 0.11 (1)	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/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 (0.39")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.39")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.02")

CSI: TC=0.21 (4-5:1) , BC=0.11 (7-8:1) , WB=0.10 (2-8:1) , 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.

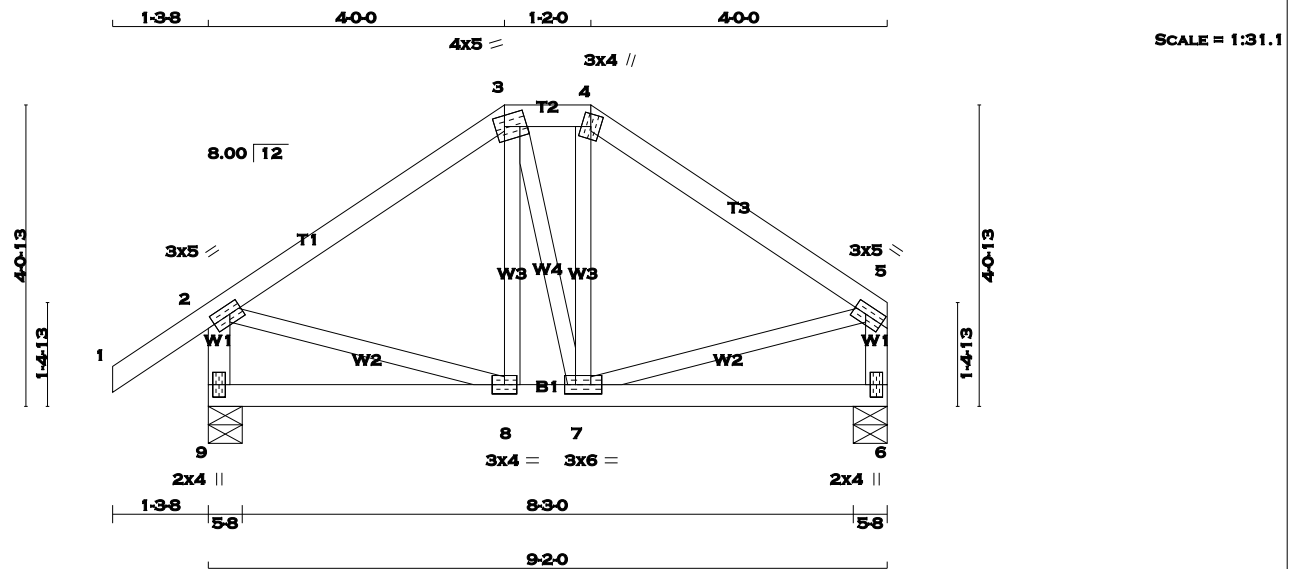
JSI GRIP= 0.67 (8) (INPUT = 0.90)
JSI METAL= 0.19 (2) (INPUT = 1.00)



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BUILDING DIVISION

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TOTAL WEIGHT = 2 X 42 = 84 lb [M][F]

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 4	2x4	DRY	No.2	SPF
4 - 5	2x4	DRY	No.2	SPF
9 - 2	2x4	DRY	No.2	SPF
6 - 5	2x4	DRY	No.2	SPF
9 - 6	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	5.0	1.50	2.00
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	5.0	1.50	2.00
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 GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
9	541	0	541	0	0
6	435	0	435	0	0

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	377	277 / 0	0 / 0	0 / 0	0 / 0	100 / 0	0 / 0
6	305	213 / 0	0 / 0	0 / 0	0 / 0	92 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	FACTORED VERT. LOAD (PLF)
FR-TO		FROM	TO	FR-TO			
1-2	0 / 29	-77.4	-77.4 0.10 (1)	10.00	8-3	-20 / 33	0.01 (4)
2-3	-322 / 0	-77.4	-77.4 0.16 (1)	6.25	3-7	0 / 2	0.00 (4)
3-4	-267 / 0	-77.4	-77.4 0.01 (1)	6.25	7-4	-21 / 35	0.01 (4)
4-5	-322 / 0	-77.4	-77.4 0.16 (1)	6.25	2-8	0 / 277	0.06 (1)
9-2	-511 / 0	0.0	0.0 0.05 (1)	7.81	7-5	0 / 277	0.06 (1)
6-5	-404 / 0	0.0	0.0 0.04 (1)	7.81			
9-8	0 / 0	-17.5	-17.5 0.06 (4)	10.00			
8-7	0 / 267	-17.5	-17.5 0.08 (4)	10.00			
7-6	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

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

CSI: TC=0.16 (2-3:1), BC=0.08 (7-8:4), WB=0.06 (2-8:1), SSI=0.10 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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.

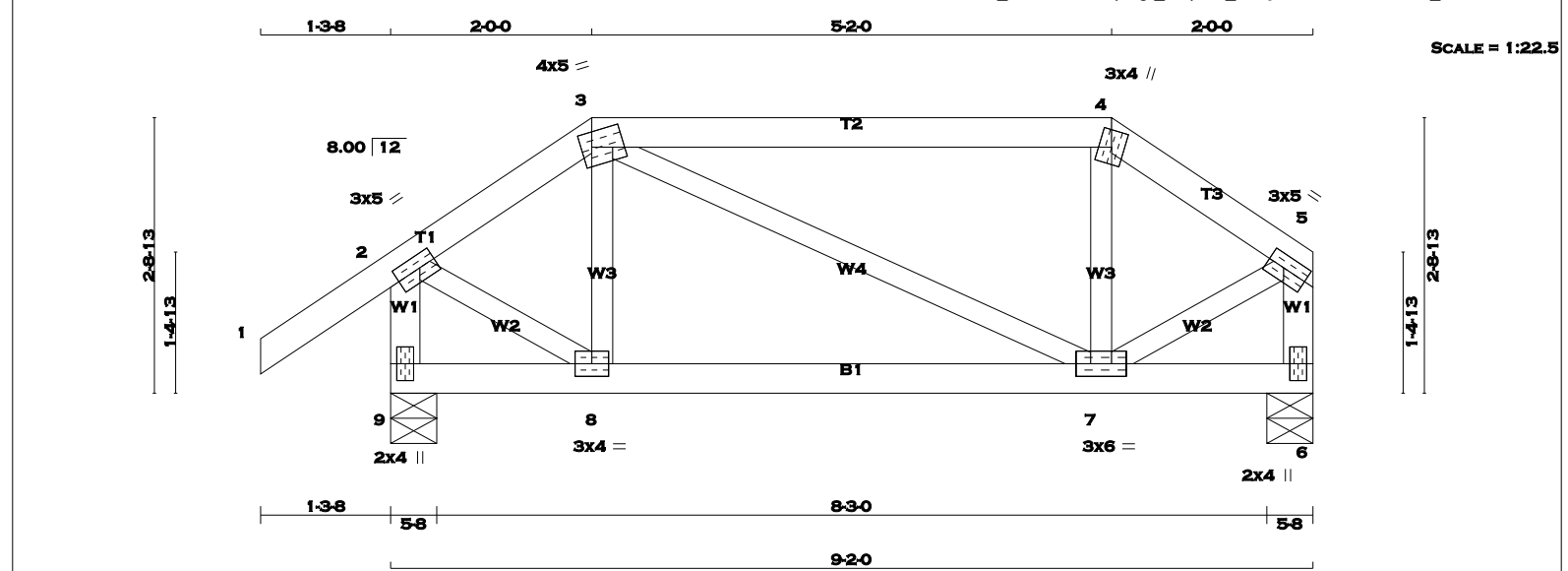
JSI GRIP= 0.51 (7) (INPUT = 0.90)
JSI METAL= 0.14 (2) (INPUT = 1.00)



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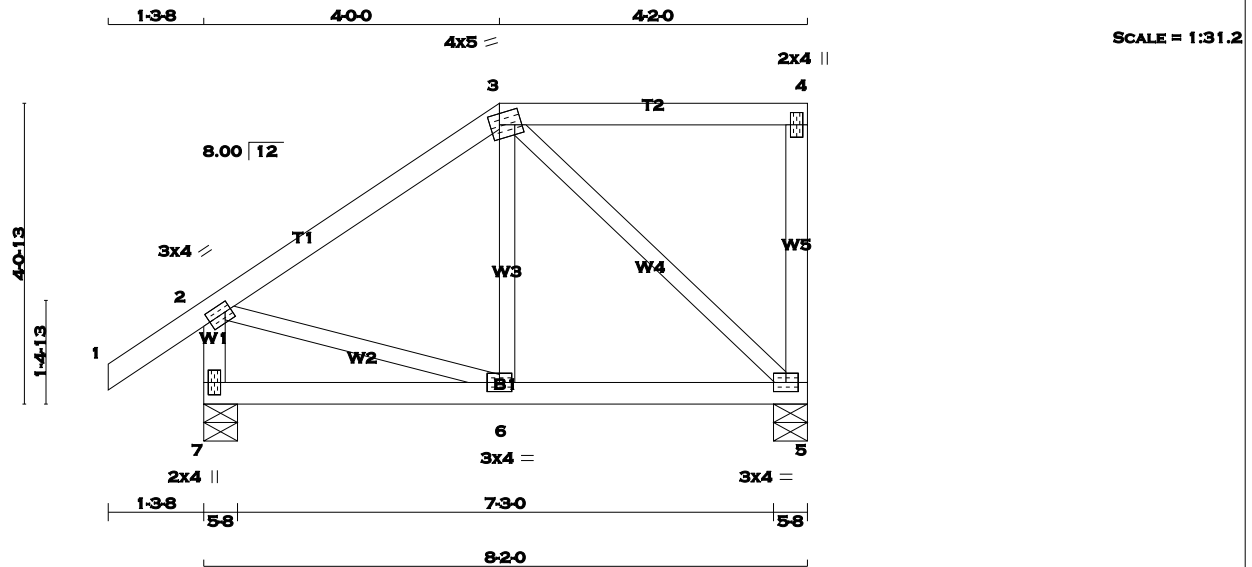
LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR.				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS				DESIGN CRITERIA			
1 - 3	2x4	DRY	No.2	SPF	FACTORED	MAXIMUM FACTORED	INPUT	REQRD	SPECIFIED LOADS:		
3 - 4	2x4	DRY	No.2	SPF	GROSS REACTION	GROSS REACTION	BRG	BRG	TOP CH. LL =	23.3	PSF
4 - 5	2x4	DRY	No.2	SPF	JT VERT	JT HORZ	DOWN	UPLIFT	DL =	3.0	PSF
9 - 2	2x4	DRY	No.2	SPF	9 541 0	541 0	0	5-8	BOT CH. LL =	0.0	PSF
6 - 5	2x4	DRY	No.2	SPF	6 435 0	435 0	0	5-8	DL =	7.0	PSF
9 - 6	2x4	DRY	No.2	SPF					TOTAL LOAD =	33.3	PSF
ALL WEBS	2x3	DRY	No.2	SPF	UNFACTORED REACTIONS				SPACING = 24.0 IN. C/C		
DRY: SEASONED LUMBER.					1ST LCASE	MAX/MIN. COMPONENT REACTIONS			LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12		
					JT COMBINED	SNOW	LIVE	PERM.LIVE	THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010		
					9 377	277 / 0	0 / 0	0 / 0	THIS DESIGN COMPLIES WITH:		
					6 305	213 / 0	0 / 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 (0.31")		
									CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")		
									ALLOWABLE DEFL.(TL)= L/360 (0.31")		
									CALCULATED VERT. DEFL.(TL) = L/ 999 (0.02")		
									CSI: TC=0.36 (3-4:1), BC=0.09 (7-8:4), WB=0.07 (2-8:1), SSI=0.16 (3-4:1)		
									DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10		
									COMPANION LIVE LOAD FACTOR = 0.50		
									TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .		
									NAIL VALUES		
									PLATE GRIP(DRY) SHEAR SECTION		
									(PSI) (PLI) (PLI)		
									MAX MIN MAX MIN MAX MIN		
									MT20 618 354 1667 822 2284 1656		
									PLATE PLACEMENT TOL. = 0.250 inches		
									PLATE ROTATION TOL. = 5.0 Deg.		
									JSI GRIP= 0.60 (7) (INPUT = 0.90)		
									JSI METAL= 0.14 (2) (INPUT = 1.00)		



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TOTAL WEIGHT = 37 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	2x4	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-t	MT20	3.0	4.0	1.50	1.00
3	TTWW-m	MT20	4.0	5.0	1.75	1.50
4	TMV+p	MT20	2.0	4.0		
5	BMVW1-t	MT20	3.0	4.0		
6	BMVW-t	MT20	3.0	4.0		
7	BMV1+p	MT20	2.0	4.0		

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

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
5	387	0	387	0	0	5-8	5-8	5-8	
7	494	0	494	0	0	5-8	5-8	5-8	

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
5	272	190 / 0	0 / 0	0 / 0	0 / 0	82 / 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) 5, 7

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED MAX (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 29	-77.4 -77.4	0.10 (1)	10.00	6-3	0 / 80	0.03 (4)
2-3	-263 / 0	-77.4 -77.4	0.21 (1)	6.25	3-5	-296 / 0	0.14 (1)
3-4	0 / 0	-77.4 -77.4	0.23 (1)	10.00	2-6	0 / 226	0.05 (1)
5-4	-161 / 0	0.0 0.0	0.04 (1)	7.81			
7-2	-465 / 0	0.0 0.0	0.05 (1)	7.81			
7-6	0 / 0	-17.5 -17.5	0.08 (4)	10.00			
6-5	0 / 220	-17.5 -17.5	0.10 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.27")
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=0.23 (3-4:1), BC=0.10 (5-6:4), WB=0.14 (3-5:1), 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= 0.74 (2) (INPUT = 0.90)
JSI METAL= 0.15 (2) (INPUT = 1.00)



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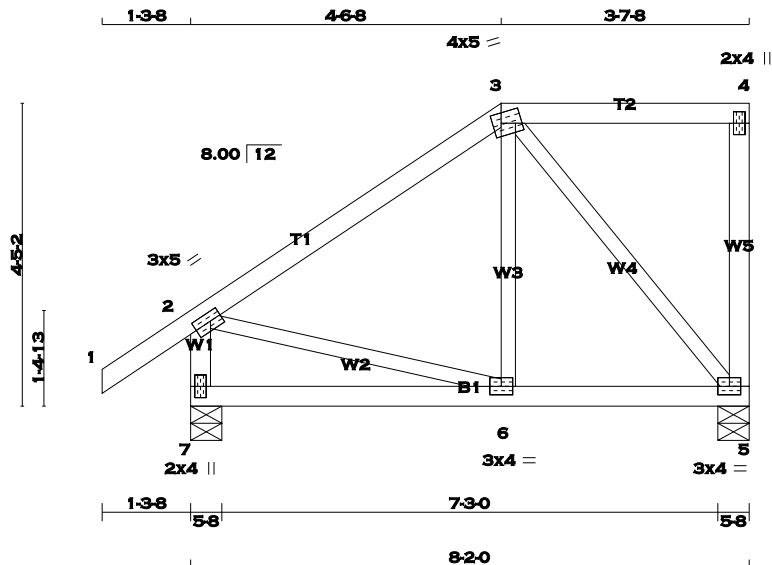
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KOTT , Stouffville, ON, CGC

Version 8.100 S Feb 9 2017 MiTek Industries, Inc. Sat Mar 18 11:23:30 2017 Page 1

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TOTAL WEIGHT = 38 lb

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	2x4	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-t	MT20	3.0	5.0	1.50	2.00
3	TTWW-m	MT20	4.0	5.0	1.75	1.50
4	TMV+p	MT20	2.0	4.0		
5	BMVW1-t	MT20	3.0	4.0		
6	BMVW-t	MT20	3.0	4.0		
7	BMV1+p	MT20	2.0	4.0		

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

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
5	387	0	387	0	0	5-8	5-8		
7	494	0	494	0	0	5-8	5-8		

UNFACTORED REACTIONS							
1ST LCASE	MAX/MIN.	COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	272	190 / 0	0 / 0	0 / 0	0 / 0	82 / 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) 5, 7

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

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

LOADING							
TOTAL LOAD CASES: (4)							
CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO			FR-TO		
1-2	0 / 29	-77.4 -77.4	0.10 (1)	10.00	6-3	0 / 85	0.03 (4)
2-3	-238 / 0	-77.4 -77.4	0.20 (1)	6.25	3-5	-301 / 0	0.14 (1)
3-4	0 / 0	-77.4 -77.4	0.17 (1)	10.00	2-6	0 / 203	0.05 (1)
5-4	-140 / 0	0.0 0.0	0.04 (1)	7.81			
7-2	-460 / 0	0.0 0.0	0.05 (1)	7.81			
7-6	0 / 0	-17.5 -17.5	0.09 (4)	10.00			
6-5	0 / 199	-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 (0.27")
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=0.20 (2-3:1), BC=0.10 (5-6:4), WB=0.14 (3-5:1), SSI=0.11 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.55 (3) (INPUT = 0.90)
JSI METAL= 0.12 (2) (INPUT = 1.00)



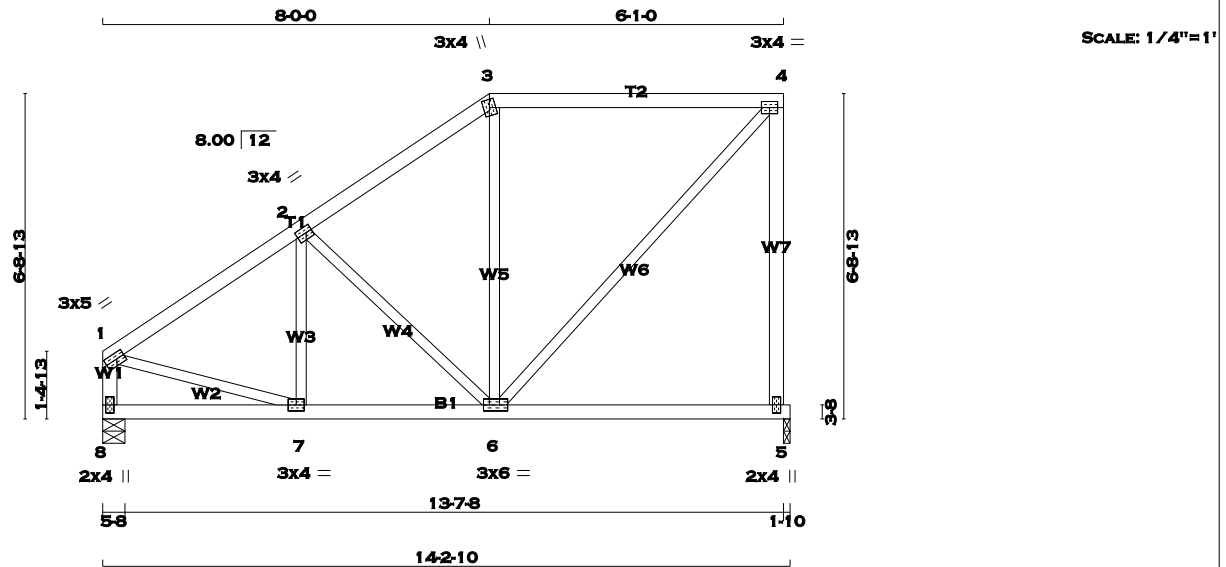
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TOTAL WEIGHT = 2 X 64 = 129 lb
[M][F]

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	3.0	5.0	1.50	2.00
2	TMVW-t	MT20	3.0	4.0	1.50	1.50
3	TTW+m	MT20	3.0	4.0		
4	TMVW-t	MT20	3.0	4.0		
5	BMV1+p	MT20	2.0	4.0		
6	BMVW-t	MT20	3.0	6.0	1.50	1.50
7	BMVW-t	MT20	3.0	4.0		
8	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT		GROSS	REACTION	GROSS	REACTION	BRG		BRG	
5	668	0	668	0	0	1-10		1-10	
8	668	0	668	0	0	5-8		5-8	

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN.	COMPONENT	REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
5	469	328 / 0	0 / 0	0 / 0	0 / 0	141 / 0	0 / 0		
8	469	328 / 0	0 / 0	0 / 0	0 / 0	141 / 0	0 / 0		

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX LC1 (LC)	
FR-TO		FROM TO		FR-TO			
1-2	-643 / 0	-77.4 -77.4	0.16 (1)	6.25	7-2	-80 / 33	0.02 (1)
2-3	-459 / 0	-77.4 -77.4	0.16 (1)	6.25	2-6	-260 / 0	0.13 (1)
3-4	-362 / 0	-77.4 -77.4	0.37 (1)	6.25	6-3	-105 / 38	0.08 (1)
5-4	-624 / 0	0.0 0.0	0.60 (1)	7.81	6-4	0 / 532	0.12 (1)
8-1	-636 / 0	0.0 0.0	0.07 (1)	7.81	1-7	0 / 571	0.13 (1)
8-7	0 / 0	-17.5 -17.5	0.06 (4)	10.00			
7-6	0 / 552	-17.5 -17.5	0.17 (4)	10.00			
6-5	0 / 0	-17.5 -17.5	0.13 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.47")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.47")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")

CSI: TC=0.60 (4-5:1), BC=0.17 (6-7:4), WB=0.13 (2-6:1), 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)	(PLI)		
MAX	MIN	MAX	MIN	MAX	MIN
MT20	618	354	1667	822	2284

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (4) (INPUT = 0.90)
JSI METAL= 0.22 (1) (INPUT = 1.00)



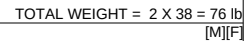
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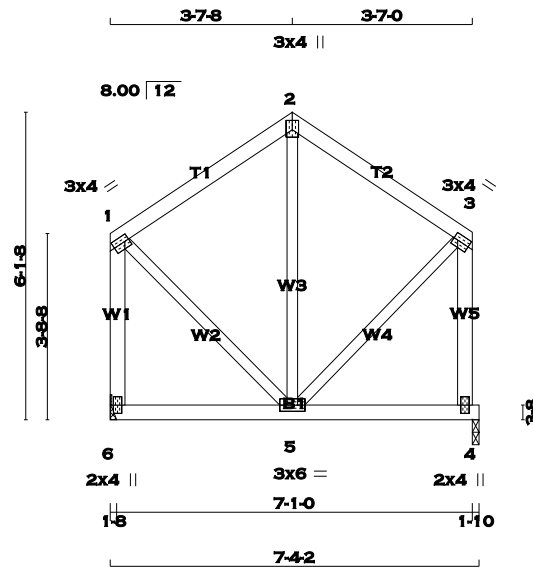


DESCR.	SPF	SPF	SPF	SPF	SPF	SPF

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT IN-SX	IN-SX
10	494	0	494	0	0	5-8
7	494	0	494	0	0	5-8

JSI GRIP= 0.85 (2) (INPUT = 0.90)
JSI METAL= 0.16 (2) (INPUT = 1.00)

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SCALE = 1:45.9

TOTAL WEIGHT = 2 X 38 = 76 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	3.0	4.0	1.50	1.00
2	TTW+p	MT20	3.0	4.0	2.25	1.50
3	TMVW-t	MT20	3.0	4.0	1.50	1.00
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		MAXIMUM FACTORED		INPUT		REQRD	
						GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	DOWN	HORZ	DOWN	HORZ	IN-SX	IN-SX	IN-SX	IN-SX
6	342	0	342	0	0					HANGER BY OTHERS			
4	342	0	342	0	0					MIN. SEAT SIZE: 1-8			
										1-10			

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
6	240	168 / 0	0 / 0	0 / 0	0 / 0	72 / 0	0 / 0	
4	240	168 / 0	0 / 0	0 / 0	0 / 0	72 / 0	0 / 0	

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 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)	LC1 MAX. (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. (LC)	
FR-TO		FROM	TO	FR-TO			
1-2	-133 / 0	-77.4	-77.4 0.13 (1)	6-25	5-2	-131 / 19	0.08 (1)
2-3	-133 / 0	-77.4	-77.4 0.13 (1)	6-25	1-5	0 / 151	0.03 (1)
6-1	-317 / 0	0.0	0.0 0.07 (1)	7.81	5-3	0 / 153	0.03 (1)
4-3	-318 / 0	0.0	0.0 0.07 (1)	7.81			
6-5	0 / 0	-17.5	-17.5 0.06 (4)	10.00			
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

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

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

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

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

CSI: TC=0.13 (1-2:1) , BC=0.06 (4-5:4) , WB=0.08 (2-5:1) , SSI=0.09 (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.

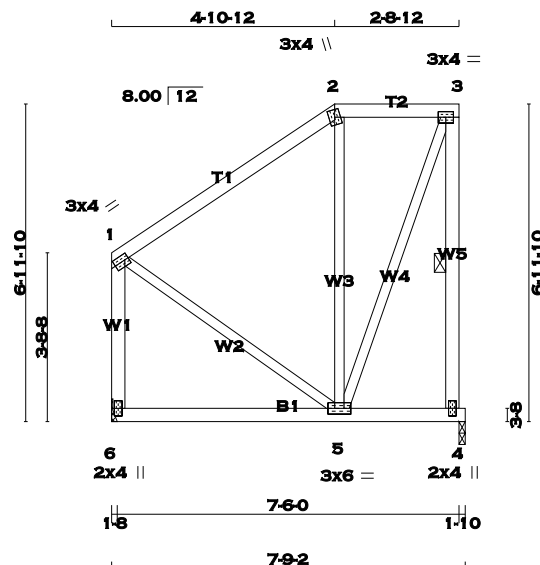
JSI GRIP= 0.48 (3) (INPUT = 0.90)
JSI METAL= 0.08 (1) (INPUT = 1.00)



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





SCALE = 1:50.6

TOTAL WEIGHT = 45 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	3.0	4.0	1.50	1.00
2	TTW+m	MT20	3.0	4.0		
3	TMVW-t	MT20	3.0	4.0		
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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
4	362	0	362	0	0	1-10
6	362	0	362	0	0	1-10

HANGER BY OTHERS
MIN. SEAT SIZE: 1-8

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		PERM.LIVE	WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE					
4	254	178 / 0	0 / 0		0 / 0	0 / 0	76 / 0	0 / 0
6	254	178 / 0	0 / 0		0 / 0	0 / 0	76 / 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.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 3-4. DBS = 20-0-0 . CBF = 44 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)

MEMB.	C H O R D S		W E B S	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO	FR-TO	
1-2	-121 / 0	-77.4 -77.4 0.24 (1)	6.25 5-2	-228 / 0
2-3	-97 / 0	-77.4 -77.4 0.07 (1)	6.25 5-3	0 / 265
4-3	-352 / 0	0.0 0.0 0.08 (1)	6.25 1-5	0 / 121
6-1	-325 / 0	0.0 0.0 0.07 (1)	7.81	
6-5	0 / 0	-17.5 -17.5 0.09 (4)	10.00	
5-4	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 (0.25")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.25")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.02")

CSI: TC=0.24 (1-2:1) , BC=0.09 (4-5:4) , WB=0.19 (2-5:1) , SSI=0.12 (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= 0.65 (3) (INPUT = 0.90)
JSI METAL= 0.09 (5) (INPUT = 1.00)



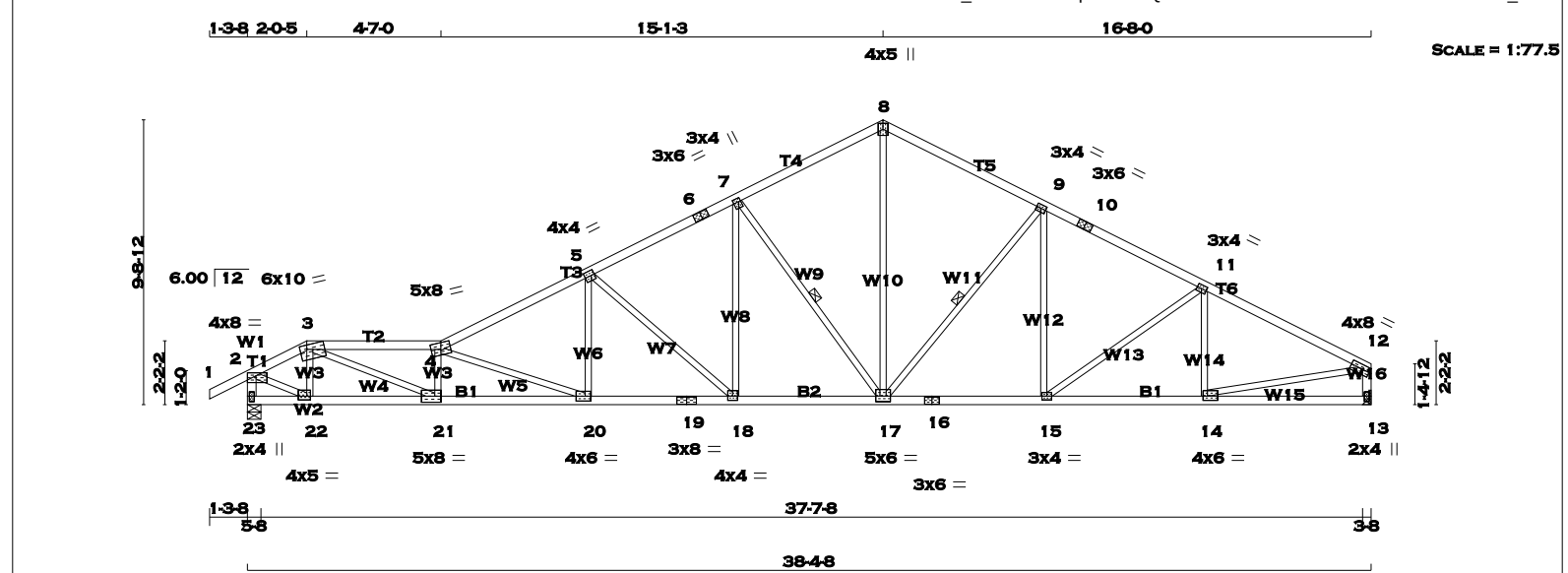
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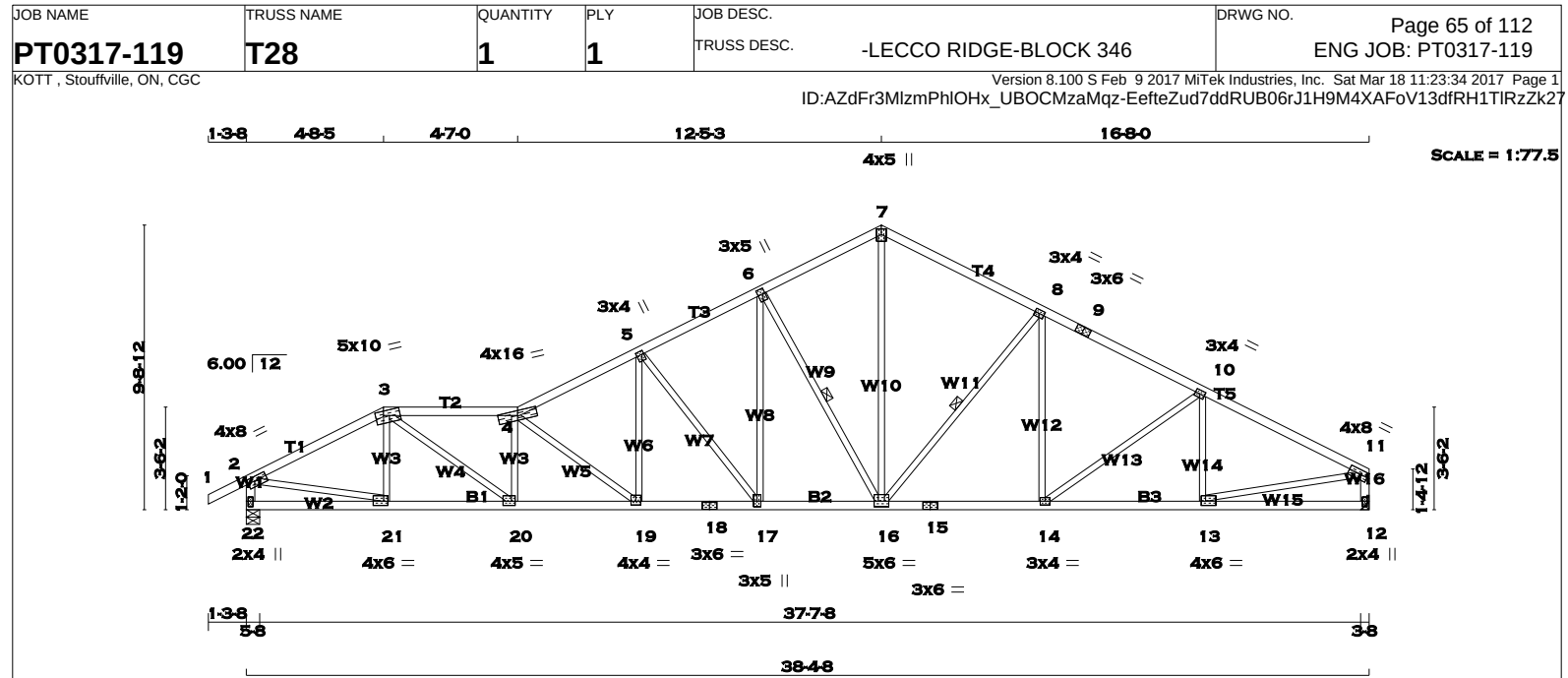
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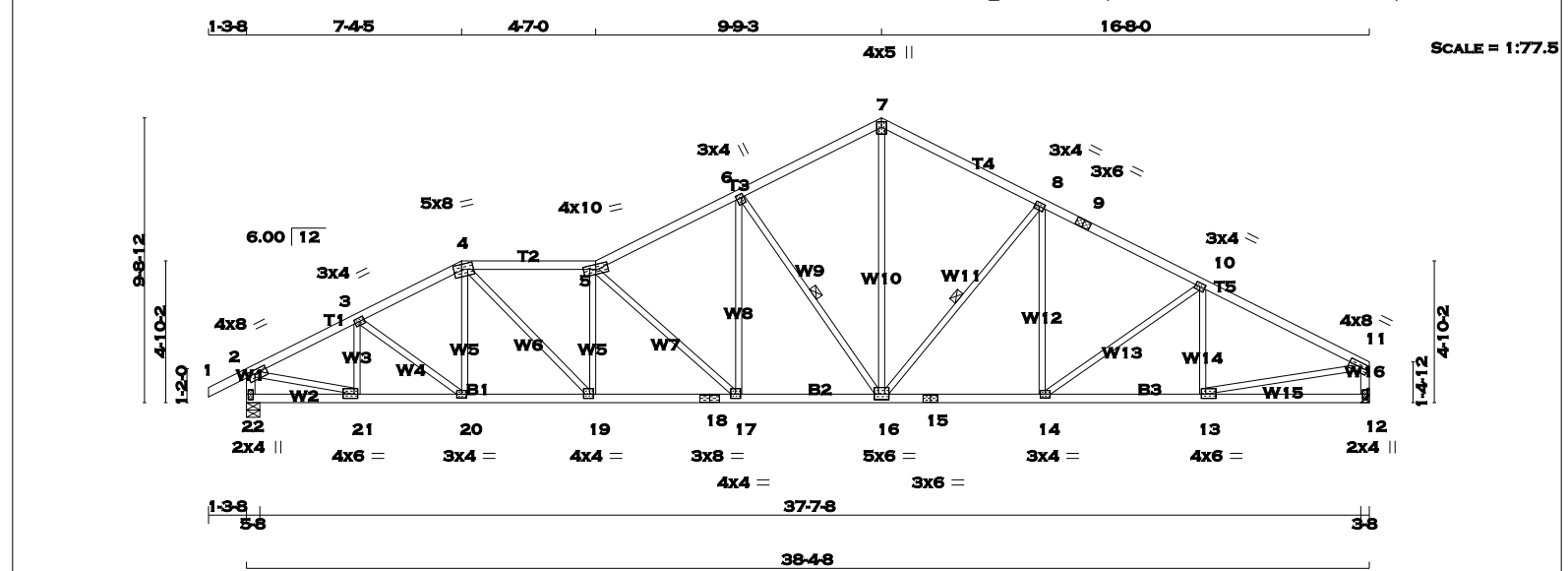
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IN THE DESIGN OF THIS COMPONENT.









TOTAL WEIGHT = 166 lb
[M][F]

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
7 - 9	2x4	DRY	No.2
9 - 11	2x4	DRY	No.2
22 - 2	2x4	DRY	No.2
12 - 11	2x4	DRY	No.2
22 - 18	2x4	DRY	No.2
18 - 15	2x4	DRY	No.2
15 - 12	2x4	DRY	No.2

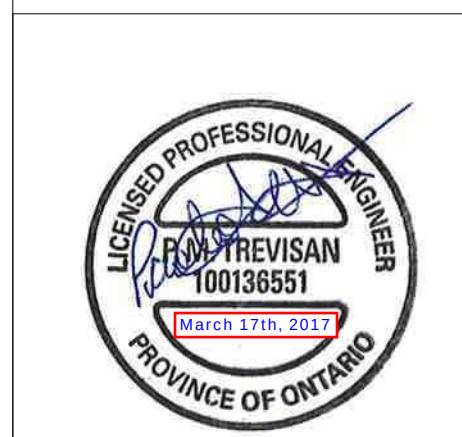
ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	X
2	TMVW-t	MT20	4.0	8.0	1.50 3.00
3, 8, 10					
3	TMWW-t	MT20	3.0	4.0	1.50 1.75
4	TTWW-m	MT20	5.0	8.0	2.00 3.25
5	TTWW-m	MT20	4.0	10.0	
6	TMWW-t	MT20	3.0	4.0	1.50 0.75
7	TTW+p	MT20	4.0	5.0	2.25 2.00
9	TS-t	MT20	3.0	6.0	
11	TMVW-t	MT20	4.0	8.0	1.75 Edge
12	BMV1+p	MT20	2.0	4.0	2.25 1.00
13	BMWW-t	MT20	4.0	6.0	1.75 1.75
14	BMWW-t	MT20	3.0	4.0	
15	BS-t	MT20	3.0	6.0	
16	BMWW-t	MT20	5.0	6.0	2.25 3.00
17	BMWW-t	MT20	4.0	4.0	1.75 2.00
18	BS-t	MT20	3.0	8.0	
19	BMWW-t	MT20	4.0	4.0	1.75 1.50
20	BMWW-t	MT20	3.0	4.0	
21	BMWW-t	MT20	4.0	6.0	1.75 1.50
22	BMV1+p	MT20	2.0	4.0	2.25 1.00

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	DOWN	HORIZ
22	1925	0	1925
12	1820	0	1820

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
22	1349	957 / 0	0 / 0	0 / 0	0 / 0	392 / 0	0 / 0
12	1277	894 / 0	0 / 0	0 / 0	0 / 0	384 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 22

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.61 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 6-16. DBS = 12-0-0. CBF = 88 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 8-16. DBS = 20-0-0. CBF = 73 LBS.

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

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

LOADING

TOTAL LOAD CASES: (4)

C H O R D S				W E B S			
MAX. FACTORED		FACTORED		MAX. FACTORED		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX	MEMB.	FORCE (LBS)	LC1 MAX	UNBRAC
FR-TO		FROM TO	CS1 (LC)	FR-TO		FROM TO	CS1 (LC)
1-2	0 / 23	-77.4	-77.4 0.10 (1)	10.00	21-3	-468 / 0	0.08 (1)
2-3	-2549 / 0	-77.4	-77.4 0.20 (1)	4.18	3-20	0 / 123	0.03 (1)
3-4	-2686 / 0	-77.4	-77.4 0.19 (1)	4.10	20-4	0 / 55	0.02 (4)
4-5	-3276 / 0	-77.4	-77.4 0.35 (1)	3.61	4-19	0 / 1263	0.28 (1)
5-6	-2771 / 0	-77.4	-77.4 0.34 (1)	3.90	19-5	-825 / 0	0.28 (1)
6-7	-2062 / 0	-77.4	-77.4 0.29 (1)	4.47	5-17	-1089 / 0	0.90 (1)
7-8	-2060 / 0	-77.4	-77.4 0.34 (1)	4.42	17-6	0 / 825	0.19 (1)
8-9	-2457 / 0	-77.4	-77.4 0.35 (1)	4.11	6-16	-1171 / 0	0.58 (1)
9-10	-2457 / 0	-77.4	-77.4 0.35 (1)	4.11	16-7	0 / 1509	0.34 (1)
10-11	-2565 / 0	-77.4	-77.4 0.42 (1)	3.97	16-8	-584 / 0	0.30 (1)
22-2	-1889 / 0	0.0	0.0 0.19 (1)	6.10	14-8	0 / 173	0.04 (4)
12-11	-1777 / 0	0.0	0.0 0.18 (1)	6.26	14-10	-139 / 0	0.12 (1)
					13-10	-336 / 0	0.09 (1)
22-21	0 / 0	-17.5	-17.5 0.06 (4)	10.00	2-21	0 / 2349	0.53 (1)
21-20	0 / 2290	-17.5	-17.5 0.41 (1)	10.00	13-11	0 / 2352	0.53 (1)
20-19	0 / 2389	-17.5	-17.5 0.43 (1)	10.00			
19-18	0 / 3295	-17.5	-17.5 0.58 (1)	10.00			
18-17	0 / 3295	-17.5	-17.5 0.58 (1)	10.00			
17-16	0 / 2498	-17.5	-17.5 0.47 (1)	10.00			
16-15	0 / 2197	-17.5	-17.5 0.42 (1)	10.00			
15-14	0 / 2197	-17.5	-17.5 0.42 (1)	10.00			
14-13	0 / 2310	-17.5	-17.5 0.42 (1)	10.00			
13-12	0 / 0	-17.5	-17.5 0.12 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C/C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.28")
CALCULATED VERT. DEFL.(LL)= L/999 (0.21")
ALLOWABLE DEFL.(TL)= L/360 (1.28")
CALCULATED VERT. DEFL.(TL)= L/999 (0.38")

CSI: TC=0.42 (10-11:1), BC=0.58 (17-19:1), WB=0.90 (5-17:1), SSI=0.18 (10-11:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

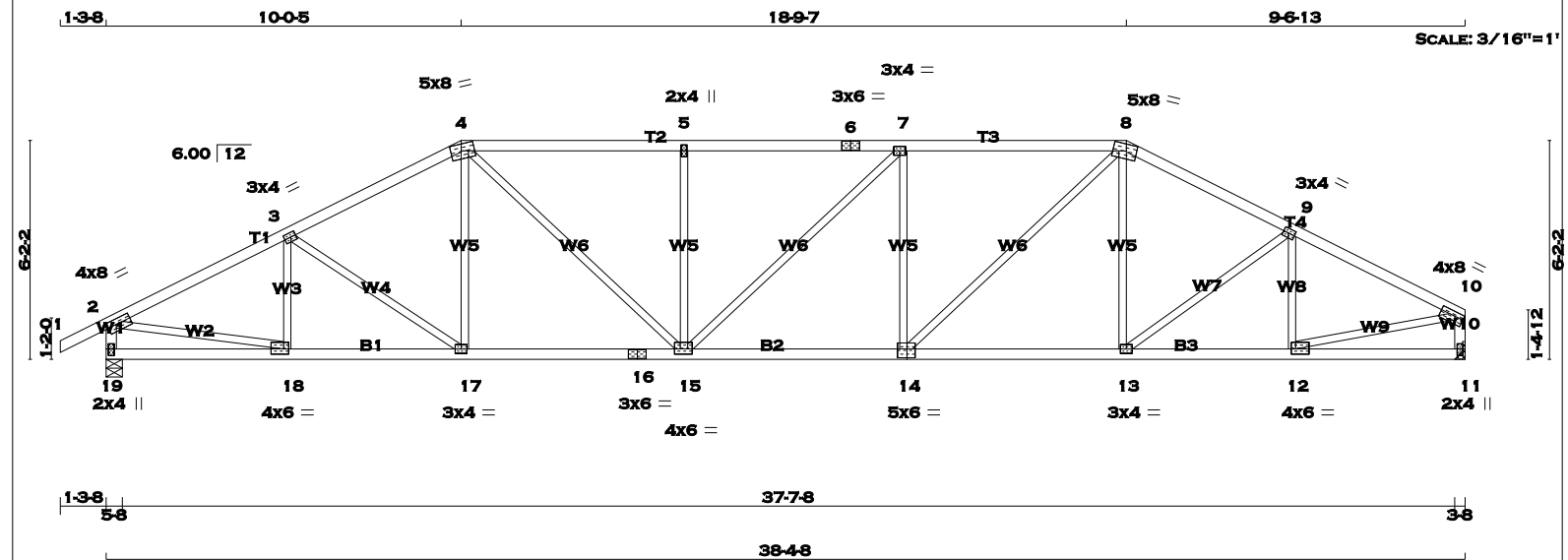
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (11) (INPUT = 0.90)
JSI METAL= 0.85 (18) (INPUT = 1.00)

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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
8 - 10	2x4	DRY	No.2
19 - 2	2x4	DRY	No.2
11 - 10	2x4	DRY	No.2
19 - 16	2x4	DRY	No.2
16 - 14	2x4	DRY	No.2
14 - 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	8.0	1.75 3.00
3	TMWW-t	MT20	3.0	4.0	1.50 1.75
4	TTWW-m	MT20	5.0	8.0	2.25 3.50
5	TMW-w	MT20	2.0	4.0	
6	TS-t	MT20	3.0	6.0	
7	TMWW-t	MT20	3.0	4.0	
8	TTWW-m	MT20	5.0	8.0	2.25 3.50
9	TMWW-t	MT20	3.0	4.0	1.50 1.75
10	TMVW-t	MT20	4.0	8.0	1.50 3.00
11	BMV1-p	MT20	2.0	4.0	2.25 1.00
12	BMWW-t	MT20	4.0	6.0	1.75 1.50
13	BMWW-t	MT20	3.0	4.0	
14	BSWW-l	MT20	5.0	6.0	3.00 2.75
15	BMWW-t	MT20	4.0	6.0	1.75 2.00
16	BS-t	MT20	3.0	6.0	
17	BMWW-t	MT20	3.0	4.0	
18	BMWW-t	MT20	4.0	6.0	1.75 1.75
19	BMV1-p	MT20	2.0	4.0	2.25 1.00

A SIZE FOR SIZE SUBSTITUTION OF MITTEK 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	
JT		VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX
19		1925	0	1925	0	0	5-8
11		1820	0	1820	0	0	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
19		1349	957 / 0	0 / 0	0 / 0	0 / 0	392 / 0
11		1277	894 / 0	0 / 0	0 / 0	0 / 0	384 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.62 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING				TOTAL LOAD CASES: (4)			
CHORDS				WEBS			
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. (LC)	MEMB.	FORCE (LBS)	MAX. (LC)	
FR-TO		FROM	TO	FR-TO		FROM	TO
1-2	0 / 23	-77.4	-77.4 0.10 (1)	10.00	18-3	-323 / 0	0.07 (1)
2-3	-2698 / 0	-77.4	-77.4 0.35 (1)	3.94	3-17	-158 / 0	0.10 (1)
3-4	-2592 / 0	-77.4	-77.4 0.33 (1)	4.03	17-4	0 / 195	0.05 (4)
4-5	-2956 / 0	-77.4	-77.4 0.52 (1)	3.62	4-15	0 / 894	0.20 (1)
5-6	-2956 / 0	-77.4	-77.4 0.47 (1)	3.67	15-5	-524 / 0	0.32 (1)
6-7	-2956 / 0	-77.4	-77.4 0.47 (1)	3.67	15-7	0 / 30	0.01 (1)
7-8	-2934 / 0	-77.4	-77.4 0.52 (1)	3.63	14-7	-546 / 0	0.33 (1)
8-9	-2514 / 0	-77.4	-77.4 0.30 (1)	4.11	14-8	0 / 960	0.22 (1)
9-10	-2507 / 0	-77.4	-77.4 0.31 (1)	4.11	13-8	0 / 124	0.04 (4)
19-2	-1883 / 0	0.0	0.0 0.19 (1)	6.12	13-9	-34 / 0	0.02 (1)
11-10	-1780 / 0	0.0	0.0 0.18 (1)	6.26	12-9	-422 / 0	0.10 (1)
					2-18	0 / 2464	0.55 (1)
					12-10	0 / 2313	0.52 (1)
19-18	0 / 0	-17.5	-17.5 0.09 (4)	10.00			
18-17	0 / 2430	-17.5	-17.5 0.46 (1)	10.00			
17-16	0 / 2303	-17.5	-17.5 0.44 (1)	10.00			
16-15	0 / 2303	-17.5	-17.5 0.44 (1)	10.00			
15-14	0 / 2934	-17.5	-17.5 0.54 (1)	10.00			
14-13	0 / 2233	-17.5	-17.5 0.42 (1)	10.00			
13-12	0 / 2258	-17.5	-17.5 0.43 (1)	10.00			
12-11	0 / 0	-17.5	-17.5 0.09 (4)	10.00			

TOTAL WEIGHT = 2 X 154 = 309 lb

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

SPACING = 24.0 IN./C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.28")
CALCULATED VERT. DEFL.(LL) = L/999 (0.20")
ALLOWABLE DEFL.(TL)= L/360 (1.28")
CALCULATED VERT. DEFL.(TL) = L/999 (0.36")

CSI: TC=0.52 (4-5:1), BC=0.54 (14-15:1), WB=0.55 (2-18:1), SSI=0.23 (7-8:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

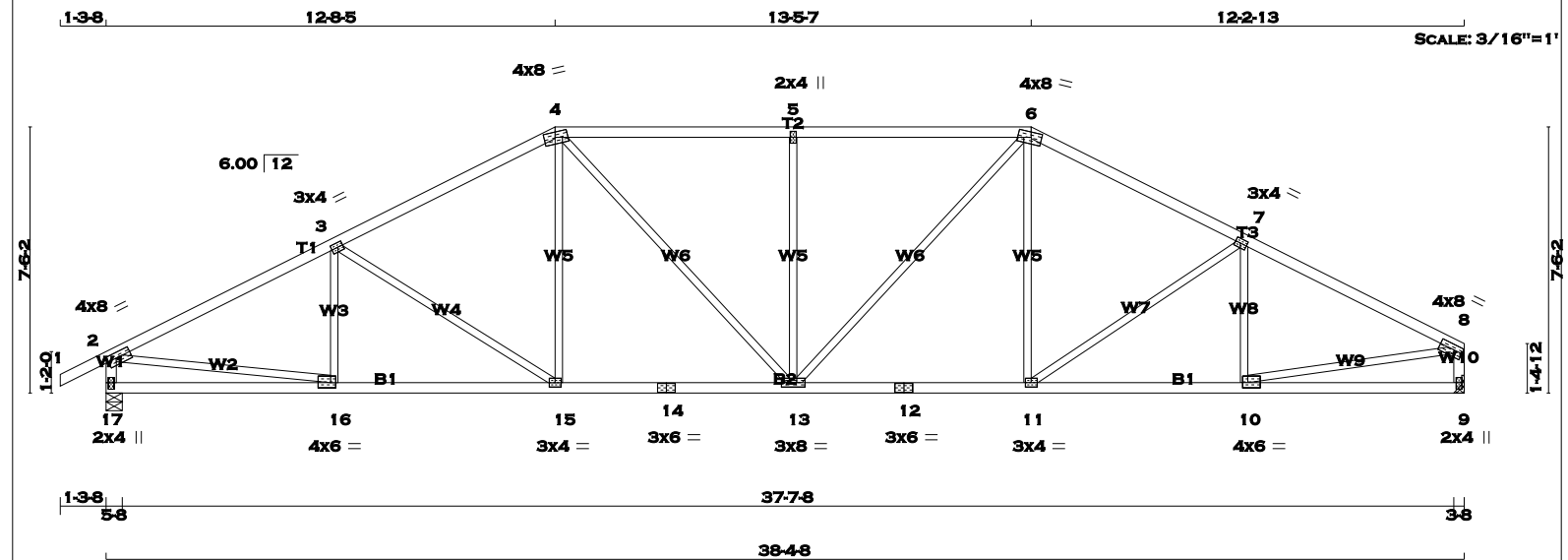
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (2) (INPUT = 0.90)
JSI METAL= 0.61 (18) (INPUT = 1.00)

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





TOTAL WEIGHT = 2 X 155 = 310 lb
[M][F]

LUMBER				N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.	CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	1 - 4	2x4	DRY	No.2
4 - 6	2x4	DRY	No.2	4 - 6	2x4	DRY	No.2
6 - 8	2x4	DRY	No.2	6 - 8	2x4	DRY	No.2
17 - 2	2x4	DRY	No.2	17 - 2	2x4	DRY	No.2
9 - 8	2x4	DRY	No.2	9 - 8	2x4	DRY	No.2
17 - 14	2x4	DRY	No.2	17 - 14	2x4	DRY	No.2
14 - 12	2x4	DRY	No.2	14 - 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
2	TMVW-t	MT20	4.0	8.0	1.75	3.00
3	TMVW-t	MT20	3.0	4.0	1.50	1.75
4	TTWW-m	MT20	4.0	8.0	1.75	3.75
5	TMW+w	MT20	2.0	4.0		
6	TTWW-m	MT20	4.0	8.0	1.75	3.50
7	TMVW-t	MT20	3.0	4.0	1.50	1.75
8	TMVW-t	MT20	4.0	8.0	1.75	Edge
9	BMV1+p	MT20	2.0	4.0	2.25	1.00
10	BMVW-t	MT20	4.0	6.0	1.75	1.75
11	BMVW-t	MT20	3.0	4.0		
12	BS-t	MT20	3.0	6.0		
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	4.0	6.0	1.75	1.75
17	BMV1+p	MT20	2.0	4.0	2.25	1.00
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.						
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.						



DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX		
17		1925	0	1925	0	0	5-8	5-8	
9		1820	0	1820	0	0	HANGER BY OTHERS		
MIN. SEAT SIZE: 3-8									
UNFACTORED REACTIONS									
		1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
17		1349	957 / 0	0 / 0	0 / 0	0 / 0	392 / 0	0 / 0	
9		1277	894 / 0	0 / 0	0 / 0	0 / 0	384 / 0	0 / 0	

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.68 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED (LC1)	MEMB.	FORCE (LBS)	MAX. FACTORED (LC1)	MAX. FACTORED (LC1)
FR-TO		FROM	TO	FR-TO		FROM	TO
1-2	0 / 23	-77.4	-77.4 0.10 (1)	10.00	16-3	-214 / 42	0.06 (1)
2-3	-2762 / 0	-77.4	-77.4 0.58 (1)	3.68	3-15	-410 / 0	0.47 (1)
3-4	-2429 / 0	-77.4	-77.4 0.52 (1)	3.94	15-4	0 / 338	0.08 (1)
4-5	-2484 / 0	-77.4	-77.4 0.57 (1)	3.80	4-13	0 / 486	0.11 (1)
5-6	-2484 / 0	-77.4	-77.4 0.57 (1)	3.80	13-6	-640 / 0	0.65 (1)
6-7	-2384 / 0	-77.4	-77.4 0.47 (1)	4.02	13-6	0 / 546	0.12 (1)
7-8	-2605 / 0	-77.4	-77.4 0.52 (1)	3.83	11-6	0 / 281	0.06 (1)
17-2	-1876 / 0	0.0	0.0 0.19 (1)	6.13	11-7	-296 / 0	0.32 (1)
9-8	-1773 / 0	0.0	0.0 0.18 (1)	6.27	10-7	-298 / 13	0.09 (1)
					2-16	0 / 2515	0.57 (1)
					10-8	0 / 2387	0.54 (1)
17-16	0 / 0	-17.5	-17.5 0.16 (4)	10.00			
16-15	0 / 2493	-17.5	-17.5 0.48 (1)	10.00			
15-14	0 / 2153	-17.5	-17.5 0.43 (1)	10.00			
14-13	0 / 2153	-17.5	-17.5 0.43 (1)	10.00			
13-12	0 / 2112	-17.5	-17.5 0.42 (1)	10.00			
12-11	0 / 2112	-17.5	-17.5 0.42 (1)	10.00			
11-10	0 / 2352	-17.5	-17.5 0.46 (1)	10.00			
10-9	0 / 0	-17.5	-17.5 0.15 (4)	10.00			

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

SPACING = 24.0 IN./C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.28")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.16")
ALLOWABLE DEFL.(TL)= L/360 (1.28")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.30")

CSI: TC=0.58 (2-3:1), BC=0.48 (15-16:1), WB=0.65 (5-13:1), SSI=0.25 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

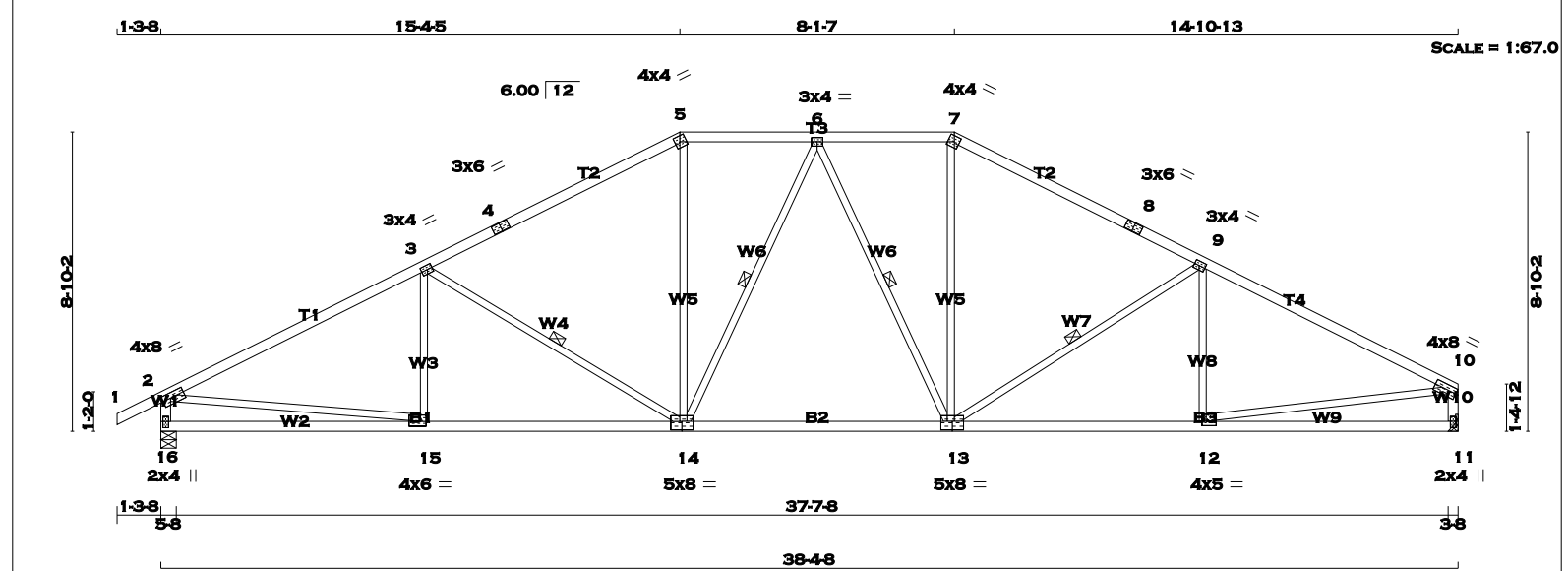
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (8) (INPUT = 0.90)
JSI METAL= 0.62 (16) (INPUT = 1.00)

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TOTAL WEIGHT = 3 X 157 = 471 lb
[M][F]

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
7 - 8	2x4	DRY	No.2
8 - 10	2x4	DRY	No.2
16 - 2	2x4	DRY	No.2
11 - 10	2x4	DRY	No.2
16 - 14	2x4	DRY	No.2
14 - 13	2x4	DRY	No.2
13 - 11	2x4	DRY	No.2

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMVW-t	MT20	4.0	8.0	1.75 3.00
3	TMWW-t	MT20	3.0	4.0	1.50 1.75
4	TS-t	MT20	3.0	6.0	
5	TTW-h	MT20	4.0	4.0	2.00 1.75
6	TMWW-t	MT20	3.0	4.0	
7	TTW-h	MT20	4.0	4.0	2.00 1.75
8	TS-t	MT20	3.0	6.0	
9	TMWW-t	MT20	3.0	4.0	1.50 1.75
10	TMVW-t	MT20	4.0	8.0	1.75 Edge
11	BMV1+p	MT20	2.0	4.0	2.25 1.00
12	BMWW-t	MT20	4.0	5.0	1.50 1.50
13	BSWWW-l	MT20	5.0	8.0	3.00 4.00
14	BSWWW-l	MT20	5.0	8.0	3.00 4.00
15	BMWW-t	MT20	4.0	6.0	1.75 2.00
16	BMV1+p	MT20	2.0	4.0	2.25 1.00

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

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



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

BEARINGS			
FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION	
JT	VERT	DOWN	HORZ
16	1925	0	0
11	1820	0	0

UNFACTORED REACTIONS							
JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
16	1349	957 / 0	0 / 0	0 / 0	0 / 0	392 / 0	0 / 0
11	1277	894 / 0	0 / 0	0 / 0	0 / 0	384 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.27 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 3-14, 6-14, 6-13, 9-13. DBS = 20-0-0 . CBF = 80 LBS.

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

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

LOADING			
TOTAL LOAD CASES: (4)			
C H O R D S		W E B S	
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED UNBRAC LENGTH (LC)
FR-TO		FROM TO	FR-TO
1-2	0 / 23	-77.4 -77.4	0.10 (1) 10.00
2-3	-2776 / 0	-77.4 -77.4	0.92 (1) 3.27
3-4	-2235 / 0	-77.4 -77.4	0.78 (1) 3.71
4-5	-2235 / 0	-77.4 -77.4	0.78 (1) 3.71
5-6	-1974 / 0	-77.4 -77.4	0.19 (1) 4.64
6-7	-1953 / 0	-77.4 -77.4	0.19 (1) 4.66
7-8	-2211 / 0	-77.4 -77.4	0.72 (1) 3.81
8-9	-2211 / 0	-77.4 -77.4	0.72 (1) 3.81
9-10	-2645 / 0	-77.4 -77.4	0.82 (1) 3.44
16-2	-1868 / 0	0.0 0.0	0.19 (1) 6.13
11-10	-1765 / 0	0.0 0.0	0.18 (1) 6.28
16-15	0 / 0	-17.5 -17.5	0.24 (4) 10.00
15-14	0 / 2511	-17.5 -17.5	0.52 (1) 10.00
14-13	0 / 2051	-17.5 -17.5	0.45 (1) 10.00
13-12	0 / 2393	-17.5 -17.5	0.50 (1) 10.00
12-11	0 / 0	-17.5 -17.5	0.22 (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
- TPC 2011

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

ALLOWABLE DEFL.(LL)= L/360 (1.28")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.15")
ALLOWABLE DEFL.(TL)= L/360 (1.28")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.32")

CSI: TC=0.92 (2-3:1), BC=0.52 (14-15:1), WB=0.57 (2-15:1), SSI=0.26 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

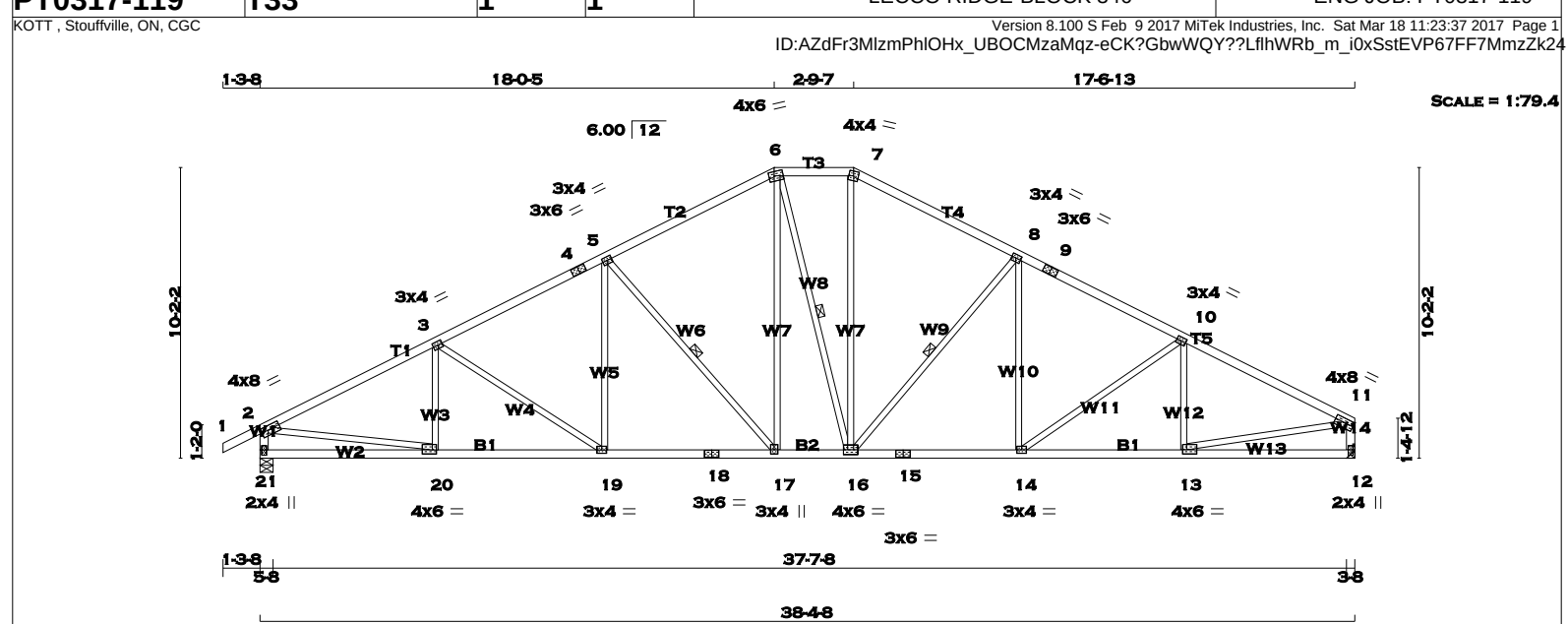
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (12) (INPUT = 0.90)
JSI METAL= 0.72 (12) (INPUT = 1.00)

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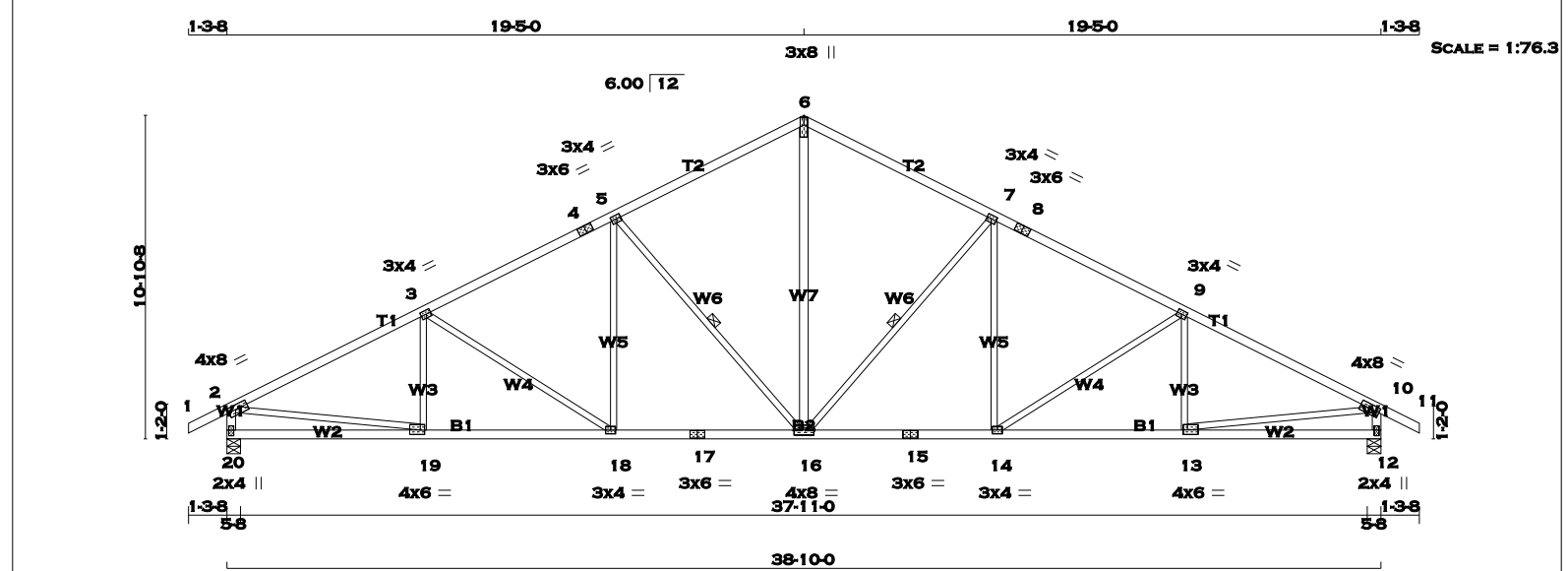
LUMBER N. L. G. A. RULES CHORDS SIZE 1 - 4 2x4 DRY No.2 4 - 6 2x4 DRY No.2 6 - 7 2x4 DRY No.2 7 - 9 2x4 DRY No.2 9 - 11 2x4 DRY No.2 21 - 2 2x4 DRY No.2 12 - 11 2x4 DRY No.2 21 - 18 2x4 DRY No.2 18 - 15 2x4 DRY No.2 15 - 12 2x4 DRY No.2 ALL WEBS 2x3 DRY No.2 EXCEPT DRY: SEASONED LUMBER.					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED GROSS REACTION JT VERT HORZ 21 1925 0 12 1820 0 MAXIMUM FACTORED GROSS REACTION DOWN HORZ UPLIFT 21 1925 0 0 12 1820 0 0 INPUT BRG IN-SX 5-8 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 21 1349 957 / 0 0 / 0 0 / 0 392 / 0 0 / 0 12 1277 894 / 0 0 / 0 0 / 0 384 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 21 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.78 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-17, 6-16, 8-16. DBS = 20-0-0. CBF = 89 LBS. DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"x3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12. END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW LOADING TOTAL LOAD CASES: (4) C H O R D S MEMB. MAX. FACTORED FORCE (LBS) FACTORED VERT. LOAD (PLF) LC1 MAX. UNBRAC LENGTH FR-TO FR-TO 1-2 0 / 23 -77.4 -77.4 0.10 (1) 10.00 2-3 -2740 / 0 -77.4 -77.4 0.51 (1) 3.78 3-4 -2492 / 0 -77.4 -77.4 0.41 (1) 4.03 4-5 -2492 / 0 -77.4 -77.4 0.41 (1) 4.03 5-6 -1986 / 0 -77.4 -77.4 0.40 (1) 4.43 6-7 -1760 / 0 -77.4 -77.4 0.11 (1) 4.95 7-8 -1981 / 0 -77.4 -77.4 0.38 (1) 4.46 8-9 -2428 / 0 -77.4 -77.4 0.39 (1) 4.10 9-10 -2428 / 0 -77.4 -77.4 0.39 (1) 4.10 10-11 -2582 / 0 -77.4 -77.4 0.47 (1) 3.91 21-2 -1878 / 0 0.0 0.0 0.19 (1) 6.12 12-11 -1775 / 0 0.0 0.0 0.18 (1) 6.26 W E B S MEMB. MAX. FACTORED FORCE (LBS) MAX. UNBRAC LENGTH FR-TO FR-TO 20-3 -233 / 29 0.06 (1) 3-19 -286 / 0 0.28 (1) 19-5 0 / 268 0.06 (1) 5-17 -716 / 0 0.42 (1) 17-6 0 / 603 0.14 (1) 6-16 -15 / 0 0.01 (1) 16-7 0 / 591 0.13 (1) 16-8 -647 / 0 0.38 (1) 14-8 0 / 210 0.05 (4) 14-10 -189 / 0 0.18 (1) 13-10 -312 / 4 0.09 (1) 2-20 0 / 2491 0.56 (1) 13-11 0 / 2364 0.53 (1) 21-20 0 / 0 -17.5 -17.5 0.14 (4) 10.00 20-19 0 / 2468 -17.5 -17.5 0.46 (1) 10.00 19-18 0 / 2229 -17.5 -17.5 0.43 (1) 10.00 18-17 0 / 2229 -17.5 -17.5 0.43 (1) 10.00 17-16 0 / 1764 -17.5 -17.5 0.35 (1) 10.00 16-15 0 / 2171 -17.5 -17.5 0.41 (1) 10.00 15-14 0 / 2171 -17.5 -17.5 0.41 (1) 10.00 14-13 0 / 2326 -17.5 -17.5 0.43 (1) 10.00 13-12 0 / 0 -17.5 -17.5 0.14 (4) 10.00					DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.0 PSF TOTAL LOAD = 33.3 PSF SPACING = 24.0 IN. C/C LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12 THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012, BCBC 2012, ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (1.28") CALCULATED VERT. DEFL.(LL) = L/999 (0.15") ALLOWABLE DEFL.(TL)= L/360 (1.28") CALCULATED VERT. DEFL.(TL) = L/999 (0.29") CSI: TC=0.51 (2-3:1), BC=0.46 (19-20:1), WB=0.56 (2-20:1), SSI=0.20 (2-3:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 618 354 1667 822 2284 1656 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.90 (7) (INPUT = 0.90) JSI METAL= 0.64 (18) (INPUT = 1.00)				
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TOTAL WEIGHT = 6 X 166 = 996 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 - 11	2x4	DRY	No.2
20 - 2	2x4	DRY	No.2
12 - 10	2x4	DRY	No.2
20 - 17	2x4	DRY	No.2
17 - 15	2x4	DRY	No.2
15 - 12	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
16 - 6	2x4	DRY	No.2
DRY: SEASONED LUMBER.			

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	8.0	1.75	3.00
3, 5, 7, 9						
3	TMWW-t	MT20	3.0	4.0	1.50	1.75
4	TS-t	MT20	3.0	6.0		
6	TTW+p	MT20	3.0	8.0	Edge	
8	TS-t	MT20	3.0	6.0		
10	TMVW-t	MT20	4.0	8.0	1.75	3.00
12	BMV1+p	MT20	2.0	4.0	2.25	1.00
13	BMWW-t	MT20	4.0	6.0	1.75	1.75
14	BMWW-t	MT20	3.0	4.0		
15	BS-t	MT20	3.0	6.0		
16	BMWWW-t	MT20	4.0	8.0		
17	BS-t	MT20	3.0	6.0		
18	BMWW-t	MT20	3.0	4.0		
19	BMWW-t	MT20	4.0	6.0	1.75	1.75
20	BMV1+p	MT20	2.0	4.0	2.25	1.00

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

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



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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
20	1947	0		1947	0	0	5-8	5-8	
12	1947	0		1947	0	0	5-8	5-8	

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN.		COMPONENT REACTIONS			
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
20	1364	968 / 0	0 / 0	0 / 0	0 / 0	396 / 0	0 / 0
12	1364	968 / 0	0 / 0	0 / 0	0 / 0	396 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 20, 12

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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 7-16, 5-16. DBS = 18-0-0 . CBF = 88 LBS.

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

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

LOADING
TOTAL LOAD CASES: (4)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LOAC1 (CSI (LC))	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM	TO		FR-TO		
1-2	0 / 23	-77.4	-77.4 0.10 (1)	10.00	16-6	0 / 1299	0.21 (1)
2-3	-2790 / 0	-77.4	-77.4 0.61 (1)	3.66	16-7	-783 / 0	0.53 (1)
3-4	-2474 / 0	-77.4	-77.4 0.48 (1)	3.99	14-7	0 / 305	0.07 (1)
4-5	-2474 / 0	-77.4	-77.4 0.48 (1)	3.99	14-9	-360 / 0	0.43 (1)
5-6	-1921 / 0	-77.4	-77.4 0.46 (1)	4.41	13-9	-203 / 47	0.06 (1)
6-7	-1921 / 0	-77.4	-77.4 0.46 (1)	4.41	5-16	-783 / 0	0.53 (1)
7-8	-2474 / 0	-77.4	-77.4 0.48 (1)	3.99	18-5	0 / 305	0.07 (1)
8-9	-2474 / 0	-77.4	-77.4 0.48 (1)	3.99	3-18	-360 / 0	0.43 (1)
9-10	-2790 / 0	-77.4	-77.4 0.61 (1)	3.66	19-3	-203 / 47	0.06 (1)
10-11	0 / 23	-77.4	-77.4 0.10 (1)	10.00	2-19	0 / 2535	0.57 (1)
20-2	-1897 / 0	0.0	0.0 0.19 (1)	6.10	13-10	0 / 2535	0.57 (1)
12-10	-1897 / 0	0.0	0.0 0.19 (1)	6.10			
20-19	0 / 0	-17.5	-17.5 0.17 (4)	10.00			
19-18	0 / 2514	-17.5	-17.5 0.48 (1)	10.00			
18-17	0 / 2212	-17.5	-17.5 0.44 (1)	10.00			
17-16	0 / 2212	-17.5	-17.5 0.44 (1)	10.00			
16-15	0 / 2212	-17.5	-17.5 0.44 (1)	10.00			
15-14	0 / 2212	-17.5	-17.5 0.44 (1)	10.00			
14-13	0 / 2514	-17.5	-17.5 0.48 (1)	10.00			
13-12	0 / 0	-17.5	-17.5 0.17 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN./C/C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.29")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.16")
ALLOWABLE DEFL.(TL)= L/360 (1.29")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.30")

CSI: TC=0.61 (2-3:1) , BC=0.48 (18-19:1) , WB=0.57 (2-19:1) , SSI=0.21 (9-10:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

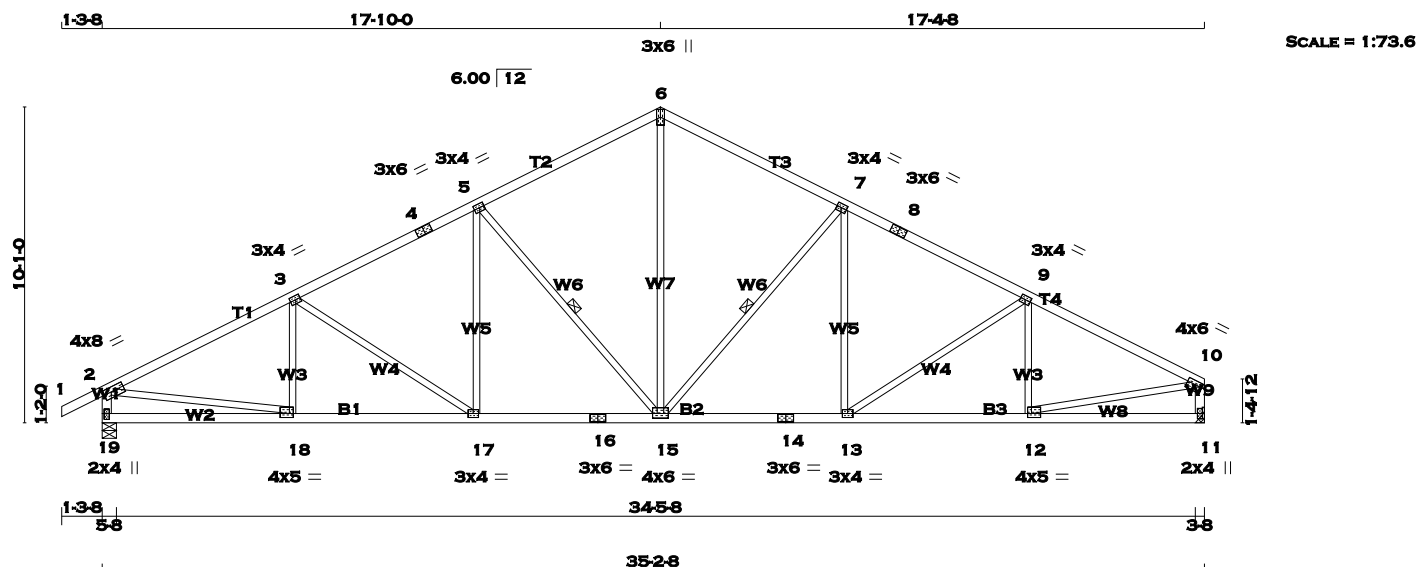
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (6) (INPUT = 0.90)
JSI METAL= 0.63 (13) (INPUT = 1.00)

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IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 14 X 147 = 2063 lb

LUMBER		N. L. G. A. RULES		LUMBER	DESCR.	
CHORDS	SIZE					
1 - 4	2x4	DRY	No.2	SPF	SPF	
4 - 6	2x4	DRY	No.2			
6 - 8	2x4	DRY	No.2			
8 - 10	2x4	DRY	No.2			
19- 2	2x4	DRY	No.2			
11- 10	2x4	DRY	No.2			
19- 16	2x4	DRY	No.2			
16- 14	2x4	DRY	No.2			
14- 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	8.0	1.75	3.00
3, 5, 7, 9						
3	TMVW-t	MT20	3.0	4.0	1.50	1.75
4	TS-t	MT20	3.0	6.0		
6	TTW+p	MT20	3.0	6.0		
8	TS-t	MT20	3.0	6.0		
10	TMVW-t	MT20	4.0	6.0	1.50	2.75
11	BMV1+p	MT20	2.0	4.0		
12	BMVW-t	MT20	4.0	5.0	1.50	1.50
13	BMVW-t	MT20	3.0	4.0		
14	BS-t	MT20	3.0	6.0		
15	BMVW-t	MT20	4.0	6.0	1.75	3.00
16	BS-t	MT20	3.0	6.0		
17	BMVW-t	MT20	3.0	4.0		
18	BMVW-t	MT20	4.0	5.0	1.50	1.50
19	BMV1+p	MT20	2.0	4.0	2.25	1.00

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

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

FACTORED			MAXIMUM FACTORED			INPUT	REQRD
GROSS REACTION			GROSS REACTION			BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
19	1775	0	1775	0	0	5-8	5-8
11	1670	0	1670	0	0	HANGER BY OTHERS	
MIN. SEAT SIZE: 3-8							

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
19	1243	883 / 0	0 / 0	0 / 0	0 / 0	360 / 0	0 / 0
11	1172	820 / 0	0 / 0	0 / 0	0 / 0	352 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.98 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.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-15, 7-15. DBS = 20-0-0 . CBF = 89 LBS.

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

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

LOADING
TOTAL LOAD CASES: (4)

C H O R D S		FACTORED		W E B S		FACTORED	
MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (CSI (LC)	MAX. UNBRAC LENGTH FR-TO	MEMB.	MAX. FORCE (LBS)	MAX (CSI (LC)
FR-TO		FROM TO			FR-TO		
1-2	0 / 23	-77.4 -77.4	0.10 (1)	10.00	18-3	-202 / 39	0.05 (1)
2-3	-2477 / 0	-77.4 -77.4	0.47 (1)	3.98	3-17	-313 / 0	0.30 (1)
3-4	-2205 / 0	-77.4 -77.4	0.38 (1)	4.28	17-5	0 / 273	0.06 (1)
4-5	-2205 / 0	-77.4 -77.4	0.38 (1)	4.28	5-15	-710 / 0	0.40 (1)
5-6	-1707 / 0	-77.4 -77.4	0.37 (1)	4.74	15-6	0 / 1143	0.26 (1)
6-7	-1707 / 0	-77.4 -77.4	0.37 (1)	4.73	15-7	-655 / 0	0.37 (1)
7-8	-2162 / 0	-77.4 -77.4	0.38 (1)	4.31	13-7	0 / 206	0.05 (4)
8-9	-2162 / 0	-77.4 -77.4	0.38 (1)	4.31	13-9	-190 / 0	0.18 (1)
9-10	-2322 / 0	-77.4 -77.4	0.38 (1)	4.17	12-9	-297 / 6	0.08 (1)
19-2	-1729 / 0	0.0	0.0 0.17 (1)	6.33	2-18	0 / 2255	0.51 (1)
11-10	-1628 / 0	0.0	0.0 0.17 (1)	6.48	12-10	0 / 2132	0.48 (1)

19-18	0 / 0	-17.5	-17.5	0.14 (4)	10.00
18-17	0 / 2233	-17.5	-17.5	0.42 (1)	10.00
17-16	0 / 1972	-17.5	-17.5	0.39 (1)	10.00
16-15	0 / 1972	-17.5	-17.5	0.39 (1)	10.00
15-14	0 / 1936	-17.5	-17.5	0.38 (1)	10.00
14-13	0 / 1936	-17.5	-17.5	0.38 (1)	10.00
13-12	0 / 2094	-17.5	-17.5	0.39 (1)	10.00
12-11	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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.17")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.13")
ALLOWABLE DEFL.(TL)= L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.24")

CSI: TC=0.47 (2-3:1) , BC=0.42 (17-18:1) , WB=0.51 (2-18:1) , SSI=0.19 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) 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.

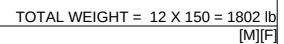
JSI GRIP= 0.88 (10) (INPUT = 0.90)
JSI METAL= 0.67 (18) (INPUT = 1.00)



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DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C

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

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 20, 12

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.95 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 7-16, 5-16. DBS = 20-0-0 . CBF = 88 LBS.

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS	WEBS
--------	------

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 / 23	-77.4	-77.4 0.10 (1)	10.00	16- 6	0 / 1182	0.27 (1)
2- 3	-2515 / 0	-77.4	-77.4 0.47 (1)	3.95	16- 7	-708 / 0	0.40 (1)
3- 4	-2248 / 0	-77.4	-77.4 0.38 (1)	4.24	14- 7	0 / 270	0.06 (1)
4- 5	-2248 / 0	-77.4	-77.4 0.38 (1)	4.24	14- 9	-308 / 0	0.29 (1)
5- 6	-1751 / 0	-77.4	-77.4 0.37 (1)	4.68	13- 9	-207 / 37	0.06 (1)
6- 7	-1751 / 0	-77.4	-77.4 0.37 (1)	4.68	5-16	-708 / 0	0.40 (1)
7- 8	-2248 / 0	-77.4	-77.4 0.38 (1)	4.24	18- 5	0 / 270	0.06 (1)
8- 9	-2248 / 0	-77.4	-77.4 0.38 (1)	4.24	3-18	-308 / 0	0.29 (1)
9-10	-2515 / 0	-77.4	-77.4 0.47 (1)	3.95	19- 3	-207 / 37	0.06 (1)
10-11	0 / 23	-77.4	-77.4 0.10 (1)	10.00	2-19	0 / 2289	0.52 (1)
20- 2	-1751 / 0	0.0	0.0 0.18 (1)	6.30	13-10	0 / 2289	0.52 (1)
12-10	-1751 / 0	0.0	0.0 0.18 (1)	6.30			
20-19	0 / 0	-17.5	-17.5 0.12 (4)	10.00			
19-18	0 / 2267	-17.5	-17.5 0.41 (1)	10.00			
18-17	0 / 2010	-17.5	-17.5 0.40 (1)	10.00			
17-16	0 / 2010	-17.5	-17.5 0.40 (1)	10.00			
16-15	0 / 2010	-17.5	-17.5 0.40 (1)	10.00			
15-14	0 / 2010	-17.5	-17.5 0.40 (1)	10.00			
14-13	0 / 2267	-17.5	-17.5 0.42 (1)	10.00			
13-12	0 / 0	-17.5	-17.5 0.14 (4)	10.00			



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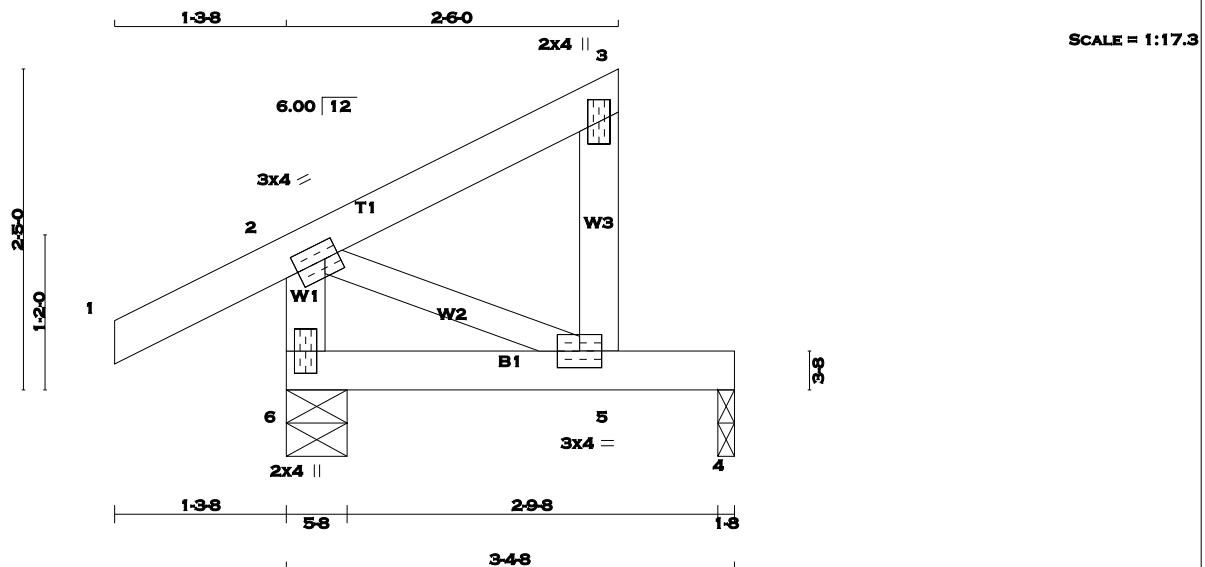




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JSI GRIP= 0.17 (2) (INPUT = 0.90)
JSI METAL= 0.05 (2) (INPUT = 1.00)





TOTAL WEIGHT = 6 X 13 = 80 Lb [M]

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

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

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

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

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX/MIN. SNOW	MAX/MIN. LIVE	MAX/MIN. PERM. LIVE	WIND	DEAD	SOIL
6	178	137 / 0	0 / 0	0 / 0	0 / 0	41 / 0	0 / 0
4	72	43 / 0	0 / 0	0 / 0	0 / 0	29 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

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 / 23	-77.4 -77.4	0.10 (1)	2-5	0 / 0	0.00 (1)	
2-3	0 / 0	-77.4 -77.4	0.08 (1)				
5-3	-97 / 0	0.0 0.0	0.01 (1)				
6-2	-202 / 0	0.0 0.0	0.02 (1)				
6-5	0 / 0	-17.5 -17.5	0.11 (1)				
5-4	0 / 0	-17.5 -17.5	0.11 (1)				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C/C

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

THIS DESIGN COMPLIES WITH:

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

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

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

CSI: TC=0.10 (1-2:1) , BC=0.11 (5-6:1) , WB=0.00 (2-5:1) , SSI=0.08 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

PLATE	GRIP(DRY)	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.

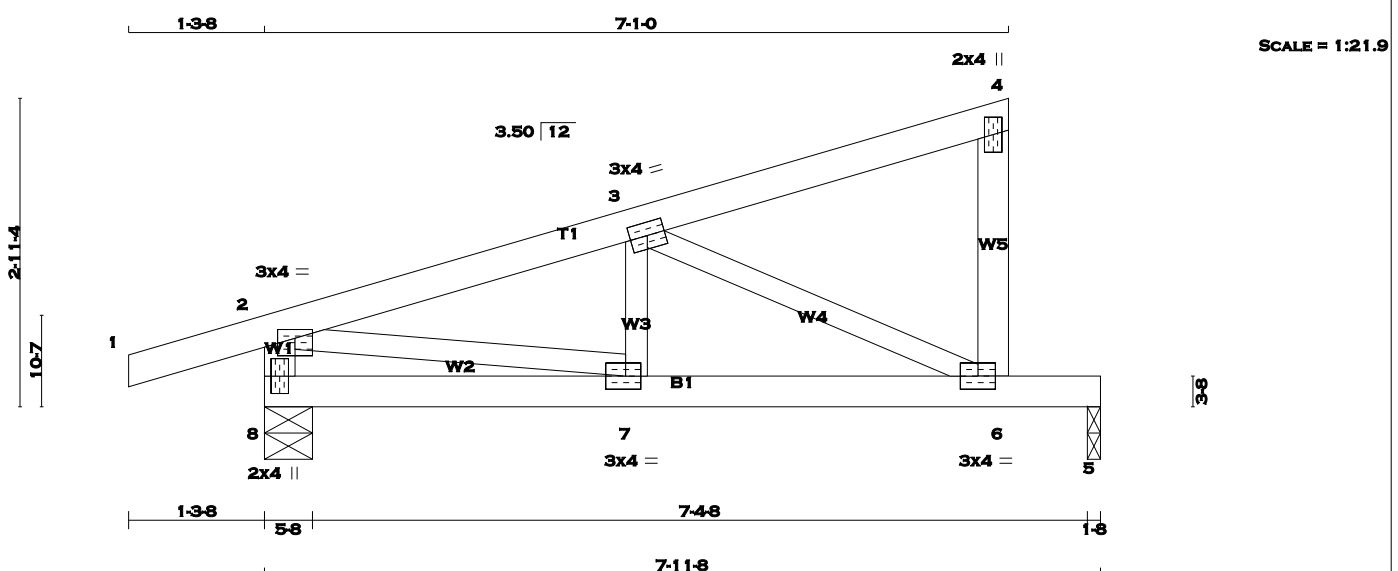
JSI GRIP= 0.18 (2) (INPUT = 0.90)
JSI METAL= 0.04 (6) (INPUT = 1.00)



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TOTAL WEIGHT = 16 X 29 = 458 lb
[M][F]

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

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

A SIZE FOR SIZE SUBSTITUTION OF 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	GROSS REACTION	VERT	HORZ	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
8	477	0	477	0	0	5-8	5-8		
5	313	0	313	0	0	1-8	1-8		

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX/MIN.	COMPONENT	REACTIONS			
8	332	245 / 0	0 / 0	PERM.LIVE	WIND	DEAD	SOIL
5	221	147 / 0	0 / 0	0 / 0	0 / 0	75 / 0	0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	FR-TO
FR-TO		FROM TO		FR-TO			
1-2	0 / 14	-77.4 -77.4	0.10 (1)	10.00	7-3	0 / 91	0.03 (4)
2-3	-579 / 0	-77.4 -77.4	0.11 (1)	6.25	3-6	-619 / 0	0.15 (1)
3-4	-8 / 0	-77.4 -77.4	0.11 (1)	10.00	2-7	0 / 571	0.13 (1)
6-4	-108 / 0	0.0 0.0	0.02 (1)	7.81			
8-2	-467 / 0	0.0 0.0	0.05 (1)	7.81			
8-7	0 / 0	-17.5 -17.5	0.10 (1)	10.00			
7-6	0 / 564	-17.5 -17.5	0.45 (1)	10.00			
6-5	0 / 0	-17.5 -17.5	0.36 (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 (0.27")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.27")
CALCULATED VERT. DEFL.(TL) = L/ 973 (0.10")

CSI: TC=0.11 (2-3:1) , BC=0.45 (6-7:1) , WB=0.15 (3-6:1) , SSI=0.24 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

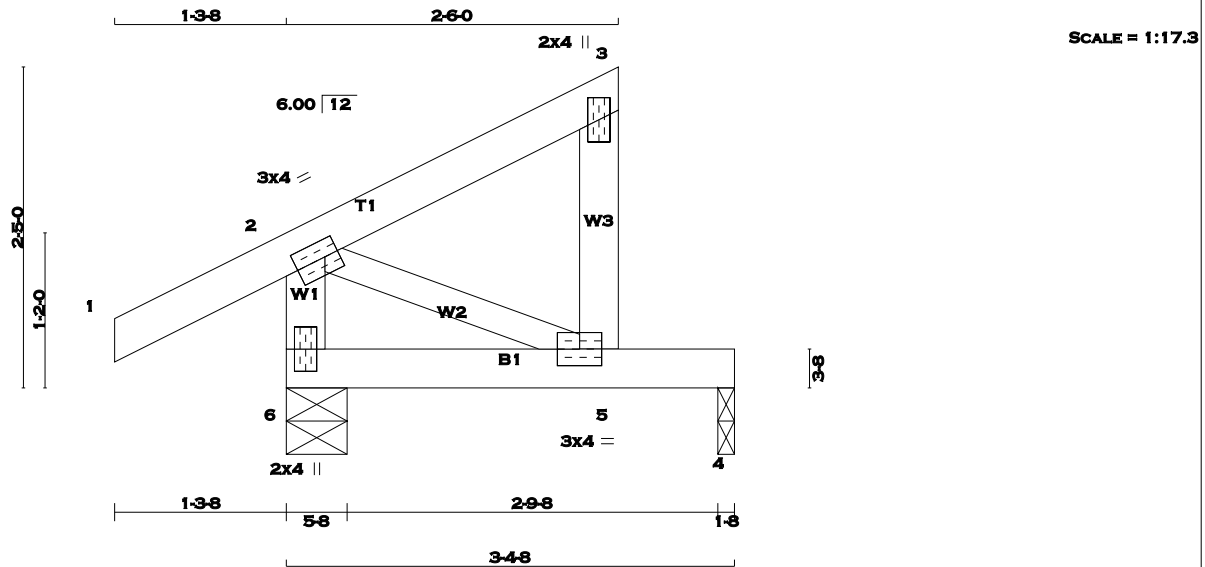
JSI GRIP= 0.85 (6) (INPUT = 0.90)
JSI METAL= 0.21 (2) (INPUT = 1.00)



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TOTAL WEIGHT = 7 X 13 = 93 lb [M]

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

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

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

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

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX/MIN. SNOW	MAX/MIN. LIVE	MAX/MIN. PERM. LIVE	WIND	DEAD	SOIL
6	178	137 / 0	0 / 0	0 / 0	0 / 0	41 / 0	0 / 0
4	72	43 / 0	0 / 0	0 / 0	0 / 0	29 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

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 / 23	-77.4 -77.4	0.10 (1)	2-5	0 / 0	0.00 (1)	
2-3	0 / 0	-77.4 -77.4	0.08 (1)				
5-3	-97 / 0	0.0 0.0	0.01 (1)				
6-2	-202 / 0	0.0 0.0	0.02 (1)				
6-5	0 / 0	-17.5 -17.5	0.11 (1)				
5-4	0 / 0	-17.5 -17.5	0.11 (1)				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN./C/C

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

THIS DESIGN COMPLIES WITH:

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

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

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

CSI: TC=0.10 (1-2:1) , BC=0.11 (5-6:1) , WB=0.00 (2-5:1) , SSI=0.08 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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



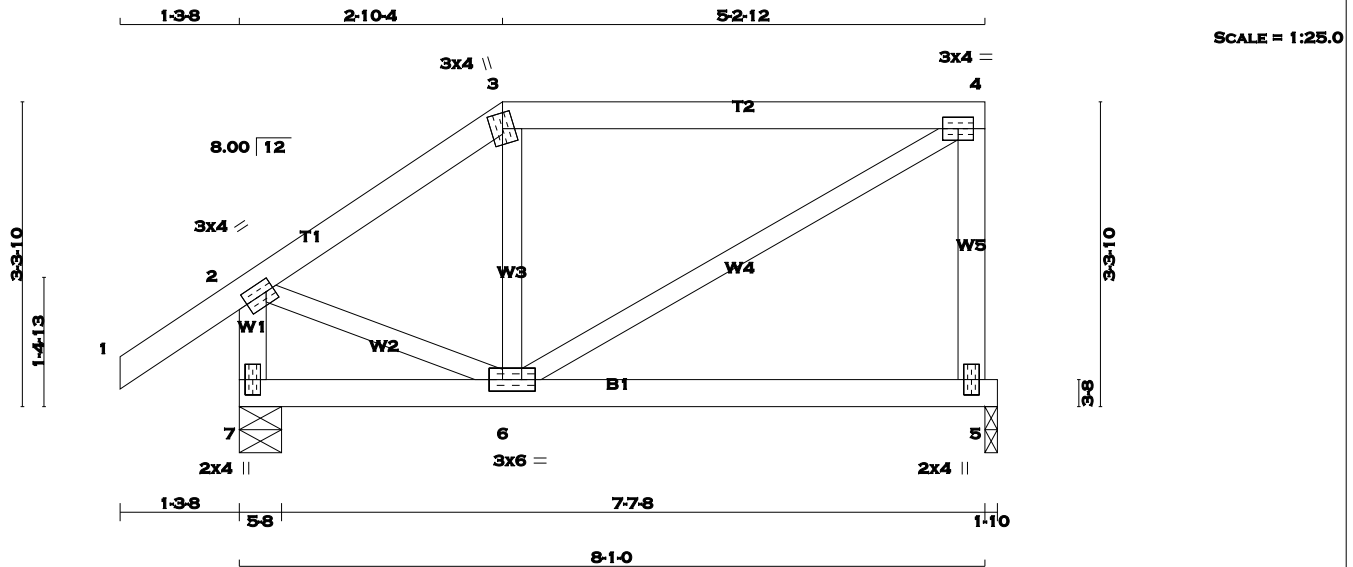
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TOTAL WEIGHT = 2 X 34 = 69 lb [M]

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	2x4	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-t	MT20	3.0	4.0	1.50	1.00
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		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
5		383	0	383	0	0	1-10	1-10	
7		490	0	490	0	0	5-8	5-8	

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	269	188 / 0	0 / 0	0 / 0	0 / 0	81 / 0	0 / 0
7	341	252 / 0	0 / 0	0 / 0	0 / 0	89 / 0	0 / 0

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

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

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

LOADING				TOTAL LOAD CASES: (4)			
CHORDS		MEMB.		WEBS		MEMB.	
MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FORCE (LBS)	MAX. VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FORCE (LBS)	MAX. VERT. LOAD (PLF)
FR-TO	FROM TO	FR-TO	FROM TO	FR-TO	FROM TO	FR-TO	FROM TO
1-2	0 / 29	-77.4	-77.4 0.10 (1)	10.00	6-3	-145 / 23	0.03 (1)
2-3	-302 / 0	-77.4	-77.4 0.11 (1)	6.25	6-4	0 / 285	0.06 (1)
3-4	-245 / 0	-77.4	-77.4 0.37 (1)	6.25	2-6	0 / 267	0.06 (1)
5-4	-346 / 0	0.0	0.0 0.06 (1)	7.81			
7-2	-476 / 0	0.0	0.0 0.05 (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

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 (0.02")

CSI: TC=0.37 (3-4:1), BC=0.10 (6-7:4), WB=0.06 (4-6:1), SSI=0.16 (3-4:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

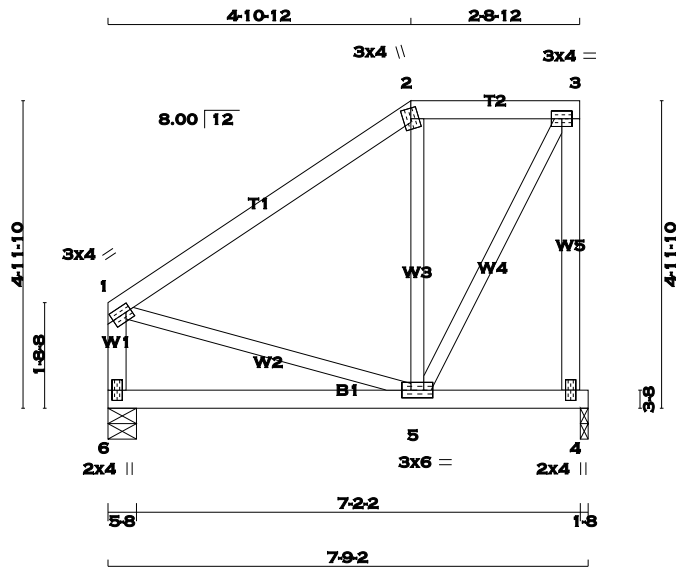
JSI GRIP= 0.87 (2) (INPUT = 0.90)
JSI METAL= 0.16 (2) (INPUT = 1.00)



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SCALE = 1:37.2

TOTAL WEIGHT = 37 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
4 - 3	2x4	DRY	No.2		SPF
6 - 1	2x4	DRY	No.2		SPF
6 - 4	2x4	DRY	No.2		SPF

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	3.0	4.0	1.50	1.00
2	TTW+m	MT20	3.0	4.0		
3	TMVW-t	MT20	3.0	4.0		
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	UPLIFT	IN-SX	IN-SX	
4		362	0	362	0	0	1-8	1-8	
6		362	0	362	0	0	5-8	5-8	

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
4	254	178 / 0	0 / 0	0 / 0	0 / 0	76 / 0	0 / 0		
6	254	178 / 0	0 / 0	0 / 0	0 / 0	76 / 0	0 / 0		

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH FR-TO	FACTORED MAX CSI (LC)
FR-TO		FROM TO		FR-TO			
1-2	-172 / 0	-77.4 -77.4	0.24 (1)	6.25	5-2	-200 / 0	0.07 (1)
2-3	-139 / 0	-77.4 -77.4	0.07 (1)	6.25	5-3	0 / 284	0.06 (1)
4-3	-352 / 0	0.0 0.0	0.15 (1)	7.81	1-5	0 / 149	0.03 (1)
6-1	-325 / 0	0.0 0.0	0.03 (1)	7.81			
6-5	0 / 0	-17.5 -17.5	0.09 (4)	10.00			
5-4	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 (0.25")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.25")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.02")

CSI: TC=0.24 (1-2:1), BC=0.09 (4-5:4), WB=0.07 (2-5:1), SSI=0.12 (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.

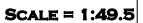
JSI GRIP= 0.60 (5) (INPUT = 0.90)
JSI METAL= 0.10 (1) (INPUT = 1.00)



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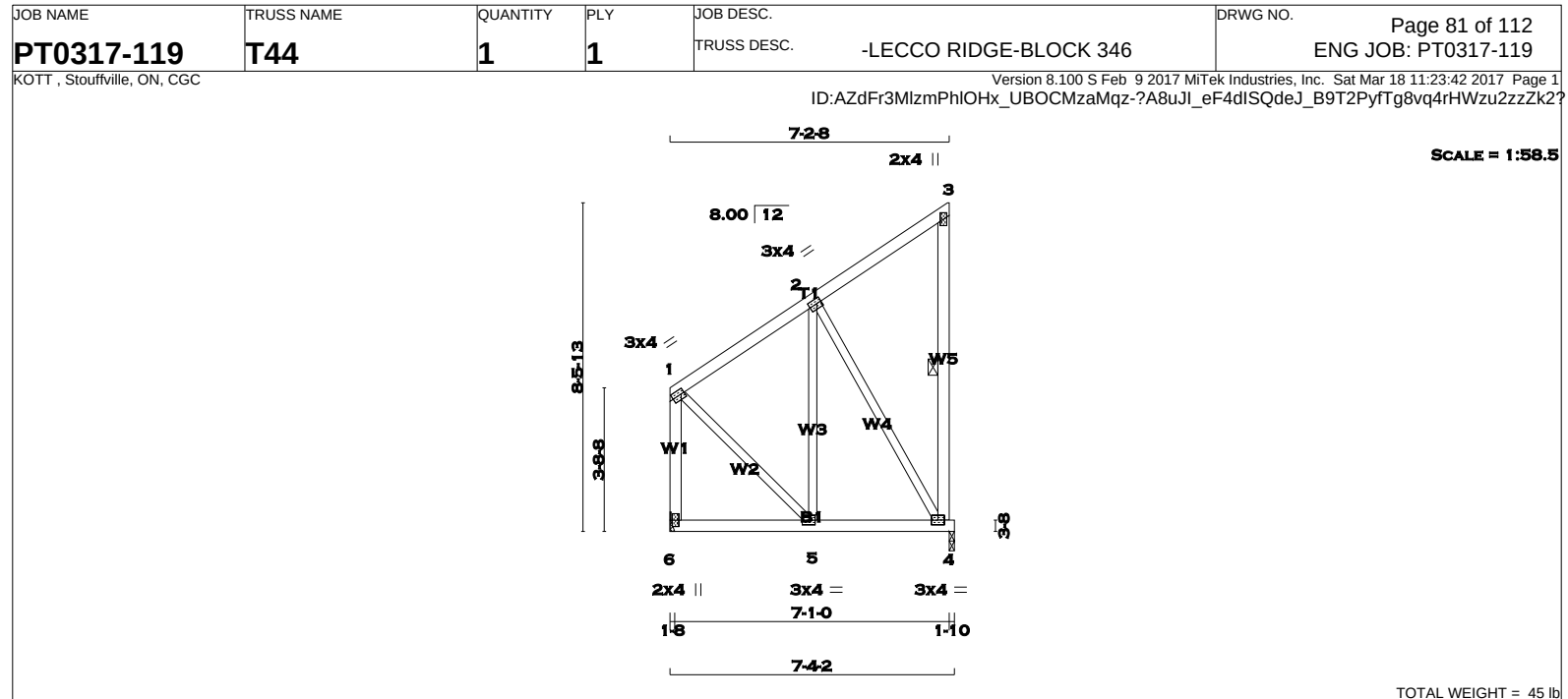
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TOTAL WEIGHT = 44 lb





LUMBER

N. L. G. A. RULES

CHORDS

SIZE

LUMBER

DESCR.

SPF

1 - 3

2x4

DRY

No.2

SPF

4 - 3

2x4

DRY

No.2

SPF

6 - 1

2x4

DRY

No.2

SPF

6 - 4

2x4

DRY

No.2

SPF

ALL WEBS EXCEPT

2x3

DRY

No.2

SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-t	MT20	3.0	4.0	1.50	1.00
2	TMVW-t	MT20	3.0	4.0	1.50	1.50
3	TMV+p	MT20	2.0	4.0		
4	BMVW1-t	MT20	3.0	4.0		
5	BMVW-t	MT20	3.0	4.0		
6	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX
4	342	0	342	0	1-10	1-10
6	342	0	342	0	0	HANGER BY OTHERS
						MIN. SEAT SIZE: 1-8

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
4	240	168 / 0	0 / 0	0 / 0	0 / 0	72 / 0	0 / 0
6	240	168 / 0	0 / 0	0 / 0	0 / 0	72 / 0	0 / 0

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 3-4. DBS = 20-0-0 . CBF = 13 LBS.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO			FR-TO			FR-TO	
1-2	-138 / 0	-77.4 -77.4	0.13 (1)	6.25	5-2	-43 / 52	0.03 (1)		
2-3	-19 / 0	-77.4 -77.4	0.13 (1)	6.25	2-4	-253 / 0	0.21 (1)		
4-3	-101 / 0	0.0 0.0	0.03 (1)	6.25	1-5	0 / 177	0.04 (1)		
6-1	-316 / 0	0.0 0.0	0.07 (1)	7.81					
6-5	0 / 0	-17.5 -17.5	0.06 (4)	10.00					
5-4	0 / 131	-17.5 -17.5	0.07 (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 (0.24")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.24")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.13 (1-2:1) , BC=0.07 (4-5:4) , WB=0.21 (2-4:1) , SSI=0.11 (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.

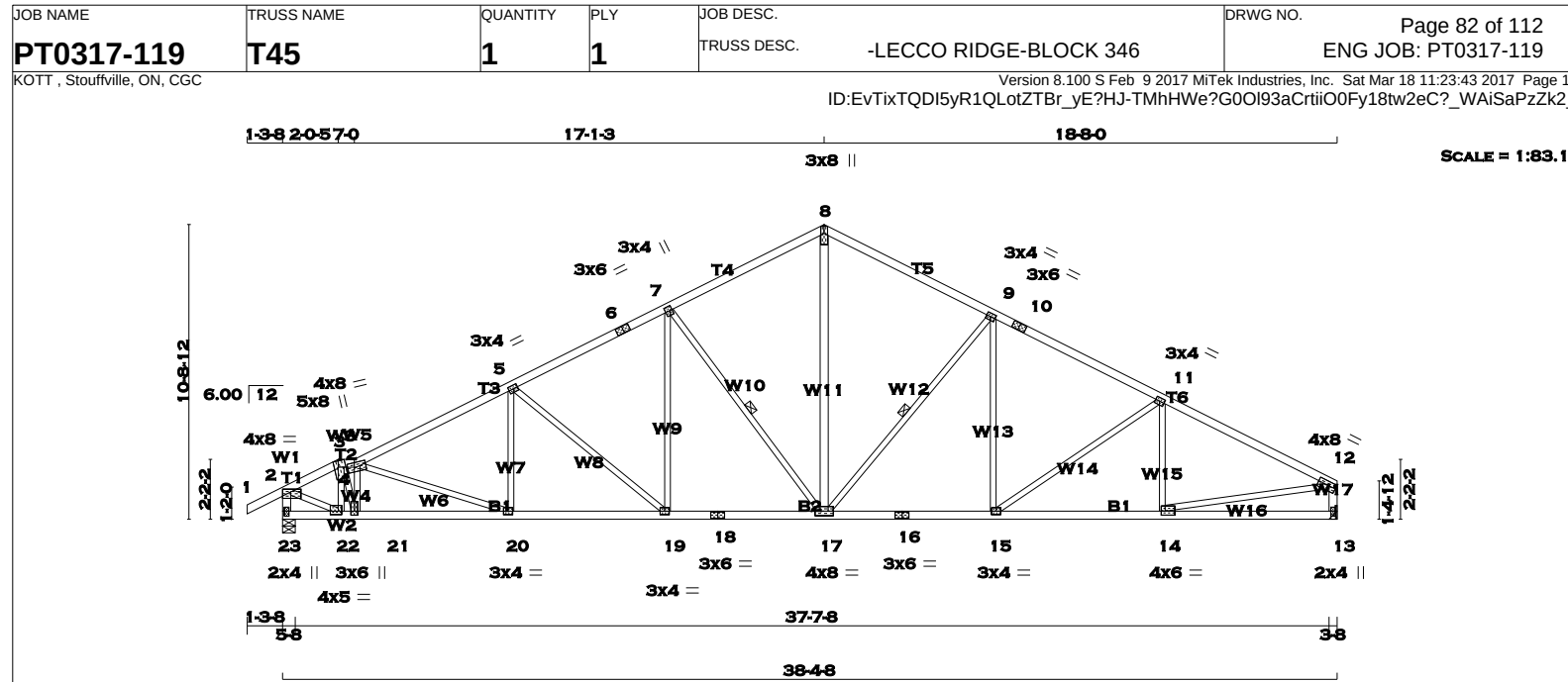
JSI GRIP= 0.56 (1) (INPUT = 0.90)
JSI METAL= 0.08 (1) (INPUT = 1.00)



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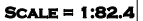


LUMBER N. L. G. A. RULES CHORDS SIZE 1 - 3 2x4 DRY No.2 SPF 3 - 4 2x4 DRY No.2 SPF 4 - 6 2x4 DRY No.2 SPF 6 - 8 2x4 DRY No.2 SPF 8 - 10 2x4 DRY No.2 SPF 10 - 12 2x4 DRY No.2 SPF 23 - 2 2x4 DRY No.2 SPF 13 - 12 2x4 DRY No.2 SPF 23 - 18 2x4 DRY No.2 SPF 18 - 16 2x4 DRY No.2 SPF 16 - 13 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT 17 - 8 2x4 DRY No.2 SPF DRY: SEASONED LUMBER.				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED GROSS REACTION JT VERT HORZ 23 1925 0 13 1820 0 MAXIMUM FACTORED GROSS REACTION DOWN HORZ 1925 0 1820 0 INPUT 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 23 1349 957 / 0 0 / 0 0 / 0 0 / 0 392 / 0 0 / 0 13 1277 894 / 0 0 / 0 0 / 0 0 / 0 384 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 23 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.77 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-17. DBS = 18-0-0. CBF = 93 LBS. 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 9-17. DBS = 20-0-0. CBF = 88 LBS. DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"x3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12. END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW LOADING TOTAL LOAD CASES: (4) CHORDS MEMB. MAX. FACTORED FORCE (LBS) FACTORED VERT. LOAD (PLF) MAX. CSI (LC) UNBRAC LENGTH FR-TO 1-2 0 / 23 -77.4 -77.4 0.10 (1) 10.00 2-3 -2149 / 0 -77.4 -77.4 0.09 (1) 4.59 3-4 -2433 / 0 -77.4 -77.4 0.06 (1) 4.39 4-5 -2854 / 0 -77.4 -77.4 0.45 (1) 3.77 5-6 -2431 / 0 -77.4 -77.4 0.37 (1) 4.11 6-7 -2431 / 0 -77.4 -77.4 0.37 (1) 4.11 7-8 -1898 / 0 -77.4 -77.4 0.36 (1) 4.55 8-9 -1899 / 0 -77.4 -77.4 0.42 (1) 4.48 9-10 -2387 / 0 -77.4 -77.4 0.44 (1) 4.09 10-11 -2387 / 0 -77.4 -77.4 0.44 (1) 4.09 11-12 -2599 / 0 -77.4 -77.4 0.53 (1) 3.84 23-2 -1924 / 0 0.0 0.0 0.19 (1) 6.06 13-12 -1773 / 0 0.0 0.0 0.18 (1) 6.27 WEBS MEMB. MAX. FACTORED FORCE (LBS) MAX. CSI (LC) FR-TO 22-3 -635 / 0 0.10 (1) 21-4 -1559 / 0 0.24 (1) 4-20 0 / 236 0.05 (1) 20-5 0 / 102 0.04 (4) 5-19 -513 / 0 0.55 (1) 19-7 0 / 420 0.09 (1) 7-17 -823 / 0 0.52 (1) 17-8 0 / 1310 0.21 (1) 17-9 -708 / 0 0.46 (1) 15-9 0 / 248 0.06 (1) 15-11 -253 / 0 0.28 (1) 14-11 -282 / 19 0.09 (1) 2-22 0 / 2069 0.47 (1) 14-12 0 / 2377 0.53 (1) 3-21 0 / 1598 0.36 (1) 23-22 0 / 0 -17.5 -17.5 0.05 (1) 10.00 22-21 0 / 1884 -17.5 -17.5 0.35 (1) 10.00 21-20 0 / 2347 -17.5 -17.5 0.46 (1) 10.00 20-19 0 / 2570 -17.5 -17.5 0.48 (1) 10.00 19-18 0 / 2175 -17.5 -17.5 0.43 (1) 10.00 18-17 0 / 2175 -17.5 -17.5 0.43 (1) 10.00 17-16 0 / 2135 -17.5 -17.5 0.42 (1) 10.00 16-15 0 / 2135 -17.5 -17.5 0.42 (1) 10.00 15-14 0 / 2343 -17.5 -17.5 0.45 (1) 10.00 14-13 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 LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12 THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012, BCBC 2012, ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (1.28") CALCULATED VERT. DEFL.(LL) = L/999 (0.16") ALLOWABLE DEFL.(TL)= L/360 (1.28") CALCULATED VERT. DEFL.(TL) = L/999 (0.29") CSI: TC=0.53 (11-12:1), BC=0.48 (19-20:1), WB=0.55 (5-19:1), SSI=0.20 (11-12:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) 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= 0.60 (16) (INPUT = 1.00)			
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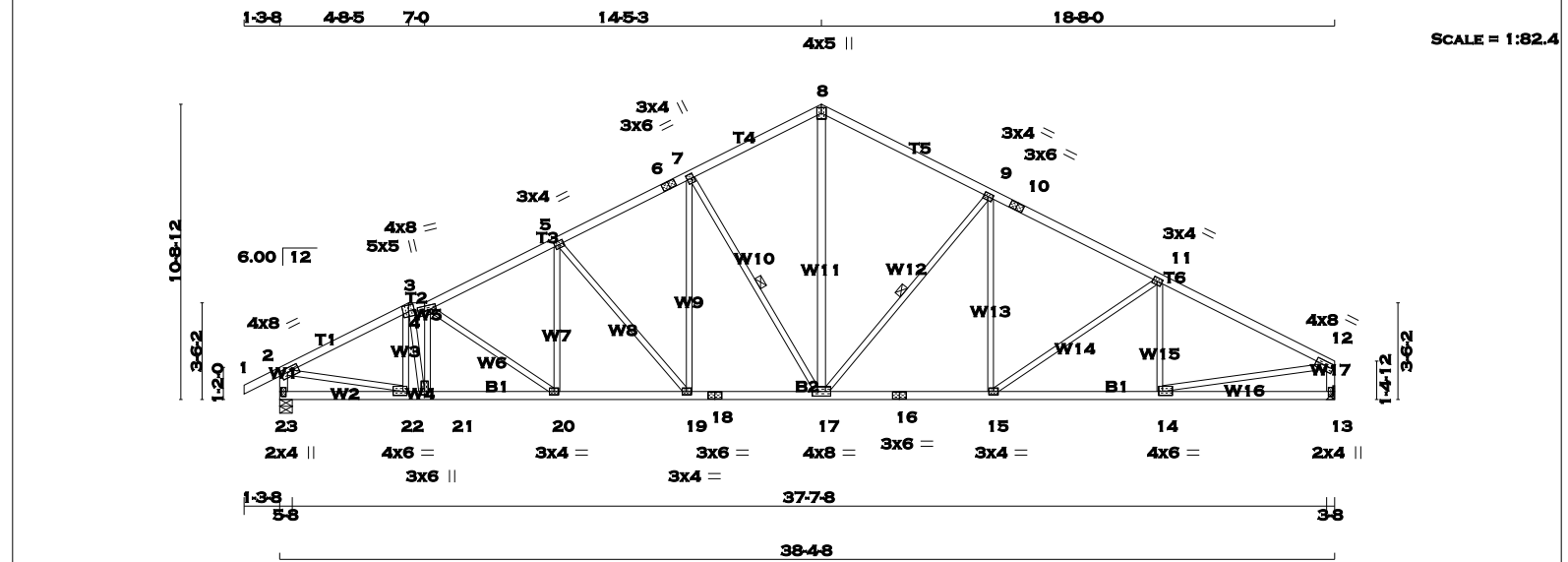
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IN THE DESIGN OF THIS COMPONENT.



[M][F]



KOTT



LUMBER

N. L. G. A. RULES

CHORDS SIZE

LUMBER

DESCR.

1 - 3

2x4

DRY

No.2

SPF

3 - 4

2x4

DRY

No.2

SPF

4 - 6

2x4

DRY

No.2

SPF

6 - 8

2x4

DRY

No.2

SPF

8 - 10

2x4

DRY

No.2

SPF

10 - 12

2x4

DRY

No.2

SPF

23 - 2

2x4

DRY

No.2

SPF

13 - 12

2x4

DRY

No.2

SPF

23 - 18

2x4

DRY

No.2

SPF

18 - 16

2x4

DRY

No.2

SPF

16 - 13

2x4

DRY

No.2

SPF

ALL WEBS

2x3

DRY

No.2

SPF

EXCEPT

17 - 8

2x4

DRY

No.2

SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE PLATES W LEN Y X

2 TMVW-t MT20 4.0 8.0 1.75 3.00

3 TTWW+m MT20 5.0 5.0

4 TTWW-m MT20 4.0 8.0 1.75 2.50

5, 9, 11

5 TMWW-t MT20 3.0 4.0 1.50 1.75

6 TS-t MT20 3.0 6.0

7 TMWW+t MT20 3.0 4.0 2.00 0.75

8 TTW+p MT20 4.0 5.0

10 TS-t MT20 3.0 6.0

12 TMVW-t MT20 4.0 8.0 1.75 Edge

13 BMV1+p MT20 2.0 4.0 2.25 1.00

14 BMWW-t MT20 4.0 6.0 1.75 1.75

15 BMWW-t MT20 3.0 4.0

16 BS-t MT20 3.0 6.0

17 BMWWW-t MT20 4.0 8.0

18 BS-t MT20 3.0 6.0

19 BMWW-t MT20 3.0 4.0 1.50 1.75

20 BMWW-t MT20 3.0 4.0

21 BMWW+t MT20 3.0 6.0 1.50 1.50

22 BMWW-t MT20 4.0 6.0 1.75 1.75

23 BMV1+p MT20 2.0 4.0 2.25 1.00

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

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

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

BEARINGS

FACTORED

GROSS REACTION

MAXIMUM FACTORED

GROSS REACTION

INPUT

REQRD

JT

VERT

HORZ

DOWN

HORZ

UPLIFT

IN-SX

IN-SX

23

1925

0

1925

0

0

5-8

5-8

13

1820

0

1820

0

0

HANGER BY OTHERS

MIN. SEAT SIZE: 3-8

UNFACTORED REACTIONS

1ST LCASE

MAX./MIN. COMPONENT REACTIONS

JT

COMBINED

SNOW

LIVE

PERM.LIVE

WIND

DEAD

SOIL

23

1349

957 / 0

0 / 0

0 / 0

0 / 0

392 / 0

0 / 0

13

1277

893 / 0

0 / 0

0 / 0

0 / 0

384 / 0

0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.85 FT.

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

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-17. DBS = 18-0-0. CBF = 90 LBS.

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 9-17. DBS = 20-0-0. CBF = 89 LBS.

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

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

LOADING

TOTAL LOAD CASES: (4)

C H O R D S

MEMB.

MAX. FACTORED

FORCE (LBS)

FACTORED

VERT. LOAD (PLF)

LC1

MAX

UNBRAC

LENGTH

FR-TO

FROM

TO

W E B S

MEMB.

MAX. FACTORED

FORCE (LBS)

MAX

UNBRAC

LENGTH

FR-TO

FROM

TO

1- 2

0 / 23

-77.3

-77.3

0.10

(1)

10.00

22- 3

-253 / 0

0.05

(1)

2- 3

-2613 / 0

-77.3

-77.3

0.32

(1)

4.02

21- 4

-1315 / 0

0.28

(1)

3- 4

-2532 / 0

-77.3

-77.3

0.07

(1)

4.31

4- 20

-143 / 0

0.08

(1)

4- 5

-2721 / 0

-77.3

-77.3

0.31

(1)

3.97

20- 5

0 / 183

0.05

(4)

5- 6

-2339 / 0

-77.3

-77.3

0.26

(1)

4.28

5- 19

-547 / 0

0.59

(1)

6- 7

-2339 / 0

-77.3

-77.3

0.26

(1)

4.28

19- 7

0 / 487

0.11

(1)

7- 8

-1894 / 0

-77.3

-77.3

0.25

(1)

4.67

7- 17

-802 / 0

0.49

(1)

8- 9

-1898 / 0

-77.3

-77.3

0.42

(1)

4.48

17- 8

0 / 1337

0.21

(1)

9- 10

-2387 / 0

-77.3

-77.3

0.44

(1)

4.09

17- 9

-708 / 0

0.46

(1)

10- 11

-2387 / 0

-77.3

-77.3

0.44

(1)

4.09

15- 9

0 / 249

0.06

(1)

11- 12

-2599 / 0

-77.3

-77.3

0.53

(1)

3.85

15- 11

-253 / 0

0.28

(1)

23- 2

-1895 / 0

0.0

0.0

0.19

(1)

6.10

14- 11

-282 / 19

0.09

(1)

13- 12

-1772 / 0

0.0

0.0

0.18

(1)

6.27

2- 22

0 / 2376

0.53

(1)

23- 22

0 / 0

-17.5

-17.5

0.09

(4)

10.00

3- 21

0 / 1235

0.28

(1)

22- 21

0 / 2343

-17.5

-17.5

0.44

(1)

10.00

21- 20

0 / 2567

-17.5

-17.5

0.49

(1)

10.00

20- 19

0 / 2449

-17.5

-17.5

0.45

(1)

10.00

19- 18

0 / 2093

-17.5

-17.5

0.41

(1)

10.00

18- 17

0 / 2093

-17.5

-17.5

0.41

(1)

10.00

17- 16

0 / 2134

-17.5

-17.5

0.42

(1)

10.00

16- 15

0 / 2134

-17.5

-17.5

0.42

(1)

10.00

15- 14

0 / 2342

-17.5

-17.5

0.45

(1)

10.00

14- 13

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 ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

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

THIS DESIGN COMPLIES WITH:

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

- CSA 086-09

- TPIC 2011

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

ALLOWABLE DEFL.(LL)= L/360 (1.28")

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

ALLOWABLE DEFL.(TL)= L/360 (1.28")

CALCULATED VERT. DEFL.(TL) = L/999 (0.29")

CSI: TC=0.53 (11-12:1), BC=0.49 (20-21:1) , WB=0.59 (5-19:1) , SSI=0.20 (11-12:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

PLATE GRIP(DRY) 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= 0.60 (16) (INPUT = 1.00)

LICENSED PROFESSIONAL ENGINEER

P. J. TREVISAN

100136551

March 17th, 2017

PROVINCE OF ONTARIO

RECEIVED

TOWN OF MILTON

MAR 29, 2017

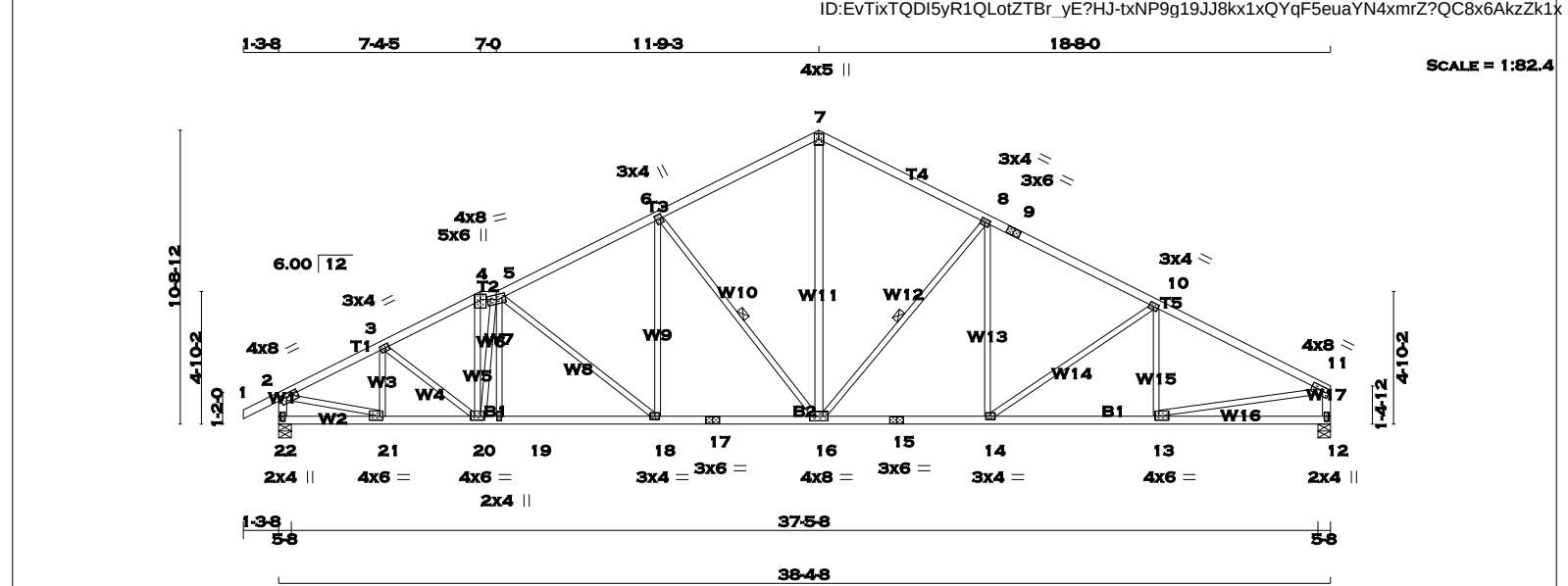
17-5403

BUILDING DIVISION

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

KOTT

CONTINUED ON PAGE 2



TOTAL WEIGHT = 173 lb
[M][F]

LUMBER				N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.	CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	1 - 4	2x4	DRY	No.2
4 - 5	2x4	DRY	No.2	4 - 5	2x4	DRY	No.2
5 - 7	2x4	DRY	No.2	5 - 7	2x4	DRY	No.2
7 - 9	2x4	DRY	No.2	7 - 9	2x4	DRY	No.2
9 - 11	2x4	DRY	No.2	9 - 11	2x4	DRY	No.2
22 - 2	2x4	DRY	No.2	22 - 2	2x4	DRY	No.2
12 - 11	2x4	DRY	No.2	12 - 11	2x4	DRY	No.2
22 - 17	2x4	DRY	No.2	22 - 17	2x4	DRY	No.2
17 - 15	2x4	DRY	No.2	17 - 15	2x4	DRY	No.2
15 - 12	2x4	DRY	No.2	15 - 12	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2	ALL WEBS EXCEPT	2x3	DRY	No.2
16 - 7	2x4	DRY	No.2	16 - 7	2x4	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)							
JT	TYPE	PLATES	W	LEN	Y	X	
2	TMVW-t	MT20	4.0	8.0	1.50	3.00	
3, 8, 10							
3	TMWW-t	MT20	3.0	4.0	1.50	1.75	
4	TTW+p	MT20	5.0	6.0	2.25	2.50	
5	TTWWW-m	MT20	4.0	8.0			
6	TMWW+t	MT20	3.0	4.0	2.00	0.75	
7	TTW+p	MT20	4.0	5.0			
9	TS-t	MT20	3.0	6.0			
11	TMVW-t	MT20	4.0	8.0	1.75	Edge	
12	BMV1+p	MT20	2.0	4.0	2.25	1.00	
13	BMWW-t	MT20	4.0	6.0	1.75	1.75	
14	BMWW-t	MT20	3.0	4.0			
15	BS-t	MT20	3.0	6.0			
16	BMWWW-t	MT20	4.0	8.0			
17	BS-t	MT20	3.0	6.0			
18	BMWW-t	MT20	3.0	4.0			
19	BMW+w	MT20	2.0	4.0			
20	BMWWW-t	MT20	4.0	6.0	1.75	3.00	
21	BMWW-t	MT20	4.0	6.0	1.75	1.50	
22	BMV1+p	MT20	2.0	4.0	2.25	1.00	

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

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



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

BEARINGS				FACTORED				MAXIMUM FACTORED				INPUT				REQRD			
JT	VERT	HORZ	DOWN	JT	VERT	HORZ	DOWN	JT	VERT	HORZ	DOWN	JT	VERT	HORZ	DOWN	JT	VERT	HORZ	DOWN
22	1925	0	1925	0	0	0	0	22	1925	0	1925	0	0	0	0	22	1925	0	1925
12	1820	0	1820	0	0	0	0	12	1820	0	1820	0	0	0	0	12	1820	0	1820

UNFACTORED REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
22	1349	957 / 0	0 / 0	0 / 0	0 / 0	392 / 0	0 / 0
12	1277	893 / 0	0 / 0	0 / 0	0 / 0	384 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 22, 12

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

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 6-16. DBS = 16-0-0. CBF = 84 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 8-16. DBS = 20-0-0. CBF = 88 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"x3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 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	21-3	-477 / 0	0.09 (1)
2-3	-2545 / 0	-77.3 -77.3	0.20 (1)	4.18	3-20	0 / 133	0.03 (1)
3-4	-2688 / 0	-77.3 -77.3	0.19 (1)	4.10	20-4	0 / 1067	0.24 (1)
4-5	-2366 / 0	-77.3 -77.3	0.06 (1)	4.44	20-5	-1042 / 0	0.36 (1)
5-6	-2436 / 0	-77.3 -77.3	0.46 (1)	4.00	19-5	-15 / 67	0.02 (4)
6-7	-1902 / 0	-77.3 -77.3	0.41 (1)	4.47	5-18	-404 / 0	0.43 (1)
7-8	-1898 / 0	-77.3 -77.3	0.42 (1)	4.48	18-6	0 / 357	0.08 (1)
8-9	-2387 / 0	-77.3 -77.3	0.44 (1)	4.09	6-16	-845 / 0	0.54 (1)
9-10	-2387 / 0	-77.3 -77.3	0.44 (1)	4.09	16-7	0 / 1315	0.21 (1)
10-11	-2599 / 0	-77.3 -77.3	0.53 (1)	3.85	16-8	-708 / 0	0.46 (1)
22-2	-1888 / 0	0.0 0.0	0.19 (1)	6.11	14-8	0 / 249	0.06 (1)
12-11	-1772 / 0	0.0 0.0	0.18 (1)	6.27	14-10	-253 / 0	0.28 (1)
					13-10	-282 / 19	0.09 (1)
					2-21	0 / 2344	0.53 (1)
					13-11	0 / 2376	0.53 (1)
22-21	0 / 0	-17.5 -17.5	0.06 (4)	10.00			
21-20	0 / 2286	-17.5 -17.5	0.43 (1)	10.00			
20-19	0 / 2522	-17.5 -17.5	0.47 (1)	10.00			
19-18	0 / 2522	-17.5 -17.5	0.48 (1)	10.00			
18-17	0 / 2202	-17.5 -17.5	0.43 (1)	10.00			
17-16	0 / 2202	-17.5 -17.5	0.43 (1)	10.00			
16-15	0 / 2134	-17.5 -17.5	0.42 (1)	10.00			
15-14	0 / 2134	-17.5 -17.5	0.42 (1)	10.00			
14-13	0 / 2342	-17.5 -17.5	0.45 (1)	10.00			
13-12	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

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.28")
CALCULATED VERT. DEFL.(LL) = L/999 (0.16")
ALLOWABLE DEFL.(TL)= L/360 (1.28")
CALCULATED VERT. DEFL.(TL) = L/999 (0.29")

CSI: TC=0.53 (10-11:1), BC=0.48 (18-19:1), WB=0.54 (6-16:1), SSI=0.20 (10-11:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

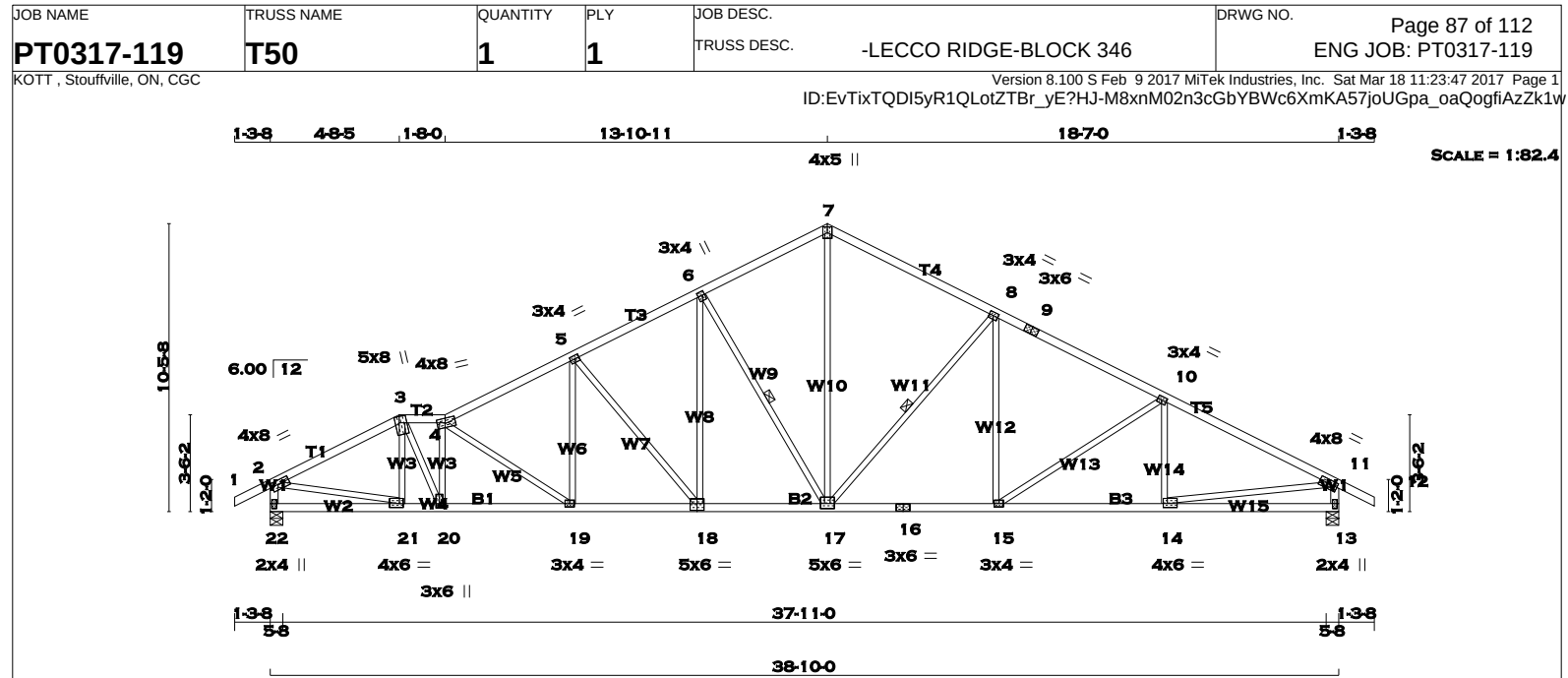
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

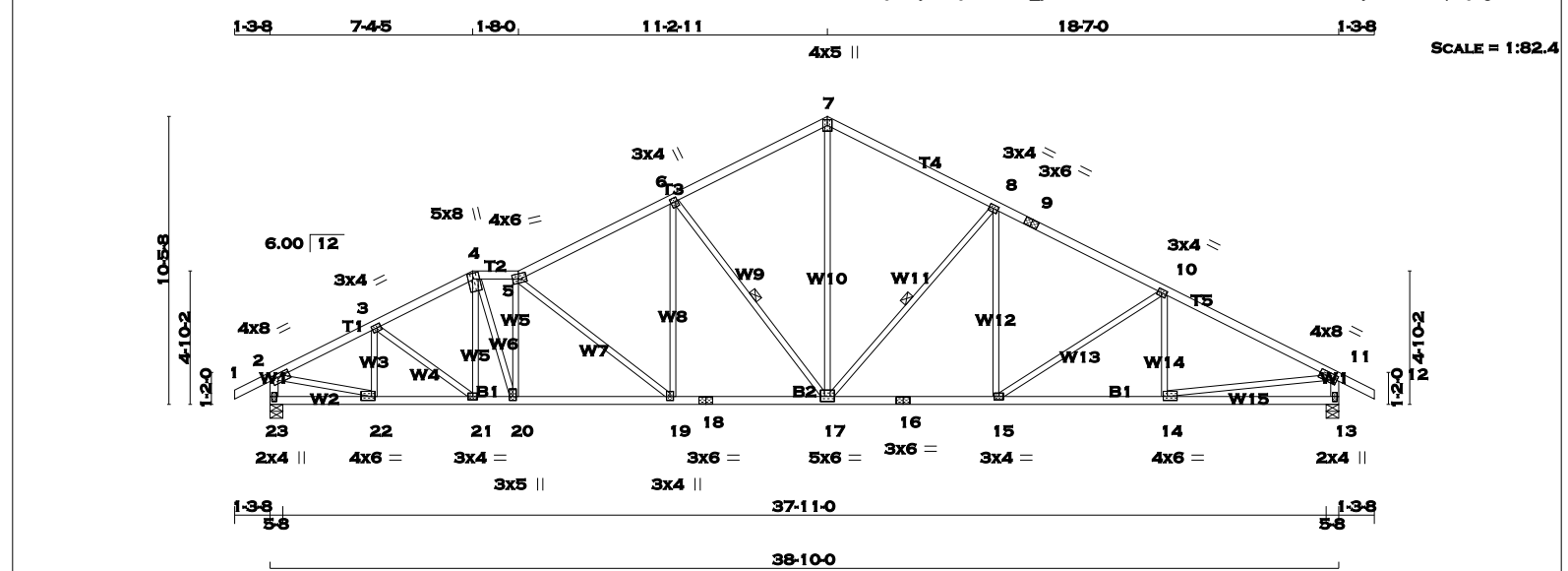
JSI GRIP= 0.90 (6) (INPUT = 0.90)
JSI METAL= 0.60 (15) (INPUT = 1.00)

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5403
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 - 3 2x4 DRY No.2 SPF 3 - 4 2x4 DRY No.2 SPF 4 - 7 2x4 DRY No.2 SPF 7 - 9 2x4 DRY No.2 SPF 9 - 12 2x4 DRY No.2 SPF 22- 2 2x4 DRY No.2 SPF 13- 11 2x4 DRY No.2 SPF 22- 18 2x4 DRY No.2 SPF 18- 16 2x4 DRY No.2 SPF 16- 13 2x4 DRY No.2 SPF ALL WEBS 2x3 DRY No.2 SPF EXCEPT DRY: SEASONED LUMBER.		DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT BRG REQRD BRG JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX 22 1947 0 1947 0 0 5-8 5-8 13 1947 0 1947 0 0 5-8 5-8 UNFACTORED REACTIONS 1ST LCASE MAX./MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL 22 1364 968 / 0 0 / 0 0 / 0 396 / 0 0 / 0 13 1364 968 / 0 0 / 0 0 / 0 396 / 0 0 / 0 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 22, 13 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.72 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED. ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED. 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 6-17. DBS = 16-0-0 . CBF = 89 LBS. 1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 8-17. DBS = 20-0-0. CBF = 92 LBS. DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"x3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12. END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW LOADING TOTAL LOAD CASES: (4) CHORDS MAX. FACTORED FORCE (LBS) FACTORED VERT. LOAD (PLF) LC1 MAX CSI (LC) MAX. UNBRACED LENGTH WEBS MAX. FACTORED FORCE (LBS) MAX CSI (LC) FR-TO FROM TO FR-TO 1-2 0 / 23 -77.4 -77.4 0.10 (1) 10.00 21- 3 -336 / 0 0.07 (1) 2-3 -2669 / 0 -77.4 -77.4 0.32 (1) 3.98 3-20 0 / 1432 0.32 (1) 3-4 -3001 / 0 -77.4 -77.4 0.12 (1) 3.96 20- 4 -1275 / 0 0.26 (1) 4-5 -2960 / 0 -77.4 -77.4 0.31 (1) 3.83 4-19 -461 / 0 0.25 (1) 5-6 -2478 / 0 -77.4 -77.4 0.25 (1) 4.19 19- 5 0 / 359 0.08 (1) 6-7 -1987 / 0 -77.4 -77.4 0.24 (1) 4.59 5-18 -695 / 0 0.69 (1) 7-8 -1992 / 0 -77.4 -77.4 0.42 (1) 4.39 18- 6 0 / 601 0.14 (1) 8-9 -2510 / 0 -77.4 -77.4 0.44 (1) 4.00 6-17 -889 / 0 0.51 (1) 9-10 -2510 / 0 -77.4 -77.4 0.44 (1) 4.00 17- 7 0 / 1426 0.32 (1) 10-11 -2784 / 0 -77.4 -77.4 0.55 (1) 3.72 17- 8 -735 / 0 0.45 (1) 11-12 0 / 23 -77.4 -77.4 0.10 (1) 10.00 15- 8 0 / 278 0.06 (1) 22- 2 -1910 / 0 0.0 0.0 0.19 (1) 6.08 15-10 -315 / 0 0.33 (1) 13-11 -1899 / 0 0.0 0.0 0.19 (1) 6.10 14-10 -223 / 36 0.06 (1) 22-21 0 / 0 -17.5 -17.5 0.08 (4) 10.00 2-21 0 / 2423 0.55 (1) 21-20 0 / 2375 -17.5 -17.5 0.42 (1) 10.00 14-11 0 / 2531 0.57 (1) 20-19 0 / 3042 -17.5 -17.5 0.55 (1) 10.00 19-18 0 / 2663 -17.5 -17.5 0.47 (1) 10.00 18-17 0 / 2216 -17.5 -17.5 0.43 (1) 10.00 17-16 0 / 2245 -17.5 -17.5 0.43 (1) 10.00 16-15 0 / 2245 -17.5 -17.5 0.43 (1) 10.00 15-14 0 / 2508 -17.5 -17.5 0.47 (1) 10.00 14-13 0 / 0 -17.5 -17.5 0.15 (4) 10.00		DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 23.3 PSF DL = 3.0 PSF BOT CH. LL = 0.0 PSF DL = 7.0 PSF TOTAL LOAD = 33.3 PSF SPACING = 24.0 IN. C/C LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.00/12 THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014 - CSA 086-09 - TPIC 2011 (55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL)= L/360 (1.29") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.20") ALLOWABLE DEFL.(TL)= L/360 (1.29") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.35") CSI: TC=0.55 (10-11:1) , BC=0.55 (19-20:1) , WB=0.69 (5-18:1) , SSI=0.20 (10-11:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10 COMPANION LIVE LOAD FACTOR = 0.50 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT . NAIL VALUES PLATE GRIP(DRY) 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= 0.63 (16) (INPUT = 1.00)	
LICENSED PROFESSIONAL ENGINEER P. J. TREVISAN 100136551 March 17th, 2017 PROVINCE OF ONTARIO		RECEIVED TOWN OF MILTON MAR 29, 2017 17-5403 BUILDING DIVISION READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTE PAGE ENP-1. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT. KOTT			



LUMBER

N. L. G. A. RULES

CHORDS

SIZE

LUMBER

DESCR.

DRY: SEASONED LUMBER.

TOTAL WEIGHT = 171 lb

[M][F]

CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2
4 - 5	2x4	DRY	No.2
5 - 7	2x4	DRY	No.2
7 - 9	2x4	DRY	No.2
9 - 12	2x4	DRY	No.2
23 - 2	2x4	DRY	No.2
13 - 11	2x4	DRY	No.2
23 - 18	2x4	DRY	No.2
18 - 16	2x4	DRY	No.2
16 - 13	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			

DRY: SEASONED LUMBER.

PLATES (table is in inches)	JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	8.0	1.50	3.00	
3, 8, 10							
3	TMWW-t	MT20	3.0	4.0	1.50	1.75	
4	TTWW+m	MT20	5.0	8.0	2.50	2.00	
5	TTWW-m	MT20	4.0	6.0	2.25	2.50	
6	TMWW+t	MT20	3.0	4.0	1.75	0.75	
7	TTW+p	MT20	4.0	5.0			
9	TS-t	MT20	3.0	6.0			
11	TMVW-t	MT20	4.0	8.0	1.75	3.00	
13	BMV1+p	MT20	2.0	4.0	2.25	1.00	
14	BMWW-t	MT20	4.0	6.0	1.75	1.75	
15	BMWW-t	MT20	3.0	4.0			
16	BS-t	MT20	3.0	6.0			
17	BMWWW-t	MT20	5.0	6.0	2.25	3.00	
18	BS-t	MT20	3.0	6.0			
19	BMWWW+t	MT20	3.0	4.0	1.75	1.50	
20	BMWWW+t	MT20	3.0	5.0	1.75	1.50	
21	BMWWW-t	MT20	3.0	4.0			
22	BMWWW-t	MT20	4.0	6.0	1.75	1.50	
23	BMV1+p	MT20	2.0	4.0	2.25	1.00	

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



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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
23	1947	0	1947	0
13	1947	0	1947	0

UNFACTORED REACTIONS	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
23	1364	968 / 0	0 / 0
13	1364	968 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 23, 13

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.72 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 6-17. DBS = 14-0-0. CBF = 82 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 8-17. DBS = 20-0-0. CBF = 92 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"x3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 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	MAX. FACTORED	FACTORED	VERT. LOAD	MAX	MAX.	MEMB.	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	CS1 (LC)	UNBRAC	MEMB.	FORCE (LBS)	MAX CS1 (LC)
FR-TO		FROM TO		LENGTH	FR-TO		
1-2	0 / 23	-77.4	-77.4	0.10 (1)	10.00	22-3	-474 / 0
2-3	-2582 / 0	-77.4	-77.4	0.20 (1)	4.16	3-21	0 / 130
3-4	-2725 / 0	-77.4	-77.4	0.19 (1)	4.06	21-4	-7 / 12
4-5	-2785 / 0	-77.4	-77.4	0.11 (1)	4.10	4-20	0 / 1110
5-6	-2583 / 0	-77.4	-77.4	0.43 (1)	3.93	20-5	-1008 / 0
6-7	-1995 / 0	-77.4	-77.4	0.38 (1)	4.43	5-19	-612 / 0
7-8	-1993 / 0	-77.4	-77.4	0.42 (1)	4.39	19-6	0 / 487
8-9	-2510 / 0	-77.4	-77.4	0.44 (1)	4.00	6-17	-936 / 0
9-10	-2510 / 0	-77.4	-77.4	0.44 (1)	4.00	17-7	0 / 1407
10-11	-2784 / 0	-77.4	-77.4	0.55 (1)	3.72	17-8	-735 / 0
11-12	0 / 23	-77.4	-77.4	0.10 (1)	10.00	15-8	0 / 278
23-2	-1911 / 0	0.0	0.0	0.19 (1)	6.08	15-10	-315 / 0
13-11	-1899 / 0	0.0	0.0	0.19 (1)	6.10	14-10	-223 / 36
						2-22	0 / 2379
						14-11	0 / 2531
23-22	0 / 0	-17.5	-17.5	0.05 (4)	10.00		
22-21	0 / 2320	-17.5	-17.5	0.41 (1)	10.00		
21-20	0 / 2424	-17.5	-17.5	0.43 (1)	10.00		
20-19	0 / 2808	-17.5	-17.5	0.52 (1)	10.00		
19-18	0 / 2332	-17.5	-17.5	0.45 (1)	10.00		
18-17	0 / 2332	-17.5	-17.5	0.45 (1)	10.00		
17-16	0 / 2245	-17.5	-17.5	0.44 (1)	10.00		
16-15	0 / 2245	-17.5	-17.5	0.44 (1)	10.00		
15-14	0 / 2508	-17.5	-17.5	0.47 (1)	10.00		
14-13	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 (1.29")
CALCULATED VERT. DEFL.(LL) = L/999 (0.18")
ALLOWABLE DEFL.(TL)= L/360 (1.29")
CALCULATED VERT. DEFL.(TL) = L/999 (0.33")

CSI: TC=0.55 (10-11:1), BC=0.52 (19-20:1), WB=0.63 (5-19:1), SSI=0.20 (10-11:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

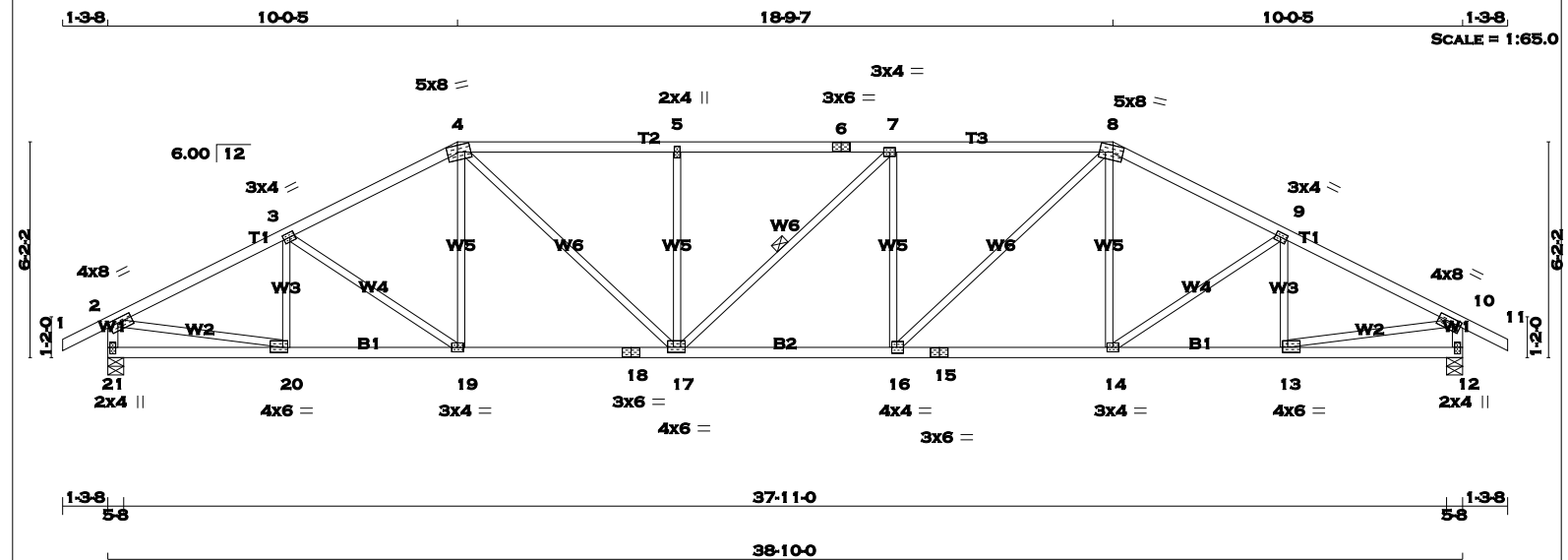
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (5) (INPUT = 0.90)
JSI METAL= 0.63 (14) (INPUT = 1.00)

RECEIVED
TOWN OF MILTON
MAR 29, 2017
17-5403
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 = 157 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 - 11	2x4	DRY	No.2
21 - 2	2x4	DRY	No.2
12 - 10	2x4	DRY	No.2
21 - 18	2x4	DRY	No.2
18 - 15	2x4	DRY	No.2
15 - 12	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMVW-t	MT20	4.0	8.0	1.50 3.00
3	TMWW-t	MT20	3.0	4.0	1.50 1.75
4	TTWW-m	MT20	5.0	8.0	2.25 3.50
5	TMW-w	MT20	2.0	4.0	
6	TS-t	MT20	3.0	6.0	
7	TMWW-t	MT20	3.0	4.0	
8	TTWW-m	MT20	5.0	8.0	2.25 3.50
9	TMWW-t	MT20	3.0	4.0	1.50 1.75
10	TMVW-t	MT20	4.0	8.0	1.50 3.00
12	BMV1+p	MT20	2.0	4.0	2.25 1.00
13	BMWW-t	MT20	4.0	6.0	1.75 1.75
14	BMWW-t	MT20	3.0	4.0	
15	BS-t	MT20	3.0	6.0	
16	BMWW-t	MT20	4.0	4.0	2.00 1.75
17	BMWW-t	MT20	4.0	6.0	1.75 2.00
18	BS-t	MT20	3.0	6.0	
19	BMWW-t	MT20	3.0	4.0	
20	BMWW-t	MT20	4.0	6.0	1.75 1.75
21	BMV1+p	MT20	2.0	4.0	2.25 1.00

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



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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
21	1947	0	1947	0	0	5-8	5-8
12	1947	0	1947	0	0	5-8	5-8

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX. SNOW	MIN. LIVE	PERM. LIVE	WIND	DEAD	SOIL
21	1364	968 / 0	0 / 0	0 / 0	0 / 0	396 / 0	0 / 0
12	1364	968 / 0	0 / 0	0 / 0	0 / 0	396 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.58 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-17. DBS = 20-0-0 . CBF = 0 LBS.

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

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

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 / 23	-77.4 -77.4	0.10 (1)	10.00	20-3	-329 / 0	0.07 (1)
2-3	-2734 / 0	-77.4 -77.4	0.35 (1)	3.92	3-19	-152 / 0	0.10 (1)
3-4	-2633 / 0	-77.4 -77.4	0.33 (1)	4.00	19-4	0 / 192	0.05 (4)
4-5	-3016 / 0	-77.4 -77.4	0.53 (1)	3.58	4-17	0 / 926	0.21 (1)
5-6	-3016 / 0	-77.4 -77.4	0.48 (1)	3.64	17-5	-524 / 0	0.32 (1)
6-7	-3016 / 0	-77.4 -77.4	0.48 (1)	3.64	17-7	-2 / 0	0.00 (1)
7-8	-3017 / 0	-77.4 -77.4	0.53 (1)	3.58	16-7	-525 / 0	0.32 (1)
8-9	-2633 / 0	-77.4 -77.4	0.33 (1)	4.00	16-8	0 / 928	0.21 (1)
9-10	-2734 / 0	-77.4 -77.4	0.35 (1)	3.92	14-8	0 / 192	0.04 (4)
10-11	0 / 23	-77.4 -77.4	0.10 (1)	10.00	14-9	-153 / 0	0.10 (1)
21-2	-1905 / 0	0.0 0.0	0.19 (1)	6.09	13-9	-329 / 0	0.07 (1)
12-10	-1905 / 0	0.0 0.0	0.19 (1)	6.09	2-20	0 / 2497	0.56 (1)
					13-10	0 / 2497	0.56 (1)
21-20	0 / 0	-17.5 -17.5	0.09 (4)	10.00			
20-19	0 / 2462	-17.5 -17.5	0.46 (1)	10.00			
19-18	0 / 2340	-17.5 -17.5	0.44 (1)	10.00			
18-17	0 / 2340	-17.5 -17.5	0.44 (1)	10.00			
17-16	0 / 3018	-17.5 -17.5	0.55 (1)	10.00			
16-15	0 / 2339	-17.5 -17.5	0.44 (1)	10.00			
15-14	0 / 2339	-17.5 -17.5	0.44 (1)	10.00			
14-13	0 / 2462	-17.5 -17.5	0.46 (1)	10.00			
13-12	0 / 0	-17.5 -17.5	0.09 (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 (1.29")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.21")
ALLOWABLE DEFL.(TL)= L/360 (1.29")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.38")

CSI: TC=0.53 (7-8:1) , BC=0.55 (16-17:1) , WB=0.56 (10-13:1) , SSI=0.23 (7-8:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

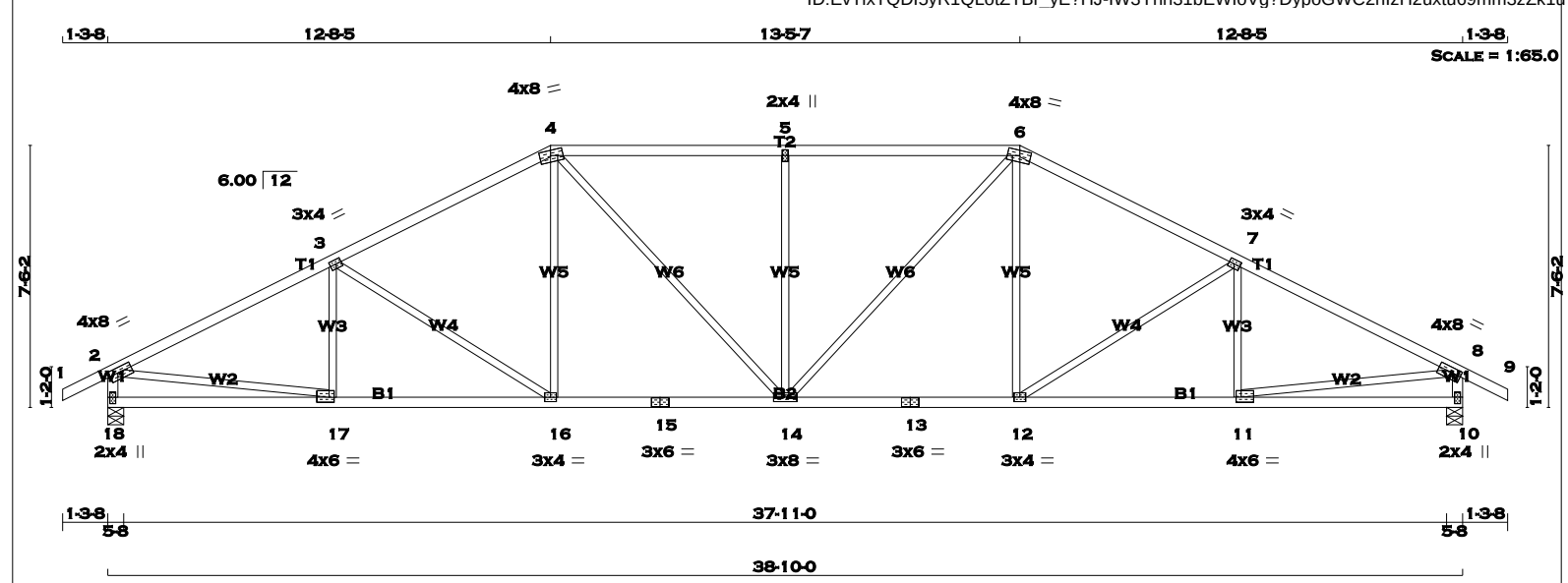
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (13) (INPUT = 0.90)
JSI METAL= 0.62 (13) (INPUT = 1.00)

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BUILDING DIVISION

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





TOTAL WEIGHT = 157 lb
[M][F]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 9	2x4	DRY	No.2	SPF
18 - 2	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF
18 - 15	2x4	DRY	No.2	SPF
15 - 13	2x4	DRY	No.2	SPF
13 - 10	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				
DRY: SEASONED LUMBER.				

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	X
3	TMVW-t	MT20	4.0	8.0	1.75 3.00
4	TMVW-t	MT20	3.0	4.0	1.50 1.75
4	TTWW-m	MT20	4.0	8.0	1.75 3.75
5	TMVW-w	MT20	2.0	4.0	
6	TTWW-m	MT20	4.0	8.0	1.75 3.75
7	TMVW-t	MT20	3.0	4.0	1.50 1.75
8	TMVW-t	MT20	4.0	8.0	1.75 3.00
10	BMV1+p	MT20	2.0	4.0	2.25 1.00
11	BMVW-t	MT20	4.0	6.0	1.75 1.75
12	BMVW-t	MT20	3.0	4.0	
13	BS-t	MT20	3.0	6.0	
14	BMVW-t	MT20	3.0	8.0	
15	BS-t	MT20	3.0	6.0	
16	BMVW-t	MT20	3.0	4.0	
17	BMVW-t	MT20	4.0	6.0	1.75 1.75
18	BMV1+p	MT20	2.0	4.0	2.25 1.00

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



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

BEARINGS					
FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	
JT	VERT	JT	HORZ	JT	IN-SX
18	1947	0	1947	0	5-8
10	1947	0	1947	0	5-8

UNFACTORED REACTIONS						
1ST LCASE		MAX./MIN. COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
18	1364	968 / 0	0 / 0	0 / 0	0 / 0	396 / 0
10	1364	968 / 0	0 / 0	0 / 0	0 / 0	396 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 18, 10

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.65 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.		MAX. FACTORED FORCE (LBS)		MEMB.		MAX. FACTORED FORCE (LBS)	
FR-TO		VERT. LOAD (PLF)		FR-TO		VERT. LOAD (PLF)	
1-2	0 / 23	-77.4	-77.4 0.10 (1)	10-0	17-3	-219 / 40	0.06 (1)
2-3	-2800 / 0	-77.4	-77.4 0.58 (1)	3-65	3-16	-405 / 0	0.46 (1)
3-4	-2472 / 0	-77.4	-77.4 0.52 (1)	3-91	16-4	0 / 336	0.08 (1)
4-5	-2543 / 0	-77.4	-77.4 0.58 (1)	3-75	4-14	0 / 515	0.12 (1)
5-6	-2543 / 0	-77.4	-77.4 0.58 (1)	3-75	14-5	-639 / 0	0.65 (1)
6-7	-2472 / 0	-77.4	-77.4 0.52 (1)	3-91	14-6	0 / 515	0.12 (1)
7-8	-2800 / 0	-77.4	-77.4 0.58 (1)	3-65	12-6	0 / 336	0.08 (1)
8-9	0 / 23	-77.4	-77.4 0.10 (1)	10-0	12-7	-405 / 0	0.46 (1)
18-2	-1898 / 0	0.0	0.0 0.19 (1)	6.10	11-7	-219 / 40	0.06 (1)
10-8	-1898 / 0	0.0	0.0 0.19 (1)	6.10	2-17	0 / 2550	0.57 (1)
					11-8	0 / 2550	0.57 (1)
18-17	0 / 0	-17.5	-17.5 0.16 (4)	10.00			
17-16	0 / 2527	-17.5	-17.5 0.49 (1)	10.00			
16-15	0 / 2191	-17.5	-17.5 0.43 (1)	10.00			
15-14	0 / 2191	-17.5	-17.5 0.43 (1)	10.00			
14-13	0 / 2191	-17.5	-17.5 0.43 (1)	10.00			
13-12	0 / 2191	-17.5	-17.5 0.43 (1)	10.00			
12-11	0 / 2527	-17.5	-17.5 0.49 (1)	10.00			
11-10	0 / 0	-17.5	-17.5 0.16 (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 (1.29")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.17")
ALLOWABLE DEFL.(TL)= L/360 (1.29")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.32")

CSI: TC=0.58 (2-3:1), BC=0.49 (16-17:1), WB=0.65 (5-14:1), SSI=0.25 (5-6:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

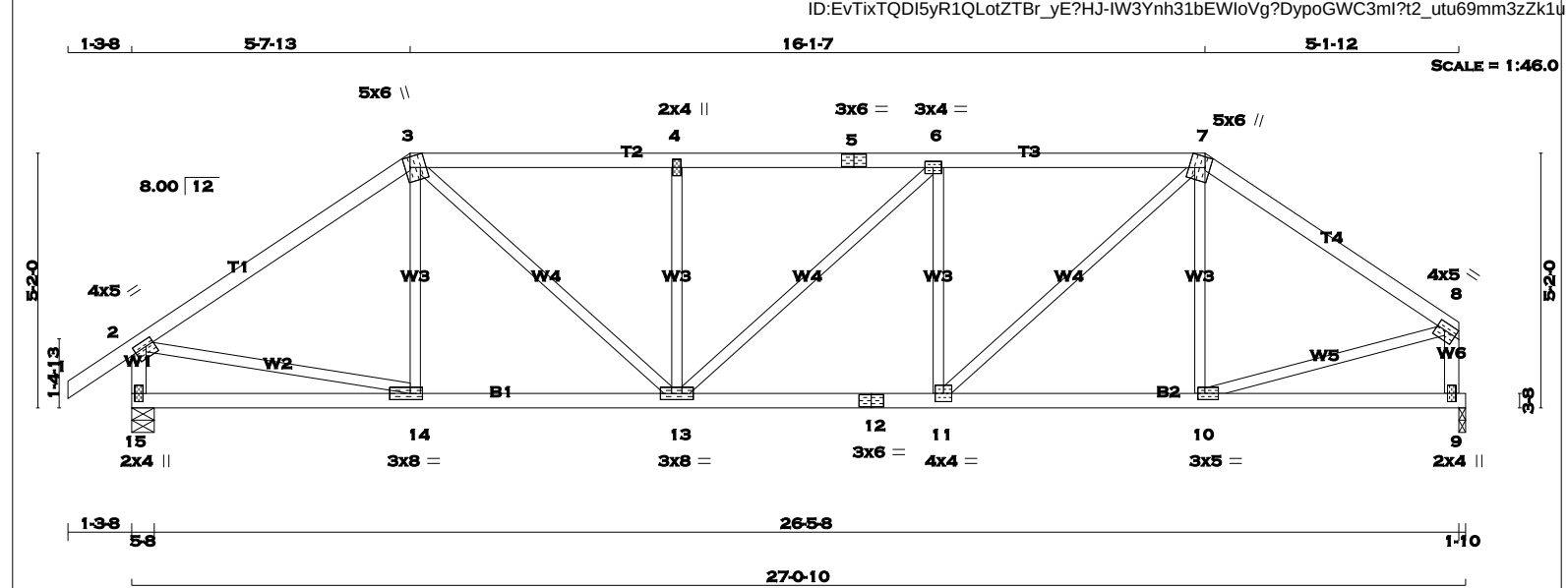
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (4) (INPUT = 0.90)
JSI METAL= 0.63 (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

3 - 5

2x4

DRY

No.2

SPF

5 - 7

2x4

DRY

No.2

SPF

7 - 8

2x4

DRY

No.2

SPF

15 - 2

2x4

DRY

No.2

SPF

9 - 8

2x4

DRY

No.2

SPF

15 - 12

2x4

DRY

No.2

SPF

12 - 9

2x4

DRY

No.2

SPF

ALL WEBS

2x3

DRY

No.2

SPF

EXCEPT

DRY: SEASONED LUMBER.

TOTAL WEIGHT = 109 lb

[M]

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
15		1383	0	1383	0	0	5-8	5-8	
9		1277	0	1277	0	0	1-10	1-10	
UNFACTORED REACTIONS									
		1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
15		968	691 / 0	0 / 0	0 / 0	0 / 0	277 / 0	0 / 0	
9		896	627 / 0	0 / 0	0 / 0	0 / 0	269 / 0	0 / 0	

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 23.3 PSF

DL = 3.0 PSF

BOT CH. LL = 0.0 PSF

DL = 7.0 PSF

TOTAL LOAD = 33.3 PSF

SPACING = 24.0 IN./C/C

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

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

THIS DESIGN COMPLIES WITH:

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

- CSA 086-09

- TPIC 2011

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

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

CALCULATED VERT. DEFL.(LL) = L/ 999 (0.07")

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

CALCULATED VERT. DEFL.(TL) = L/ 999 (0.14")

CSI: TC=0.52 (2-3:1), BC=0.32 (11-13:1), WB=0.27 (2-14:1), SSI=0.19 (6-7:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

PLATE GRIP(DRY) 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= 0.48 (2) (INPUT = 1.00)

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.64 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									
		MAX. FACTORED		FACTORED		WEBS		FACTORED	
MEMB.		FORCE (LBS)	VERT. LOAD (LBS)	LC1 (PLF)	MAX (LC)	MEMB.		FORCE (LBS)	MAX (LC)
FR-TO		FROM TO		LENGTH		FR-TO			
1-2		0 / 29	-77.4	-77.4	0.10 (1)	10.00	14-3	-112 / 57	0.04 (1)
2-3		-1428 / 0	-77.4	-77.4	0.52 (1)	4.83	3-13	0 / 766	0.17 (1)
3-4		-1755 / 0	-77.4	-77.4	0.36 (1)	4.65	13-4	-448 / 0	0.18 (1)
4-5		-1755 / 0	-77.4	-77.4	0.37 (1)	4.64	13-6	0 / 33	0.01 (1)
5-6		-1755 / 0	-77.4	-77.4	0.37 (1)	4.64	11-6	-472 / 0	0.19 (1)
6-7		-1730 / 0	-77.4	-77.4	0.37 (1)	4.68	11-7	0 / 842	0.19 (1)
7-8		-1334 / 0	-77.4	-77.4	0.42 (1)	5.10	10-7	-194 / 27	0.08 (1)
15-2		-1342 / 0	0.0	0.0	0.14 (1)	7.00	2-14	0 / 1208	0.27 (1)
9-8		-1240 / 0	0.0	0.0	0.13 (1)	7.21	10-8	0 / 1148	0.26 (1)
15-14		0 / 0	-17.5	-17.5	0.13 (4)	10.00			
14-13		0 / 1185	-17.5	-17.5	0.26 (1)	10.00			
13-12		0 / 1731	-17.5	-17.5	0.32 (1)	10.00			
12-11		0 / 1731	-17.5	-17.5	0.32 (1)	10.00			
11-10		0 / 1105	-17.5	-17.5	0.24 (1)	10.00			
10-9		0 / 0	-17.5	-17.5	0.12 (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.

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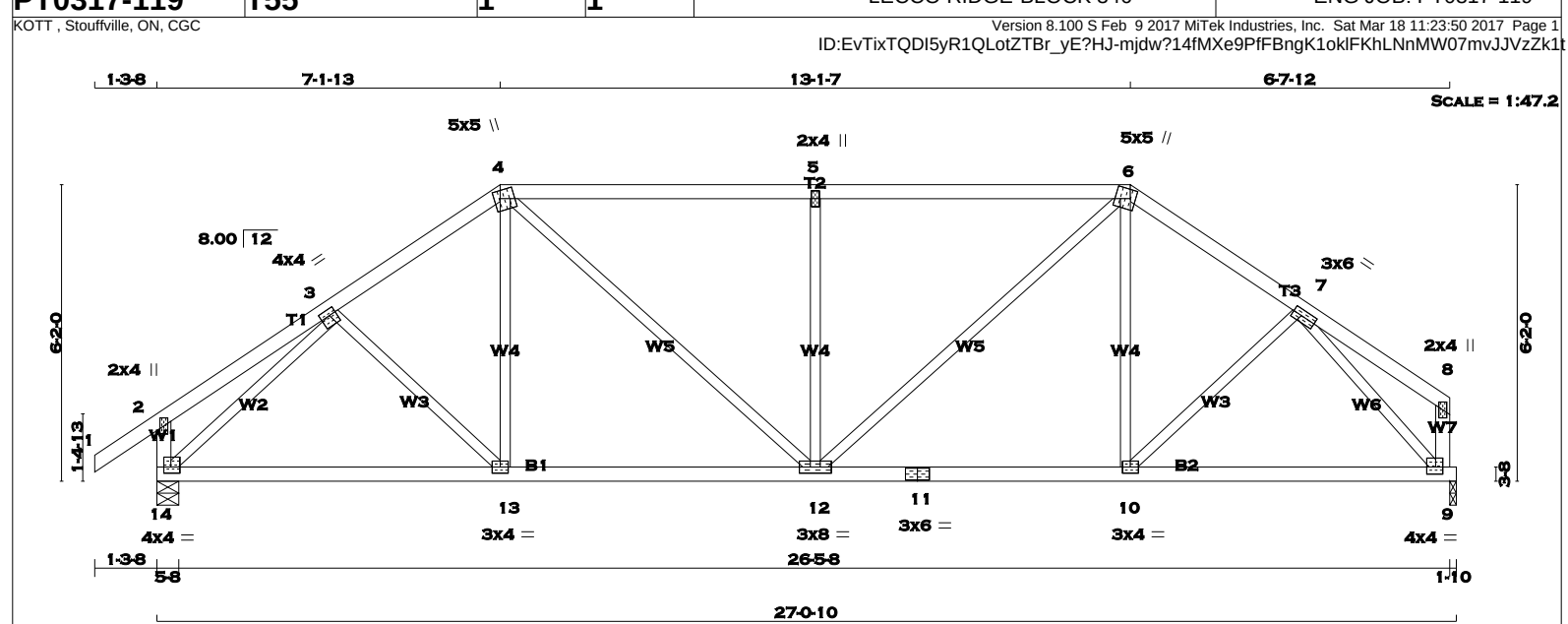
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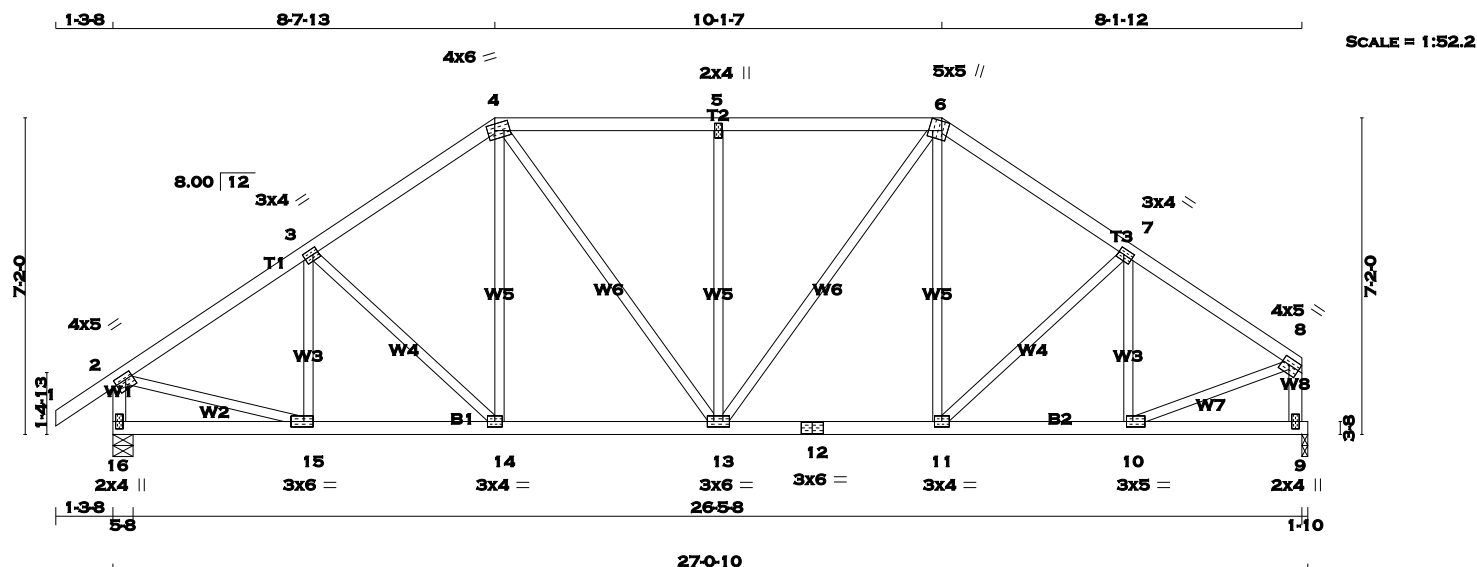


LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER				DESIGN CRITERIA			
CHORDS	SIZE	LUMBER	DESCR.	BEARINGS				SPECIFIED LOADS:			
1 - 4	2x4	DRY	No.2	FACTORED	MAXIMUM FACTORED	INPUT	REQRD	TOP CH.	LL =	23.3	PSF
4 - 6	2x4	DRY	No.2	GROSS REACTION	GROSS REACTION	BRG	BRG	DL =	3.0	PSF	
6 - 8	2x4	DRY	No.2	JT VERT	DOWN	HORZ	UPLIFT	BOT CH.	LL =	0.0	PSF
14 - 2	2x4	DRY	No.2	14 1383	0	1383	0	DL =	7.0	PSF	
9 - 8	2x4	DRY	No.2	9 1277	0	1277	0	TOTAL LOAD =	33.3	PSF	
14 - 11	2x4	DRY	No.2	UNFACTORED REACTIONS				SPACING = 24.0 IN. C/C			
11 - 9	2x4	DRY	No.2	1ST LCASE	MAX/MIN.	COMPONENT REACTIONS		LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12			
ALL WEBS EXCEPT	2x3	DRY	No.2	JT COMBINED	SNOW	LIVE	PERM.LIVE	THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010			
DRY: SEASONED LUMBER.				14 968	691 / 0	0 / 0	0 / 0	THIS DESIGN COMPLIES WITH:			
				9 896	627 / 0	0 / 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 (0.90")			
								CALCULATED VERT. DEFL.(LL) = L/ 999 (0.06")			
								ALLOWABLE DEFL.(TL)= L/360 (0.90")			
								CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11")			
								CSI: TC=0.47 (4-5:1), BC=0.31 (12-13:1), WB=0.63 (3-14:1), SSI=0.25 (4-5:1)			
								DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10			
								COMP=1.10 SHEAR=1.10 TENS= 1.10			
								COMPANION LIVE LOAD FACTOR = 0.50			
								TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.			
								NAIL VALUES			
								PLATE GRIP(DRY) 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= 0.59 (3) (INPUT = 1.00)			

PLATES (table is in inches)				LOADING			
JT	TYPE	PLATES	W LEN Y X	TOTAL LOAD CASES: (4)			
2	TMV+p	MT20	2.0 4.0	CHORDS	WEBS	FACTORED	
3	TMWW-t	MT20	4.0 4.0 1.50 1.75	MAX. FACTORED	MAX. FACTORED	MAX. FACTORED	
4	TTWW+m	MT20	5.0 5.0 2.00 1.50	MEMB. FORCE (LBS)	VERT. LOAD LC1 MAX (PLF) CSI (LC)	MEMB. FORCE (LBS) MAX (PLI) CSI (LC)	
5	TMW+w	MT20	2.0 4.0	FR-TO	FROM TO	LENGTH FR-TO	
6	TTWW+m	MT20	5.0 5.0 2.25 1.25	1-2 0 / 29	-77.4 -77.4 0.10 (1)	10.00 3-13 0 / 51	0.02 (4)
7	TMWW-t	MT20	3.0 6.0 1.50 2.25	2-3 0 / 16	-77.4 -77.4 0.14 (1)	10.00 13-4 0 / 134	0.04 (4)
8	TMV+p	MT20	2.0 4.0	3-4 -1410 / 0	-77.4 -77.4 0.13 (1)	5.37 4-12 0 / 506	0.11 (1)
9	BMVW1-t	MT20	4.0 4.0 1.75 1.75	4-5 -1537 / 0	-77.4 -77.4 0.47 (1)	4.76 12-5 -623 / 0	0.37 (1)
10	BMWW-t	MT20	3.0 4.0	5-6 -1537 / 0	-77.4 -77.4 0.47 (1)	4.76 12-6 0 / 579	0.13 (1)
11	BS-t	MT20	3.0 6.0	6-7 -1344 / 0	-77.4 -77.4 0.13 (1)	5.47 10-6 0 / 94	0.03 (4)
12	BMWW-t	MT20	3.0 8.0	7-8 0 / 16	-77.4 -77.4 0.13 (1)	10.00 10-7 0 / 128	0.03 (1)
13	BMWW-t	MT20	3.0 4.0	14-2 -215 / 0	0.0 0.0 0.02 (1)	7.81 14-3 -1604 / 0	0.63 (1)
14	BMVW1-t	MT20	4.0 4.0 1.50 1.75	9-8 -89 / 0	0.0 0.0 0.01 (1)	7.81 7-9 -1524 / 0	0.52 (1)

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

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MAR 29, 2017							
17-5403							
BUILDING DIVISION							



TOTAL WEIGHT = 121 lb

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

DRY: SEASONED LUMBER.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER							
<u>BEARINGS</u>							
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
16	1383	0	1383	0	0	5-8	5-8
9	1277	0	1277	0	0	1-10	1-10

DESIGN CRITERIA

SPECIFIED LOADS:

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

SPACING = 24.0 IN. C/C

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMWV-t	MT20	4.0	5.0	1.50 2.00
3	TMWV-t	MT20	3.0	4.0	1.50 1.50
4	TTWV-m	MT20	4.0	6.0	1.75 2.00
5	TWV+w	MT20	2.0	4.0	
6	TTWV+m	MT20	5.0	5.0	2.50 1.50
7	TMWV-t	MT20	3.0	4.0	1.50 1.50
8	TMWV-t	MT20	4.0	5.0	1.75 Edge
9	BMV1+p	MT20	2.0	4.0	
10	BMWV-t	MT20	3.0	5.0	1.50 1.75
11	BMWV-t	MT20	3.0	4.0	
12	BS-t	MT20	3.0	6.0	
13	BMWVWV-t	MT20	3.0	6.0	
14	BMWV-t	MT20	3.0	4.0	
15	BMWV-t	MT20	3.0	6.0	1.50 2.50
16	BMV1+p	MT20	2.0	4.0	

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

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

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

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

LOADING
TOTAL LOAD CASES: (4)

C H O R D S				W E B S				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LOADED LC1 MAX CSI (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM	TO	LENGTH	FR-TO			
1-2	0 / 29	-77.4	-77.4	0.10 (1)	10.00	15-3	-219 / 6	0.06 (1)
2-3	-1443 / 0	-77.4	-77.4	0.21 (1)	5.24	3-14	-169 / 0	0.10 (1)
3-4	-1340 / 0	-77.4	-77.4	0.20 (1)	5.40	14-4	0 / 199	0.04 (1)
4-5	-1288 / 0	-77.4	-77.4	0.27 (1)	5.38	4-13	0 / 321	0.07 (1)
5-6	-1288 / 0	-77.4	-77.4	0.27 (1)	5.38	13-5	-477 / 0	0.43 (1)
6-7	-1297 / 0	-77.4	-77.4	0.18 (1)	5.49	13-6	0 / 379	0.09 (1)
7-8	-1305 / 0	-77.4	-77.4	0.18 (1)	5.47	11-6	0 / 125	0.03 (4)
16-2	-1349 / 0	0.0	0.0	0.14 (1)	6.98	11-7	-58 / 0	0.04 (1)
9-8	-1247 / 0	0.0	0.0	0.13 (1)	7.19	10-7	-324 / 0	0.09 (1)
						2-15	0 / 1254	0.28 (1)
16-15	0 / 0	-17.5	-17.5	0.07 (4)	10.00	10-8	0 / 1173	0.26 (1)
15-14	0 / 1218	-17.5	-17.5	0.24 (1)	10.00			
14-13	0 / 1098	-17.5	-17.5	0.22 (1)	10.00			
13-12	0 / 1063	-17.5	-17.5	0.21 (1)	10.00			
12-11	0 / 1063	-17.5	-17.5	0.21 (1)	10.00			
11-10	0 / 1104	-17.5	-17.5	0.22 (4)	10.00			
10-9	0 / 0	-17.5	-17.5	0.06 (4)	10.00			

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

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

CSI: TC=0.27 (4-5:1) , BC=0.24 (14-15:1) ,
WB=0.43 (5-13:1) , SSI=0.19 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

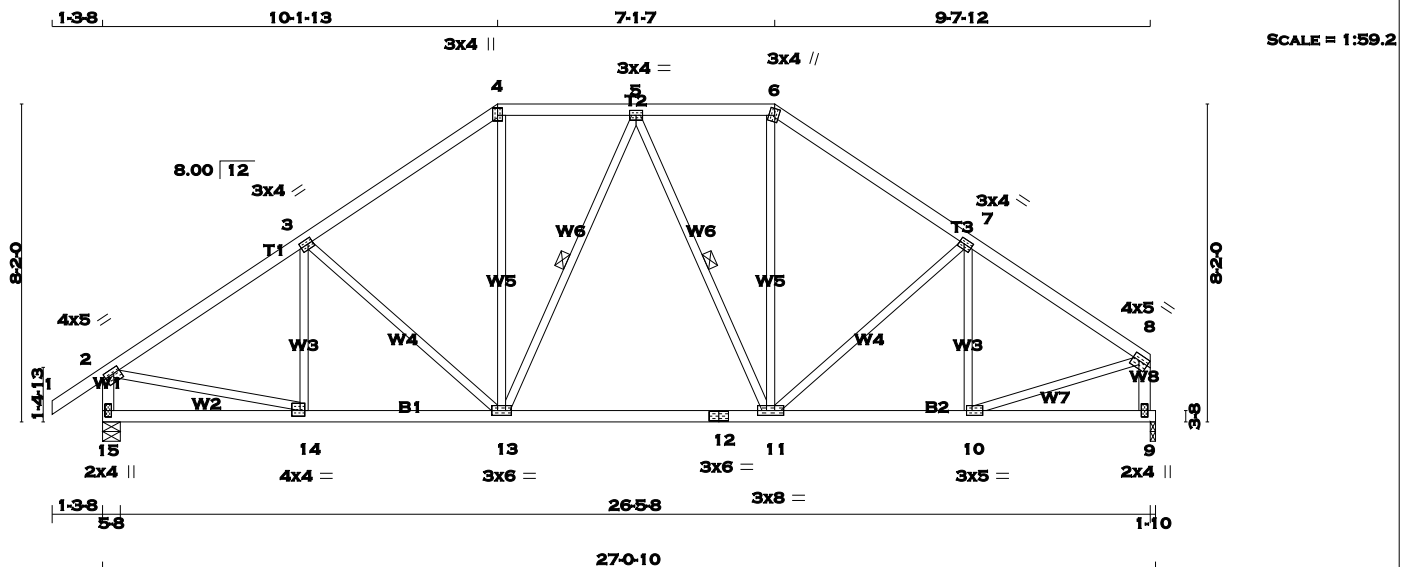
JSI GRIP= 0.90 (10) (INPUT = 0.90)
JSI METAL= 0.48 (2) (INPUT = 1.00)



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





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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	5.0	1.50	2.00
3	TMVW-t	MT20	3.0	4.0	1.50	1.50
4	TTW+p	MT20	3.0	4.0	2.25	1.50
5	TMVW-t	MT20	3.0	4.0		
6	TTW+m	MT20	3.0	4.0	2.00	1.25
7	TMVW-t	MT20	3.0	4.0	1.50	1.50
8	TMVW-t	MT20	4.0	5.0	1.75	Edge
9	BMV1+p	MT20	2.0	4.0		
10	BMVW-t	MT20	3.0	5.0	1.50	1.75
11	BMVW-t	MT20	3.0	8.0		
12	BS-t	MT20	3.0	6.0		
13	BMVW-t	MT20	3.0	6.0		
14	BMVW-t	MT20	4.0	4.0	1.75	1.50
15	BMV1+p	MT20	2.0	4.0		
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.						
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.						



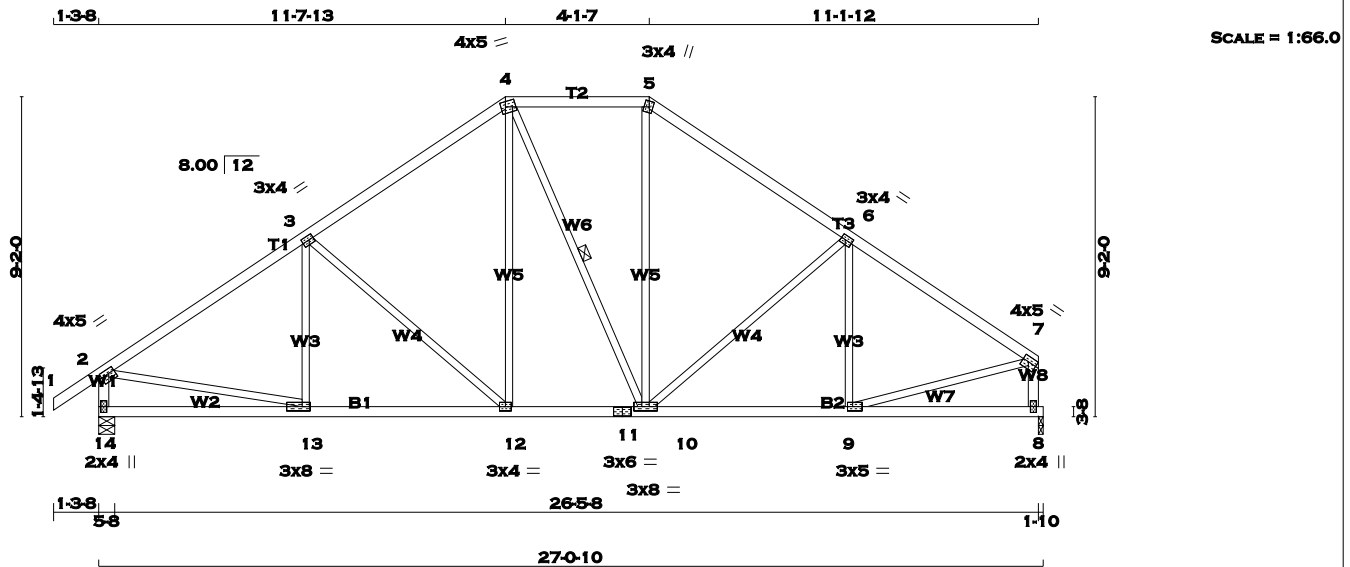
DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG		
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
15	1383	0	1383	0	0	5-8	5-8		
9	1277	0	1277	0	0	1-10	1-10		
UNFACTORED REACTIONS									
JT	1ST LCASE COMBINED		MAX/MIN. SNOW		LIVE		PERM. LIVE		
							WIND	DEAD	SOIL
15	968	691 / 0	0 / 0	0 / 0	0 / 0	0 / 0	277 / 0	0 / 0	0 / 0
9	896	627 / 0	0 / 0	0 / 0	0 / 0	0 / 0	269 / 0	0 / 0	0 / 0
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 15, 9									
BRACING									
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.12 FT.									
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.									
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.									
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-13, 5-11. DBS = 20'-0" . CBF = 26 LBS.									
DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE. FASTEN LATERAL BRACE(S) USING (0.122"x3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.									
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW									
LOADING									
TOTAL LOAD CASES: (4)									
CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)		FACTORED VERT. LOAD LC1 MAX (PLF)		MEMB.	MAX. FACTORED FORCE (LBS)		MAX UNBRACED LENGTH (LC)	
	FROM	TO	FROM	TO		FROM	TO	FROM	TO
1-2	0 / 29		-77.4	-77.4 0.10 (1)	10.00	14-3	-168 / 29	0.06 (1)	
2-3	-1461 / 0		-77.4	-77.4 0.29 (1)	5.12	3-13	-276 / 0	0.24 (1)	
3-4	-1267 / 0		-77.4	-77.4 0.28 (1)	5.42	13-4	0 / 434	0.10 (1)	
4-5	-1037 / 0		-77.4	-77.4 0.13 (1)	6.04	13-5	-153 / 0	0.08 (1)	
5-6	-1016 / 0		-77.4	-77.4 0.12 (1)	6.08	5-11	-205 / 0	0.10 (1)	
6-7	-1240 / 0		-77.4	-77.4 0.25 (1)	5.49	11-6	0 / 416	0.09 (1)	
7-8	-1347 / 0		-77.4	-77.4 0.25 (1)	5.32	11-7	-176 / 0	0.15 (1)	
15-2	-1343 / 0	0.0	0.0	0.14 (1)	6.99	10-7	-261 / 0	0.09 (1)	
9-8	-1241 / 0	0.0	0.0	0.13 (1)	7.20	2-14	0 / 1263	0.28 (1)	
						10-8	0 / 1192	0.27 (1)	
15-14	0 / 0		-17.5	-17.5 0.10 (4)	10.00				
14-13	0 / 1237		-17.5	-17.5 0.28 (1)	10.00				
13-12	0 / 1098		-17.5	-17.5 0.26 (1)	10.00				
12-11	0 / 1098		-17.5	-17.5 0.26 (1)	10.00				
11-10	0 / 1141		-17.5	-17.5 0.26 (1)	10.00				
10-9	0 / 0		-17.5	-17.5 0.08 (4)	10.00				

DESIGN CRITERIA									
SPECIFIED LOADS:									
TOP CH.	LL	=	23.3	PSF					
	DL	=	3.0	PSF					
BOT CH.	LL	=	0.0	PSF					
	DL	=	7.0	PSF					
TOTAL LOAD				=	33.3	PSF			
SPACING = 24.0 IN. C/C									
LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12									
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010									
THIS DESIGN COMPLIES WITH:									
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014									
- CSA 086-09									
- TPIC 2011									
(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD									
ALLOWABLE DEFL.(LL)= L/360 (0.90")									
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")									
ALLOWABLE DEFL.(TL)= L/360 (0.90")									
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11")									
CSI: TC=0.29 (2-3:1) , BC=0.28 (13-14:1) , WB=0.28 (2-14:1) , SSI=0.16 (2-3:1)									
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10									
COMPANION LIVE LOAD FACTOR = 0.50									
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .									
NAIL VALUES									
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)									
MAX MIN MAX MIN MAX MIN									
MT20 618 354 1667 822 2284 1656									
PLATE PLACEMENT TOL. = 0.250 inches									
PLATE ROTATION TOL. = 5.0 Deg.									
JSI GRIP= 0.90 (4) (INPUT = 0.90)									
JSI METAL= 0.49 (2) (INPUT = 1.00)									

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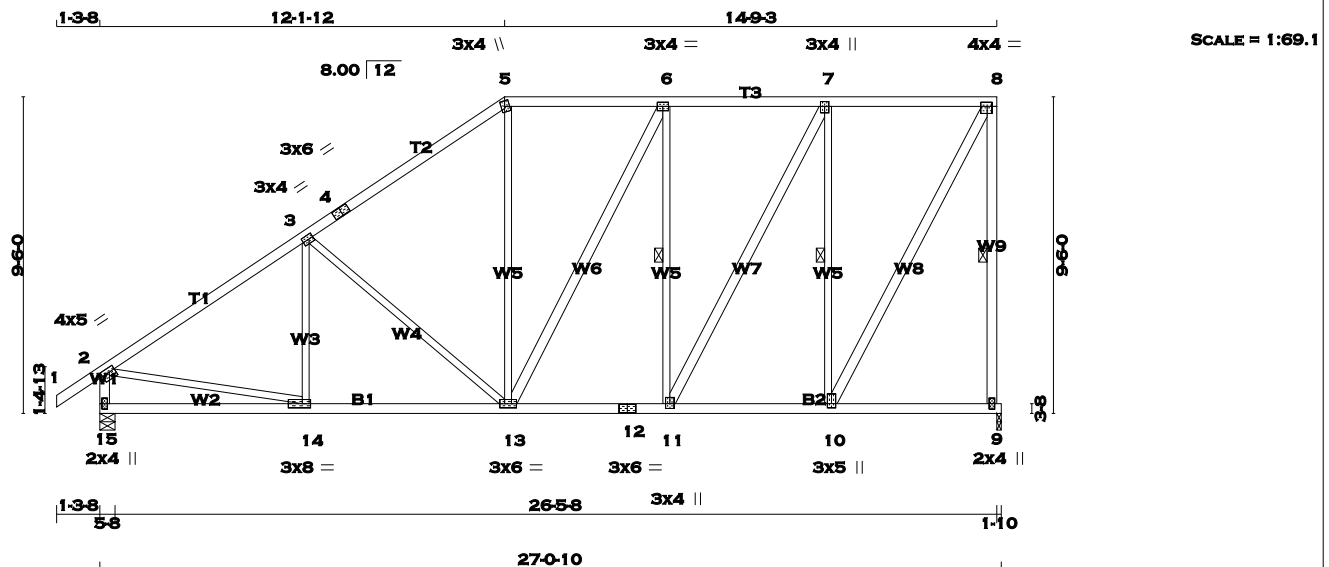


LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR.					DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										TOTAL WEIGHT = 122 lb																																																									
					BEARINGS										[M][F]																																																									
					<table><tr><td></td><td>FACTORED</td><td colspan="2">MAXIMUM FACTORED</td><td>INPUT</td><td>REQRD</td><td colspan="4"></td></tr><tr><td></td><td>GROSS REACTION</td><td colspan="2">GROSS REACTION</td><td>BRG</td><td>BRG</td><td colspan="4"></td></tr><tr><td>JT</td><td>VERT</td><td>HORZ</td><td>DOWN</td><td>HORZ</td><td>UPLIFT</td><td>IN-SX</td><td>IN-SX</td><td colspan="4"></td></tr><tr><td>14</td><td>1383</td><td>0</td><td>1383</td><td>0</td><td>0</td><td>5-8</td><td>5-8</td><td colspan="4"></td></tr><tr><td>8</td><td>1277</td><td>0</td><td>1277</td><td>0</td><td>0</td><td>1-10</td><td>1-10</td><td colspan="4"></td></tr></table>											FACTORED	MAXIMUM FACTORED		INPUT	REQRD						GROSS REACTION	GROSS REACTION		BRG	BRG					JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX					14	1383	0	1383	0	0	5-8	5-8					8	1277	0	1277	0	0	1-10	1-10						
	FACTORED	MAXIMUM FACTORED		INPUT	REQRD																																																																			
	GROSS REACTION	GROSS REACTION		BRG	BRG																																																																			
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX																																																																	
14	1383	0	1383	0	0	5-8	5-8																																																																	
8	1277	0	1277	0	0	1-10	1-10																																																																	
					UNFACTORED REACTIONS																																																																			
					<table><tr><td></td><td>1ST LCASE</td><td colspan="7">MAX./MIN. COMPONENT REACTIONS</td><td colspan="2"></td></tr><tr><td>JT</td><td>COMBINED</td><td>SNOW</td><td>LIVE</td><td>PERM.LIVE</td><td>WIND</td><td>DEAD</td><td>SOIL</td><td colspan="4"></td></tr><tr><td>14</td><td>968</td><td>691 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>277 / 0</td><td>0 / 0</td><td colspan="4"></td></tr><tr><td>8</td><td>896</td><td>627 / 0</td><td>0 / 0</td><td>0 / 0</td><td>0 / 0</td><td>269 / 0</td><td>0 / 0</td><td colspan="4"></td></tr></table>											1ST LCASE	MAX./MIN. COMPONENT REACTIONS									JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL					14	968	691 / 0	0 / 0	0 / 0	0 / 0	277 / 0	0 / 0					8	896	627 / 0	0 / 0	0 / 0	0 / 0	269 / 0	0 / 0															
	1ST LCASE	MAX./MIN. COMPONENT REACTIONS																																																																						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL																																																																	
14	968	691 / 0	0 / 0	0 / 0	0 / 0	277 / 0	0 / 0																																																																	
8	896	627 / 0	0 / 0	0 / 0	0 / 0	269 / 0	0 / 0																																																																	
ALL WEBS EXCEPT					SPF																																																																			
DRY: SEASONED LUMBER.																																																																								
PLATES (table is in inches)																																																																								
JT	TYPE	PLATES	W	LEN	Y	X																																																																		
2	TMVW-t	MT20	4.0	5.0	1.50	2.00																																																																		
3	TMVW-t	MT20	3.0	4.0	1.50	1.50																																																																		
4	TTWW-m	MT20	4.0	5.0	1.75	1.50																																																																		
5	TTW+m	MT20	3.0	4.0	2.00	1.25																																																																		
6	TMVW-t	MT20	3.0	4.0	1.50	1.50																																																																		
7	TMVW-t	MT20	4.0	5.0	1.75	Edge																																																																		
8	BMV1+p	MT20	2.0	4.0																																																																				
9	BMVW-t	MT20	3.0	5.0	1.50	1.75																																																																		
10	BMVW-t	MT20	3.0	8.0																																																																				
11	BS-t	MT20	3.0	6.0																																																																				
12	BMVW-t	MT20	3.0	4.0																																																																				
13	BMVW-t	MT20	3.0	8.0	1.50	2.75																																																																		
14	BMV1+p	MT20	2.0	4.0																																																																				
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.																																																																								
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.																																																																								



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





TOTAL WEIGHT = 149 lb [M]

LUMBER		N. L. G. A. RULES		LUMBER		DESCR.	
CHORDS	SIZE						
1 - 4	2x4	DRY	No.2			SPF	
4 - 5	2x4	DRY	No.2			SPF	
5 - 8	2x4	DRY	No.2			SPF	
9 - 8	2x4	DRY	No.2			SPF	
15 - 2	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	
13 - 6	2x4	DRY	No.2			SPF	
11 - 7	2x4	DRY	No.2			SPF	
10 - 8	2x4	DRY	No.2			SPF	

DRY: SEASONED LUMBER.

PLATES (table is in inches)		W		LEN		Y		X	
JT	TYPE	PLATES							
2	TMVW-t	MT20	4.0	5.0	1.50	2.00			
3	TMVW-t	MT20	3.0	4.0	1.50	1.50			
4	TS-t	MT20	3.0	6.0					
5	TTW+m	MT20	3.0	4.0	2.00	1.25			
6	TMVW-t	MT20	3.0	4.0					
7	TMVW-t	MT20	3.0	4.0	1.75	1.50			
8	TMVW-t	MT20	4.0	4.0	1.50	1.75			
9	BMV1+p	MT20	2.0	4.0					
10	BMVW+t	MT20	3.0	5.0	1.50	1.50			
11	BMVW+t	MT20	3.0	4.0	1.75	1.50			
12	BS-t	MT20	3.0	6.0					
13	BMVW-t	MT20	3.0	6.0					
14	BMVW-t	MT20	3.0	8.0	1.50	3.00			
15	BMV1+p	MT20	2.0	4.0					

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	GROSS REACTION	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	BRG	IN-SX
9	1277	0	1277	0	0	1-10	1-10		
15	1383	0	1383	0	0	5-8	5-8		

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

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.67 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 8-9. DBS = 12-0-0 . CBF = 93 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 6-11. DBS = 20-0-0 . CBF = 60 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-10. DBS = 14-0-0 . CBF = 86 LBS.

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

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

LOADING

TOTAL LOAD CASES: (4)

C H O R D S		F A C T O R E D		W E B S		F A C T O R E D	
MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 29	-77.4 -77.4	0.10 (1)	10.00	14-3	-98 / 73	0.05 (1)
2-3	-1468 / 0	-77.4 -77.4	0.61 (1)	4.67	3-13	-422 / 0	0.56 (1)
3-4	-1147 / 0	-77.4 -77.4	0.56 (1)	5.17	13-5	0 / 292	0.07 (1)
4-5	-1147 / 0	-77.4 -77.4	0.56 (1)	5.17	13-6	0 / 88	0.01 (1)
5-6	-929 / 0	-77.4 -77.4	0.25 (1)	6.08	11-6	-483 / 0	0.29 (1)
6-7	-889 / 0	-77.4 -77.4	0.28 (1)	6.14	11-7	0 / 630	0.10 (1)
7-8	-595 / 0	-77.4 -77.4	0.27 (1)	6.25	10-7	-982 / 0	0.59 (1)
9-8	-1241 / 0	0.0 0.0	0.53 (1)	5.76	10-8	0 / 1236	0.20 (1)
15-2	-1338 / 0	0.0 0.0	0.14 (1)	7.00	2-14	0 / 1266	0.28 (1)
15-14	0 / 0	-17.5 -17.5	0.16 (4)	10.00			
14-13	0 / 1247	-17.5 -17.5	0.28 (1)	10.00			
13-12	0 / 889	-17.5 -17.5	0.20 (1)	10.00			
12-11	0 / 889	-17.5 -17.5	0.20 (1)	10.00			
11-10	0 / 595	-17.5 -17.5	0.16 (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 (0.90")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.90")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.10")

CSI: TC=0.61 (2-3:1) , BC=0.28 (13-14:1) , WB=0.59 (7-10:1) , SSI=0.19 (2-3:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) 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.

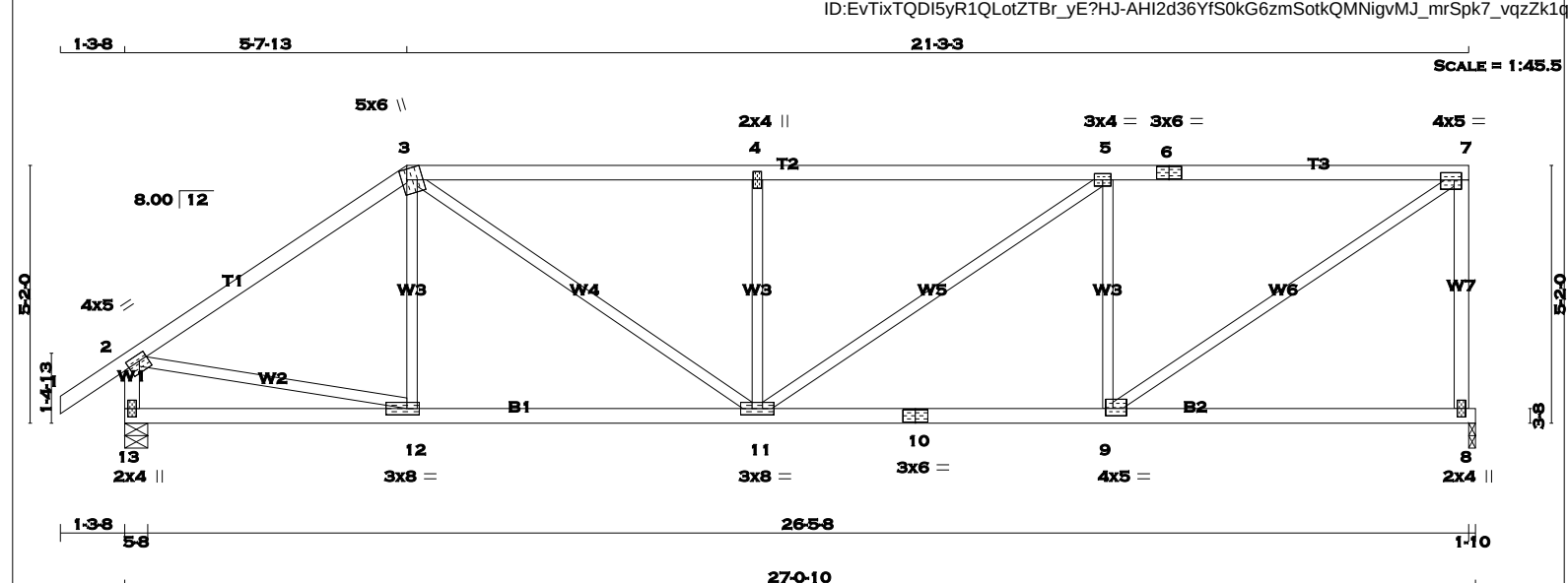
JSI GRIP= 0.89 (14) (INPUT = 0.90)
JSI METAL= 0.50 (2) (INPUT = 1.00)



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LUMBER

N. L. G. A. RULES

CHORDS

SIZE

LUMBER

DESCR.

1 - 3

2x4

DRY

No.2

SPF

3 - 6

2x4

DRY

No.2

SPF

6 - 7

2x4

DRY

No.2

SPF

8 - 7

2x4

DRY

No.2

SPF

13 - 2

2x4

DRY

No.2

SPF

13 - 10

2x4

DRY

No.2

SPF

10 - 8

2x4

DRY

No.2

SPF

ALL WEBS

2x3

DRY

No.2

SPF

EXCEPT

DRY: SEASONED LUMBER.

TOTAL WEIGHT = 107 lb

[M]

CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2
3 - 6	2x4	DRY	No.2
6 - 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
DRY: SEASONED LUMBER.			

DRY: SEASONED LUMBER.

PLATES (table is in inches)	JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	5.0	1.50	2.00	
3	TTWW+m	MT20	5.0	6.0	Edge	3.75	
4	TMW+w	MT20	2.0	4.0			
5	TMWW-t	MT20	3.0	4.0			
6	TS-t	MT20	3.0	6.0			
7	TMVW-t	MT20	4.0	5.0	1.75	1.75	
8	BMV1+p	MT20	2.0	4.0			
9	BMWW-t	MT20	4.0	5.0	1.75	1.75	
10	BS-t	MT20	3.0	6.0			
11	BMWWW-t	MT20	3.0	8.0			
12	BMWW-t	MT20	3.0	8.0	1.50	3.00	
13	BMV1+p	MT20	2.0	4.0			

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

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

MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	LC1 (PLF)	MAX (CSI (LC)	UNBRAC LENGTH (FT)	MEMB.	FORCE (LBS)	MAX (CSI (LC)
FR-TO						FR-TO		
1-2	0 / 29	-77.4	-77.4	0.10 (1)	10.00	12-3	-98 / 71	0.04 (1)
2-3	-1432 / 0	-77.4	-77.4	0.52 (1)	4.82	3-11	0 / 795	0.18 (1)
3-4	-1841 / 0	-77.4	-77.4	0.68 (1)	4.17	11-4	-588 / 0	0.23 (1)
4-5	-1842 / 0	-77.4	-77.4	0.72 (1)	4.10	11-5	0 / 438	0.10 (1)
5-6	-1482 / 0	-77.4	-77.4	0.67 (1)	4.52	9-5	-858 / 0	0.34 (1)
6-7	-1482 / 0	-77.4	-77.4	0.67 (1)	4.52	9-7	0 / 1787	0.40 (1)
8-7	-1225 / 0	0.0	0.0	0.56 (1)	7.25	2-12	0 / 1211	0.27 (1)
13-2	-1345 / 0	0.0	0.0	0.14 (1)	6.99			
13-12	0 / 0	-17.5	-17.5	0.17 (4)	10.00			
12-11	0 / 1188	-17.5	-17.5	0.29 (1)	10.00			
11-10	0 / 1482	-17.5	-17.5	0.35 (1)	10.00			
10-9	0 / 1482	-17.5	-17.5	0.35 (1)	10.00			
9-8	0 / 0	-17.5	-17.5	0.22 (4)	10.00			



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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
8	1277	0	1277	0	0	1-10	1-10	1-10	1-10
13	1383	0	1383	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX / MIN.	COMPONENT REACTIONS	JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
8	896	627 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	269 / 0	0 / 0
13	968	691 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	277 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.10 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 (LC)	MAX (CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 (LC)	MAX (CSI (LC)
FR-TO					FR-TO				
1-2	0 / 29	-77.4	-77.4	0.10 (1)	10.00	12-3	-98 / 71	0.04 (1)	10.00
2-3	-1432 / 0	-77.4	-77.4	0.52 (1)	4.82	3-11	0 / 795	0.18 (1)	10.00
3-4	-1841 / 0	-77.4	-77.4	0.68 (1)	4.17	11-4	-588 / 0	0.23 (1)	10.00
4-5	-1842 / 0	-77.4	-77.4	0.72 (1)	4.10	11-5	0 / 438	0.10 (1)	10.00
5-6	-1482 / 0	-77.4	-77.4	0.67 (1)	4.52	9-5	-858 / 0	0.34 (1)	10.00
6-7	-1482 / 0	-77.4	-77.4	0.67 (1)	4.52	9-7	0 / 1787	0.40 (1)	10.00
8-7	-1225 / 0	0.0	0.0	0.56 (1)	7.25	2-12	0 / 1211	0.27 (1)	10.00
13-2	-1345 / 0	0.0	0.0	0.14 (1)	6.99				
13-12	0 / 0	-17.5	-17.5	0.17 (4)	10.00				
12-11	0 / 1188	-17.5	-17.5	0.29 (1)	10.00				
11-10	0 / 1482	-17.5	-17.5	0.35 (1)	10.00				
10-9	0 / 1482	-17.5	-17.5	0.35 (1)	10.00				
9-8	0 / 0	-17.5	-17.5	0.22 (4)	10.00				

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.90")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.09")
ALLOWABLE DEFL.(TL)= L/360 (0.90")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.16")

CSI: TC=0.72 (4-5:1), BC=0.35 (9-11:1), WB=0.40 (7-9:1), SSI=0.26 (5-7:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

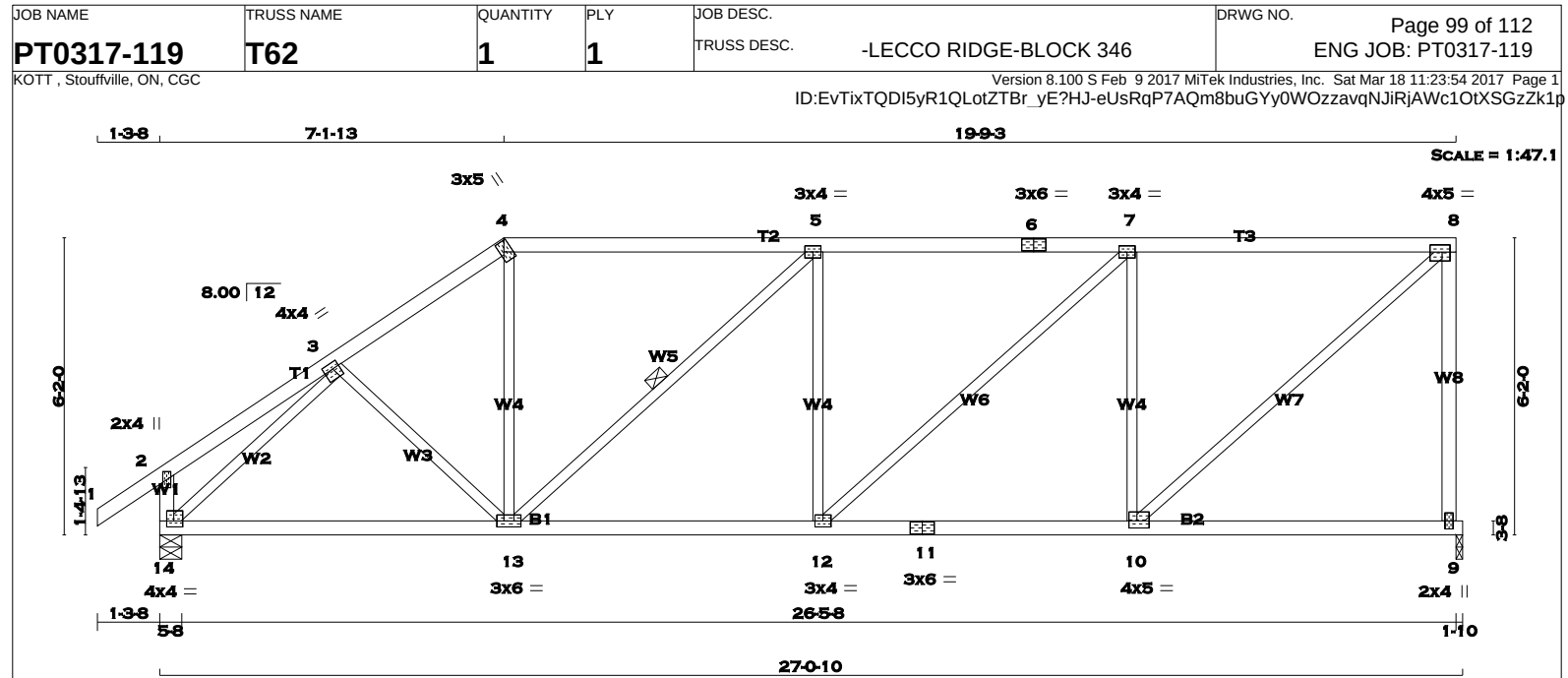
PLATE ROTATION TOL. = 5.0 Deg.

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

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TOTAL WEIGHT = 114 lb [M]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2
4 - 6	2x4	DRY	No.2
6 - 8	2x4	DRY	No.2
9 - 8	2x4	DRY	No.2
14 - 2	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	TMV+p	MT20	2.0	4.0		
3	TMWW-t	MT20	4.0	4.0	1.50	1.75
4	TTW+h	MT20	3.0	5.0	2.50	1.00
5	TMWW-t	MT20	3.0	4.0		
6	TS-t	MT20	3.0	6.0		
7	TMWW-t	MT20	3.0	4.0		
8	TMVW-t	MT20	4.0	5.0	1.75	2.00
9	BMV1+p	MT20	2.0	4.0		
10	BMWW-t	MT20	4.0	5.0	1.75	2.00
11	BS-t	MT20	3.0	6.0		
12	BMWW-t	MT20	3.0	4.0		
13	BMWWW-t	MT20	3.0	6.0		
14	BMVW1-t	MT20	4.0	4.0	1.50	1.75

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	UPLIFT
JT				
9	1277	0	1277	0
14	1383	0	1383	0

UNFACTORED REACTIONS

	1ST LCASE	MAX/MIN	COMPONENT REACTIONS
	COMBINED	SNOW	LIVE
JT			
9	896	627 / 0	0 / 0
14	968	691 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.63 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-13. DBS = 20-0-0, CBF = 61 LBS.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED UNBRAC LENGTH	FACTORED MAX (LC)
FR-TO		FROM TO		FR-TO			
1-2	0 / 29	-77.4	-77.4 0.10 (1)	10.00	3-13	0 / 52	0.02 (4)
2-3	0 / 16	-77.4	-77.4 0.14 (1)	10.00	13-4	0 / 460	0.10 (1)
3-4	-1409 / 0	-77.4	-77.4 0.17 (1)	5.32	13-5	-484 / 0	0.25 (1)
4-5	-1165 / 0	-77.4	-77.4 0.50 (1)	5.22	12-5	-220 / 22	0.13 (1)
5-6	-1522 / 0	-77.4	-77.4 0.57 (1)	4.63	12-7	0 / 478	0.11 (1)
6-7	-1522 / 0	-77.4	-77.4 0.57 (1)	4.63	10-7	-886 / 0	0.53 (1)
7-8	-1167 / 0	-77.4	-77.4 0.54 (1)	5.16	10-8	0 / 1549	0.35 (1)
9-8	-1229 / 0	0.0	0.0 0.91 (1)	7.23	14-3	-1603 / 0	0.63 (1)
14-2	-215 / 0	0.0	0.0 0.02 (1)	7.81			
14-13	0 / 1151	-17.5	-17.5 0.30 (1)	10.00			
13-12	0 / 1522	-17.5	-17.5 0.36 (1)	10.00			
12-11	0 / 1167	-17.5	-17.5 0.29 (1)	10.00			
11-10	0 / 1167	-17.5	-17.5 0.29 (1)	10.00			
10-9	0 / 0	-17.5	-17.5 0.19 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.90")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (0.90")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.13")

CSI: TC=0.91 (8-9:1), BC=0.36 (12-13:1), WB=0.63 (3-14:1), SSI=0.24 (7-8:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

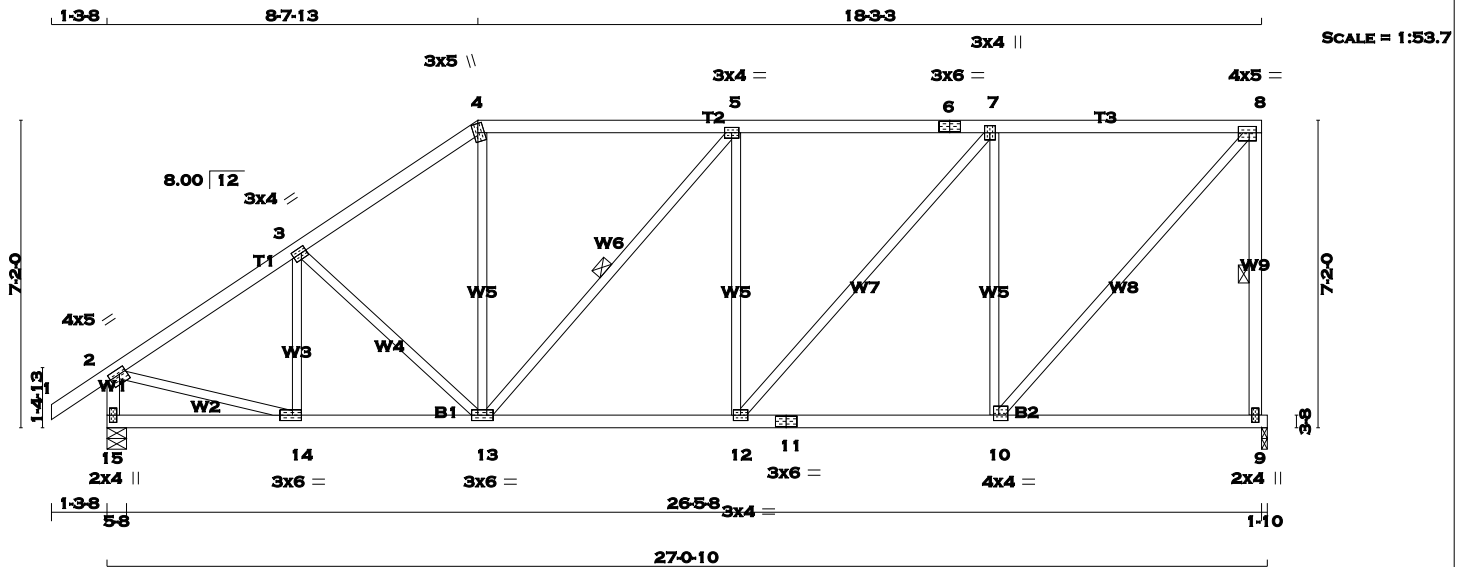
JSI GRIP= 0.89 (14) (INPUT = 0.90)
JSI METAL= 0.59 (3) (INPUT = 1.00)



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LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 8	2x4	DRY	No.2	SPF
9 - 8	2x4	DRY	No.2	SPF
15 - 2	2x4	DRY	No.2	SPF
15 - 11	2x4	DRY	No.2	SPF
11 - 9	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

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

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



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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT	VERT	JT	HORZ	JT	IN-SX	JT	IN-SX
9	1277	0	1277	0	0	1-10	1-10
15	1383	0	1383	0	0	5-8	5-8

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

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

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

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 8-9. DBS = 12-0-0 . CBF = 92 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-13. DBS = 20-0-0 . CBF = 35 LBS.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	MEMB.
FR-TO		FROM TO		FR-TO			
1-2	0 / 29	-77.4 -77.4	0.10 (1)	10.00	14-3	-222 / 2	0.06 (1)
2-3	-1442 / 0	-77.4 -77.4	0.28 (1)	5.14	3-13	-166 / 0	0.10 (1)
3-4	-1341 / 0	-77.4 -77.4	0.27 (1)	5.29	13-4	0 / 420	0.09 (1)
4-5	-1102 / 0	-77.4 -77.4	0.42 (1)	5.47	13-5	-279 / 0	0.16 (1)
5-6	-1285 / 0	-77.4 -77.4	0.46 (1)	5.10	12-5	-293 / 0	0.26 (1)
6-7	-1285 / 0	-77.4 -77.4	0.46 (1)	5.10	12-7	0 / 523	0.12 (1)
7-8	-940 / 0	-77.4 -77.4	0.44 (1)	5.76	10-7	-916 / 0	0.82 (1)
9-8	-1233 / 0	0.0 0.0	0.29 (1)	5.78	10-8	0 / 1401	0.32 (1)
15-2	-1348 / 0	0.0 0.0	0.14 (1)	6.99	2-14	0 / 1253	0.28 (1)
15-14	0 / 0	-17.5 -17.5	0.07 (4)	10.00			
14-13	0 / 1217	-17.5 -17.5	0.25 (1)	10.00			
13-12	0 / 1285	-17.5 -17.5	0.26 (1)	10.00			
12-11	0 / 940	-17.5 -17.5	0.24 (1)	10.00			
11-10	0 / 940	-17.5 -17.5	0.24 (1)	10.00			
10-9	0 / 0	-17.5 -17.5	0.16 (4)	10.00			

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.90")
CALCULATED VERT. DEFL.(LL)= L/999 (0.06")
ALLOWABLE DEFL.(TL)= L/360 (0.90")
CALCULATED VERT. DEFL.(TL)= L/999 (0.11")

CSI: TC=0.46 (5-7:1) , BC=0.26 (12-13:1) , WB=0.82 (7-10:1) , SSI=0.22 (7-8:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

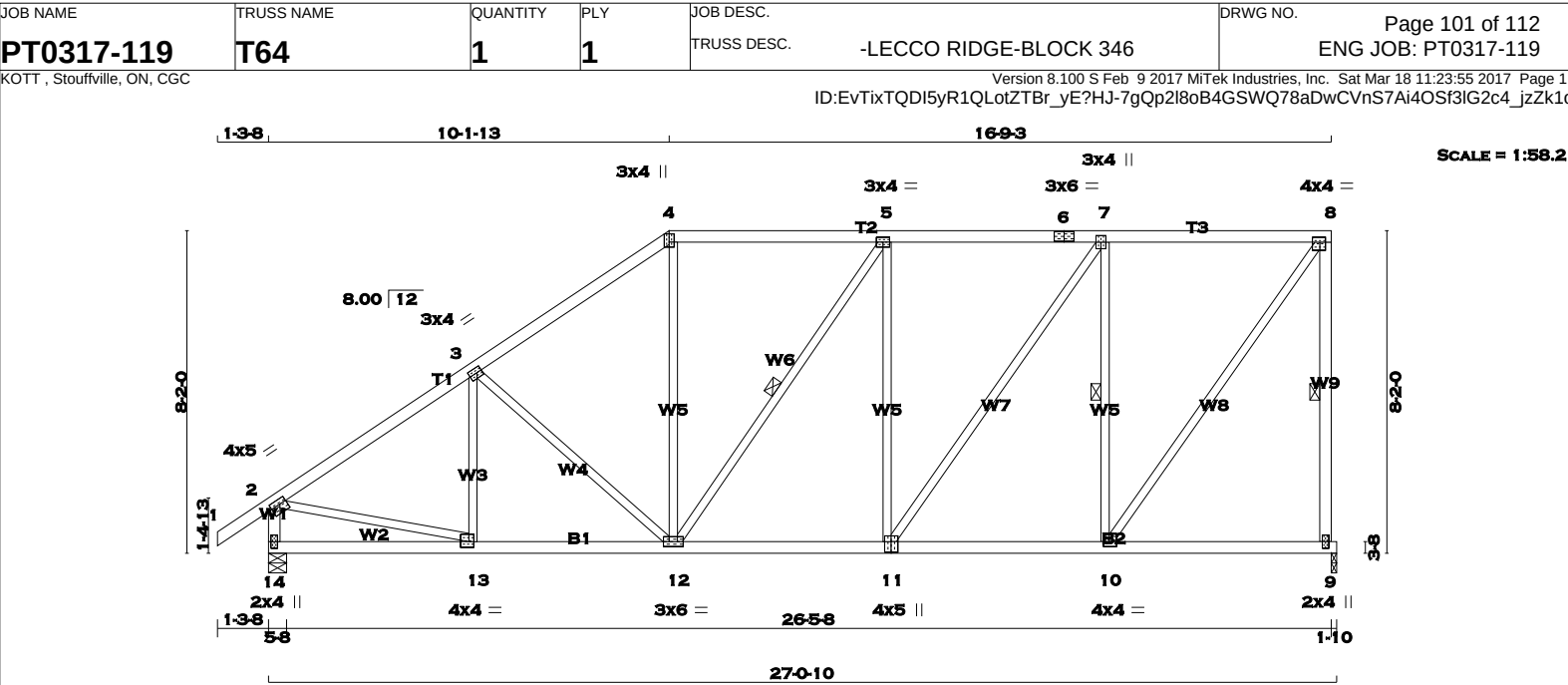
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (4) (INPUT = 0.90)
JSI METAL= 0.48 (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.





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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	5.0	1.50	2.00
3	TMVW-t	MT20	3.0	4.0	1.50	1.50
4	TTW+p	MT20	3.0	4.0	2.50	1.50
5	TMVW-t	MT20	3.0	4.0		
6	TS-t	MT20	3.0	6.0		
7	TMVW-t	MT20	3.0	4.0		
8	TMVW-t	MT20	4.0	4.0	1.50	1.75
9	BMV1+p	MT20	2.0	4.0		
10	BMVW-t	MT20	4.0	4.0	1.50	1.75
11	BSWW+I	MT20	4.0	5.0	3.25	2.00
12	BMVW-t	MT20	3.0	6.0		
13	BMVW-t	MT20	4.0	4.0	1.75	1.50
14	BMV1+p	MT20	2.0	4.0		
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.						

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
9		1277	0	1277	0	0	1-10	1-10	
14		1383	0	1383	0	0	5-8	5-8	
UNFACTORED REACTIONS									
JT	1ST LCASE	MAX	MIN	COMPONENT	REACTIONS				
	COMBINED	SNOW	LIVE	PERM.	LIVE	WIND	DEAD	SOIL	
9	896	627 / 0	0 / 0	0 / 0	0 / 0	0 / 0	269 / 0	0 / 0	
14	968	691 / 0	0 / 0	0 / 0	0 / 0	0 / 0	277 / 0	0 / 0	

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.96 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 8-9. DBS = 12-0-0 . CBF = 93 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-12. DBS = 20-0-0 . CBF = 13 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-10. DBS = 14-0-0 . CBF = 83 LBS.

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

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

LOADING					TOTAL LOAD CASES: (4)				
C H O R D S					W E B S				
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	UNBRAC LENGTH	FR-TO				
1-2	0 / 29	-77.4	-77.4	0.10 (1)	10.00	13-3	-163 / 35	0.06 (1)	
2-3	-1462 / 0	-77.4	-77.4	0.40 (1)	4.96	3-12	-280 / 0	0.24 (1)	
3-4	-1265 / 0	-77.4	-77.4	0.38 (1)	5.26	12-4	0 / 369	0.08 (1)	
4-5	-1033 / 0	-77.4	-77.4	0.34 (1)	5.72	12-5	-107 / 0	0.07 (1)	
5-6	-1094 / 0	-77.4	-77.4	0.37 (1)	5.55	11-5	-373 / 0	0.48 (1)	
6-7	-1094 / 0	-77.4	-77.4	0.37 (1)	5.55	11-7	0 / 567	0.13 (1)	
7-8	-769 / 0	-77.4	-77.4	0.36 (1)	6.25	10-8	-945 / 0	0.40 (1)	
9-8	-1236 / 0	0.0	0.0	0.37 (1)	5.77	10-8	0 / 1307	0.29 (1)	
14-2	-1344 / 0	0.0	0.0	0.14 (1)	6.99	2-13	0 / 1264	0.28 (1)	
14-13	0 / 0	-17.5	-17.5	0.10 (4)	10.00				
13-12	0 / 1238	-17.5	-17.5	0.25 (1)	10.00				
12-11	0 / 1094	-17.5	-17.5	0.23 (1)	10.00				
11-10	0 / 769	-17.5	-17.5	0.20 (1)	10.00				
10-9	0 / 0	-17.5	-17.5	0.14 (4)	10.00				

DESIGN CRITERIA

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

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.90")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.90")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.10")

CSI: TC=0.40 (2-3:1), BC=0.25 (12-13:1), WB=0.48 (5-11:1), SSI=0.21 (7-8:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

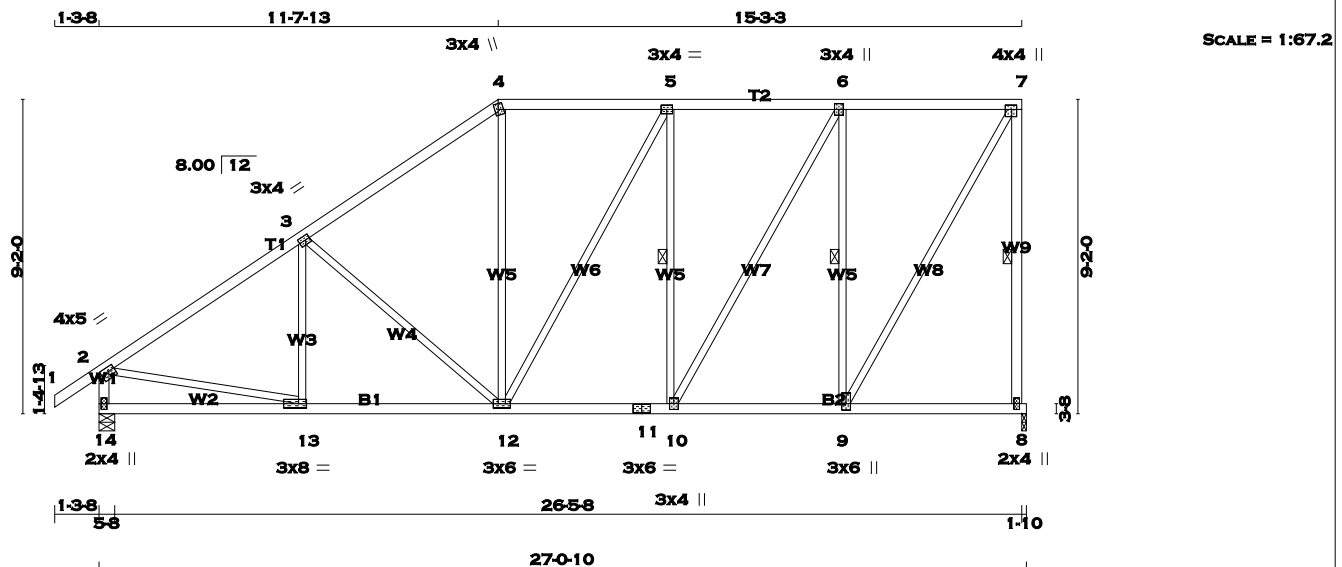
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (10) (INPUT = 0.90)
JSI METAL= 0.49 (2) (INPUT = 1.00)

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

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

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



DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG		
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
8	1277	0	1277	0	0	1-10	1-10		
14	1383	0	1383	0	0	5-8	5-8		

UNFACTORED REACTIONS							
JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
8	896	627/0	0/0	0/0	0/0	269/0	0/0
14	968	691/0	0/0	0/0	0/0	277/0	0/0

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

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

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-8. DBS = 12-0-0 . CBF = 93 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-10. DBS = 20-0-0 . CBF = 57 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 6-9. DBS = 14-0-0 . CBF = 85 LBS.

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

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

LOADING									
TOTAL LOAD CASES: (4)									
CHORDS					WEBS				
MEMB.	MAX. FACTORED		FACTORED		MEMB.	MAX. FACTORED		FACTORED	
	FORCE (LBS)		VERT. LOAD (PLF)	LC1 MAX (LC)		FORCE (LBS)		MAX (LC)	
FR-TO			FROM TO	UNBRAC LENGTH	FR-TO				
1-2	0 / 29		-77.4 -77.4	0.10 (1)	10.00	13-3	-113 / 64	0.05 (1)	
2-3	-1468 / 0		-77.4 -77.4	0.55 (1)	4.75	3-12	-388 / 0	0.47 (1)	
3-4	-1177 / 0		-77.4 -77.4	0.51 (1)	5.20	12-4	0 / 311	0.07 (1)	
4-5	-957 / 0		-77.4 -77.4	0.27 (1)	5.99	12-5	0 / 42	0.01 (1)	
5-6	-936 / 0		-77.4 -77.4	0.30 (1)	5.99	10-5	-455 / 0	0.25 (1)	
6-7	-634 / 0		-77.4 -77.4	0.29 (1)	6.25	10-6	0 / 614	0.14 (1)	
8-7	-1240 / 0		0.0 0.0	0.49 (1)	5.77	9-6	-973 / 0	0.53 (1)	
14-2	-1340 / 0		0.0 0.0	0.14 (1)	7.00	9-7	0 / 1249	0.28 (1)	
						2-13	0 / 1267	0.29 (1)	
14-13	0 / 0		-17.5 -17.5	0.15 (4)	10.00				
13-12	0 / 1246		-17.5 -17.5	0.27 (1)	10.00				
12-11	0 / 936		-17.5 -17.5	0.20 (1)	10.00				
11-10	0 / 936		-17.5 -17.5	0.20 (1)	10.00				
10-9	0 / 634		-17.5 -17.5	0.17 (1)	10.00				
9-8	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 (0.90")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.90")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.10")

CSI: TC=0.55 (2-3:1) , BC=0.27 (12-13:1) , WB=0.53 (6-9:1) , SSI=0.19 (6-7:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

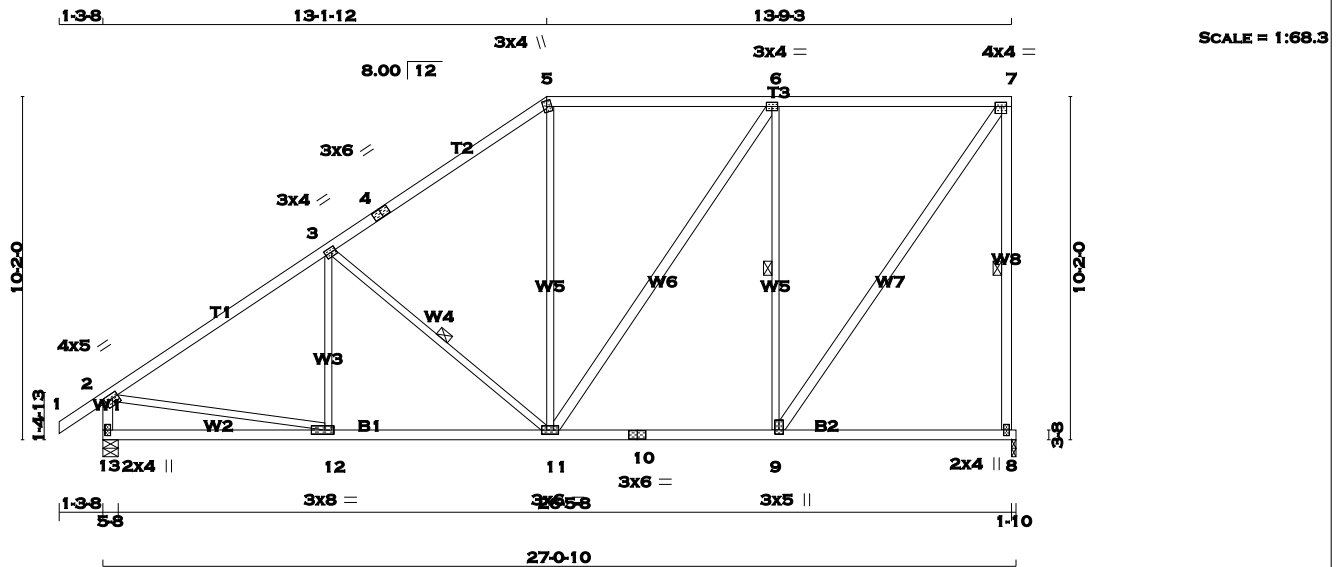
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (10) (INPUT = 0.90)
JSI METAL= 0.50 (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.





TOTAL WEIGHT = 137 lb [M]

LUMBER				DESCR.	
N. L. G. A. RULES					
CHORDS	SIZE	LUMBER			
1 - 4	2x4	DRY	No.2	SPF	
4 - 5	2x4	DRY	No.2	SPF	
5 - 7	2x4	DRY	No.2	SPF	
8 - 7	2x4	DRY	No.2	SPF	
13 - 2	2x4	DRY	No.2	SPF	
13 - 10	2x4	DRY	No.2	SPF	
10 - 8	2x4	DRY	No.2	SPF	
ALL WEBS	2x3	DRY	No.2	SPF	
EXCEPT					
11 - 6	2x4	DRY	No.2	SPF	
9 - 7	2x4	DRY	No.2	SPF	
DRY: SEASONED LUMBER.					

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMVW-t	MT20	4.0	5.0	1.50 2.00
3	TMVW-t	MT20	3.0	4.0	1.50 1.50
4	TS-t	MT20	3.0	6.0	
5	TTW+m	MT20	3.0	4.0	2.00 1.25
6	TMVW-t	MT20	3.0	4.0	
7	TMVW-t	MT20	4.0	4.0	1.50 1.75
8	BMV1+p	MT20	2.0	4.0	
9	BMVW+t	MT20	3.0	5.0	1.50 1.50
10	BS-t	MT20	3.0	6.0	
11	BMVW-t	MT20	3.0	6.0	
12	BMVW-t	MT20	3.0	8.0	1.50 3.25
13	BMV1+p	MT20	2.0	4.0	
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.					

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
8		1277	0	1277	0	0	1-10	1-10	
13		1383	0	1383	0	0	5-8	5-8	
UNFACTORED REACTIONS									
		1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
8		896	627 / 0	0 / 0	0 / 0	0 / 0	269 / 0	0 / 0	
13		968	691 / 0	0 / 0	0 / 0	0 / 0	277 / 0	0 / 0	

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.48 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-8. DBS = 12-0-0 . CBF = 92 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 3-11. DBS = 20-0-0 . CBF = 61 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 6-9. DBS = 16-0-0 . CBF = 89 LBS.

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

FR-TO		FROM	TO	LENGTH	FR-TO		FROM	TO	LENGTH
1-2	0 / 29	-77.4	-77.4	0.10 (1)	10.00	12-3	-72 / 89	0.04 (1)	
2-3	-1463 / 0	-77.4	-77.4	0.74 (1)	4.48	3-11	-488 / 0	0.25 (1)	
3-4	-1084 / 0	-77.4	-77.4	0.67 (1)	5.08	11-5	0 / 199	0.05 (4)	
4-5	-1084 / 0	-77.4	-77.4	0.67 (1)	5.08	11-6	0 / 270	0.04 (1)	
5-6	-874 / 0	-77.4	-77.4	0.68 (1)	5.37	9-6	-885 / 0	0.63 (1)	
6-7	-723 / 0	-77.4	-77.4	0.67 (1)	5.79	9-7	0 / 1252	0.20 (1)	
8-7	-1228 / 0	0.0	0.0	0.62 (1)	5.79	2-12	0 / 1262	0.28 (1)	
13-2	-1335 / 0	0.0	0.0	0.14 (1)	7.01				
13-12	0 / 0	-17.5	-17.5	0.19 (4)	10.00				
12-11	0 / 1246	-17.5	-17.5	0.30 (1)	10.00				
11-10	0 / 723	-17.5	-17.5	0.26 (4)	10.00				
10-9	0 / 723	-17.5	-17.5	0.26 (4)	10.00				
9-8	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

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.90")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.90")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.10")

CSI: TC=0.74 (2-3:1) , BC=0.30 (11-12:1) , WB=0.63 (6-9:1) , SSI=0.26 (6-7:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) 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.

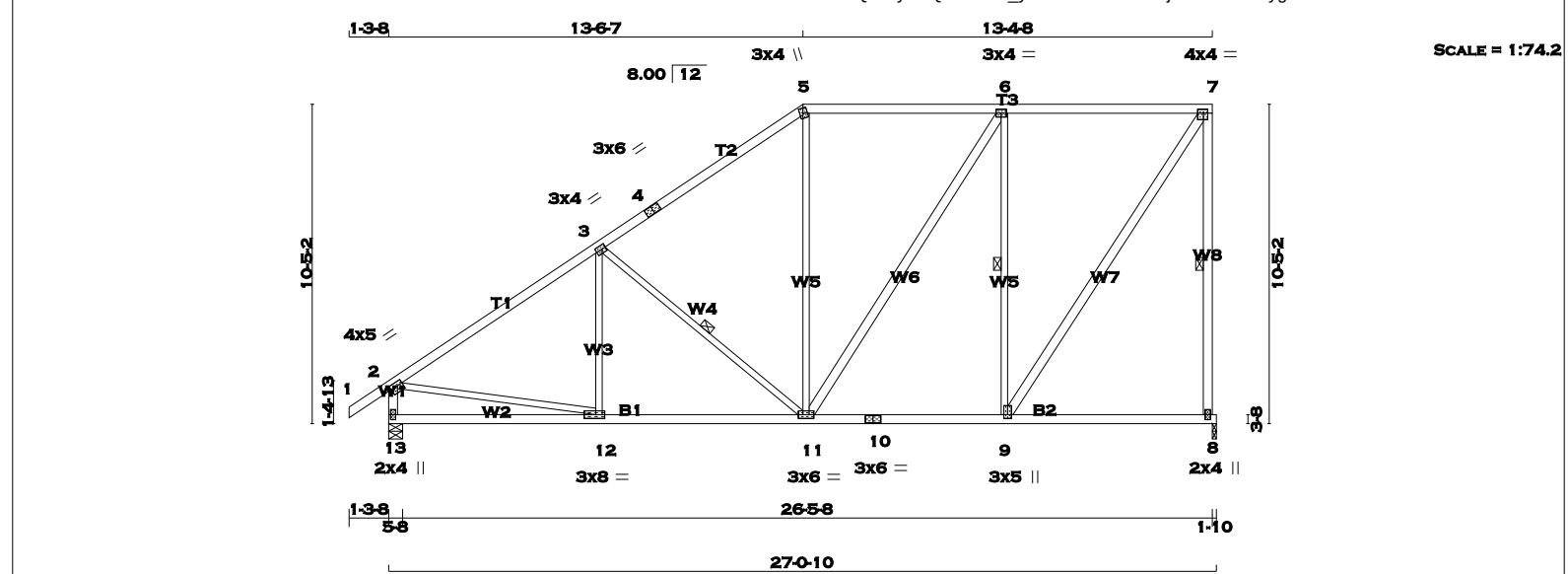
JSI GRIP= 0.89 (9) (INPUT = 0.90)
JSI METAL= 0.50 (2) (INPUT = 1.00)



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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.





TOTAL WEIGHT = 138 lb
[M][F]

LUMBER					
N. L. G. A. RULES					
CHORDS	SIZE		LUMBER		DESCR.
1 - 4	2x4	DRY	No.2		SPF
4 - 5	2x4	DRY	No.2		SPF
5 - 7	2x4	DRY	No.2		SPF
8 - 7	2x4	DRY	No.2		SPF
13- 2	2x4	DRY	No.2		SPF
13- 10	2x4	DRY	No.2		SPF
10- 8	2x4	DRY	No.2		SPF
ALL WEBS				2x3	DRY
EXCEPT				No.2	SPF
11- 6	2x4	DRY	No.2		SPF
9 - 7	2x4	DRY	No.2		SPF
DRY: SEASONED LUMBER.					

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
2	TMVW-t	MT20	4.0	5.0	1.50 2.00
3	TMVW-t	MT20	3.0	4.0	1.50 1.50
4	TS-t	MT20	3.0	6.0	
5	TTW+m	MT20	3.0	4.0	2.00 1.25
6	TMVW-t	MT20	3.0	4.0	
7	TMVW-t	MT20	4.0	4.0	1.50 1.75
8	BMV1+p	MT20	2.0	4.0	
9	BMVW+t	MT20	3.0	5.0	1.50 1.50
10	BS-t	MT20	3.0	6.0	
11	BMVW-t	MT20	3.0	6.0	
12	BMVW-t	MT20	3.0	8.0	1.50 3.50
13	BMV1+p	MT20	2.0	4.0	
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.					



DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
8		1277	0	1277	0	0	1-10	1-10	
13		1383	0	1383	0	0	5-8	5-8	
UNFACTORED REACTIONS									
		1ST LCASE COMBINED		MAX./MIN. SNOW		LIVE		PERM.LIVE	
JT		8		8		13		13	
8		896	627 / 0	0 / 0	0 / 0	0 / 0	0 / 0	269 / 0	0 / 0
13		968	691 / 0	0 / 0	0 / 0	0 / 0	0 / 0	277 / 0	0 / 0
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8, 13									

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.77 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-8. DBS = 12-0-0 . CBF = 92 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 3-11. DBS = 20-0-0 . CBF = 64 LBS.
1 - 2x3 SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF 6-9. DBS = 16-0-0 . 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)									
		CHORDS			WEBS				
		MAX. FACTORED		FACTORED		MAX. FACTORED		FACTORED	
MEMB.		FORCE (LBS)	VERT. LOAD	LC1 MAX	CSI (LC)	MEMB.	FORCE (LBS)	MAX	CSI (LC)
FR-TO			FROM TO			FR-TO			
1-2		0 / 29	-77.4	-77.4	0.10 (1)	10.00	12-3	-61 / 95	0.03 (1)
2-3		-1460 / 0	-77.4	-77.4	0.55 (1)	4.77	3-11	-514 / 0	0.28 (1)
3-4		-1059 / 0	-77.4	-77.4	0.50 (1)	5.45	11-5	0 / 184	0.04 (4)
4-5		-1059 / 0	-77.4	-77.4	0.50 (1)	5.45	11-6	0 / 301	0.05 (1)
5-6		-852 / 0	-77.4	-77.4	0.46 (1)	5.96	9-6	-896 / 0	0.68 (1)
6-7		-689 / 0	-77.4	-77.4	0.46 (1)	6.25	9-7	0 / 1238	0.20 (1)
8-7		-1229 / 0	0.0	0.0	0.66 (1)	5.79	2-12	0 / 1260	0.28 (1)
13-2		-1334 / 0	0.0	0.0	0.14 (1)	7.01			
13-12		0 / 0	-17.5	-17.5	0.20 (4)	10.00			
12-11		0 / 1244	-17.5	-17.5	0.30 (1)	10.00			
11-10		0 / 689	-17.5	-17.5	0.24 (4)	10.00			
10-9		0 / 689	-17.5	-17.5	0.24 (4)	10.00			
9-8		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 (0.90")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.90")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11")

CSI: TC=0.66 (7-8:1) , BC=0.30 (11-12:1) , WB=0.68 (6-9:1) , SSI=0.25 (6-7:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

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

PLATE PLACEMENT TOL. = 0.250 inches

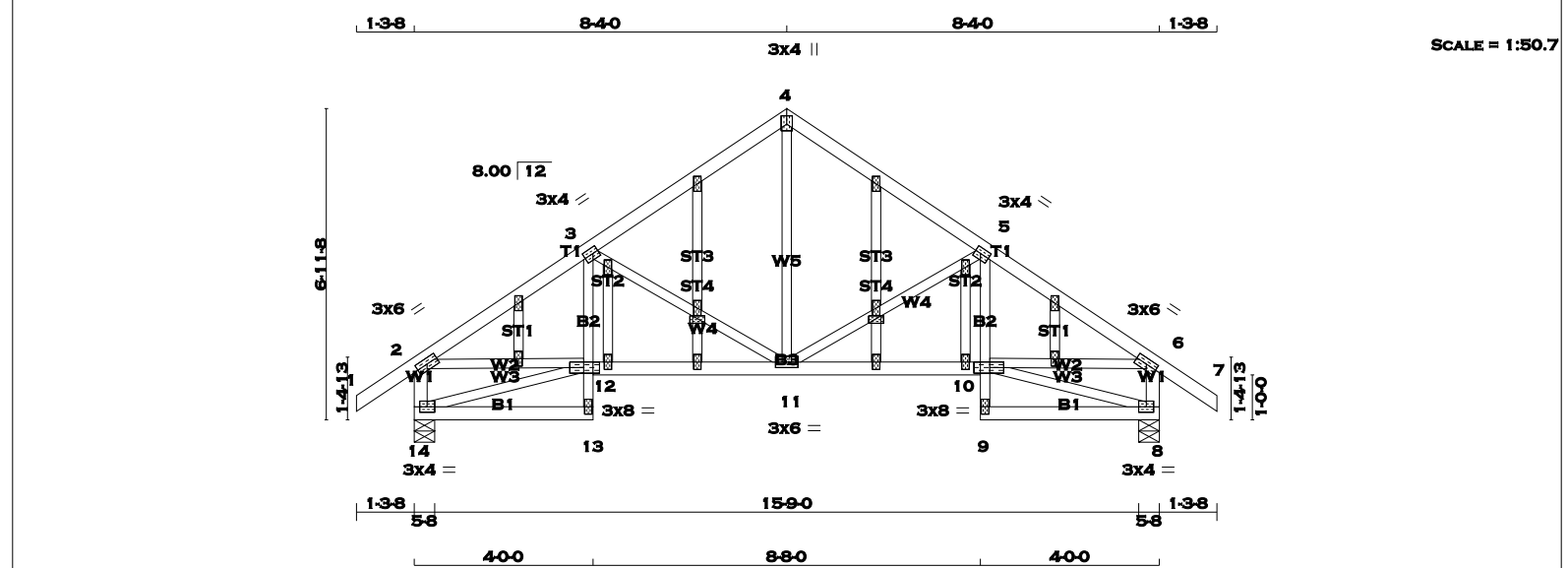
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (12) (INPUT = 0.90)
JSI METAL= 0.50 (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 = 90 lb	
LUMBER			DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY						[M][F]		

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.	BEARINGS				SPECIFIED LOADS:			
1 - 4	2x4	DRY	No.2	SPF	FACTORED				TOP CH. LL = 23.3 PSF			
4 - 7	2x4	DRY	No.2	SPF	GROSS REACTION				DL = 3.0 PSF			
14 - 2	2x4	DRY	No.2	SPF	DOWN				BOT CH. LL = 0.0 PSF			
8 - 6	2x4	DRY	No.2	SPF	UP				DL = 7.0 PSF			
14 - 13	2x4	DRY	No.2	SPF	DOWN				TOTAL LOAD = 33.3 PSF			
13 - 3	2x3	DRY	No.2	SPF	UP							
12 - 10	2x4	DRY	No.2	SPF	DOWN							
9 - 5	2x3	DRY	No.2	SPF	UP							
9 - 8	2x4	DRY	No.2	SPF	DOWN							

ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	UNFACTORED REACTIONS				SPACING = 24.0 IN. C/C			
ALL GABLE WEBS	2x3	DRY	No.2	SPF	1ST LCASE				THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010			
DRY: SEASONED LUMBER.					COMBINED				THIS DESIGN COMPLIES WITH:			
GABLE STUDS SPACED AT 2-0-0 OC.					SNOW				- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014			

PLATES (table is in inches)							LOADING										ALLOWABLE DEFL.(LL)= L/360 (0.56") CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03") ALLOWABLE DEFL.(TL)= L/360 (0.56") CALCULATED VERT. DEFL.(TL) = L/ 999 (0.06")						
JT	TYPE	PLATES	W	LEN	Y	X	TOTAL LOAD CASES: (4)				C H O R D S					W E B S							
							MAX. FACTORED		FACTORED			MAX. FACTORED											
							MEMB.	FORCE	VERT.	LOAD	LC1	MAX	MAX.	MEMB.	MAX.	FORCE	MAX						
							(LBS)		(PLF)			CSI (LC)	UNBRAC	(LBS)		CSI (LC)							
									FROM TO			LENGTH					FR-TO						
1-2							0 / 29		-77.4	-77.4	0.10 (1)	10.00	11-4		0 / 514	0.12 (1)							
2-3							-1157 / 0		-77.4	-77.4	0.18 (1)	5.73	11-5		-459 / 0	0.20 (1)							
3-4							-730 / 0		-77.4	-77.4	0.18 (1)	6.25	3-11		-459 / 0	0.20 (1)							
4-5							-730 / 0		-77.4	-77.4	0.18 (1)	6.25	2-12		0 / 980	0.22 (1)							
5-6							-1157 / 0		-77.4	-77.4	0.18 (1)	5.73	10-6		0 / 980	0.22 (1)							
6-7							0 / 29		-77.4	-77.4	0.10 (1)	10.00	14-12		-10 / 0	0.00 (1)							
14-2							-860 / 0		0.0	0.0	0.09 (1)	7.81	10-8		-10 / 0	0.00 (1)							
8-6							-860 / 0		0.0	0.0	0.09 (1)	7.81											
							14-13		0 / 9	-17.5	-17.5	0.08 (4)	10.00										
							13-12		0 / 38	0.0	0.0	0.04 (1)	10.00										
							12-3		0 / 101	0.0	0.0	0.05 (1)	10.00										
							12-11		0 / 985	-17.5	-17.5	0.21 (1)	10.00										
							11-10		0 / 985	-17.5	-17.5	0.21 (1)	10.00										
							9-10		0 / 38	0.0	0.0	0.04 (1)	10.00										
							10-5		0 / 101	0.0	0.0	0.05 (1)	10.00										
							9-8		0 / 9	-17.5	-17.5	0.08 (4)	10.00										
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.																	DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10						
A SIZE FOR SIZE SUBSTITUTION OF MITEK MII20 WITH TEE-LOK TL20 PLATES IS ALLOWED.																	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						

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.

CSF: TC=0.18 (2-3:1) , BC=0.21 (11-12:1) , WB=0.22 (2-12:1) , SS=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

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= 0.88 (11) (INPUT = 0.90)

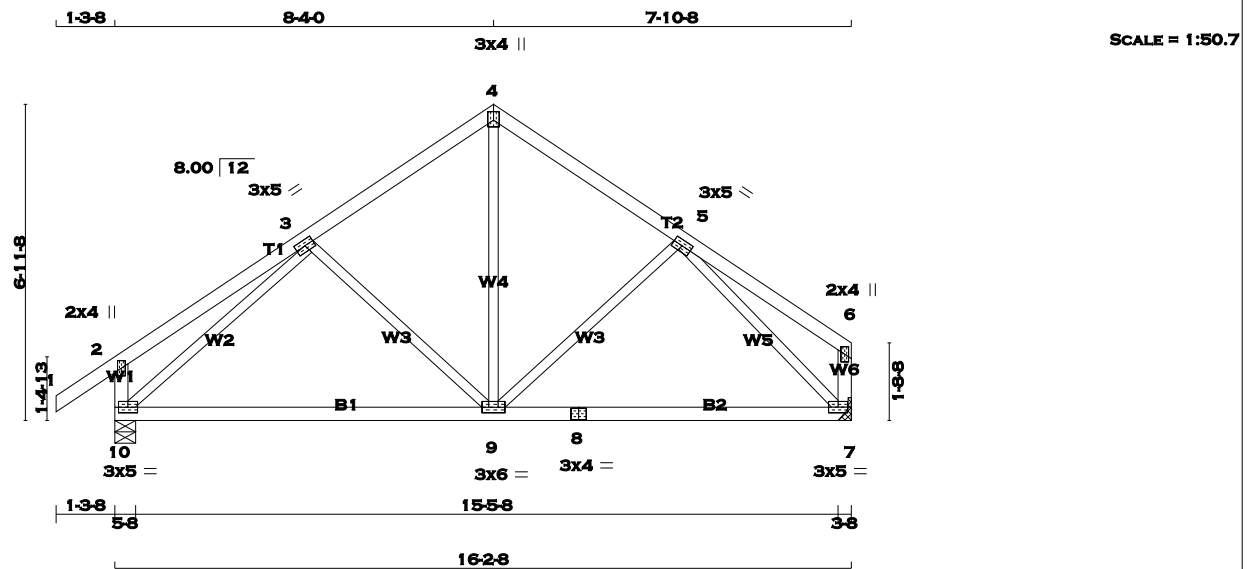
JSI METAL= 0.32 (6) (INPUT = 1.00)



LICENSED PROFESSIONAL ENGINEER
 P. M. TREVISAN
 100136551
 March 17th, 2017
 PROVINCE OF ONTARIO

**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 68 = 203 lb
[M][F]

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

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
3	TMWW-t	MT20	3.0	5.0		
4	TTW+p	MT20	3.0	4.0	2.25	1.50
5	TMWW-t	MT20	3.0	5.0		
6	TMV+p	MT20	2.0	4.0		
7	BMVW1-t	MT20	3.0	5.0		
8	BS-t	MT20	3.0	4.0		
9	BMWW-t	MT20	3.0	6.0		
10	BMVW1-t	MT20	3.0	5.0		

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

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

BEARINGS									
		FACTORED		MAXIMUM FACTORED			INPUT	REQRD	
GROSS REACTION		GROSS REACTION		GROSS REACTION			BRG	BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
10	875	0	875	0	0	5-8	5-8		
7	769	0	769	0	0	HANGER BY OTHERS			
							MIN. SEAT SIZE: 3-8		

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS					
10	612	441 / 0	0 / 0	0 / 0	0 / 0	170 / 0	0 / 0	0 / 0
7	540	377 / 0	0 / 0	0 / 0	0 / 0	162 / 0	0 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	FR-TO
1-2	0 / 29	-77.4	-77.4 0.10 (1)	3-9	-199 / 0	0.11 (1)	
2-3	0 / 21	-77.4	-77.4 0.22 (1)	9-4	0 / 401	0.09 (1)	
3-4	-609 / 0	-77.4	-77.4 0.17 (1)	9-5	-133 / 15	0.07 (1)	
4-5	-607 / 0	-77.4	-77.4 0.15 (1)	10-3	-867 / 0	0.46 (1)	
5-6	0 / 21	-77.4	-77.4 0.19 (1)	5-7	-848 / 0	0.39 (1)	
10-2	-229 / 0	0.0	0.0 0.02 (1)				
7-6	-105 / 0	0.0	0.0 0.01 (1)				
10-9	0 / 636	-17.5	-17.5 0.37 (4)				
9-8	0 / 588	-17.5	-17.5 0.37 (4)				
8-7	0 / 588	-17.5	-17.5 0.37 (4)				

DESIGN CRITERIA

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

SPACING = 24.0 IN./C/C

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.54")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.54")
CALCULATED VERT. DEFL.(TL) = L/999 (0.11")

CSI: TC=0.22 (2-3:1), BC=0.37 (9-10:4), WB=0.46 (3-10:1), 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.

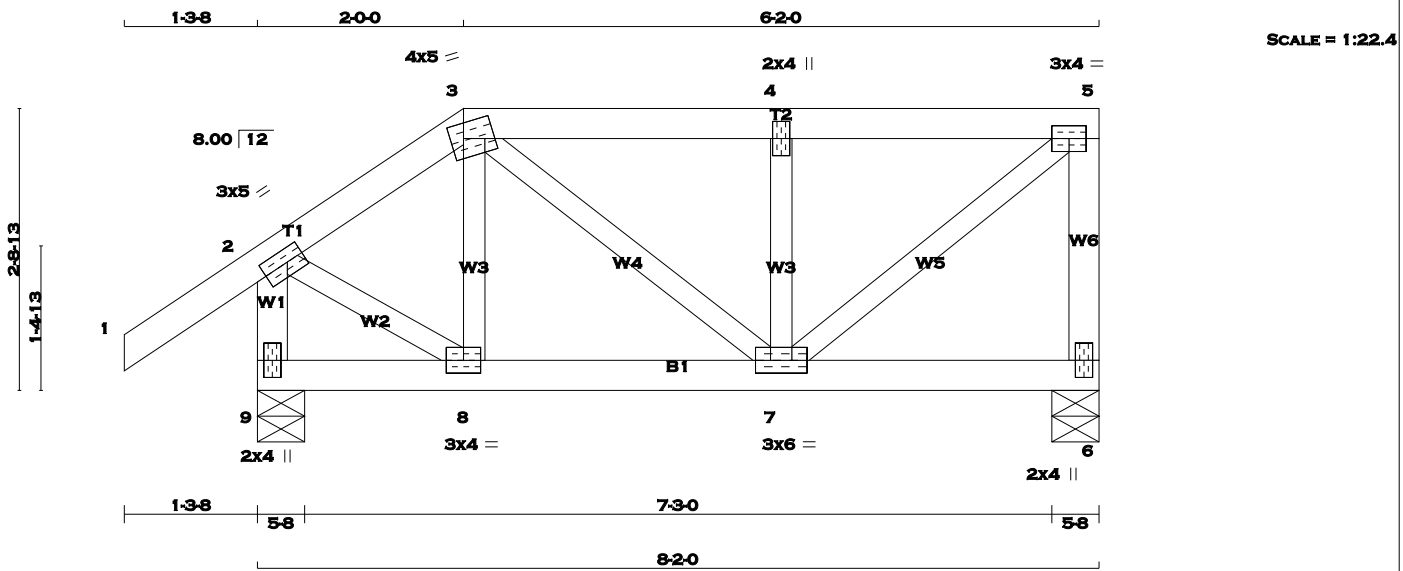
JSI GRIP= 0.90 (3) (INPUT = 0.90)
JSI METAL= 0.24 (3) (INPUT = 1.00)



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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 = 35 lb
[M]

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
1 - 3	2x4	DRY	No.2
3 - 5	2x4	DRY	No.2
6 - 5	2x4	DRY	No.2
9 - 2	2x4	DRY	No.2
9 - 6	2x4	DRY	No.2

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	5.0	1.50	2.00
3	TTWW-m	MT20	4.0	5.0	1.75	1.50
4	TMW+w	MT20	2.0	4.0		
5	TMVW-t	MT20	3.0	4.0		
6	BMV1+p	MT20	2.0	4.0		
7	BMWW-t	MT20	3.0	6.0		
8	BMWW-t	MT20	3.0	4.0		
9	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS			
FACTORED		MAXIMUM FACTORED	
GROSS REACTION		GROSS REACTION	
JT	VERT	HORZ	UPLIFT
6	387	0	0
9	494	0	0

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE
6	272	190 / 0	0 / 0
9	344	254 / 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.

LOADING

TOTAL LOAD CASES: (4)

CHORDS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)
FR-TO		FROM TO	
1-2	0 / 29	-77.4 -77.4	0.10 (1)
2-3	-301 / 0	-77.4 -77.4	0.05 (1)
3-4	-341 / 0	-77.4 -77.4	0.11 (1)
4-5	-341 / 0	-77.4 -77.4	0.11 (1)
6-5	-363 / 0	0.0 0.0	0.05 (1)
9-2	-480 / 0	0.0 0.0	0.05 (1)
9-8	0 / 0	-17.5 -17.5	0.02 (4)
8-7	0 / 246	-17.5 -17.5	0.06 (4)
7-6	0 / 0	-17.5 -17.5	0.04 (4)

DESIGN CRITERIA

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

SPACING = 24.0 IN./C

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

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

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

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

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

CSI: TC=0.11 (4-5:1), BC=0.06 (7-8:4), WB=0.10 (5-7:1), SSI=0.11 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
PLATE GRIP(DRY) 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= 0.13 (7) (INPUT = 1.00)



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JOB NAME

JOB DESC.

-LECCO RIDGE-BLOCK 346

DRWG NO.

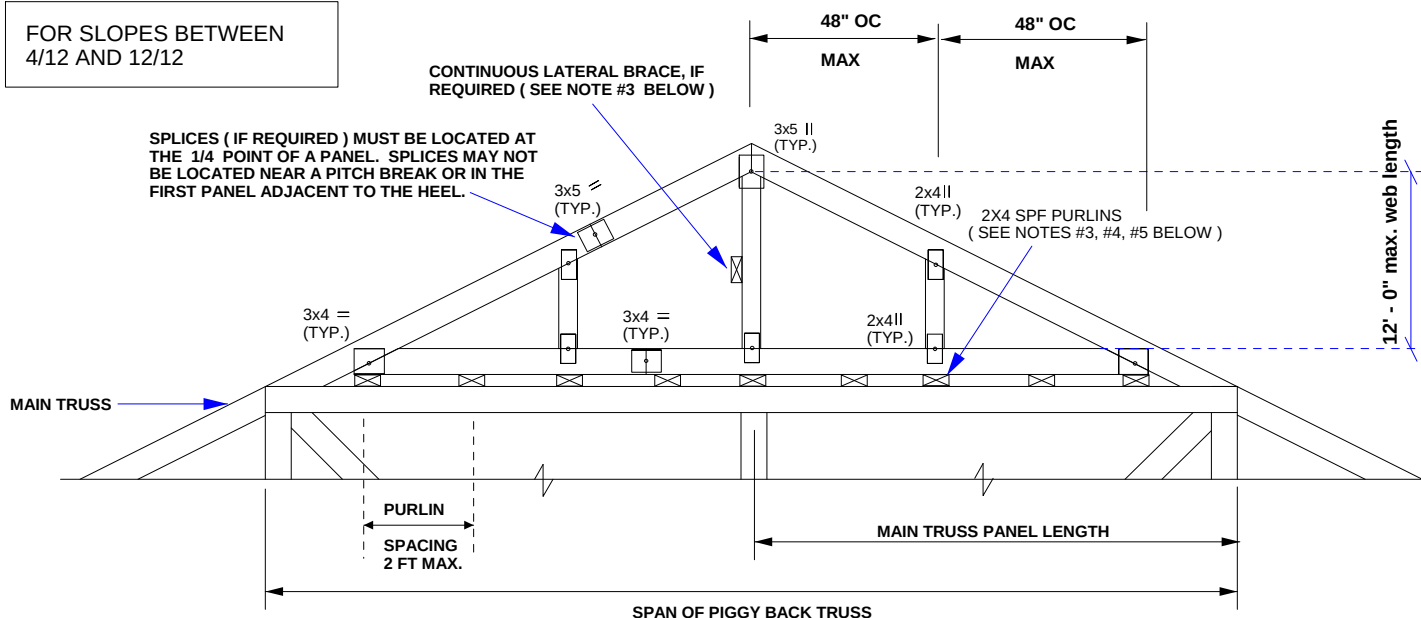
ENC JOB: PT0317-119

DETAILS

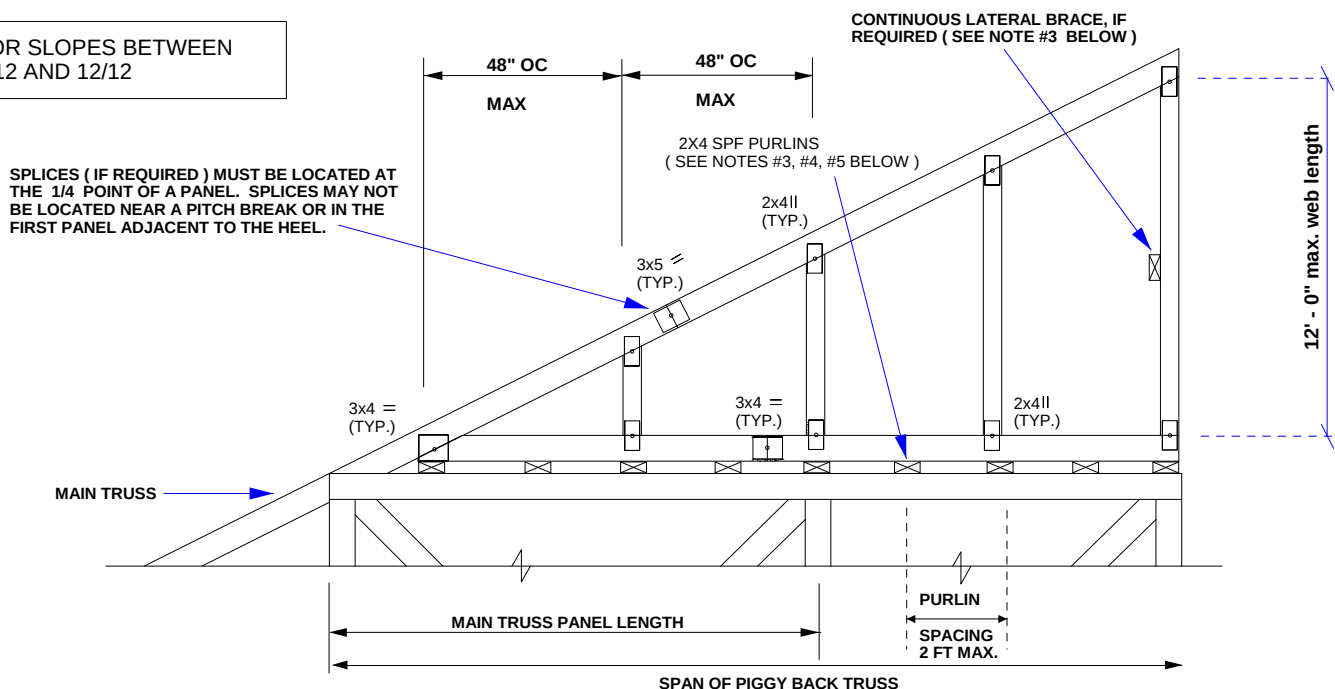
PIGGYBACK TRUSS DETAIL

B375791

FOR SLOPES BETWEEN
4/12 AND 12/12



FOR SLOPES BETWEEN
4/12 AND 12/12



THIS PIGGYBACK DETAIL IS VALID FOR THE
PROJECT DESIGN LOADS LISTED BELOW:

SPECIFIED LOADS:

TOP CHORD	LL =	60.0	PSF OR LESS
	DL =	6.0	PSF OR LESS
BOT CHORD	LL =	0	PSF
	DL =	7.0	PSF
TOTAL LOAD	=	73.0	PSF OR LESS

MAX. SPACING OF TRUSSES NOT TO EXCEED 24" C/C



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Notes:

- Piggyback truss lumber : Top chord = 2x4, Webs = 2x3 or 2x4, Bottom chord = 2x3 or 2x4. All chord/web lumber to be SPF or D. Fir species and No. 2 DRY or better grade.
- Maximum web length is not to exceed 12 ft.
- One continuous lateral brace required at $\frac{1}{2}$ length of any web that exceeds 6 ft in length. Minimum brace (or purlin) size shall be 1x4 as per NBCC 2010, section 9.23.14.11.4 For L-brace or Scab brace connection details see MiTek details B37337K, B37337P.
- Purlins supporting piggyback trusses, as well as overall roof bracing, are specified by building designer.
- Purlin spacing to be equal to main truss maximum unbraced top chord length (as shown on main truss MiTek engineering drawing), but not to exceed 24" c/c.
- This detail is not valid for projects that require a wind analysis to be incorporated into the truss design.
- Piggyback truss must be installed directly on top of each main truss.
- Maximum span of the piggyback is not to exceed 24'-0" (contact MiTek engineering dept. for spans > 24'-0").
- All plates specified are MiTek MT20, centered at each joint, and pressed into both faces of piggyback truss.
- This detail is not valid after April 30, 2017.

April 24, 2015

JOB NAME DETAILS

JOB DESC.

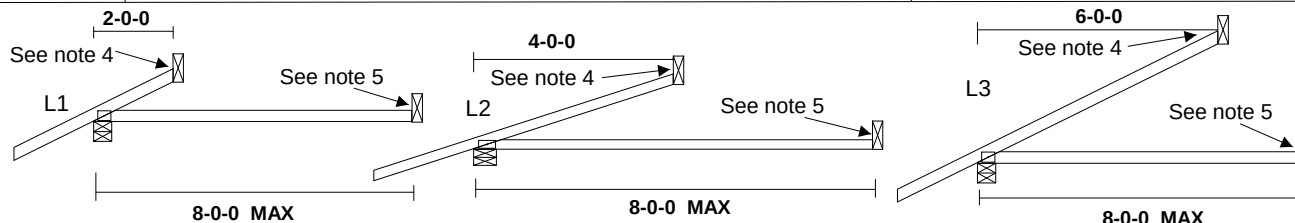
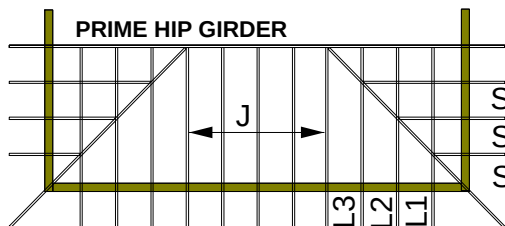
HIP END FRAMING

LEGOO RIDGE-BLOCK 346

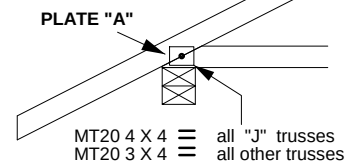
DRAWING NO.

B37579J

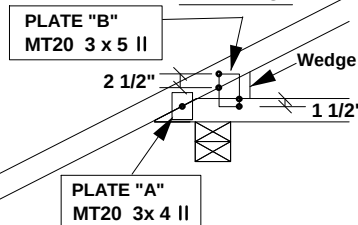
EMC JOB P10317-119



DETAIL "A"



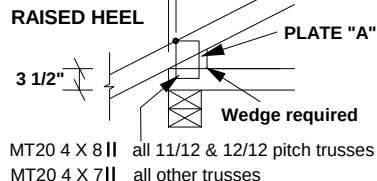
DETAIL "C"



CANTILEVER DETAIL "C"

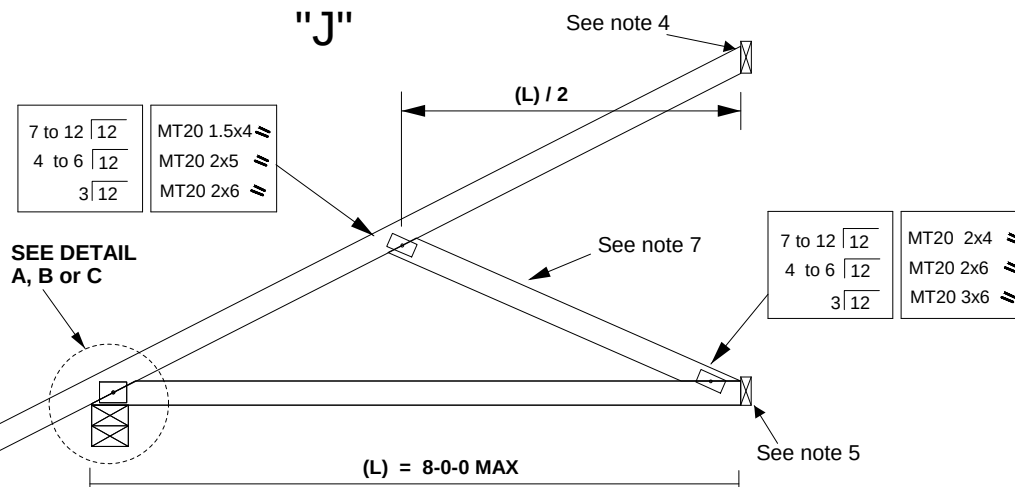
SLOPE	MAX CANTILEVER	PLATE "B"	WEDGE SIZE
3/12	17"	3 X 5	2 X 3
4/12	14"	3 X 5	2 X 3
5/12	12"	3 X 5	2 X 4
6/12	10"	3 X 5	2 X 4
7/12	9"	3 X 5	2 X 6
8/12	8.5"	3 X 5	2 X 6
9/12	8"	3 X 5	2 X 6
10/12	7.5"	3 X 5	2 X 6

DETAIL "B"



NOTES:

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



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April 24, 2015

STANDARD GABLE END DETAIL

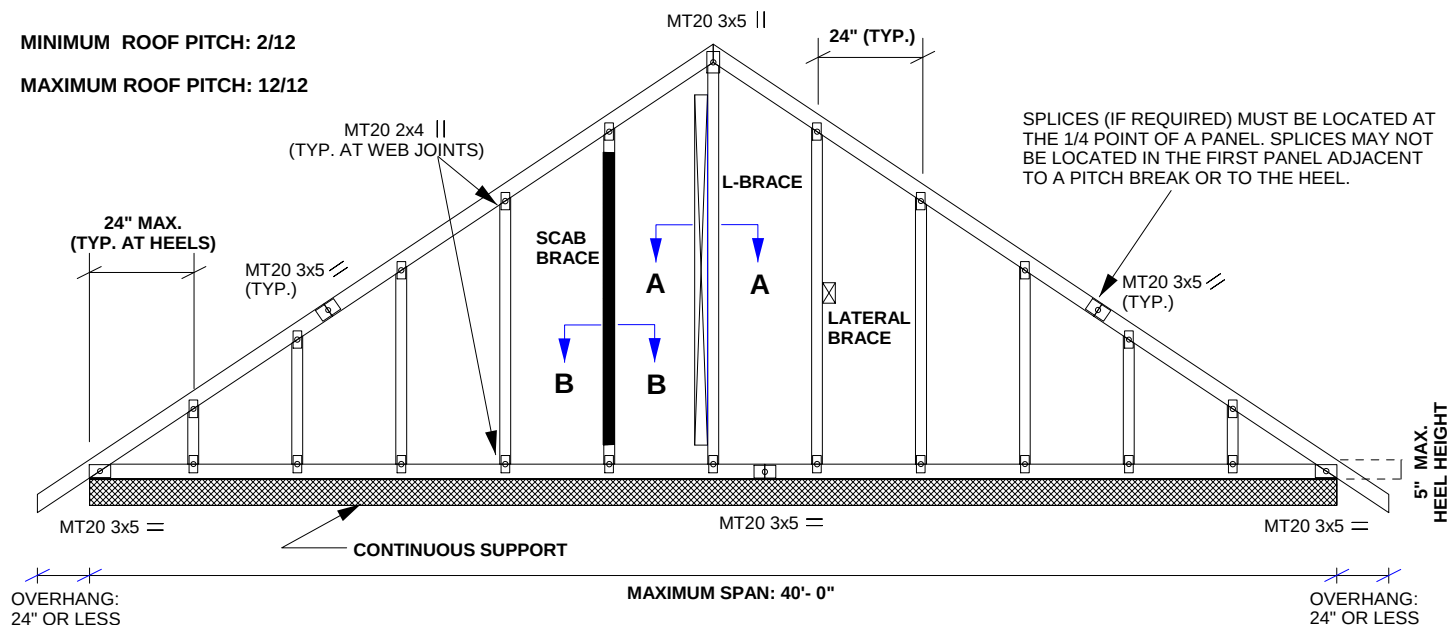
-LECCO RIDGE-BLOCK 346

DRAWING NO.: B37579K

ENR 108-PT0017-119

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

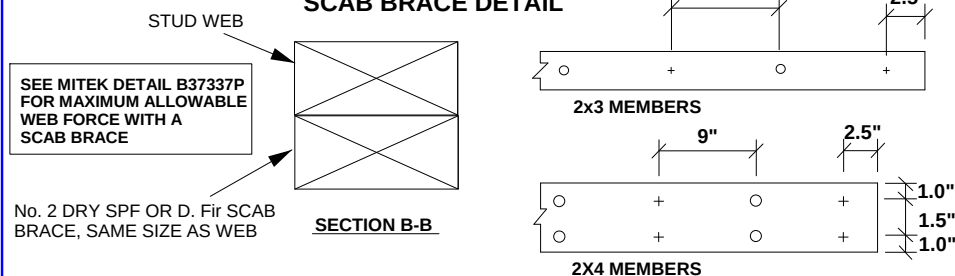
TOTAL LOAD = 73.0 PSF OR LESS

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:

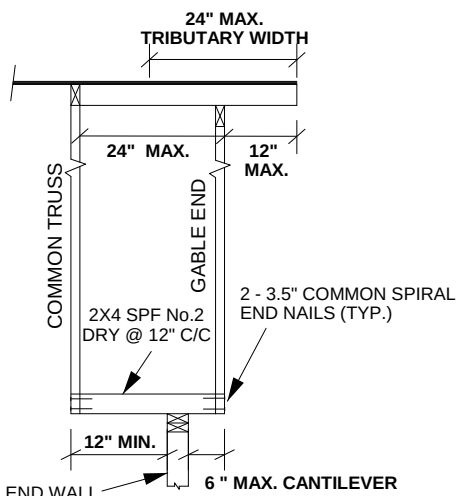
WEB LENGTH (L)	SCAB BRACE	L-BRACE	LATERAL BRACE
L < 6 FT.	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED
6 FT. < L < 12 FT.	REQUIRED	2x4 L-BRACE	1 LATERAL AT 1/2 LENGTH OF WEB

SCAB BRACE DETAIL

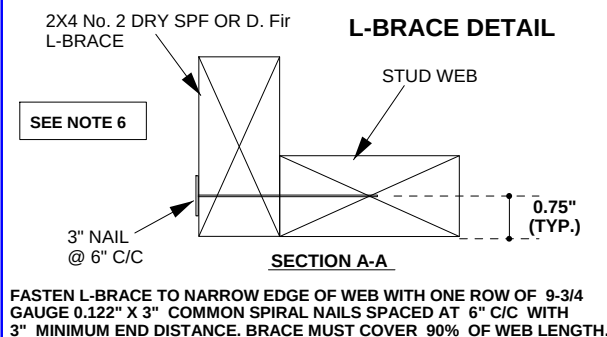


CANTILEVER DETAIL

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



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.

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