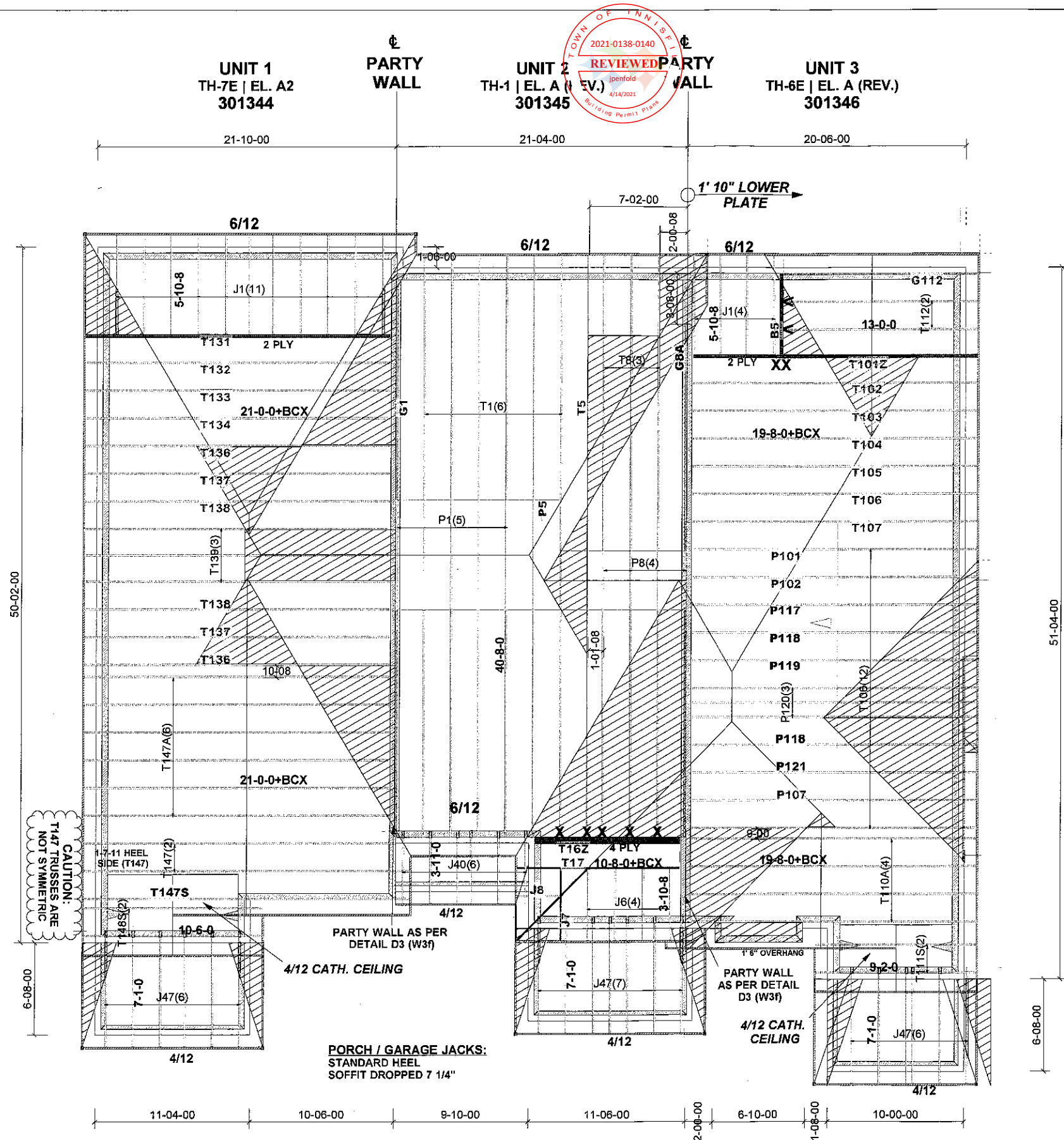
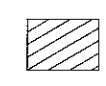




ASPHALT SHINGLES
12" FINISHED O.H.
5" CLADDING ALLOWANCE (BRICK)
2" CLADDING ALLOWANCE (STUCCO)
2x6 EXTERIOR WALLS
2x6 FASCIA BOARD
HEEL: R.T.M.C.

ALL CONV. FRAMING TO CONFORM
WITH PART 9 OF O.B.C. 2012 ROOF
RAFTERS THAT CROSS OVER OR
MEET TRUSSES TO BE 2X4 SPF #2 24"
O.C. WITH A VERT. POST TO THE TRUSS
UNDERNEATH AT EACH CROSS PT.
VERT. POST LONGER THAN 6'
TO HAVE LATERAL BRACING SO
THAT THE DIST. BETWEEN END PT.
& BETWEEN ROWS OF BRACING
DOES NOT EXCEED 6'

 **DENOTES:**
CONVENTIONAL
FRAMING

DESIGN CONFORMS WITH OBC 2012 / 2018
OCCUPANCY: RESIDENTIAL | PART: 9
GROUND SNOW LOAD $S_s=54.3\text{psf}$ $S_r=8.4\text{psf}$
DESIGN LOADS
TCDL (6psf)
BCLL (10.5psf)
BCDL (7psf)

HARDWARE:
LJS26DS - (V)
HGUS26 - (X)
HGUS26-2 - (XX)
TS22 x2 - (##)
TBE6 x2 - (&&)

BEAMS:
B5: 2 - 2x10 SPF #2

ALL ROOF SLOPES ARE 10/12
UNLESS OTHERWISE NOTED

T - 180523

m11,904



Job Track: 42067
Layout ID: 297086
Plan Log: 97625

Builder / Location:
BAYVIEW WELLINGTON / INNISFIL
Project: **ALCONA SHORES**
Date: 08/24/18 Designer: colinh

Model / Elevation:
BLOCK 147 / UNITS 1-3

Mitek ver 7.5.0

THESE DRAWINGS CONSTITUTE THE PROPERTY OF TAMARACK ROOF TRUSSES INC., SHALL NOT BE REPRODUCED, PUBLISHED, OR
REDISTRIBUTED IN ANY MANNER OR UTILIZED FOR ANY PURPOSE OTHER THAN THE MANUFACTURE OF TRUSSES BY
TAMARACK ROOF TRUSSES INC AND WILL BE RETRACTED BY TAMARACK ROOF TRUSSES INC IF UTILIZED FOR ANY OTHER PURPOSE.



Delivery Shiplist

DATE	08/24/18
SALES REP	Mario

Page 1 of 1
201-0138-0140
REVIEWED
jpenfold
4/14/2021
Building Permit Plans

JOB TRACK: 42067 LAYOUT ID: 301344 LOCATION: INNISFIL
 BUILDER: BAYVIEW WELLINGTON/ALCONA SHO SUB-BUILDER:
 MODEL: TH-7E ELEVATION: A2

ROOF TRUSSES

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

PROFILE	QTY	MARK TYPE	PITCH TC BC	SPAN	TRUSS HEIGHT	LUMBER		OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY: REMARKS
	PLY					TOP	BOT					
	1	T131 HIP GIRDER	10.00	21-00-00	04-01-04	2 X 4	2 X 6	01-03-08 00-00-00	01-07-11 00-05-08	203.62		
	2 Ply		0.00							128.00		
	1	T132 HIP	10.00 0.00	21-00-00	05-01-04	2 X 4	2 X 6	01-03-08 00-00-00	01-07-11 00-05-08	105.77 66.33		
	1	T133 HIP	10.00 0.00	21-00-00	06-01-04	2 X 4	2 X 6	01-03-08 00-00-00	01-07-11 00-05-08	109.41 69.33		
	1	T134 HIP	10.00 0.00	21-00-00	07-01-04	2 X 4	2 X 6	01-03-08 00-00-00	01-07-11 00-05-08	115.19 73.17		
	2	T136 HALF HIP	10.00 0.00	21-00-00	07-04-04	2 X 4	2 X 6	01-03-08 00-00-00	01-07-11 00-05-08	239.06 148.00		
	2	T137 HALF HIP	10.00 0.00	21-00-00	08-04-04	2 X 4	2 X 6	01-03-08 00-00-00	01-07-11 00-05-08	252.76 156.34		
	2	T138 HALF HIP	10.00 0.00	21-00-00	09-04-04	2 X 4	2 X 6	01-03-08 00-00-00	01-07-11 00-05-08	258.60 159.00		
	3	T139 HALF HIP	10.00 0.00	21-00-00	10-04-04	2 X 4	2 X 6	01-03-08 00-00-00	01-07-11 00-05-08	424.35 260.01		
	2	T147 COMMON	10.00 0.00	21-06-00	10-05-15	2 X 4	2 X 4	01-03-08 01-00-08	01-07-11 01-05-03	216.86 134.66		
	6	T147A COMMON	10.00 0.00	21-00-00	10-05-15	2 X 4	2 X 6	01-03-08 00-00-00	01-07-11 00-05-08	716.16 444.00		
	1	T147S ROOF	10.00 4.00	21-06-00	10-05-15	2 X 4	2 X 4	01-03-08 01-00-08	01-07-11 01-05-03	107.67 67.83		
	2	T148S SCISSOR	10.00 4.00	10-06-00	06-00-03	2 X 4	2 X 4	01-03-08 01-03-08	01-07-11 01-07-11	98.96 63.34		
	11	J1 JACK-OPEN	6.00 0.00	05-10-08	04-01-04	2 X 4	2 X 4	01-03-08 00-00-00	01-02-00 04-01-04	184.69 117.37		
	6	J47 JACK-OPEN	4.00 0.00	07-01-00	02-08-04	2 X 4	2 X 4	01-03-08 00-00-00	00-03-15 02-07-12	127.50 79.98		

TOTAL # TRUSS= 42.00

TOTAL BFT OF ALL TRUSSES=

1967.36 BFT. TOTAL WEIGHT OF ALL TRUSSES= 3160.60 LBS.



Delivery Shiplist

DATE	08/24/18
SALES REP	Mario

Page 1 of 1
1071-0138-0140
REVIEWED
jpenfold
4/14/2021
Building Permit Plans

JOB TRACK:42067 LAYOUT ID: 301345 LOCATION: INNISFIL
 BUILDER: BAYVIEW WELLINGTON/ALCONA SHO SUB-BUILDER:
 MODEL: TH-1 ELEVATION: A

ROOF TRUSSES

ROOF TRUSS SPACING:24.0 IN. O.C. (TYP.)

PROFILE	QTY	MARK TYPE	PITCH TC BC	SPAN	TRUSS HEIGHT	LUMBER		OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY: REMARKS
	PLY					TOP	BOT					
	6	T1 PIGGYBACK	6.00 0.00	40-08-00	09-04-03	2 X 4	2 X 6	01-03-08 01-03-08	01-02-00 01-02-00	1252.08 757.98		
	1	G1 PIGGYBACK	6.00 0.00	40-08-00	09-04-03	2 X 4	2 X 6	01-03-08 01-03-08	01-02-00 01-02-00	217.69 133.50		
	1	T5 HIP	6.00 0.00	40-08-00	07-08-03	2 X 4	2 X 6	01-03-08 01-03-08	01-02-00 01-02-00	206.59 127.83		
	3	T8 PIGGYBACK	6.00 0.00	40-08-00	09-04-03	2 X 4	2 X 6	01-03-08 00-00-00	01-02-00 01-02-00	624.27 387.00		
	1	G8A PIGGYBACK	6.00 0.00	37-00-00	09-04-03	2 X 4	2 X 6	00-00-00 00-00-00	01-02-00 01-02-00	189.64 117.17		
	1 4 Ply	T16Z HALF HIP	10.00 0.00	10-08-00	06-04-06	2 X 6	2 X 8	00-00-00 00-00-00	01-07-11 00-07-04	334.32 208.68		
	1	T17 HALF HIP	10.00 0.00	10-08-00	04-10-07	2 X 4	2 X 6	01-03-08 00-00-00	01-07-11 00-05-08	59.89 39.67		
	5	P1 PIGGYBACK	6.00 0.00	06-00-10	01-10-05	2 X 4	2 X 4	00-00-00 00-00-00	00-04-03 00-04-03	85.10 56.65		
	1	P5 PIGGYBACK	6.00 0.00	06-00-10	01-06-08	2 X 4	2 X 4	00-00-00 00-00-00	00-04-03 00-04-03	18.42 12.33		
	4	P8 PIGGYBACK	6.00 0.00	02-04-10	00-11-05	2 X 4	2 X 4	00-00-00 00-00-00	00-04-03 00-04-03	32.64 24.00		
	4	J6 JACK-OPEN	10.00 0.00	03-10-08	04-10-07	2 X 4	2 X 4	01-03-08 00-00-00	01-07-11 04-10-07	60.92 38.68		
	1	J7 JACK-OPEN	10.00 0.00	01-09-07	03-01-09	2 X 4	2 X 4	01-03-08 02-01-01	01-07-11 00-03-08	10.65 7.33		
	1	J8 JACK-OPEN	10.00 0.00	01-09-07	03-01-09	2 X 4	2 X 4	01-03-08 00-01-01	01-07-11 00-03-08	8.37 6.00		
	6	J40 JACK-OPEN	4.00 0.00	03-11-00	01-07-10	2 X 4	2 X 4	01-03-08 00-00-00	00-03-15 01-07-02	65.04 40.02		
	7	J47 JACK-OPEN	4.00 0.00	07-01-00	02-08-04	2 X 4	2 X 4	01-03-08 00-00-00	00-03-15 02-07-12	148.75 93.31		

TOTAL # TRUSS= 46.00

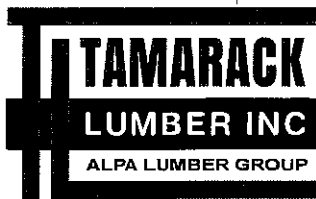
TOTAL BFT OF ALL TRUSSES=

2050.15 BFT. TOTAL WEIGHT OF ALL TRUSSES= 3314.37 LBS.

HARDWARE

QTY	ITEM TYPE	MODEL	LENGTH FT-IN-16
5	Hangers	HGUS26	

TOTAL # ITEMS= 5.00



Delivery Shiplist

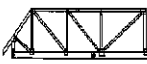
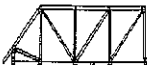
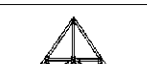
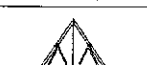
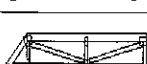
DATE	08/24/18
SALES REP	Mario

Page 1 of 2
001-0138-0140
REVIEWED
jpenfold
4/14/2021
Building Permit Plans

JOB TRACK: 42067 LAYOUT ID: 301346 LOCATION: INNISFIL
 BUILDER: BAYVIEW WELLINGTON/ALCONA SHO SUB-BUILDER:
 MODEL: TH-6E ELEVATION: A

ROOF TRUSSES

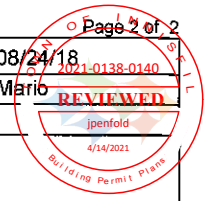
ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

PROFILE	QTY	MARK TYPE	PITCH TC BC	SPAN	TRUSS HEIGHT	LUMBER		OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY: REMARKS
	PLY					TOP	BOT					
	1 2 Ply	T101Z HALF HIP	10.00 0.00	19-08-00	04-01-04	2 X 4	2 X 6	01-03-08 00-00-00	01-07-11 00-05-08	191.40 120.00		
	1	T102 HALF HIP	10.00 0.00	19-08-00	05-01-04	2 X 4	2 X 6	01-03-08 00-00-00	01-07-11 00-05-08	98.39 62.33		
	1	T103 HALF HIP	10.00 0.00	19-08-00	06-01-04	2 X 4	2 X 6	01-03-08 00-00-00	01-07-11 00-05-08	106.72 67.00		
	1	T104 HALF HIP	10.00 0.00	19-08-00	07-01-04	2 X 4	2 X 6	01-03-08 00-00-00	01-07-11 00-05-08	113.32 71.83		
	1	T105 HALF HIP	10.00 0.00	19-08-00	08-01-04	2 X 4	2 X 6	01-03-08 00-00-00	01-07-11 00-05-08	109.23 69.00		
	13	T106 PIGGYBACK	10.00 0.00	19-08-00	09-01-04	2 X 4	2 X 6	01-03-08 00-00-00	01-07-11 00-05-08	1600.17 994.50		
	1	T107 HALF HIP	10.00 0.00	19-08-00	10-01-04	2 X 4	2 X 6	01-03-08 00-00-00	01-07-11 00-05-08	135.18 84.50		
	4	T110A COMMON	10.00 0.00	19-08-00	10-00-08	2 X 4	2 X 6	01-03-08 00-00-00	01-07-11 00-05-08	452.12 280.00		
	2	T111S SCISSOR	10.00 4.00	09-02-00	05-05-08	2 X 4	2 X 4	01-03-08 01-03-08	01-07-11 01-07-11	88.80 56.00		
	2	T112 COMMON	10.00 0.00	13-00-00	07-00-11	2 X 4	2 X 4	01-03-08 01-03-08	01-07-11 01-07-11	124.22 79.00		
	1	G112 COMMON	10.00 0.00	13-00-00	07-00-11	2 X 4	2 X 4	01-03-08 01-03-08	01-07-11 01-07-11	65.80 43.50		
	1	P101 PIGGYBACK	10.00 0.00	10-00-15	01-10-08	2 X 4	2 X 4	00-00-00 00-00-00	00-04-13 01-10-08	34.80 23.67		
	1	P102 PIGGYBACK	10.00 0.00	10-00-15	02-10-08	2 X 4	2 X 4	00-00-00 00-00-00	00-04-13 02-10-08	36.12 23.83		
	1	P107 PIGGYBACK	10.00 0.00	10-00-15	01-06-08	2 X 4	2 X 4	00-00-00 00-00-00	00-04-13 01-06-08	33.88 22.00		
	1	P117 PIGGYBACK	10.00 0.00	10-00-15	03-10-08	2 X 4	2 X 4	00-00-00 00-00-00	00-04-13 03-07-00	38.88 25.00		
	2	P118 PIGGYBACK	10.00 0.00	10-00-15	04-10-08	2 X 4	2 X 4	00-00-00 00-00-00	00-04-13 03-09-15	89.48 57.34		
	1	P119 PIGGYBACK	10.00 0.00	10-00-15	05-10-08	2 X 4	2 X 4	00-00-00 00-00-00	00-04-13 03-09-15	46.97 31.00		
	3	P120 PIGGYBACK	10.00 0.00	10-00-15	06-03-12	2 X 4	2 X 4	00-00-00 00-00-00	00-04-13 03-09-15	129.96 84.00		



Delivery Shiplist

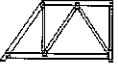
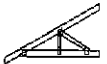
DATE	08/24/18
SALES REP	Mario



JOB TRACK:42067 LAYOUT ID: 301346 LOCATION: INNISFIL
 BUILDER: BAYVIEW WELLINGTON/ALCONA SHO SUB-BUILDER:
 MODEL: TH-6E ELEVATION: A

ROOF TRUSSES

ROOF TRUSS SPACING:24.0 IN. O.C. (TYP.)

PROFILE	QTY	MARK TYPE	PITCH TC BC	SPAN	TRUSS HEIGHT	LUMBER		OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY: REMARKS
	PLY					TOP	BOT					
	1	P121 PIGGYBACK	10.00 0.00	10-00-15	03-02-08	2 X 4	2 X 4	00-00-00 00-00-00	00-04-13 03-02-08	36.98 24.50		
	4	J1 JACK-OPEN	6.00 0.00	05-10-08	04-01-04	2 X 4	2 X 4	01-03-08 00-00-00	01-02-00 04-01-04	67.16 42.68		
	6	J47 JACK-OPEN	4.00 0.00	07-01-00	02-08-04	2 X 4	2 X 4	01-03-08 00-00-00	00-03-15 02-07-12	127.50 79.98		

TOTAL # TRUSS= 50.00

TOTAL BFT OF ALL TRUSSES=

2341.66 BFT. TOTAL WEIGHT OF ALL TRUSSES= 3727.08 LBS.

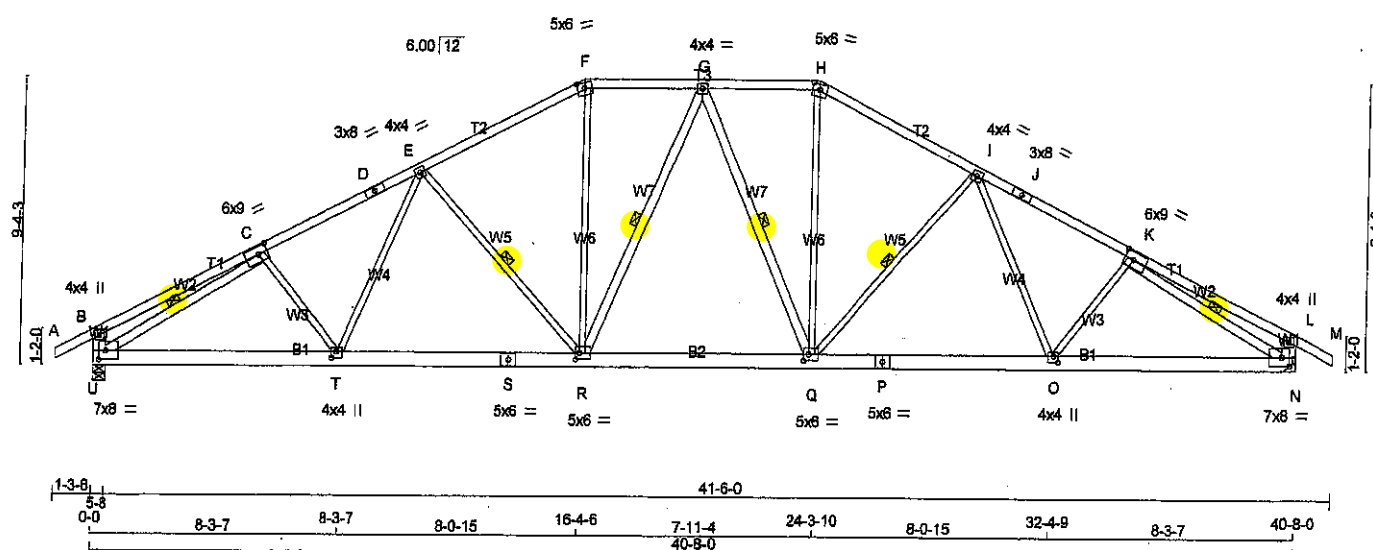
HARDWARE

QTY	ITEM TYPE	MODEL	LENGTH FT-IN-16
2	Hangers	LJS26DS	
1	Hangers	HGUS26-2	

TOTAL # ITEMS= 3.00



JOB NAME 297078	TRUSS NAME T1	QUANTITY 42	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
Tamarack Roof Truss, Burlington					
Version 8.210 S May 18 2018 Mitek Industries, Inc. Mon Aug 20 09:58:41 2018 Page 1					
ID: P5XmF1xy5318wCH47R2x3fzNvqf-zfUOMI_c0pASGdF62hXeycw0WkYm7RuHZVSSkym?22					
Scale = 1:71.8					



LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
H - J	2x4	DRY	No.2
J - M	2x4	DRY	No.2
U - B	2x6	DRY	No.2
N - L	2x6	DRY	No.2
U - S	2x6	DRY	No.2
S - P	2x6	DRY	No.2
P - N	2x6	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
R - G	2x4	DRY	No.2
G - Q	2x4	DRY	No.2
U - C	2x4	DRY	2100F 1.8E
K - N	2x4	DRY	2100F 1.8E

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN	Y X
B TMW+p	MT20	4.0	4.0	
C TMWW-t	MT20	6.0	8.0	3.00 3.75
D TS-t	MT20	3.0	8.0	
E G, I				
E TMWW-t	MT20	4.0	4.0	
F TTW-m	MT20	5.0	6.0	2.25 3.00
H TTW-m	MT20	5.0	6.0	2.25 3.00
J TS-t	MT20	3.0	8.0	
K TMWW-t	MT20	6.0	9.0	3.00 3.75
L TMW+p	MT20	4.0	4.0	
N BMVW-t	MT20	7.0	8.0	3.50 3.00
O BMVW-t	MT20	4.0	4.0	2.50 1.75
P BS-t	MT20	5.0	6.0	
Q BMVW-t	MT20	5.0	6.0	2.50 2.00
R BMVW-t	MT20	5.0	6.0	2.50 1.50
S BS-t	MT20	5.0	6.0	
T BMVW-t	MT20	4.0	4.0	2.50 1.75
U BMVW-t	MT20	7.0	8.0	3.50 3.00

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
U	3595	0	3595	0	0	5-8	5-8		
N	3595	0	3595	0	0	MECHANICAL			

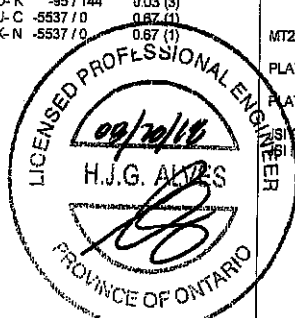
A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT N.

UNFACTORED REACTIONS							
		1ST LCASE		MAX./MIN. COMPONENT REACTIONS			
JT		COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
U	2630	1658 / 0	427 / 0	0 / 0	0 / 0	545 / 0	0 / 0
N	2630	1658 / 0	427 / 0	0 / 0	0 / 0	545 / 0	0 / 0

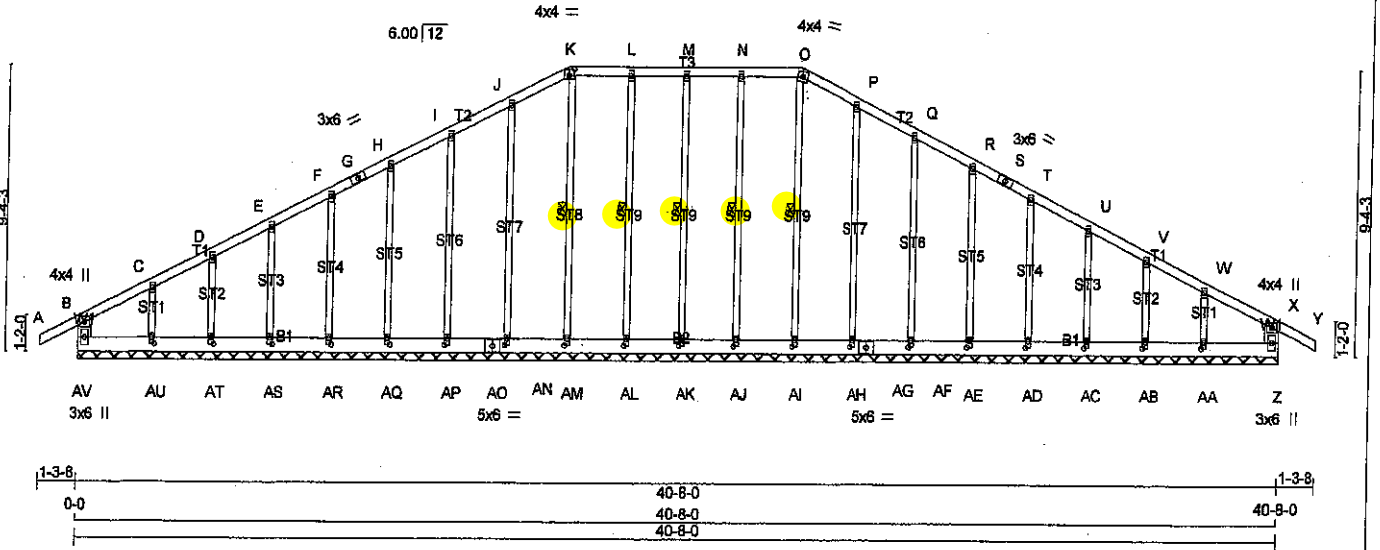
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) U

LOADING									
TOTAL LOAD CASES: (4)									
CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED HORZ. LOAD (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORZ. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED HORZ. LOAD (LBS)
FR-TO					FR-TO				
A-B	0 / 39	-129.7	-129.7	0.17 (1)	C-T	-95 / 144	0.03 (3)		
B-C	0 / 28	-129.7	-129.7	0.47 (1)	T-E	0 / 468	0.11 (2)		
C-D	-5144 / 0	-129.7	-129.7	0.88 (1)	E-R	-1025 / 0	0.48 (1)		
D-E	-5144 / 0	-129.7	-129.7	0.88 (1)	R-F	0 / 1378	0.31 (1)		
E-F	-4215 / 0	-129.7	-129.7	0.78 (1)	F-G	-332 / 0	0.16 (1)		
F-G	-3758 / 0	-129.7	-129.7	0.40 (1)	G-Q	-332 / 0	0.16 (1)		
G-H	-3758 / 0	-129.7	-129.7	0.40 (1)	Q-H	0 / 1378	0.31 (1)		
H-I	-4215 / 0	-129.7	-129.7	0.78 (1)	I-O	-1025 / 0	0.48 (1)		
I-J	-5144 / 0	-129.7	-129.7	0.88 (1)	O-K	0 / 468	0.11 (2)		
J-K	-5144 / 0	-129.7	-129.7	0.88 (1)	K-N	-95 / 144	0.03 (3)		
K-L	0 / 28	-129.7	-129.7	0.47 (1)	U-C	-5537 / 0	0.67 (1)		
L-M	0 / 39	-129.7	-129.7	0.17 (1)					
U-B	-488 / 0	0.0	0.0	0.03 (1)					
N-L	-468 / 0	0.0	0.0	0.03 (1)					
U-T	0 / 4661	-38.5	-38.5	0.72 (1)					
T-S	0 / 4426	-38.5	-38.5	0.65 (1)					
S-R	0 / 4426	-38.5	-38.5	0.65 (1)					
R-Q	0 / 3987	-38.5	-38.5	0.59 (1)					
Q-P	0 / 4426	-38.5	-38.5	0.65 (1)					
P-O	0 / 4426	-38.5	-38.5	0.65 (1)					
O-N	0 / 4661	-38.5	-38.5	0.72 (1)					

DESIGN CRITERIA	
SPECIFIED LOADS:	
TOP CH. LL	= 38.2 PSF
DL	= 6.0 PSF
BOT CH. LL	= 10.5 PSF
DL	= 7.0 PSF
TOTAL LOAD	= 61.7 PSF
SPACING = 24.0 IN. G/C	
LOADING IN FLAT SECTION BASED ON A SLOPE OF 8.00/12	
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015	
THIS DESIGN COMPLIES WITH:	
- PART 9 OF OBC 2012, OBC 2018	
- CSA 086-09, CSA 086-14	
- TPIC 2011, TPIC 2014	
(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD	
ALLOWABLE DEFL.(LL) = L/360 (1.36")	
CALCULATED VERT. DEFL.(LL) = L/999 (0.26")	
ALLOWABLE DEFL.(TL) = L/360 (1.36")	
CALCULATED VERT. DEFL.(TL) = L/999 (0.42")	
CSI: TC=0.88/1.00 (I-K:1), BC=0.72/1.00 (N-O:1), WB=0.67/1.00 (C-U:1), SS=0.30/1.00 (H-I:1)	
DOL LUMBER=1.00 NAIL=1.00 LBS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10	
COMPANION LIVE LOAD FACTOR = 1.00	
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) (PL) (PL)	
MAX MIN MAX MIN MAX MIN	
MT20 618 354 1687 788 1987 1656	
PLATE PLACEMENT TOL. = 0.250 inches	
PLATE ROTATION TOL. = 5.0 Deg.	
SI GRIP= 0.88 (R) (INPUT = 0.90)	
SI METAL= 0.91 (C) (INPUT = 1.00)	



DRWG NO. TAM **11805174**
STRUCTURAL
COMPONENT ONLY



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
AV - B	2x6	DRY	No.2	SPF
A - G	2x4	DRY	No.2	SPF
G - K	2x4	DRY	No.2	SPF
K - O	2x4	DRY	No.2	SPF
O - S	2x4	DRY	No.2	SPF
S - Y	2x4	DRY	No.2	SPF
Z - X	2x6	DRY	No.2	SPF
AV - AG	2x8	DRY	No.2	SPF
AO - AG	2x6	DRY	No.2	SPF
AG - Z	2x6	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
B TMV+p	MT20	4.0	4.0		
C, D, E, F, H, I, J, L, M, N, P, Q, R, T, U, V, W	MT20	2.0	4.0		
G TS-t	MT20	3.0	6.0		
K TTW-t	MT20	4.0	4.0	2.50	2.00
O TTW-m	MT20	4.0	4.0		
S TS-t	MT20	3.0	6.0		
X TMV+p	MT20	4.0	4.0		
Z BMV1+p	MT20	3.0	6.0		
AA, AB, AC, AD, AE, AF, AH, AI, AJ, AK, AL, AM, AN, AP, AQ, AR, AS, AT, AU	MT20	2.0	4.0	2.50	1.00
AG BS-t	MT20	5.0	6.0		
AO BS-t	MT20	5.0	6.0		
AV BMV1+p	MT20	3.0	6.0		

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.

1 LATERAL BRACE(S) AT 1/2 LENGTH OF O-AI, N-AJ, M-AK, L-AL, K-AM.

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)	VERT. LOAD LC1 (PLF)	MAX. CS1 (LC)	MAX. UNBRAC. LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)
FR-TO					FR-TO		
AV-B	-367 / 0	0.0	0.0	0.02 (1)	7.81	AI-O	-253 / 0
A-B	0 / 39	-129.7	-129.7	0.17 (1)	10.00	AJ-N	-259 / 0
B-C	-68 / 0	-129.7	-129.7	0.09 (1)	6.25	AK-M	-235 / 0
C-D	-54 / 0	-129.7	-129.7	0.07 (1)	6.25	AL-L	-259 / 0
D-E	-45 / 0	-129.7	-129.7	0.06 (1)	6.25	AM-K	-253 / 0
E-F	-41 / 0	-129.7	-129.7	0.06 (1)	6.25	AN-J	-253 / 0
F-G	-37 / 0	-129.7	-129.7	0.06 (1)	6.25	AP-I	-259 / 0
G-H	-37 / 0	-129.7	-129.7	0.06 (1)	6.25	AQ-H	-256 / 0
H-I	-34 / 0	-129.7	-129.7	0.06 (1)	6.25	AR-F	-257 / 0
I-J	-32 / 0	-129.7	-129.7	0.06 (1)	6.25	AS-E	-259 / 0
J-K	-28 / 0	-129.7	-129.7	0.06 (1)	6.25	AT-D	-250 / 0
K-L	-23 / 0	-129.7	-129.7	0.06 (1)	6.25	AU-C	-279 / 0
L-M	-23 / 0	-129.7	-129.7	0.06 (1)	6.25	AH-P	-253 / 0
M-N	-23 / 0	-129.7	-129.7	0.06 (1)	6.25	AF-Q	-259 / 0
N-O	-23 / 0	-129.7	-129.7	0.06 (1)	6.25	AE-R	-258 / 0
O-P	-28 / 0	-129.7	-129.7	0.06 (1)	6.25	AD-T	-257 / 0
P-Q	-32 / 0	-129.7	-129.7	0.06 (1)	6.25	AC-U	-259 / 0
Q-R	-34 / 0	-129.7	-129.7	0.06 (1)	6.25	AB-V	-250 / 0
R-S	-37 / 0	-129.7	-129.7	0.06 (1)	6.25	AA-W	-279 / 0
S-T	-37 / 0	-129.7	-129.7	0.06 (1)	6.25		
T-U	-41 / 0	-129.7	-129.7	0.06 (1)	6.25		
U-V	-45 / 0	-129.7	-129.7	0.06 (1)	6.25		
V-W	-54 / 0	-129.7	-129.7	0.07 (1)	6.25		
W-X	-68 / 0	-129.7	-129.7	0.09 (1)	6.25		
X-Y	0 / 39	-129.7	-129.7	0.17 (1)	10.00		
Z-X	-367 / 0	0.0	0.0	0.02 (1)	7.81		
AV-AU	0 / 56	-38.5	-38.5	0.02 (1)	10.00		
AU-AT	0 / 46	-38.5	-38.5	0.02 (2)	10.00		
AT-AS	0 / 41	-38.5	-38.5	0.01 (2)	10.00		
AS-AR	0 / 37	-38.5	-38.5	0.01 (2)	10.00		
AR-AQ	0 / 33	-38.5	-38.5	0.01 (2)	10.00		
AQ-AP	0 / 31	-38.5	-38.5	0.01 (2)	10.00		
AP-AO	0 / 28	-38.5	-38.5	0.01 (2)	10.00		
AO-AN	0 / 28	-38.5	-38.5	0.01 (2)	10.00		
AN-AM	0 / 26	-38.5	-38.5	0.01 (2)	10.00		
AM-AL	0 / 23	-38.5	-38.5	0.01 (2)	10.00		
AL-AK	0 / 23	-38.5	-38.5	0.01 (2)	10.00		
AK-AJ	0 / 23	-38.5	-38.5	0.01 (2)	10.00		
AJ-AI	0 / 23	-38.5	-38.5	0.01 (2)	10.00		
AI-AH	0 / 26	-38.5	-38.5	0.01 (2)	10.00		
AH-AG	0 / 28	-38.5	-38.5	0.01 (2)	10.00		
AG-AF	0 / 28	-38.5	-38.5	0.01 (2)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 36.2 PSF

DL = 8.0 PSF

BOT CH. LL = 10.5 PSF

DL = 7.0 PSF

TOTAL LOAD = 61.7 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, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, OBC 2018
- CSA 088-09, CSA 086-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CS1: TC=0.17/1.00 (X-Y:1), BC=0.02/1.00 (Z-AA:1), VB=0.34/1.00 (J-AN:1), SS=0.12/1.00 (X-Y: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 = 1.00

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 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.60 (O) (INPUT = 0.90)

JSI METAL= 0.12 (W) (INPUT = 1.00)



DWG NO. TAM 71005165

STRUCTURAL COMPONENT ONLY 1/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297078	G1	8	1	TRUSS DESC.	

Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2018 MITek Industries, Inc. Mon Aug 20 16:48:49 2018 Page 2

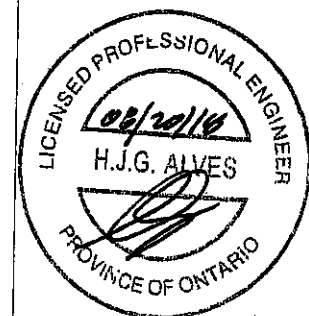
ID:P5XmF1xy53l8wCH47R2x3fzNvgf-pgTDxN7hy8B1rBPQWwZnc7QqVUEBL5Yo1m80ym7ke



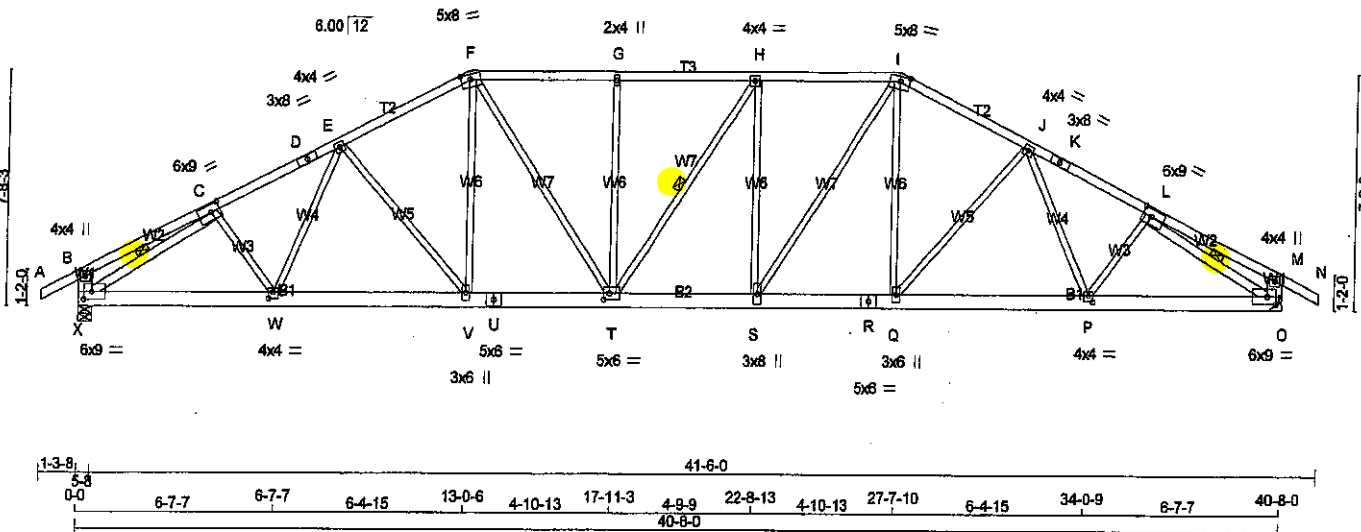
LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)
FR-TO		FROM	TO	UNBRAC		LENGTH	FR-TO
AF-AE	0 / 31	-38.5	-38.5 0.01 (2)			10.00	
AE-AD	0 / 33	-38.5	-38.5 0.01 (2)			10.00	
AD-AC	0 / 37	-38.5	-38.5 0.01 (2)			10.00	
AC-AB	0 / 41	-38.5	-38.5 0.01 (2)			10.00	
AB-AA	0 / 46	-38.5	-38.5 0.02 (2)			10.00	
AA-Z	0 / 56	-38.5	-38.5 0.02 (1)			10.00	



DWG NO. TAM **T1805165**
STRUCTURAL
COMPONENT ONLY **3/2**



LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4 DRY	No.2	SPF		
D - F	2x4 DRY	No.2	SPF		
F - I	2x4 DRY	No.2	SPF		
I - K	2x4 DRY	No.2	SPF		
K - N	2x4 DRY	No.2	SPF		
N - B	2x6 DRY	No.2	SPF		
O - M	2x6 DRY	No.2	SPF		
U - U	2x6 DRY	No.2	SPF		
X - R	2x6 DRY	No.2	SPF		
R - O	2x6 DRY	No.2	SPF		
ALL WEBS	2x3 DRY	No.2	SPF		
EXCEPT					
X - C	2x4 DRY	No.2	SPF		
L - O	2x4 DRY	No.2	SPF		

DRY: SEASONED LUMBER.

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	4.0	4.0		
C	TMVW-t	MT20	6.0	9.0	3.00	3.75
D	TS-t	MT20	3.0	8.0		
E, H, J						
E	TMVW-t	MT20	4.0	4.0		
F	TTVW-m	MT20	5.0	8.0	2.00	3.75
G	TMVW-w	MT20	2.0	4.0		
I	TTVW-m	MT20	5.0	8.0	2.00	3.75
K	TS-t	MT20	3.0	8.0		
L	TMVW-t	MT20	6.0	9.0	3.00	3.75
M	TMV+p	MT20	4.0	4.0		
O	BMVW-t	MT20	6.0	9.0	3.00	3.25
P	BMVW-t	MT20	4.0	4.0	2.50	1.75
Q	BMVW-t	MT20	3.0	6.0		
R	BS-t	MT20	5.0	6.0		
S	BMVW-t	MT20	3.0	6.0		
T	BMVW-t	MT20	5.0	6.0	2.50	2.00
U	BS-t	MT20	5.0	6.0		
V	BMVW-t	MT20	3.0	6.0		
W	BMVW-t	MT20	4.0	4.0	2.50	1.75
X	BMVW-t	MT20	6.0	9.0	3.00	3.25

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	DOWN	UP	IN-SX
X	3595	0	0	5-8
O	3595	0	0	MECHANICAL

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT O.

UNFACTORED REACTIONS

1ST LCASE	MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
X	2630	1658 / 0	427 / 0	0 / 0	0 / 0	545 / 0	0 / 0
O	2630	1658 / 0	427 / 0	0 / 0	0 / 0	545 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.66 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 LATERAL BRACE(S) AT 1/2 LENGTH OF H-T, C-X, L-O.

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. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)
FR-TO									
A-B	0 / 39	-129.7	-129.7	0.17 (1)	10.00	C-W	0 / 224	0.05 (2)	
B-C	0 / 20	-129.7	-129.7	0.30 (1)	10.00	W-E	0 / 198	0.05 (3)	
C-D	-5168 / 0	-129.7	-129.7	0.81 (1)	2.66	E-F	-653 / 0	0.55 (1)	
D-E	-5168 / 0	-129.7	-129.7	0.81 (1)	2.66	F-G	0 / 753	0.17 (1)	
E-F	-4675 / 0	-129.7	-129.7	0.57 (1)	2.83	G-H	0 / 1005	0.23 (1)	
F-G	-4675 / 0	-129.7	-129.7	0.65 (1)	2.70	H-I	-576 / 0	0.69 (1)	
G-H	-4728 / 0	-129.7	-129.7	0.81 (1)	2.75	I-J	-15 / 0	0.01 (1)	
H-I	-4736 / 0	-129.7	-129.7	0.85 (1)	2.70	J-K	-671 / 0	0.69 (1)	
I-J	-4674 / 0	-129.7	-129.7	0.57 (1)	2.83	K-L	0 / 1022	0.23 (1)	
J-K	-5169 / 0	-129.7	-129.7	0.61 (1)	2.68	L-M	0 / 741	0.17 (1)	
K-L	-5169 / 0	-129.7	-129.7	0.61 (1)	2.68	M-N	-654 / 0	0.55 (1)	
L-M	0 / 20	-129.7	-129.7	0.30 (1)	10.00	N-O	0 / 198	0.05 (3)	
M-N	0 / 39	-129.7	-129.7	0.17 (1)	10.00	O-P	0 / 224	0.05 (2)	
X-B	-415 / 0	0.0	0.0	0.03 (1)	7.81	X-C	-5456 / 0	0.81 (1)	
O-M	-415 / 0	0.0	0.0	0.03 (1)	7.81	L-O	-5457 / 0	0.81 (1)	
X-W	0 / 4518	-38.5	-38.5	0.66 (1)	10.00				
W-V	0 / 4598	-38.5	-38.5	0.63 (1)	10.00				
V-U	0 / 4168	-38.5	-38.5	0.58 (1)	10.00				
U-T	0 / 4168	-38.5	-38.5	0.58 (1)	10.00				
T-S	0 / 4736	-38.5	-38.5	0.82 (1)	10.00				
S-R	0 / 4155	-38.5	-38.5	0.57 (1)	10.00				
R-Q	0 / 4165	-38.5	-38.5	0.57 (1)	10.00				
Q-P	0 / 4587	-38.5	-38.5	0.63 (1)	10.00				
P-O	0 / 4518	-38.5	-38.5	0.66 (1)	10.00				

TOTAL WEIGHT = 2 X 207 = 413 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 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, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBC 2012, NBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (1.36")
CALCULATED VERT. DEFL. (LL) = L/999 (0.30")
ALLOWABLE DEFL. (TL) = L/360 (1.36")
CALCULATED VERT. DEFL. (TL) = L/999 (0.48")

CSI: TC=0.85/1.00 (F-G-1), BC=0.66/1.00 (W-X-1), WB=0.81/1.00 (L-O-1), SS=0.29/1.00 (H-I-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 = 1.00

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 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

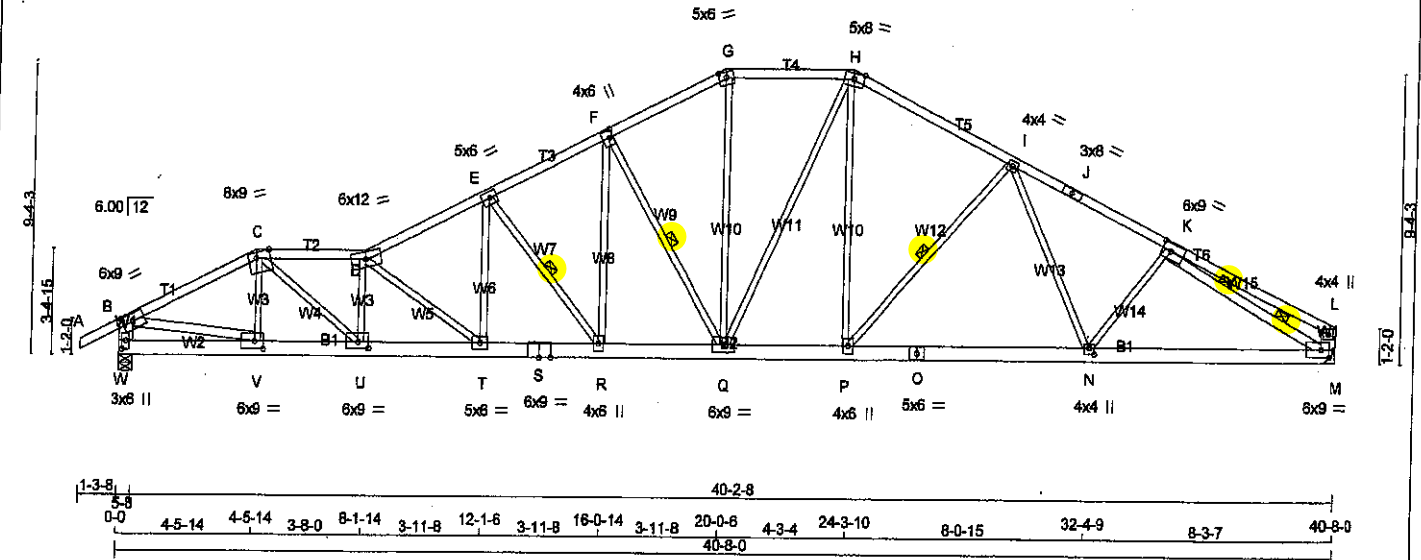
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.89 (I) (INPUT = 0.90)
JSI METAL= 0.91 (L) (INPUT = 1.00)

ENGINEERED BY: H.J.G. ALVES
PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO



JOB NAME 297086	TRUSS NAME T8	QUANTITY 3	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
Tamarack Roof Truss, Burlington					Version 8.210 S May 18 2018 Mitek Industries, Inc. Tue Aug 21 10:08:22 2018 Page 1
ID: L1G91OvLg9V7xauJnepyFzNpsX-hMjom7efdvA8Nd136guQUbM65tS2thKXb5chrylgKd					
-1-3-8 0-0 4-5-14 4-5-14 3-8-0 8-1-14 3-11-8 12-1-6 3-11-8 16-0-14 3-11-8 20-0-6 4-3-4 24-3-10 5-4-10 29-8-4 5-4-10 35-0-14 5-7-2 40-8-0					Scale = 1:7.12

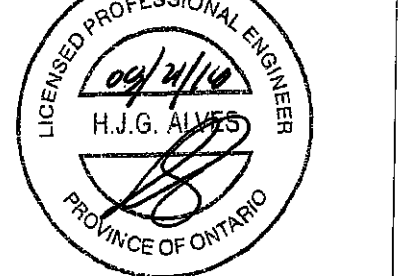


LUMBER			
N.L.G.A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2
C - D	2x4	DRY	No.2
D - G	2x4	DRY	No.2
G - H	2x4	DRY	No.2
H - J	2x4	DRY	No.2
J - L	2x4	DRY	No.2
W - B	2x6	DRY	No.2
M - L	2x6	DRY	No.2
W - S	2x6	DRY	2100F 1.8E
S - O	2x6	DRY	2100F 1.8E
O - M	2x6	DRY	2100F 1.8E
ALL WEBS	2x3	DRY	No.2
EXCEPT			
B - V	2x4	DRY	No.2
K - M	2x4	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN	Y X
B TMWW-t	MT20	6.0	9.0	3.00 4.00
C TTWW-m	MT20	8.0	9.0	Edge 5.75
D TTWW-m	MT20	6.0	12.0	
E TMWW-t	MT20	5.0	6.0	
F TMWW-t	MT20	4.0	6.0	3.00 1.25
G TTW-m	MT20	5.0	6.0	2.25 3.00
H TTWW-m	MT20	5.0	6.0	Edge
I TMWW-t	MT20	4.0	4.0	
J TS-t	MT20	3.0	8.0	
K TMWW-t	MT20	6.0	9.0	3.00 3.75
L TMV-p	MT20	4.0	4.0	
M BMWW-t	MT20	6.0	9.0	3.00 3.25
N BMWW-t	MT20	4.0	4.0	2.50 1.75
O BS-t	MT20	5.0	6.0	
P BMWW-t	MT20	4.0	6.0	
Q BMWW-t	MT20	6.0	9.0	
R BMWW-t	MT20	4.0	6.0	
S BS-t	MT20	6.0	9.0	
T BMWW-t	MT20	5.0	6.0	
U BMWW-t	MT20	6.0	9.0	2.50 4.25
V BMWW-t	MT20	6.0	9.0	3.00 3.75
W BMV-p	MT20	3.0	6.0	3.25 1.50

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD



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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG
W	3595	0	3595	0	5-8
M	3419	0	3419	0	MECHANICAL

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT M.

UNFACTORED REACTIONS						
1ST CASE	MAX/MIN	COMPONENT REACTIONS				
JT COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
W	2630	1658 / 0	427 / 0	0 / 0	545 / 0	0 / 0
M	2510	1554 / 0	427 / 0	0 / 0	529 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 1.88 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

- 1 LATERAL BRACE(S) AT 1/2 LENGTH OF I-P, E-R, F-Q.
- 2 LATERAL BRACE(S) AT 1/3 LENGTH OF K-M.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 39	-129.7 -129.7	0.17 (1)	10.00	V-C	-502 / 0	0.10 (1)
B-C	-5087 / 0	-129.7 -129.7	0.70 (1)	2.55	C-U	0 / 3482	0.78 (1)
C-D	-7182 / 0	-129.7 -129.7	0.81 (1)	1.86	U-D	-2278 / 0	0.43 (1)
D-E	-6509 / 0	-129.7 -129.7	0.76 (1)	2.16	Q-G	0 / 1458	0.33 (1)
E-F	-5343 / 0	-129.7 -129.7	0.56 (1)	2.65	Q-H	0 / 339	0.08 (1)
F-G	-4353 / 0	-129.7 -129.7	0.46 (1)	3.05	P-H	0 / 1001	0.23 (1)
G-H	-3988 / 0	-129.7 -129.7	0.49 (1)	3.16	P-I	-1028 / 0	0.48 (1)
H-I	-4208 / 0	-129.7 -129.7	0.78 (1)	2.78	I-N	0 / 473	0.11 (2)
I-J	-5138 / 0	-129.7 -129.7	0.88 (1)	2.42	N-K	-94 / 144	0.03 (3)
J-K	-5138 / 0	-129.7 -129.7	0.88 (1)	2.42	B-V	0 / 4611	0.74 (1)
K-L	0 / 28	-129.7 -129.7	0.47 (1)	10.00	K-M	-5531 / 0	0.73 (1)
W-B	-3515 / 0	0.0 0.0	0.23 (1)	5.69	D-T	-1782 / 0	0.73 (1)
M-L	-293 / 0	0.0 0.0	0.02 (1)	7.81	T-E	0 / 1309	0.29 (1)
W-V	0 / 0	-38.5 -38.5	0.04 (2)	10.00	E-R	-1715 / 0	0.48 (1)
V-U	0 / 4529	-38.5 -38.5	0.33 (1)	10.00	R-F	0 / 1444	0.32 (1)
U-T	0 / 7261	-38.5 -38.5	0.46 (1)	10.00	F-Q	-1806 / 0	0.78 (1)
T-S	0 / 5845	-38.5 -38.5	0.33 (1)	10.00			
S-R	0 / 5845	-38.5 -38.5	0.33 (1)	10.00			
R-Q	0 / 4780	-38.5 -38.5	0.27 (1)	10.00			
Q-P	0 / 3745	-38.5 -38.5	0.23 (1)	10.00			
P-O	0 / 4421	-38.5 -38.5	0.28 (1)	10.00			
O-N	0 / 4421	-38.5 -38.5	0.28 (1)	10.00			
N-M	0 / 4658	-38.5 -38.5	0.32 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 51.7 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, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2012, CBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.36")
CALCULATED VERT. DEFL.(LL) = L/999 (0.39")
ALLOWABLE DEFL.(TL) = L/360 (1.36")
CALCULATED VERT. DEFL.(TL) = L/793 (0.62")

CS1: TC=0.88/1.00 (I-K:1), BC=0.46/1.00 (T-U:1), WB=0.78/1.00 (C-U:1), SSI=0.30/1.00 (H-I: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 = 1.00

AUTOSOLVE HEELS OFF

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

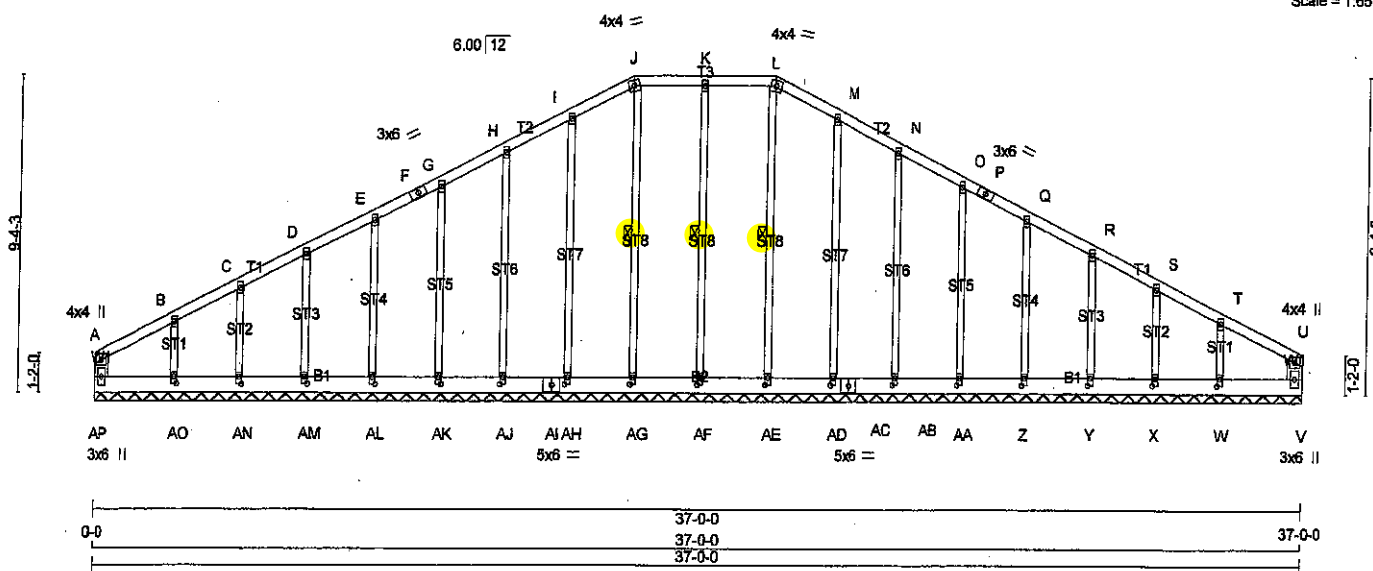
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1658

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.90 (C) (INPUT = 0.90)
JSI METAL= 0.91 (S) (INPUT = 1.00)

DRWG NO. TAM 1105415
STRUCTURAL
CORPORATION



LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER DESCR.				DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 38.2 PSF DL = 6.0 PSF BOT CH. LL = 10.5 PSF DL = 7.0 PSF TOTAL LOAD = 61.7 PSF SPACING = 240 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, NBC 2010, NBC 2015 THIS DESIGN COMPLIES WITH: - PART 9 OF OBC 2012, OBC 2018 - CSA 086-09, CSA 086-14 - TPIC 2011, TPIC 2014 (55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD CSI: TC=0.08/1.00 (T-U:1), BC=0.02/1.00 (V-W:2), WB=0.34/1.00 (I-AH:1), SI=0.11/1.00 (T-U: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 = 1.00 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 788 1987 1656 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL = 5.0 Deg. JSI GRIP= 0.60 (J) (INPUT = 0.90) JSI METAL= 0.12 (T) (INPUT = 1.00)			
ALL WEBS 2x3 DRY No.2 SPF ALL GABLE WEBS 2x3 DRY No.2 SPF DRY: SEASONED LUMBER.				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 = 8.25 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 LATERAL BRACE(S) AT 1/2 LENGTH OF L-AE, K-AF, J-AG.			
PLATES (table is in inches) JT TYPE PLATES W LEN Y X A TMV+p MT20 4.0 4.0 B C, D, E, G, H, I, K, M, N, O, Q, R, S, T B TMV+w MT20 2.0 4.0 F TS-I MT20 3.0 6.0 J TTW-m MT20 4.0 4.0 L TTW-m MT20 4.0 4.0 P TS-I MT20 3.0 6.0 U TMV+p MT20 4.0 4.0 V BMV1+p MT20 3.0 6.0 W, X, Y, Z, AA, AB, AD, AE, AF, AG, AH, AJ, AK, AL, AM, AN, AO W BMV1+w MT20 2.0 4.0 2.50 1.00 AC BS-I MT20 5.0 6.0 AI BS-I MT20 5.0 6.0 AP BMV1+p MT20 3.0 6.0				LOADING TOTAL LOAD CASES: (4) CHORDS FACTORED WEBS MEMB. FORCE VERT. LOAD LC1 MAX MAX. MEMB. MAX. FORCE MAX. (LBS) (PLF) CSI (LC) UNBRAC LENGTH FR-TO (LBS) CSI (LC) FR-TO FROM TO AP-A -195 / 0 0.0 0.0 0.04 (1) 7.81 AE-L -244 / 0 0.13 (1) A-B -85 / 0 -129.7 -129.7 0.08 (1) 6.25 AF-K -279 / 0 0.15 (1) B-C -78 / 0 -129.7 -129.7 0.07 (1) 6.25 AG-J -244 / 0 0.13 (1) C-D -68 / 0 -129.7 -129.7 0.06 (1) 6.25 AH-I -252 / 0 0.34 (1) D-E -64 / 0 -129.7 -129.7 0.06 (1) 6.25 AJ-H -259 / 0 0.24 (1) E-F -60 / 0 -129.7 -129.7 0.06 (1) 6.25 AK-G -258 / 0 0.16 (1) F-G -60 / 0 -129.7 -129.7 0.06 (1) 6.25 AL-E -257 / 0 0.11 (1) G-H -58 / 0 -129.7 -129.7 0.06 (1) 6.25 AM-D -259 / 0 0.07 (1) H-I -54 / 0 -129.7 -129.7 0.06 (1) 6.25 AN-C -248 / 0 0.05 (1) I-J -50 / 0 -129.7 -129.7 0.06 (1) 6.25 AO-B -287 / 0 0.04 (1) J-K -43 / 0 -129.7 -129.7 0.07 (1) 6.25 AD-M -252 / 0 0.34 (1) K-L -43 / 0 -129.7 -129.7 0.07 (1) 6.25 AS-N -259 / 0 0.24 (1) L-M -50 / 0 -129.7 -129.7 0.06 (1) 6.25 AA-O -258 / 0 0.16 (1) M-N -54 / 0 -129.7 -129.7 0.06 (1) 6.25 Z-Q -257 / 0 0.11 (1) N-O -58 / 0 -129.7 -129.7 0.06 (1) 6.25 Y-R -259 / 0 0.07 (1) O-P -80 / 0 -129.7 -129.7 0.06 (1) 6.25 X-S -248 / 0 0.05 (1) P-Q -80 / 0 -129.7 -129.7 0.06 (1) 6.25 W-T -287 / 0 0.04 (1) Q-R -84 / 0 -129.7 -129.7 0.06 (1) 6.25 R-S -68 / 0 -129.7 -129.7 0.06 (1) 6.25 S-T -78 / 0 -129.7 -129.7 0.07 (1) 6.25 T-U -85 / 0 -129.7 -129.7 0.08 (1) 6.25 V-U -195 / 0 0.0 0.0 0.04 (1) 7.81 AP-AO 0 / 76 -38.5 -38.5 0.02 (2) 10.00 AO-AN 0 / 86 -38.5 -38.5 0.02 (2) 10.00 AN-AM 0 / 61 -38.5 -38.5 0.02 (2) 10.00 AM-AL 0 / 57 -38.5 -38.5 0.02 (2) 10.00 AL-AK 0 / 53 -38.5 -38.5 0.02 (2) 10.00 AK-AJ 0 / 51 -38.5 -38.5 0.02 (2) 10.00 AJ-AI 0 / 48 -38.5 -38.5 0.02 (2) 10.00 AI-AH 0 / 48 -38.5 -38.5 0.02 (2) 10.00 AH-AG 0 / 46 -38.5 -38.5 0.02 (2) 10.00 AG-AF 0 / 43 -38.5 -38.5 0.02 (2) 10.00 AF-AE 0 / 43 -38.5 -38.5 0.02 (2) 10.00 AE-AD 0 / 46 -38.5 -38.5 0.02 (2) 10.00 AD-AC 0 / 48 -38.5 -38.5 0.02 (2) 10.00 AC-AB 0 / 48 -38.5 -38.5 0.02 (2) 10.00 AB-AA 0 / 51 -38.5 -38.5 0.02 (2) 10.00 AA-Z 0 / 53 -38.5 -38.5 0.02 (2) 10.00 Z-Y 0 / 57 -38.5 -38.5 0.02 (2) 10.00 Y-X 0 / 61 -38.5 -38.5 0.02 (2) 10.00 X-W 0 / 66 -38.5 -38.5 0.02 (2) 10.00 W-V 0 / 76 -38.5 -38.5 0.02 (2) 10.00			



DWG NO. TAM 11805407
 STRUCTURAL
 COMPONENT ONLY

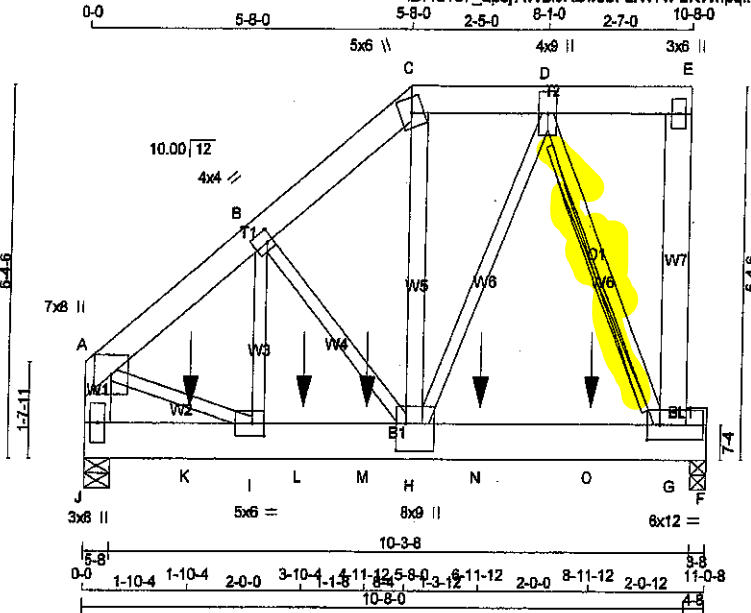
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297086	T16Z	1	4	TRUSS DESC.	

Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2018 MITek Industries, Inc. Tue Aug 21 10:08:27 2018 Page 1

ID:4u167_aps?wvBNKDWJbPzNv7w-2KWhpqth98tF8VGsgG37XJNG6a0JC1TgtNwWylgKy

Scale = 1:37.7



LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x6	DRY	No.2	SPF	
C - E	2x6	DRY	No.2	SPF	
G - E	2x6	DRY	No.2	SPF	
J - A	2x6	DRY	No.2	SPF	
J - F	2x6	DRY	1950F 1.7E	SPF	

BEARING BLOCKS	BL1	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	H - C	2x4	DRY	No.2	SPF

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		
A - C	2	12
C - E	2	12
E - G	2	12
J - A	2	12
BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS		
J - F	4	4
WEBS: (0.122"x3") SPIRAL NAILS		
2x3	1	6
2x4	1	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 CSA088 3.3.2.

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 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
A	TMVW+p	MT20	7.0	8.0		
B	TMVW+l	MT20	4.0	4.0	2.50	1.25
C	TTW+m	MT20	5.0	6.0		
D	TMVW+t	MT20	4.0	9.0		
E	TMV+p	MT20	3.0	6.0		
G	BMVW+k	MT20	6.0	12.0	3.00	2.75
H	BMVW+w+t	MT20	8.0	9.0	5.50	2.00
I	BMVW+l	MT20	5.0	6.0	2.50	2.50
J	BMV+p	MT20	3.0	8.0		

HANGERS NOTES

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
J	9899	0	9899	0
F	9171	0	9171	0

UNFACTORED REACTIONS	1ST CASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW
J	7233	4597 / 0
F	8707	4243 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.13 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

2x8 DRY SPF No.2 T-BRACE AT D-G

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD LC1 MAX (PLF)	MEMB.	FORCE (LBS)
FR-TO		FROM TO	FR-TO	
A-B	-9184 / 0	-129.7 -129.7 0.09 (1)	H-C	0 / 4583
B-C	-7831 / 0	-129.7 -129.7 0.08 (1)	I-B	0 / 1819
C-D	-6138 / 0	-129.7 -129.7 0.04 (1)	B-H	-1611 / 0
D-E	0 / 8	-129.7 -129.7 0.03 (1)	A-I	0 / 7394
G-E	-197 / 0	0.0 0.0 0.02 (1)	H-D	0 / 8219
J-A	-8480 / 0	0.0 0.0 0.15 (1)	D-G	-8448 / 0
J-K	0 / 0	-38.5 -38.5 0.17 (1)		
K-I	0 / 0	-38.5 -38.5 0.17 (1)		
I-L	0 / 7002	-38.5 -38.5 0.39 (1)		
L-M	0 / 7002	-38.5 -38.5 0.39 (1)		
M-H	0 / 7002	-38.5 -38.5 0.39 (1)		
H-N	0 / 3155	-38.5 -38.5 0.50 (1)		
N-O	0 / 3155	-38.5 -38.5 0.50 (1)		
O-G	0 / 3155	-38.5 -38.5 0.50 (1)		
G-F	0 / 0	-168.2 -168.2 0.26 (1)		

SPECIFIED CONCENTRATED LOADS (LBS)	JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
K	1-10-4	-2583	-2583	---	---	BACK	VERT	TOTAL
L	3-10-4	-2583	-2583	---	---	BACK	VERT	TOTAL
M	4-11-12	-2463	-2463	---	---	BACK	VERT	TOTAL
N	6-11-12	-2463	-2463	---	---	BACK	VERT	TOTAL
O	8-11-12	-2463	-2463	---	---	BACK	VERT	TOTAL

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 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, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, OBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.37")
CALCULATED VERT. DEFL.(LL)= L/999 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (0.37")
CALCULATED VERT. DEFL.(TL)= L/999 (0.11")

CSI: TC=0.15/1.00 (A-J), BC=0.50/1.00 (G-H), WB=0.52/1.00 (D-G), SS=0.67/1.00 (F-G)

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

COMPANION LIVE LOAD FACTOR = 1.00

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 818 354 1667 788 1967 1658

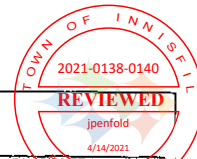
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

JSI METAL= 0.89 (D) (INPUT = 1.00)

DWG NO. TAM 11608916
STRUCTURAL
COMPONENT ONLY



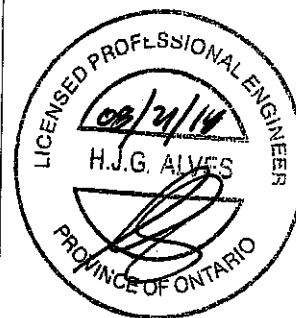
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297086	T16Z	1	4	TRUSS DESC.	

Tamarack Roof Truss, Burlington

Version 8.210 S May 16 2018 MiTek Industries, Inc. Tue Aug 21 10:08:27 2018 Page 2
ID:4u167_apsj2wvBfJKDwJbPzNv7w-2KWWhqith98tF8VGsgG37XJNG6a0IC1TqbnWwYjgKY

HANGERS NOTES

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 3541.7 lbs FACTORED DOWN AT 1-10-4, 3541.7 lbs FACTORED DOWN AT 3-10-4, 3388.1 lbs FACTORED DOWN AT 4-11-12, AND 3365.8 lbs FACTORED DOWN AT 6-11-12, AND 3365.8 lbs FACTORED DOWN AT 8-11-12 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.



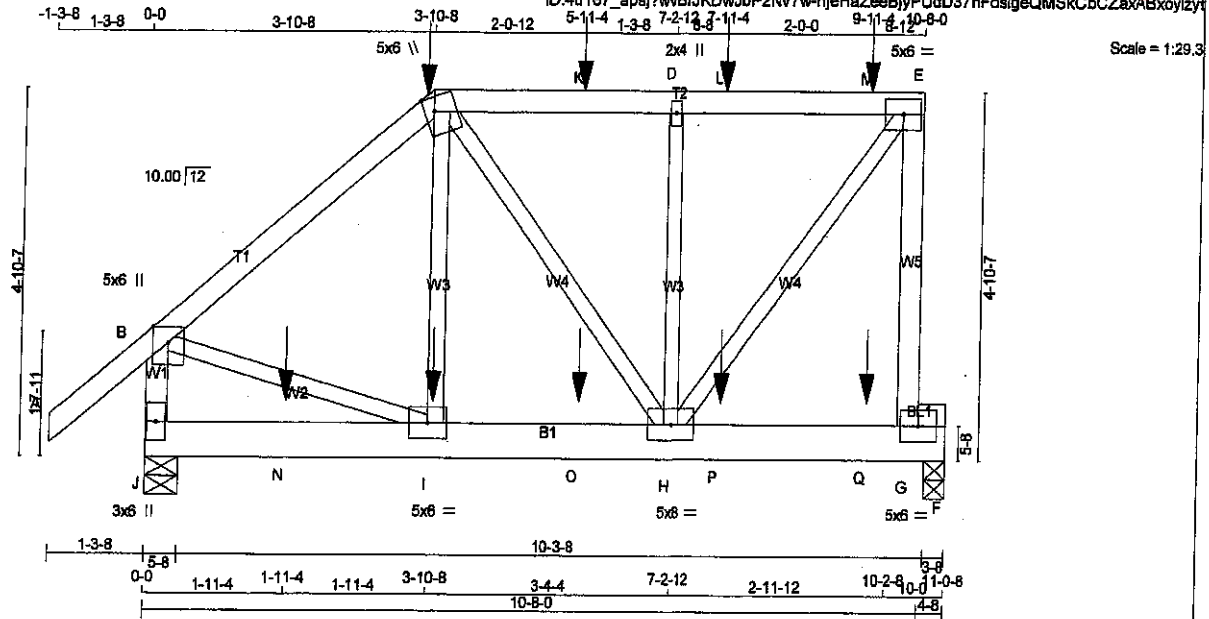
DWG NO. TAM 1805416
STRUCTURAL
CONFORM ONLY 2/2



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297079	T17	1	1	TRUSS DESC.	

Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2018 MTek Industries, Inc. Mon Aug 20 11:48:22 2018 Page 1



Scale = 1:29.3

TOTAL WEIGHT = 60 lb

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
G - E	2x4	DRY	No.2
J - B	2x4	DRY	No.2
J - F	2x6	DRY	No.2

BEARING BLOCKS			
BL1	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
B	TMVW+p	MT20	5.0	6.0 Edge
C	TTWW+m	MT20	5.0	6.0 2.25 1.50
D	TMVW+p	MT20	2.0	4.0
E	TMVW+p	MT20	5.0	6.0
G	BMVW-k	MT20	5.0	6.0
H	BMVWW-k	MT20	5.0	8.0
I	BMVW-k	MT20	5.0	6.0
J	BMVW+p	MT20	3.0	6.0

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

HANGERS NOTES

- SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 281.9 lbs FACTORED DOWN AT 3-10-8, 121.8 lbs FACTORED DOWN AT 5-11-4, AND 121.8 lbs FACTORED DOWN AT 7-11-4, AND 139.1 lbs FACTORED DOWN AT 9-11-4 ON TOP CHORD, AND 38.3 lbs FACTORED DOWN AT 1-11-4, 45.9 lbs FACTORED DOWN AT 3-11-4, 45.9 lbs FACTORED DOWN AT 5-11-4, AND 45.9 lbs FACTORED DOWN AT 7-11-4, AND 45.9 lbs FACTORED DOWN AT 9-11-4 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	GROSS REACTION	VERT	HORZ	GROSS REACTION	DOWN	HORZ	BRG	IN-SX	BRG
J	1486	0	0	1486	0	0	5-8	5-8	5-8
F	1352	0	0	1352	0	0	3-8	3-8	3-8

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
J	1067	689/0	161/0	0/0	0/0	217/0	0/0
F	993	613/0	170/0	0/0	0/0	210/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.48 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0/57	-129.7 -129.7 0.20 (1)	10.00	I-C	-90/161	0.04 (3)	
B-C	-1093/0	-129.7 -129.7 0.40 (1)	5.48	C-H	0/74	0.02 (1)	
C-K	-872/0	-129.7 -129.7 0.40 (1)	5.93	H-D	-785/0	0.27 (1)	
K-D	-872/0	-129.7 -129.7 0.40 (1)	5.93	D-E	0/1515	0.38 (1)	
D-L	-872/0	-129.7 -129.7 0.40 (1)	5.93	E-I	0/868	0.21 (1)	
L-M	-872/0	-129.7 -129.7 0.40 (1)	5.93				
M-E	-872/0	-129.7 -129.7 0.40 (1)	5.93				
G-E	-1488/0	0.0 0.0 0.55 (1)	6.88				
J-B	-1392/0	0.0 0.0 0.16 (1)	6.88				
J-N	0/0	-38.5 -38.5 0.08 (2)	10.00				
N-I	0/0	-38.5 -38.5 0.08 (2)	10.00				
I-O	0/828	-38.5 -38.5 0.21 (1)	10.00				
O-H	0/828	-38.5 -38.5 0.21 (1)	10.00				
H-P	-48/0	-38.5 -38.5 0.51 (1)	6.25				
P-Q	-48/0	-38.5 -38.5 0.51 (1)	6.25				
Q-G	-48/0	-38.5 -38.5 0.51 (1)	6.25				
G-F	0/0	-38.5 -38.5 0.32 (1)	10.00				

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE
C	3-10-8	-195	-195	-	FRONT	VERT	TOTAL
I	3-11-4	-33	-33	-	FRONT	VERT	TOTAL
K	5-11-4	-83	-83	-	FRONT	VERT	TOTAL
L	7-11-4	-83	-83	-	FRONT	VERT	TOTAL
M	9-11-4	-95	-95	-	FRONT	VERT	TOTAL
N	1-11-4	-22	-26	-	FRONT	VERT	TOTAL
O	5-11-4	-33	-33	-	FRONT	VERT	TOTAL
P	7-11-4	-33	-33	-	FRONT	VERT	TOTAL
Q	9-11-4	-33	-33	-	FRONT	VERT	TOTAL

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 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, NBC 2010, NBC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, OBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.37")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL) = L/360 (0.37")
CALCULATED VERT. DEFL.(TL) = L/999 (0.06")

CSI: TC=0.55/1.00 (E-G:1), EC=0.51/1.00 (G-H:1), WB=0.38/1.00 (E-H:1), SSI=0.55/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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 1657 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

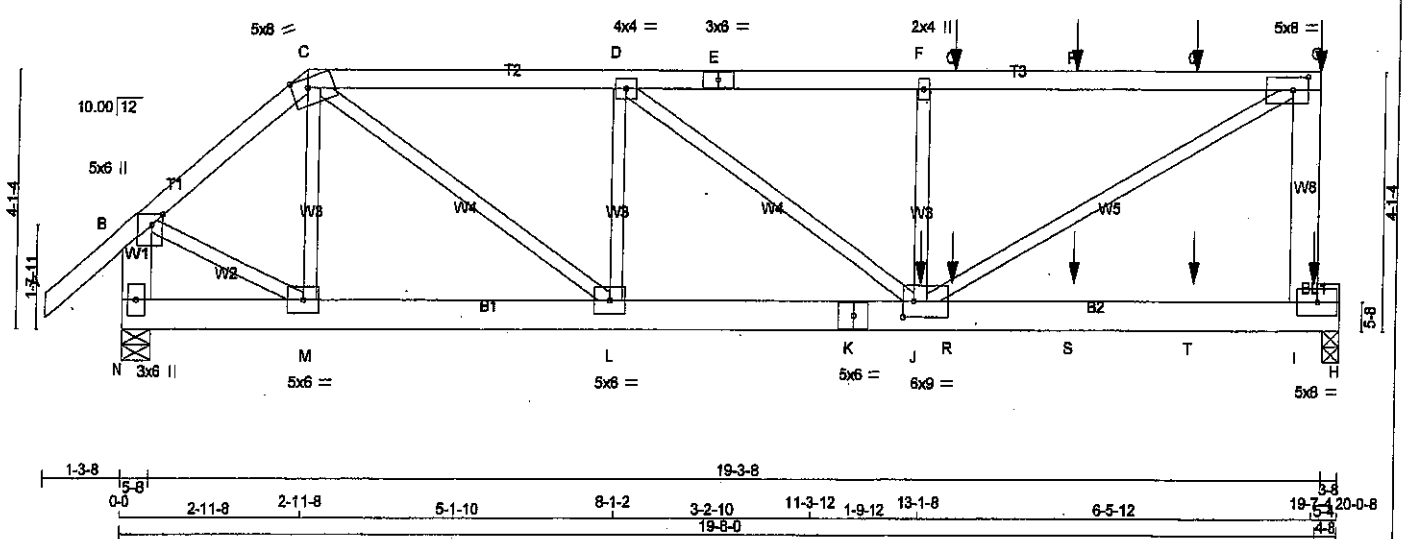
JSI GRIP= 0.90 (H) (INPUT = 0.90)
JSI METAL= 0.45 (E) (INPUT = 1.00)

DRWG NO. TAM 11805225
STRUCTURAL
COMPONENT ONLY





JOB NAME 297086	TRUSS NAME T101Z	QUANTITY 1	PLY 2	JOB DESC. TRUSS DESC.	DRWG NO.
Tamarack Roof Truss, Burlington					
Version 8.210 S May 18 2018 MITek Industries, Inc. Tue Aug 21 10:58:31 2018 Page 1					
ID: 4u167_apsj?wvBfJKDwJbPzNv7w-w5mBfCfOIcalkmp15V7HNTu8jsUzf3bUnafgylgkt					
Scale = 1:35.0					



LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY No.2	SPF
C - E	2x4	DRY No.2	SPF
E - G	2x4	DRY No.2	SPF
I - G	2x6	DRY No.2	SPF
N - B	2x6	DRY No.2	SPF
N - K	2x6	DRY No.2	SPF
K - H	2x6	DRY No.2	SPF

BEARING BLOCKS
BL1 2x4 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

CHORD	SIZE	SPACING (IN)	LOAD (PLF)
A-C	1	12	TOP
C-E	1	12	TOP
E-G	1	12	TOP
G-I	2	12	TOP
N-B	2	12	TOP

BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS

CHORD	SIZE	SPACING (IN)	LOAD (PLF)
N-K	2	12	TOP
K-H	2	12	TOP

WEBS: (0.122"x3") SPIRAL NAILS

WEB	SIZE	SPACING (IN)	LOAD (PLF)
F-J	1	8	SIDE(183.1)
2x3	1	8	SIDE(267.4)
2x4	1	8	SIDE(267.4)

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 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
B	TMVW+p	MT20	5.0	8.0	2.00	2.25
C	TTWW-m	MT20	5.0	8.0	Edge	3.00
D	TMVW-t	MT20	4.0	4.0		
E	TS-t	MT20	3.0	8.0		
F	TMVW+w	MT20	2.0	4.0		
G	TMVW-t	MT20	5.0	8.0	2.50	3.00
J	BMVW-t	MT20	5.0	8.0		
K	BS-t	MT20	6.0	9.0	3.00	2.25
L	BMVW-t	MT20	5.0	8.0		
M	BMVW-t	MT20	5.0	8.0		
N	BMV1+p	MT20	3.0	6.0		

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

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
N	2596	2596	0	5-8
H	3573	3573	0	3-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	WIND	DEAD	SOIL
N	1988	1230 / 0	287 / 0	0 / 0	372 / 0
H	2806	1683 / 0	421 / 0	0 / 0	503 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.34 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	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1)	MAX. FACTORED VERT. LOAD (LC2)	MAX. FACTORED VERT. LOAD (LC3)	MAX. FACTORED VERT. LOAD (LC4)	MAX. FACTORED VERT. LOAD (LC5)	MAX. FACTORED VERT. LOAD (LC6)	MAX. FACTORED VERT. LOAD (LC7)	MAX. FACTORED VERT. LOAD (LC8)	MAX. FACTORED VERT. LOAD (LC9)	MAX. FACTORED VERT. LOAD (LC10)
FR-TO												
A-B	0 / 57	-129.7	-129.7	0.10 (1)	10.00							
B-C	-2331 / 0	-129.7	-129.7	0.13 (1)	5.74							
C-D	-3793 / 0	-129.7	-129.7	0.33 (1)	4.52							
D-E	-4944 / 0	-129.7	-129.7	0.66 (1)	3.53							
E-F	-4944 / 0	-129.7	-129.7	0.66 (1)	3.53							
F-G	-4944 / 0	-129.7	-129.7	0.87 (1)	3.34							
G-H	-4944 / 0	-129.7	-129.7	0.87 (1)	3.34							
H-I	-4944 / 0	-129.7	-129.7	0.87 (1)	3.34							
I-J	-4944 / 0	-129.7	-129.7	0.87 (1)	3.34							
J-K	-4944 / 0	-129.7	-129.7	0.87 (1)	3.34							
K-L	-4944 / 0	-129.7	-129.7	0.87 (1)	3.34							
L-M	-4944 / 0	-129.7	-129.7	0.87 (1)	3.34							
M-N	-4944 / 0	-129.7	-129.7	0.87 (1)	3.34							
N-O	-4944 / 0	-129.7	-129.7	0.87 (1)	3.34							
O-P	-4944 / 0	-129.7	-129.7	0.87 (1)	3.34							
P-Q	-4944 / 0	-129.7	-129.7	0.87 (1)	3.34							
Q-R	-4944 / 0	-129.7	-129.7	0.87 (1)	3.34							
R-S	-4944 / 0	-129.7	-129.7	0.87 (1)	3.34							
S-T	-4944 / 0	-129.7	-129.7	0.87 (1)	3.34							
T-U	-4944 / 0	-129.7	-129.7	0.87 (1)	3.34							
U-V	-4944 / 0	-129.7	-129.7	0.87 (1)	3.34							
V-W	-4944 / 0	-129.7	-129.7	0.87 (1)	3.34							
W-X	-4944 / 0	-129.7	-129.7	0.87 (1)	3.34							
X-Y	-4944 / 0	-129.7	-129.7	0.87 (1)	3.34							
Y-Z	-4944 / 0	-129.7	-129.7	0.87 (1)	3.34							
Z-A	-4944 / 0	-129.7	-129.7	0.87 (1)	3.34							

SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE
G	19-8-0	-148	-148		FRONT	VERT	TOTAL
I	19-7-4	-53	-53		FRONT	VERT	TOTAL
J	13-1-8	-1243	-1243		FRONT	VERT	TOTAL
O	13-7-12	-106	-106		FRONT	VERT	TOTAL
P	15-7-12	-106	-106		FRONT	VERT	TOTAL
Q	17-7-12	-106	-106		FRONT	VERT	TOTAL
R	13-7-12	-38	-38		FRONT	VERT	TOTAL
S	15-7-12	-38	-38		FRONT	VERT	TOTAL
T	17-7-12	-38	-38		FRONT	VERT	TOTAL

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 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, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, CBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.67")
CALCULATED VERT. DEFL.(LL) = L/999 (0.17")
ALLOWABLE DEFL.(TL) = L/360 (0.67")
CALCULATED VERT. DEFL.(TL) = L/910 (0.26")

CSI: TC=0.87/1.00 (F-G-I), BC=0.78/1.00 (H-I), WB=0.74/1.00 (G-J), SSI=0.72/1.00 (H-I)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

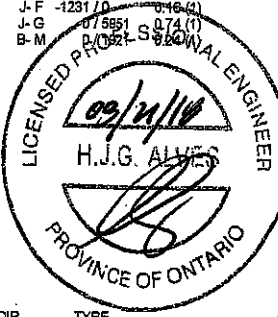
PLATE	GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	618	354	1867

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.87 (G) (INPUT = 0.90)
JSI METAL= 0.48 (G) (INPUT = 1.00)

DRWG NO. TAM 1605417
STRUCTURAL
TAM TRUSS ONLY
1/2



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297086	T101Z	1	2	TRUSS DESC.	

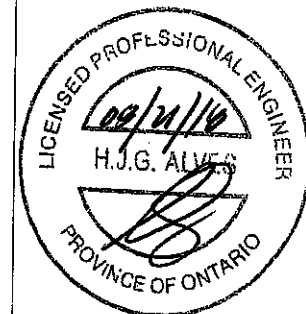
Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2018 MITek Industries, Inc. Tue Aug 21 10:08:31 2018 Page 2
ID:4u167_apsj?wvBfJKDwJbPzNv7w-w5mBfCfQfCetkmp15VL?HNTu8jsUtzf3bUnafayldKU



HANGERS NOTES

- 1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 186.1 lbs FACTORED DOWN AT 13-7-12, 158.1 lbs FACTORED DOWN AT 15-7-12, AND 158.1 lbs FACTORED DOWN AT 17-7-12, AND 218.8 lbs FACTORED DOWN AT 19-8-0 ON TOP CHORD, AND 1726.9 lbs FACTORED DOWN AT 13-1-8, 54.9 lbs FACTORED DOWN AT 13-7-12, 54.9 lbs FACTORED DOWN AT 15-7-12, AND 54.9 lbs FACTORED DOWN AT 17-7-12, AND 75.7 lbs FACTORED DOWN AT 19-7-4 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

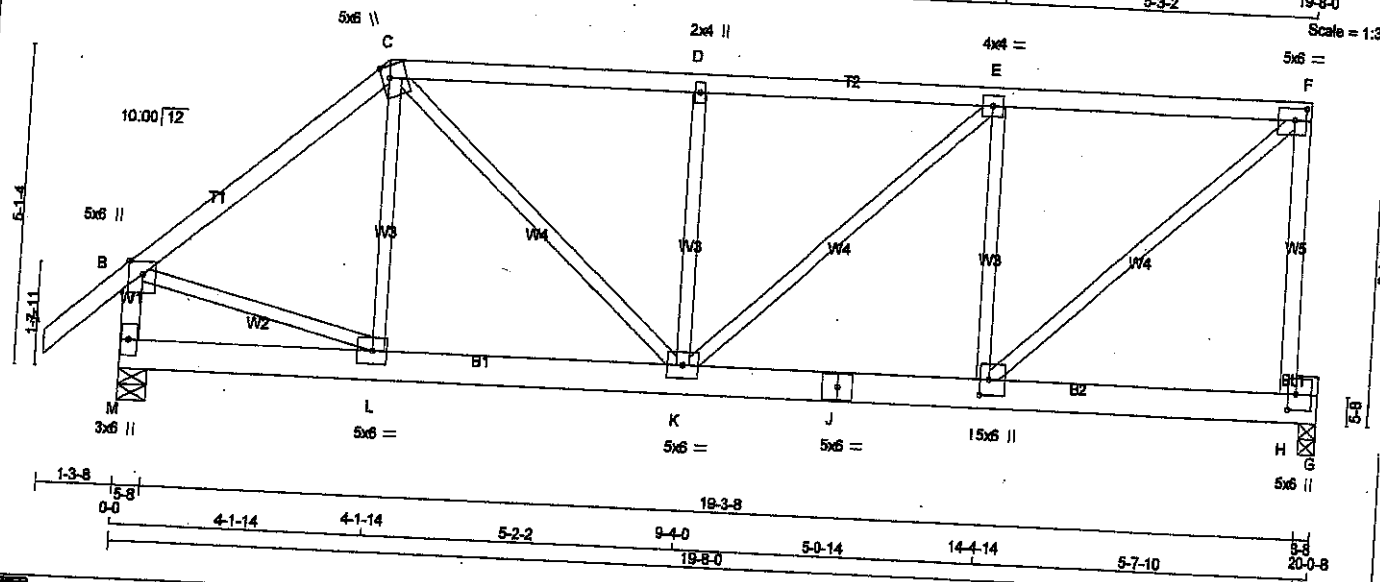


DWG NO. TAM 71805417
STRUCTURAL
COMPONENT ONLY 2/2



JOB NAME 297082	TRUSS NAME T102	QUANTITY 2	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.210 S May 18 2018 MTEK Industries, Inc. Mon Aug 20 16:04:19 2018 Pag
ID:4u167_apsj?wvBfJKDwJbPzNv7w-d83sgfUYb9mQNRKYGQG4mDD?Qantk2AzvhiJRBylw
5-0-14 14-4-14 5-3-2 19-8-0
Scale = 1:3



LUMBER			
N L G A RULES	SIZE	DRY	LUMBER
A - C	2x4	DRY	No.2
C - F	2x4	DRY	No.2
H - B	2x4	DRY	No.2
M - J	2x6	DRY	No.2
J - G	2x6	DRY	No.2
BEARING BLOCKS			
BL1	2x4	DRY	No.2
ALL WEBS 2x3 DRY EXCEPT			
DRY: SEASONED LUMBER.			

PLATES (table in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	5.0	8.0	Edge
C	TTWW+m	MT20	5.0	6.0	2.25 1.50
D	TMVW+v	MT20	2.0	4.0	
E	TMVW-t	MT20	4.0	4.0	
F	TMVW-t	MT20	5.0	6.0	2.25 2.50
H	BMVW+p	MT20	5.0	8.0	3.00 1.75
I	BMVW-t	MT20	5.0	8.0	
J	BS-t	MT20	5.0	8.0	
K	BMVW-t	MT20	5.0	8.0	
L	BMVW-t	MT20	5.0	8.0	
M	BMV1+p	MT20	3.0	8.0	

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

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE
M	1359	872 / 0	210 / 0
G	1204	736 / 0	210 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.26 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 8.25 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
A-B	0 / 57	L-C	-116 / 128
B-C	-1572 / 0	B-L	0 / 1253
C-D	-1835 / 0	I-F	0 / 2188
D-E	-1836 / 0	C-K	0 / 855
E-F	-1572 / 0	I-E	-982 / 0
H-F	-1740 / 0	K-D	-717 / 0
M-B	-1805 / 0	K-E	0 / 380
M-L	0 / 0		
L-K	0 / 1202		
K-J	0 / 1572		
J-I	0 / 1572		
I-H	-54 / 0		
H-G	0 / 0		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 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, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, OBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.67")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.08")
ALLOWABLE DEFL.(TL) = $L/360$ (0.67")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.14")

CSI: TC=0.70/1.00 (F-H:1), BC=0.57/1.00 (H-I:1), WB=0.49/1.00 (F-I:1), SS=0.60/1.00 (G-H: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 = 1.00

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

NAIL VALUES			
PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1687 798	1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.88 (C) (INPUT = 0.90)
JSI METAL= 0.62 (B) (INPUT = 1.00)



DRWG NO. TAM **11805319**
STRUCTURAL
COMPUTER ONLY

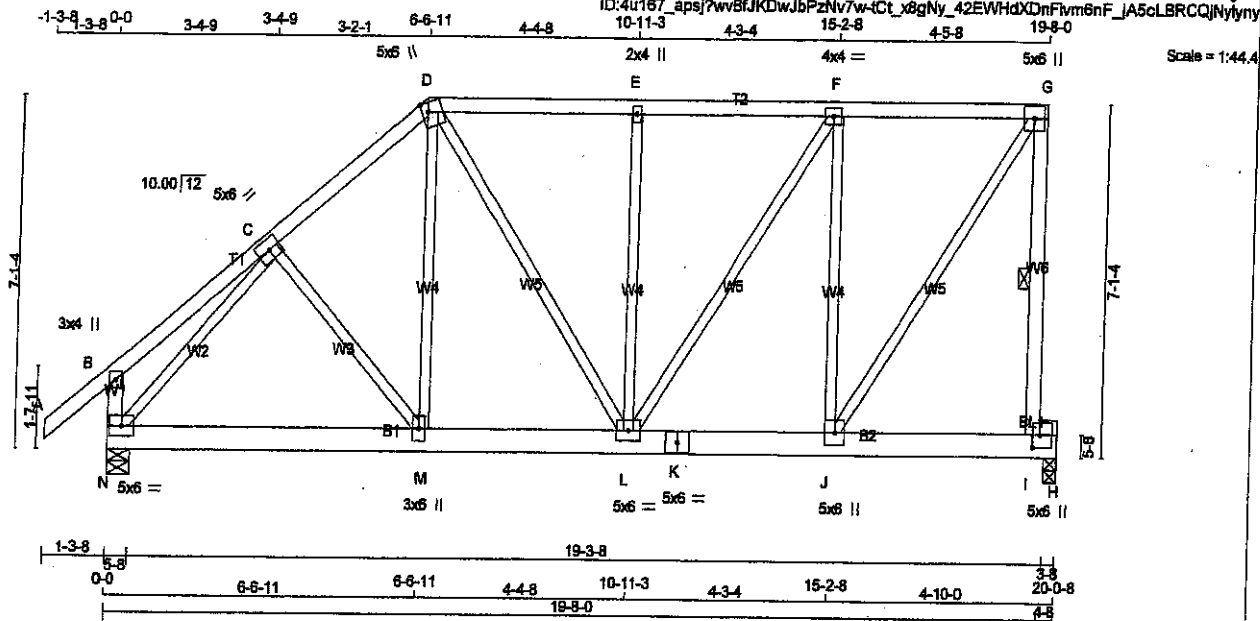


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297081	T104	2	1	TRUSS DESC.	

Tamarack Roof Truss, Burlington

Version 8.210 8 May 18 2018 Mitak Industries, Inc. Mon Aug 20 13:08:17 2018 Page 1

ID:4u167_aps?wvBfJKDwJbPzNy7w4Ct_x8gNy_42EWHDxDnFm6nF_JA5cLBRQjNyltyny



TOTAL WEIGHT = 2 X 113 = 227 lb

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF	
D - G	2x4	DRY	No.2	SPF	
I - G	2x4	DRY	No.2	SPF	
N - B	2x4	DRY	No.2	SPF	
N - K	2x6	DRY	No.2	SPF	
K - H	2x6	DRY	No.2	SPF	

BEARING BLOCKS	SIZE	LUMBER	DESCR.
BL1	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
B	TMV+p	MT20	3.0	4.0	
C	TMVW+4	MT20	5.0	6.0	
D	TTWV+m	MT20	5.0	6.0	2.25 1.50
E	TMVW+w	MT20	2.0	4.0	
F	TMVW+t	MT20	4.0	4.0	
G	TMVW+p	MT20	5.0	6.0	
I	BMVW+k+p	MT20	5.0	6.0	3.00 1.75
J	BMVW+t	MT20	5.0	6.0	
K	BS-t	MT20	5.0	6.0	
L	BMVWV+t	MT20	5.0	6.0	
M	BMVWV+t	MT20	3.0	6.0	
N	BMVWV+t	MT20	5.0	6.0	

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

BEARINGS						
	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	
N	1864	0	1864	0	0	5-8
H	1637	0	1637	0	0	3-8

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
N	1359	872 / 0	210 / 0	0 / 0	0 / 0	277 / 0	0 / 0	0 / 0
H	1204	738 / 0	210 / 0	0 / 0	0 / 0	256 / 0	0 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.09 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF G-I.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO						FR-TO		
A-B	0 / 57	-129.7	-129.7	0.18 (1)	10.00	C-M	-66 / 70	0.03 (1)
B-C	0 / 30	-129.7	-129.7	0.21 (1)	10.00	M-D	0 / 353	0.06 (2)
C-D	-1499 / 0	-129.7	-129.7	0.25 (1)	5.09	N-C	-1834 / 0	0.75 (1)
D-E	-1267 / 0	-129.7	-129.7	0.35 (1)	5.27	J-G	0 / 1866	0.42 (1)
E-F	-1266 / 0	-129.7	-129.7	0.36 (1)	5.25	D-L	0 / 251	0.06 (1)
F-G	-992 / 0	-129.7	-129.7	0.35 (1)	5.77	J-F	-1056 / 0	0.87 (1)
I-G	-1791 / 0	0.0	0.0	0.39 (1)	4.99	L-E	-604 / 0	0.49 (1)
N-B	-343 / 0	0.0	0.0	0.04 (1)	7.81	L-F	0 / 514	0.12 (1)
N-M	0 / 1169	-38.5	-38.5	0.24 (2)	10.00			
M-L	0 / 1131	-38.5	-38.5	0.23 (2)	10.00			
L-K	0 / 982	-38.5	-38.5	0.29 (1)	10.00			
K-J	0 / 982	-38.5	-38.5	0.29 (1)	10.00			
J-I	-39 / 0	-38.5	-38.5	0.57 (1)	8.25			
I-H	0 / 0	-38.5	-38.5	0.35 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 PSF

SPACING = 240 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, NBC 2010, NBC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, OBC 2018
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.67")
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
ALLOWABLE DEFL.(TL) = L/360 (0.67")
CALCULATED VERT. DEFL.(TL) = L/999 (0.10")

CSI: TC=0.39/1.00 (G-I); BC=0.57/1.00 (I-J); WB=0.87/1.00 (F-J); SS=0.60/1.00 (H-I)

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

COMPANION LIVE LOAD FACTOR = 1.00

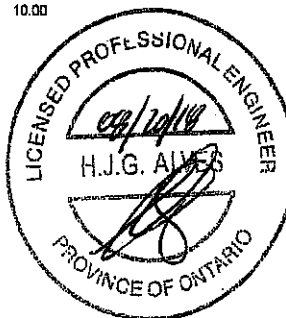
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PS) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (G) (INPUT = 0.90)
JSI METAL= 0.45 (C) (INPUT = 1.00)

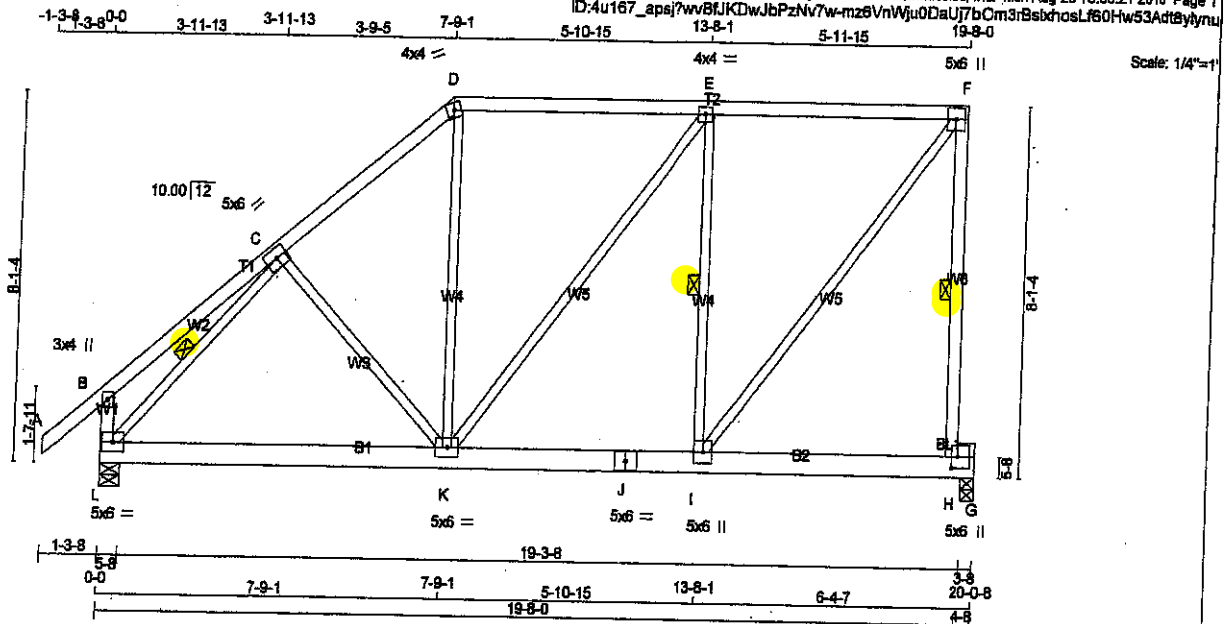


DRWG NO. TAM 11605277
STRUCTURAL
COMPONENT ONLY



JOB NAME 297081	TRUSS NAME T105	QUANTITY 4	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
---------------------------	---------------------------	----------------------	-----------------	---------------------------------	----------

Tamarack Roof Truss, Burlington



TOTAL WEIGHT = 4 X 108 = 432 lb

LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
H - F	2x4	DRY	No.2
L - B	2x4	DRY	No.2
L - J	2x6	DRY	No.2
J - G	2x6	DRY	No.2
BEARING BLOCKS			
BL1	2x4	DRY	No.2
ALL WEBS 2x3 DRY EXCEPT			
DRY: SEASONED LUMBER.			

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX	IN-SX	IN-SX
JT							
L	1864	0	1864	0	5-8	5-8	5-8
G	1637	0	1637	0	3-8	3-8	3-8

UNFACTORED REACTIONS

1ST LOASE		MAX/MIN. COMPONENT REACTIONS		DEAD		SOIL	
COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	SOIL
JT							
L	1359	872 / 0	210 / 0	0 / 0	0 / 0	277 / 0	0 / 0
G	1204	736 / 0	210 / 0	0 / 0	0 / 0	256 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.43 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF F-H, E-I, C-L

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PL)	CS1 (LC)	MEMB.	FORCE (LBS)	MAX. FACTORED	CS1 (LC)
FR-TO		FROM TO		FR-TO		FROM TO	
A-B	0 / 57	-129.7	-129.7 0.18 (1)	10.00	C-K	-192 / 42	0.12 (1)
B-C	0 / 37	-129.7	-129.7 0.31 (1)	10.00	K-D	0 / 401	0.09 (2)
C-D	-1410 / 0	-129.7	-129.7 0.36 (1)	5.06	K-E	0 / 55	0.01 (3)
D-E	-1057 / 0	-129.7	-129.7 0.84 (1)	4.43	I-E	-987 / 0	0.38 (1)
E-F	-1057 / 0	-129.7	-129.7 0.84 (1)	4.43	I-F	0 / 1777	0.40 (1)
F-G	-1699 / 0	0.0	0.0 0.48 (1)	5.10	L-C	-1801 / 0	0.44 (1)
G-H	-371 / 0	0.0	0.0 0.04 (1)	7.81			
L-K	0 / 1181	-38.5	-38.5 0.30 (2)	10.00			
K-J	0 / 1057	-38.5	-38.5 0.32 (1)	10.00			
J-I	0 / 1057	-38.5	-38.5 0.32 (1)	10.00			
I-H	-32 / 0	-38.5	-38.5 0.57 (1)	6.25			
H-G	0 / 0	-38.5	-38.5 0.35 (1)	10.00			

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMV+p	MT20	3.0	4.0
C	TMVW-t	MT20	5.0	6.0
D	TTW-m	MT20	4.0	4.0
E	TMVW-t	MT20	4.0	4.0
F	TMVW+p	MT20	5.0	6.0
H	BMVW+p	MT20	5.0	6.0
I	BMVW-t	MT20	5.0	6.0
J	BS-t	MT20	5.0	6.0
K	BMVWW-t	MT20	5.0	6.0
L	BMVW-t	MT20	5.0	6.0

SPECIFIED LOADS:	
TOP CH.	LL = 38.2 PSF
	DL = 6.0 PSF
BOT CH.	LL = 10.5 PSF
	DL = 7.0 PSF
TOTAL LOAD	= 61.7 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, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, OBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.87")
CALCULATED VERT. DEFL.(LL) = L/999 (0.10")
ALLOWABLE DEFL.(TL) = L/360 (0.87")
CALCULATED VERT. DEFL.(TL) = L/999 (0.16")

CSI: TO=0.84/1.00 (E-F-1), BC=0.57/1.00 (H-I-1), WB=0.44/1.00 (C-L-1), SS=0.60/1.00 (G-H-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 = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PL) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (I) (INPUT = 0.90)
JSI METAL= 0.44 (C) (INPUT = 1.00)

DRWG NO. TAM **1805279**
STRUCTURAL
COMPONENT ONLY

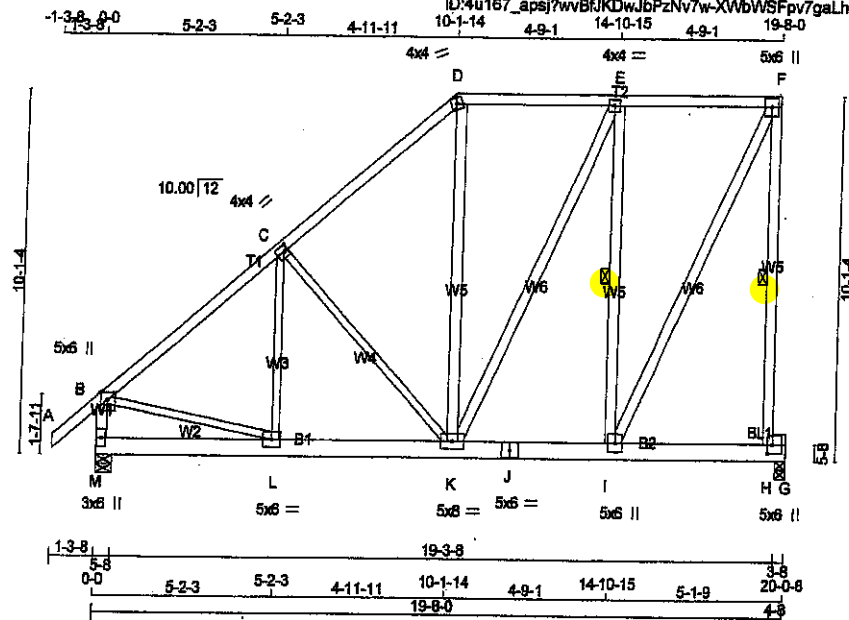
DWG NO. TAM **1805279**
STRUCTURAL
COMPONENT ONLY



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
297081	T107	5	1			

Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2018 MITek Industries, Inc. Mon Aug 20 13:08:29 2018 Page 1
ID:4u167_apsj?wvBfJKDwJbPzNv7w-XVbVWSFpV7gaLhMCwEk_3BRG2f54Y_a86xJ629gyllynm



Scale = 1:61.2

TOTAL WEIGHT = 5 X 135 = 675 lb

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
H - F	2x4	DRY	No.2
M - B	2x4	DRY	No.2
M - J	2x6	DRY	No.2
J - G	2x6	DRY	No.2

BEARING BLOCKS			
BL1	2x4	DRY	No.2
ALL WEBS			
EXCEPT	2x4	DRY	No.2
L - C	2x3	DRY	No.2
C - K	2x3	DRY	No.2
B - L	2x3	DRY	No.2

DRY: SEASONED LUMBER.

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	HORZ	BRG	IN-SX	BRG	IN-SX
M	1864	0	1864	0	0	5-8	5-8	5-8	5-8
G	1637	0	1637	0	0	3-8	3-8	3-8	3-8

UNFACTORED REACTIONS		1ST LCASE		MAX/MIN. COMPONENT REACTIONS		PERM. LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	COMBINED	SNOW	LIVE	COMBINED	SNOW	LIVE	COMBINED	SNOW	LIVE	COMBINED
M	1359	672/0	210/0	0/0	0/0	0/0	277/0	0/0	0/0	277/0	0/0	0/0	0/0
G	1204	738/0	210/0	0/0	0/0	0/0	256/0	0/0	0/0	256/0	0/0	0/0	0/0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.33 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF F-H, E-I.

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)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH	
FR-TO		FROM TO		FR-TO				
A-B	0/57	-129.7 -129.7	0.18 (1)	L-C	-69 / 175	0.04 (3)	10.00	
B-C	-1583/0	-129.7 -129.7	0.69 (1)	C-K	-580/0	0.64 (1)	4.33	
C-D	-1177/0	-129.7 -129.7	0.84 (1)	K-D	0/268	0.04 (2)	4.92	
D-E	-865/0	-129.7 -129.7	0.51 (1)	E-F	0/331	0.05 (1)	5.76	
E-F	-724/0	-129.7 -129.7	0.50 (1)	F-G	-1059/0	0.51 (1)	6.16	
F-G	-1769/0	0.0 0.0	0.85 (1)	G-H	0/1708	0.27 (1)	5.02	
G-H	-1778/0	0.0 0.0	0.19 (1)	H-I	0/1289	0.29 (1)	6.25	
I-J	0/0	-38.5 -38.5	0.09 (3)	J-K	0/0	0.00	10.00	
J-K	0/1255	-38.5 -38.5	0.21 (1)	K-L	0/724	-38.5 -38.5	0.26 (1)	10.00
K-L	0/724	-38.5 -38.5	0.26 (1)	L-M	0/724	-38.5 -38.5	0.26 (1)	10.00
L-M	0/724	-38.5 -38.5	0.28 (1)	M-N	-27/0	-38.5 -38.5	0.57 (1)	6.25
M-N	-27/0	-38.5 -38.5	0.57 (1)	N-O	0/0	-38.5 -38.5	0.35 (1)	10.00
N-O	0/0	-38.5 -38.5	0.35 (1)	O-P	0/0	-38.5 -38.5	0.35 (1)	10.00
O-P	0/0	-38.5 -38.5	0.35 (1)	P-Q	0/0	-38.5 -38.5	0.35 (1)	10.00
P-Q	0/0	-38.5 -38.5	0.35 (1)	Q-R	0/0	-38.5 -38.5	0.35 (1)	10.00
Q-R	0/0	-38.5 -38.5	0.35 (1)	R-S	0/0	-38.5 -38.5	0.35 (1)	10.00
R-S	0/0	-38.5 -38.5	0.35 (1)	S-T	0/0	-38.5 -38.5	0.35 (1)	10.00
S-T	0/0	-38.5 -38.5	0.35 (1)	T-U	0/0	-38.5 -38.5	0.35 (1)	10.00
T-U	0/0	-38.5 -38.5	0.35 (1)	U-V	0/0	-38.5 -38.5	0.35 (1)	10.00
U-V	0/0	-38.5 -38.5	0.35 (1)	V-W	0/0	-38.5 -38.5	0.35 (1)	10.00
V-W	0/0	-38.5 -38.5	0.35 (1)	W-X	0/0	-38.5 -38.5	0.35 (1)	10.00
W-X	0/0	-38.5 -38.5	0.35 (1)	X-Y	0/0	-38.5 -38.5	0.35 (1)	10.00
X-Y	0/0	-38.5 -38.5	0.35 (1)	Y-Z	0/0	-38.5 -38.5	0.35 (1)	10.00
Y-Z	0/0	-38.5 -38.5	0.35 (1)	Z-A	0/0	-38.5 -38.5	0.35 (1)	10.00

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMVW+p	MT20	5.0	6.0 2.50 2.25
C	TMVW-m	MT20	4.0	4.0 2.00 1.25
D	TTW-m	MT20	4.0	4.0
E	TMVW-m	MT20	4.0	4.0
F	TMVW+p	MT20	5.0	6.0
H	BMVK+p	MT20	5.0	6.0 3.00 1.75
I	BMVW+p	MT20	5.0	6.0
J	BS-t	MT20	5.0	6.0
K	BMVW+m	MT20	5.0	8.0
L	BMVW-t	MT20	5.0	6.0
M	BMV1+p	MT20	3.0	6.0

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 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, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, OBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = $L/360$ (0.67")
CALCULATED VERT. DEFL. (LL) = $L/999$ (0.07")
ALLOWABLE DEFL. (TL) = $L/360$ (0.67")
CALCULATED VERT. DEFL. (TL) = $L/999$ (0.11")

CSI: $TO=0.85/1.00$ (F-H-1), $BO=0.57/1.00$ (H-I-1), $WB=0.64/1.00$ (C-K-1), $SSI=0.60/1.00$ (G-H-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 = 1.00

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 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

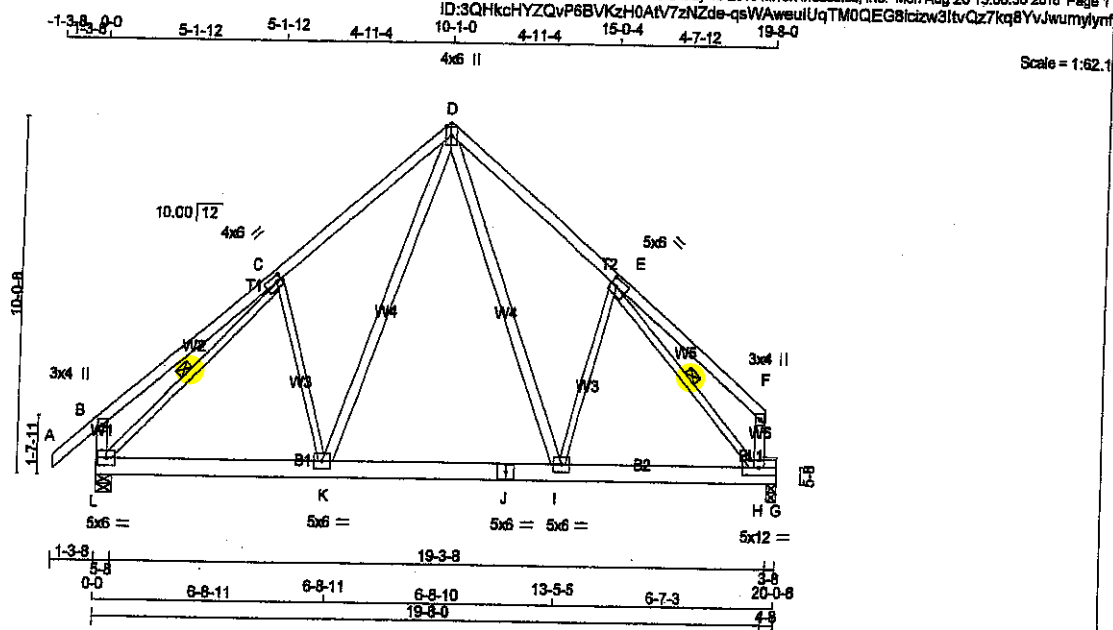
JSI GRIP= 0.84 (B) (INPUT = 0.90)
JSI METAL= 0.35 (F) (INPUT = 1.00)



DRWG NO. TAM 1805280
STRUCTURAL
COMPONENT ONLY



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
297081	T110A	12	1			
Tamarack Roof Truss, Burlington						



TOTAL WEIGHT = 12 X 113 = 1356 lb

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	DRY	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF		
D - F	2x4	DRY	No.2	SPF		
L - B	2x4	DRY	No.2	SPF		
H - F	2x4	DRY	No.2	SPF		
L - J	2x6	DRY	No.2	SPF		
J - G	2x6	DRY	No.2	SPF		
BEARING BLOCKS	2x4	DRY	No.2	SPF		
ALL WEBS	2x3	DRY	No.2	SPF		
EXCEPT						
K - D	2x4	DRY	No.2	SPF		
D - I	2x4	DRY	No.2	SPF		

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TMWW-t	MT20	4.0	6.0	2.00	1.75
D	TTWW+p	MT20	4.0	6.0	Edge	
E	TMWW-t	MT20	5.0	6.0	2.50	2.25
F	TMV+p	MT20	3.0	4.0		
H	BMVWK-t	MT20	5.0	12.0		
I	BMWW-t	MT20	5.0	6.0		
J	BS-t	MT20	5.0	6.0		
K	BMWW-t	MT20	5.0	6.0		
L	BMVW1-t	MT20	5.0	6.0		

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT	REQD
GROSS REACTION		GROSS REACTION		GROSS REACTION		BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
L	1884	0	1884	0	0	5-8	5-8
G	1637	0	1637	0	0	3-8	3-8

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
L	1359	872 / 0	210 / 0	0 / 0	0 / 0	277 / 0	0 / 0	0 / 0
G	1204	738 / 0	210 / 0	0 / 0	0 / 0	256 / 0	0 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.49 FT.
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 LATERAL BRACE(S) AT 1/2 LENGTH OF C-L, E-H.

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. FACTORED VERT. LOAD (LC)	MAX. FACTORED VERT. LOAD (LC)	MAX. FACTORED VERT. LOAD (LC)	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC)	MAX. FACTORED VERT. LOAD (LC)
FR-TO							FR-TO				
A-B	0 / 57	-129.7	-129.7	0.18 (1)	10.00	C-K	-424 / 14	0.23 (1)			
B-C	0 / 50	-129.7	-129.7	0.54 (1)	10.00	K-D	0 / 686	0.11 (1)			
C-D	-1489 / 0	-129.7	-129.7	0.65 (1)	4.49	D-I	0 / 745	0.12 (1)			
D-E	-1510 / 0	-129.7	-129.7	0.60 (1)	4.98	E-H	-234 / 74	0.13 (1)			
E-F	0 / 74	-129.7	-129.7	0.50 (1)	10.00	L-C	-1808 / 0	0.64 (1)			
L-B	-425 / 0	0.0	0.0	0.04 (1)	7.81	E-H	-1828 / 0	0.83 (1)			
H-F	-198 / 0	0.0	0.0	0.02 (1)	7.81						
L-K	0 / 1230	-38.5	-38.5	0.26 (1)	10.00						
K-J	0 / 875	-38.5	-38.5	0.32 (1)	10.00						
J-I	0 / 875	-38.5	-38.5	0.32 (1)	10.00						
I-H	0 / 1194	-38.5	-38.5	0.71 (1)	10.00						
H-G	0 / 0	-38.5	-38.5	0.35 (1)	10.00						

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 PSF

SPACING = 24.0 IN. G.C.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2012, CBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.67")
CALCULATED VERT. DEFL. (LL) = L/999 (0.10")
ALLOWABLE DEFL. (TL) = L/360 (0.67")
CALCULATED VERT. DEFL. (TL) = L/999 (0.16")

CSI: TC=0.65/1.00 (C-D:1), BC=0.71/1.00 (H-I:1), WB=0.64/1.00 (C-L:1), SS=0.60/1.00 (G-H: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 = 1.00

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) (PLJ) (PLJ)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

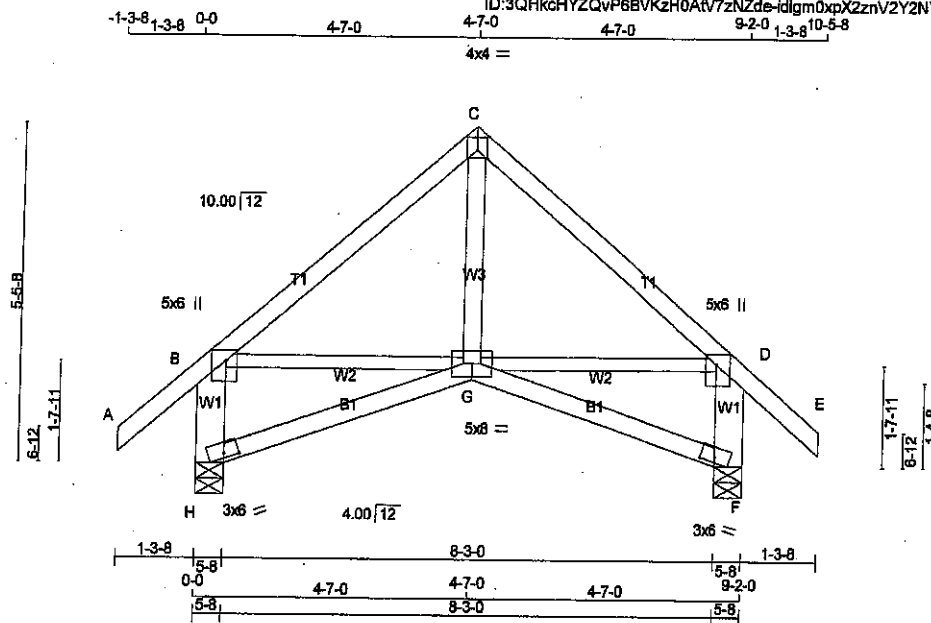
JSI GRIP= 0.88 (E) (INPUT = 0.90)
JSI METAL= 0.50 (E) (INPUT = 1.00)



DRWG NO. TAM 1105282
STRUCTURAL
COMPONENT ONLY



JOB NAME 297081	TRUSS NAME T111S	QUANTITY 4	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
Tamarack Roof Truss, Burlington					
Version 8.210 S May 18 2018 Mitek Industries, Inc. Mon Aug 20 13:08:40 2018 Page 1					
ID:3QHkcHYZQvP6BVkZHOAtv7zNZde-idlgm0xpX2znV2Y2NtHe7mD2ZXw03h9jTWH72Xylynb					
Scale = 1:35.7					



TOTAL WEIGHT = 4 X 44 = 176 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - E	2x4	DRY	No.2	SPF
H - B	2x6	DRY	No.2	SPF
F - D	2x6	DRY	No.2	SPF
H - G	2x4	DRY	No.2	SPF
G - F	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
G - C	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	5.0	8.0	2.00	2.25
C	TTW-p	MT20	4.0	4.0	1.50	2.00
D	TMVW+p	MT20	5.0	8.0	2.00	2.25
F	BVM1-I	MT20	3.0	8.0	1.00	3.00
G	BBWWVW-p	MT20	5.0	8.0		
H	BVM1-I	MT20	3.0	8.0	1.00	3.00

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
	VERT	HORZ	UP/LIFT	IN-SX
H	950	0	0	5-8
F	950	0	0	5-8

UNFACTORED REACTIONS

JT	1ST LOASE COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	688	458 / 0	96 / 0	0 / 0	0 / 0	138 / 0	0 / 0
F	688	458 / 0	96 / 0	0 / 0	0 / 0	138 / 0	0 / 0

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

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. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 57	-129.7 -129.7	0.18 (1)	10.00	G-C	0 / 238	0.04 (3)
B-C	-615 / 0	-129.7 -129.7	0.35 (1)	6.25	B-G	0 / 472	0.11 (1)
C-D	-615 / 0	-129.7 -129.7	0.35 (1)	6.25	G-D	0 / 472	0.11 (1)
D-E	0 / 57	-129.7 -129.7	0.18 (1)	10.00			
H-B	-862 / 0	0.0 0.0	0.06 (1)	7.81			
F-D	-862 / 0	0.0 0.0	0.06 (1)	7.81			
H-G	0 / 0	-38.5 -38.5	0.19 (3)	10.00			
G-F	0 / 0	-38.5 -38.5	0.19 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 38.2 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 PSF

SPACING = 24.0 IN G/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, OBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.31")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.31")
CALCULATED VERT. DEFL.(TL) = L/999 (0.06")

CSI: TC=0.35/1.00 (B-C:1), BC=0.19/1.00 (F-G:3), WB=0.11/1.00 (B-G:1), SS=0.18/1.00 (B-C: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 = 1.00

AUTOSOLVE HEELS OFF

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	818 354	1667 788
	1987	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

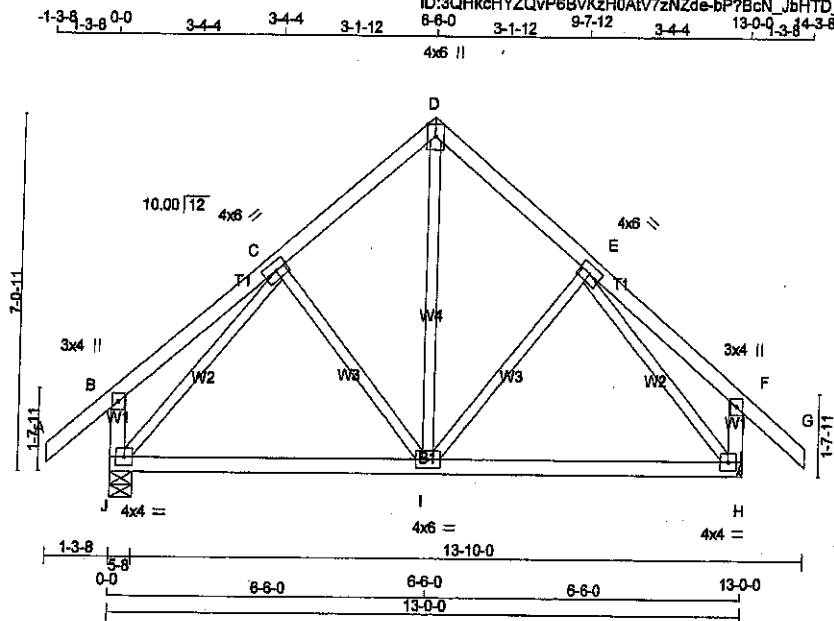
JSI GRIP= 0.82 (C) (INPUT = 0.90)
JSI METAL= 0.16 (D) (INPUT = 1.00)



DRWG NO. TAM **11805283**
STRUCTURAL
COMPONENT ONLY



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297081	T112	1	1	TRUSS DESC.	
Tamarack Roof Truss, Burlington					
Version 8.210 S May 18 2018 Mitek Industries, Inc. Mon Aug 20 13:06:44 2018 Page 1					
ID:3QHkcHYZQvP6BVkzH0AtV7zNZde-bP?BcN_jbHTD_fspcOmalcOmK8DD?OhJO8FLBJylynX					
Scale = 1:43.7					



LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF	
D - G	2x4	DRY	No.2	SPF	
J - B	2x4	DRY	No.2	SPF	
H - F	2x4	DRY	No.2	SPF	
J - H	2x4	DRY	No.2	SPF	

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)	W	LEN	Y	X
JT TYPE PLATES				
B TMV+p MT20	3.0	4.0		
C TMWW-t MT20	4.0	6.0		
D TTW+p MT20	4.0	6.0	Edge	
E TMWW-t MT20	4.0	6.0		
F TMV+p MT20	3.0	4.0		
H BMVW1-t MT20	4.0	4.0		
I BMVWW-t MT20	4.0	6.0		
J BMVW1-t MT20	4.0	4.0		

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

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	DOWN	HORIZ	UPLIFT
J	1273	0	1273	0
H	1273	0	1273	0

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT H.

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN	COMPONENT REACTIONS	PERM	LIVE	WIND	DEAD	SOIL
JT	COMBINED	SNOW					
J	925	603 / 0	137 / 0	0 / 0	0 / 0	188 / 0	0 / 0
H	925	603 / 0	137 / 0	0 / 0	0 / 0	188 / 0	0 / 0

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

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. CS (LC)	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS (LC)
FR-TO					FR-TO			
A-B	0 / 57	-129.7	-129.7	0.18 (1)	I-D	0 / 597	0.13 (1)	
B-C	0 / 31	-129.7	-129.7	0.21 (1)	I-E	-188 / 26	0.08 (1)	
C-D	-755 / 0	-129.7	-129.7	0.17 (1)	C-I	-188 / 26	0.08 (1)	
D-E	-755 / 0	-129.7	-129.7	0.17 (1)	J-C	-1075 / 0	0.48 (1)	
E-F	0 / 31	-129.7	-129.7	0.21 (1)	E-H	-1075 / 0	0.48 (1)	
F-G	0 / 57	-129.7	-129.7	0.18 (1)				
J-B	-341 / 0	0.0	0.0	0.04 (1)				
H-F	-341 / 0	0.0	0.0	0.04 (1)				
J-I	0 / 675	-38.5	-38.5	0.43 (2)				
I-H	0 / 675	-38.5	-38.5	0.43 (2)				

TOTAL WEIGHT = 62 lb (MIF)

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, OBC 2018
- CSA 086-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.43")
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
ALLOWABLE DEFL.(TL) = L/360 (0.43")
CALCULATED VERT. DEFL.(TL) = L/999 (0.09")

CSI: TC=0.21/1.00 (B-C-1), BC=0.43/1.00 (I-J-2), WB=0.46/1.00 (E-H-1), SSI=0.17/1.00 (I-J-3)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES	PLATE	GRIP(DRY)	SHEAR	SECTION
		(PSI)	(PLI)	(PLI)
		MAX	MIN	MAX
	MT20	618	354	1687

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (J) (INPUT = 0.90)
JSI METAL= 0.26 (E) (INPUT = 1.00)



DRWG NO. TAM 17605284
STRUCTURAL
CONC-ORIENT ONLY



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297081	G112	1	1	TRUSS DESC.	

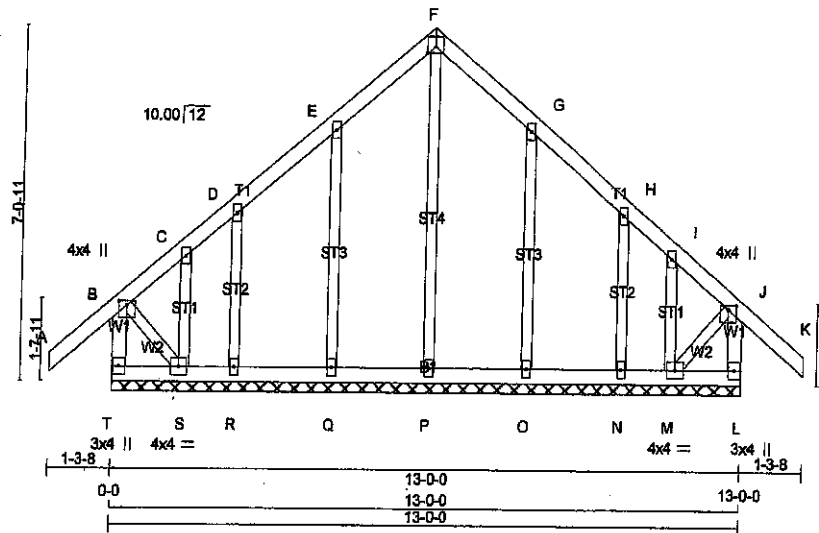
Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2018 Mitek Industries, Inc. Mon Aug 20 13:07:34 2018 Page 1

ID: AyJW7V_dk3D9O4qx_WrxBzNV4b-exmkvR8P4nf9avVMVhV9SrUpywQ6bpy0IFHajMyIyod

-1-3-8 0-0 6-6-0 6-6-0 6-2-8 12-6-8 13-0-0 14-3-8
4x4 = .

Scale = 1:43.9



TOTAL WEIGHT = 66 lb

LUMBER			
N.L.G.A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
T - B	2x4	DRY	No.2
A - F	2x4	DRY	No.2
F - K	2x4	DRY	No.2
L - J	2x4	DRY	No.2
T - L	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
ALL GABLE WEBS	2x3	DRY	No.2
DRY, SEASONED LUMBER.			
GABLE STUDS SPACED AT 2-0-0 OC.			

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMVW+p	MT20	4.0	4.0 1.00 2.00
C, D, E, G, H, I				
C	TMVW+w	MT20	2.0	4.0
F	TTW+p	MT20	4.0	4.0 1.50 2.00
J	TMVW+p	MT20	4.0	4.0 1.00 2.00
L	BMV1+p	MT20	3.0	4.0
M	BMWW1-t	MT20	4.0	4.0
N, O, P, Q, R				
N	BMW1+w	MT20	2.0	4.0
S	BMWW1-t	MT20	4.0	4.0
T	BMV1+p	MT20	3.0	4.0

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			
T-B	-408 / 0	0.0 0.0 0.04 (1)	7.81	P-F	-195 / 0	0.18 (1)	
A-B	0 / 57	-129.7 -129.7 0.18 (1)	10.00	Q-E	-303 / 0	0.13 (1)	
B-C	-94 / 0	-129.7 -129.7 0.17 (1)	6.25	R-D	-213 / 0	0.05 (1)	
C-D	-8 / 0	-129.7 -129.7 0.04 (1)	10.00	S-C	-23 / 0	0.00 (1)	
D-E	-14 / 0	-129.7 -129.7 0.08 (1)	6.25	O-G	-303 / 0	0.13 (1)	
E-F	-34 / 0	-129.7 -129.7 0.08 (1)	6.25	N-H	-213 / 0	0.05 (1)	
F-G	-34 / 0	-129.7 -129.7 0.08 (1)	6.25	M-I	-23 / 0	0.00 (1)	
G-H	-14 / 0	-129.7 -129.7 0.08 (1)	6.25	B-S	0 / 33	0.01 (1)	
H-I	-8 / 0	-129.7 -129.7 0.04 (1)	10.00	M-J	0 / 33	0.01 (1)	
I-J	-94 / 0	-129.7 -129.7 0.17 (1)	6.25				
J-K	-408 / 0	-129.7 -129.7 0.18 (1)	10.00				
L-J	-408 / 0	0.0 0.0 0.04 (1)	7.81				
T-S	0 / 0	-38.5 -38.5 0.01 (3)	10.00				
S-R	0 / 24	-38.5 -38.5 0.02 (2)	10.00				
R-Q	0 / 18	-38.5 -38.5 0.03 (3)	10.00				
Q-P	0 / 13	-38.5 -38.5 0.03 (3)	10.00				
P-O	0 / 13	-38.5 -38.5 0.03 (3)	10.00				
O-N	0 / 18	-38.5 -38.5 0.03 (3)	10.00				
N-M	0 / 24	-38.5 -38.5 0.02 (2)	10.00				
M-L	0 / 0	-38.5 -38.5 0.01 (3)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 PSF

SPACING = 24.0 IN C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, OBC 2018
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.18/1.00 (A-B:1), BC=0.03/1.00 (Q-R:3), WB=0.16/1.00 (F-P:1), SS=0.11/1.00 (B-C: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 = 1.00

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 788 1987 1658

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.32 (F) (INPUT = 0.90)
JSI METAL= 0.16 (E) (INPUT = 1.00)



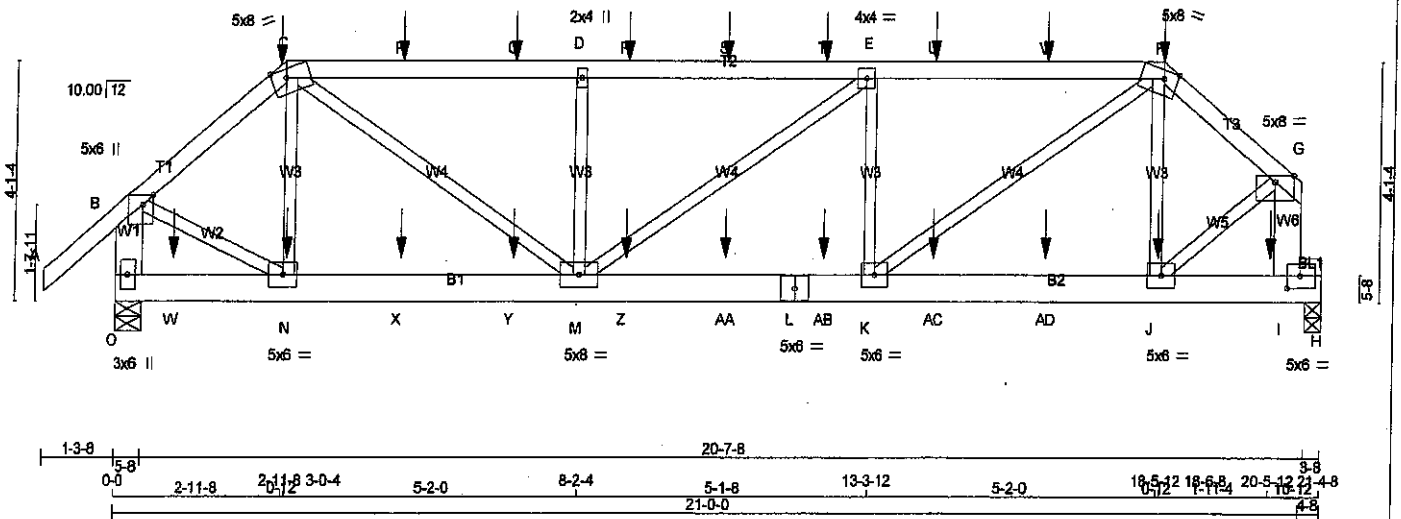
DRWG NO. TAM 11005265
STRUCTURAL
COMPONENT ONLY

JOB NAME 297078	TRUSS NAME T131	QUANTITY 1	PLY 2	JOB DESC. TRUSS DESC.	DRWG NO.
---------------------------	---------------------------	----------------------	-----------------	--------------------------	----------

Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2018 MTek Industries, Inc. Mon Aug 20 04:48:04 2018 Page 1
ID: P5XmF1xy53l8wCH47R2x3fzVvqf-85VagUH21_ZYXNqpmi9JcJ82kwZ05m7oyE9ym7j
18-6-8 2-5-8 21-0-0

Scale = 1:37.7



LUMBER

N. L. G. A. RULES

CHORDS

SIZE

LUMBER

DESCR.

A - C

2x4

DRY

No.2

SPF

C - F

2x4

DRY

No.2

SPF

F - G

2x4

DRY

No.2

SPF

O - B

2x6

DRY

No.2

SPF

I - G

2x6

DRY

No.2

SPF

O - L

2x6

DRY

No.2

SPF

L - H

2x6

DRY

No.2

SPF

BEARING BLOCKS

BL1

2x4

DRY

No.2

SPF

ALL WEBS EXCEPT

2x3

DRY

No.2

SPF

DRY: SEASONED LUMBER.

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

CHORDS #ROWS SURFACE SPACING (IN) LOAD (PLF)

TOP CHORDS : (0.122"x3") SPIRAL NAILS

A-C

1

12

SIDE(61.0)

C-F

1

12

SIDE(61.0)

F-G

1

12

SIDE(61.0)

O-B

2

12

TOP

I-G

2

12

TOP

BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS

O-L

2

12

SIDE(183.1)

L-H

2

12

SIDE(183.1)

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 PLYS 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

B

TMWW+p

MT20

5.0

6.0

2.00

2.25

C

TTWW-m

MT20

5.0

8.0

Edge

3.00

D

TMWW+w

MT20

2.0

4.0

E

TMWW-t

MT20

4.0

4.0

F

TTWW-m

MT20

5.0

8.0

Edge

3.00

G

TMWW-p

MT20

5.0

8.0

Edge

I

BMVK-t

MT20

5.0

6.0

2.50

2.75

J, K, N

L

BMWW-t

MT20

5.0

6.0

M

BS-t

MT20

5.0

6.0

O

BMWWW-t

MT20

5.0

8.0

BMV1+p

MT20

3.0

6.0

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

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

BEARINGS

FACTORED

GROSS REACTION

MAXIMUM FACTORED

GROSS REACTION

INPUT

BRG

REQD

BRG

JT

VERT

HORZ

DOWN

HORZ

UPLIFT

IN-SX

IN-SX

H

3251

0

3251

0

0

5-8

5-8

H

3082

0

3082

0

0

3-8

3-8

UNFACTORED REACTIONS

JT

1ST LGASE

MAX/MIN COMPONENT REACTIONS

O

COMBINED

SNOW

LIVE

PERM.LIVE

WIND

DEAD

SOIL

H

2370

1541/0

388/0

0/0

0/0

442/0

0/0

H

2257

1432/0

392/0

0/0

0/0

433/0

0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.99 FT.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS

MEMB.

MAX. FACTORED

FORCE

VERT. LOAD

LC1

MAX.

MAX.

UNBRAC

FR-TO

FROM

TO

CS1

LC

LENGTH

FR-TO

MEMB.

MAX. FACTORED

FORCE

MAX.

CS1

LC

A-B

0/57

-129.7

-129.7

0.10

(1)

10.00

N-C

-586/39

0.08

(1)

B-C

-2988/0

-129.7

-129.7

0.14

(1)

5.20

C-M

0/2470

0.31

(1)

C-P

-4285/0

-129.7

-129.7

0.53

(1)

4.02

M-D

-1171/0

0.15

(1)

P-Q

-4285/0

-129.7

-129.7

0.53

(1)

4.02

M-E

0/49

0.01

(1)

Q-D

-4285/0

-129.7

-129.7

0.53

(1)

4.02

K-E

-1208/0

0.15

(1)

D-R

-4285/0

-129.7

-129.7

0.54

(1)

3.99

K-F

0/2480

0.30

(1)

R-S

-4285/0

-129.7

-129.7

0.54

(1)

3.99

J-F

-527/49

0.07

(1)

S-T

-4285/0

-129.7

-129.7

0.54

(1)

3.99

B-N

0/2480

0.30

(1)

T-E

-4285/0

-129.7

-129.7

0.54

(1)

3.99

J-G

0/2480

0.30

(1)

E-U

-4245/0

-129.7

-129.7

0.54

(1)

4.01

U-V

-4245/0

-129.7

-129.7

0.54

(1)

4.01

V-F

-4245/0

-129.7

-129.7

0.54

(1)

4.01

F-G

-2948/0

-129.7

-129.7

0.10

(1)

5.27

G-B

-3207/0

0.0

0.0

0.12

(1)

7.73

I-G

-3880/0

0.0

0.0

0.15

(1)

7.19

O-W

0/0

-38.5

-38.5

0.05

(2)

10.00

W-N

0/0

-38.5

-38.5

0.05

(2)

10.00

N-X

0/2270

-38.5

-38.5

0.19

(1)

10.00

X-Y

0/2270

-38.5

-38.5

0.19

(1)

10.00

Y-M

0/2270

-38.5

-38.5

0.19

(1)

10.00

M-Z

0/4246

-38.5

-38.5

0.38

(1)

10.00

Z-AA

0/4246

-38.5

-38.5

0.38

(1)

10.00

AA-L

0/4246

-38.5

-38.5

0.38

(1)

10.00

L-AB

0/4246

-38.5

-38.5

0.38

(1)

10.00

AB-K

0/4246

-38.5

-38.5

0.38

(1)

10.00

K-AC

0/2238

-38.5

-38.5

0.29

(1)

10.00

AC-AD

0/2238

-38.5

-38.5

0.29

(1)

10.00

AD-J

0/2238

-38.5

-38.5

0.29

(1)

10.00

J-I

-538/0

-38.5

-38.5

0.67

(1)

6.25

I-H

0/0

-168.2

-168.2

0.42

(1)

10.00

SPECIFIED CONCENTRATED LOADS (LBS)

JT

LOC.

LC1

MAX-

MAX+

FACE

DIR.

TYPE

C

2-11-8

-28

-28

FRONT

VERT

DEAD

C

2-11-8

-148

-148

BACK

VERT

TOTAL

C

2-11-8

-176

-176

FRONT

VERT

SNOW

F

18-6-8

-28

-28

FRONT

VERT

DEAD

F

18-6-8

-112

-112

BACK

VERT

TOTAL

F

18-6-8

-176

-176

FRONT

VERT

SNOW

I

20-5-12

-43

-43

BACK

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

=

38.2

PSF

DL

=

8.0

PSF

BOT

CH.

LL

=

10.5

PSF

DL

=

7.0

PSF

TOTAL

LOAD

=

51.7

PSF

SPACING = 24.0 IN./C/C

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

*** 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, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, OBC 2018

- CSA 086-09, CSA 086-14

- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.71")

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

ALLOWABLE DEFL.(TL)= L/360 (0.71")

CALCULATED VERT. DEFL.(TL) = L/999 (0.13")

CSI: TC=0.54/1.00 (E-F:1), BC=0.67/1.00 (H-I:1), VB=0.41/1.00 (G-J:1), SS=0.62/1.00 (H-I:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00

CMP=1.00 SHEAR=1.00 TENS=1.00

COMPANION LIVE LOAD FACTOR = 1.00

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)

MT20

618

354

1867

788

1987

1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (B) (INPUT = 0.90)

JSI METAL= 0.44 (L) (INPUT = 1.00)

1/2

LICENSED PROFESSIONAL ENGINEER

09/20/16

H.J.G. ALVES

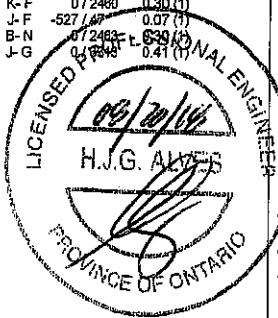
PROVINCE OF ONTARIO

DWG NO. TAM T1805184

STRUCTURAL

COMPONENT ONLY

CONTINUED ON PAGE 2



DWG NO. TAM 71805784
STRUCTURAL
COMPONENT ONLY

JOB NAME 297078	TRUSS NAME T131	QUANTITY 1	PLY 2	JOB DESC. TRUSS DESC.	DRWG NO.
---------------------------	---------------------------	----------------------	-----------------	---------------------------------	----------

Tamarack Roof Truss, Burlington

Version 8.210.9 May 18 2018 MITek Industries, Inc. Mon Aug 20 04:48:04 2018 Page 2
ID:P5XmF1xy53l8wCH47R2x3fzNvgf-65VagUH21_ZYXNQpiml9JcI82kwZ05m7ovEbsym2j



HANGERS NOTES

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 299.0 lbs FACTORED DOWN AT 18-8-8, 299.0 lbs FACTORED DOWN AT 2-11-8, 156.1 lbs FACTORED DOWN AT 5-0-4, 156.1 lbs FACTORED DOWN AT 7-0-4, 156.1 lbs FACTORED DOWN AT 8-0-4, 156.1 lbs FACTORED DOWN AT 10-9-0, 156.1 lbs FACTORED DOWN AT 12-5-12, 156.1 lbs FACTORED DOWN AT 14-5-12, AND 156.1 lbs FACTORED DOWN AT 16-5-12, AND 163.1 lbs AND 54.9 lbs FACTORED DOWN AT 1-0-4, 61.9 lbs FACTORED DOWN AT 3-0-4, 54.9 lbs FACTORED DOWN AT 5-0-4, 54.9 lbs FACTORED DOWN AT 7-0-4, 54.9 lbs FACTORED DOWN AT 9-0-4, 54.9 lbs FACTORED DOWN AT 10-9-0, 54.9 lbs FACTORED DOWN AT 12-5-12, 54.9 lbs FACTORED DOWN AT 14-5-12, 54.9 lbs FACTORED DOWN AT 16-5-12, AND 61.9 lbs FACTORED DOWN AT 18-5-12, AND 61.1 lbs FACTORED DOWN AT 20-5-12 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

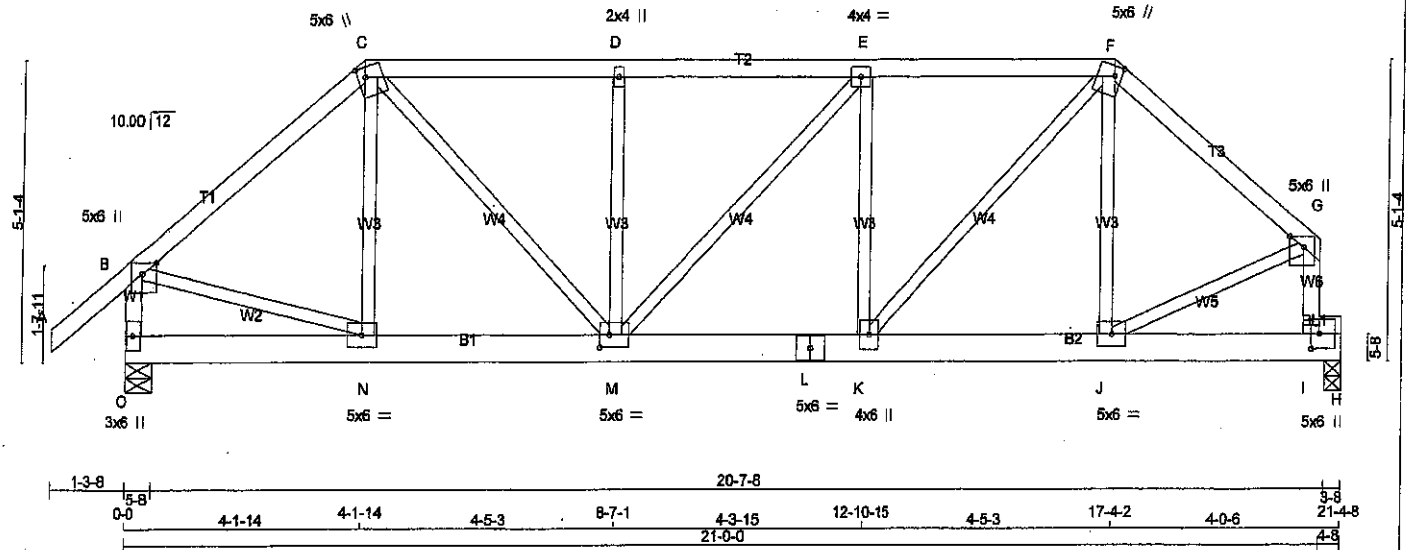
SPECIFIED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
J	18-5-12	-44	-44	---	BACK	VERT	TOTAL
N	3-0-4	-44	-44	---	BACK	VERT	TOTAL
P	5-0-4	-106	-106	---	BACK	VERT	TOTAL
Q	7-0-4	-106	-106	---	BACK	VERT	TOTAL
R	9-0-4	-106	-106	---	BACK	VERT	TOTAL
S	10-9-0	-106	-106	---	BACK	VERT	TOTAL
T	12-5-12	-106	-106	---	BACK	VERT	TOTAL
U	14-5-12	-106	-106	---	BACK	VERT	TOTAL
V	16-5-12	-106	-106	---	BACK	VERT	TOTAL
W	1-0-4	-38	-38	---	BACK	VERT	TOTAL
X	5-0-4	-38	-38	---	BACK	VERT	TOTAL
Y	7-0-4	-38	-38	---	BACK	VERT	TOTAL
Z	9-0-4	-38	-38	---	BACK	VERT	TOTAL
AA	10-9-0	-38	-38	---	BACK	VERT	TOTAL
AB	12-5-12	-38	-38	---	BACK	VERT	TOTAL
AC	14-5-12	-38	-38	---	BACK	VERT	TOTAL
AD	16-5-12	-38	-38	---	BACK	VERT	TOTAL



DWG NO. TAM 11805184
STRUCTURAL
COMPONENT ONLY 2/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297078	T132	1	1	TRUSS DESC.	
Tamarack Roof Truss, Burlington					
Version 8.210 S May 18 2018 MiTek Industries, Inc. Mon Aug 20 04:58:07 2018 Page 1 ID: P5Xmf1xy53IBwCH47R2x3f2Nvqf-XgAIIWJwKvX7Qq9OzvJxvFLg7yzKDTEZUwwvcUym7jc -1-3-81-3-8 0-0 4-1-14 4-1-14 4-5-3 8-7-1 4-3-15 12-10-15 4-5-3 17-4-2 3-7-14 21-0-0					
Scale = 1:37.3					



TOTAL WEIGHT = 106 lb

LUMBER				
N. L. G. A. RULES				
CHORDS		SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - F	2x4	DRY	No.2	SPF
F - G	2x4	DRY	No.2	SPF
O - B	2x4	DRY	No.2	SPF
I - G	2x4	DRY	No.2	SPF
O - L	2x6	DRY	No.2	SPF
L - H	2x6	DRY	No.2	SPF

BEARING BLOCKS				
BL1	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
B	TMMW+p	MT20	5.0	6.0	Edge	2.75
C	TTWW+m	MT20	5.0	6.0	2.00	1.50
D	TMMW+v	MT20	2.0	4.0		
E	TMMW+t	MT20	4.0	4.0		
F	TTWW+m	MT20	5.0	6.0	2.00	1.50
G	TMMW+p	MT20	5.0	6.0	Edge	2.75
I	BMVK+p	MT20	5.0	6.0	3.00	1.75
J	BMWW+t	MT20	5.0	6.0		
K	BMWW+v	MT20	4.0	6.0		
L	BS-t	MT20	5.0	6.0		
M	BMWW+m	MT20	5.0	6.0	2.50	2.00
N	BMWW+t	MT20	5.0	6.0		
O	BMV1+p	MT20	3.0	6.0		

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

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

FACTORED GROSS REACTION			MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
O	1976	0	1976	0	0	5-8	5-8
H	1749	0	1749	0	0	3-8	3-8

UNFACTORED REACTIONS

1ST LOASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
O	1441	923 / 0	224 / 0	0 / 0	0 / 0	294 / 0	0 / 0
H	1286	789 / 0	224 / 0	0 / 0	0 / 0	273 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.33 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT OR RIGID CEILING DIRECTLY APPLIED

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS				
MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS1 (LC)	MAX. UNBRAC	MEMB.	MAX. FORCE (LBS)	FACTORED MAX CS1 (LC)	
FR-TO		FROM TO		LENGTH	FR-TO			
A-B	0 / 57	-128.7	-129.7	0.18 (1)	10.00	N-C	-177 / 92	0.06 (1)
B-C	-1694 / 0	-129.7	-129.7	0.46 (1)	4.56	J-F	-107 / 107	0.04 (1)
C-D	-2001 / 0	-129.7	-129.7	0.39 (1)	4.35	N-F	0 / 1351	0.30 (1)
D-E	-2001 / 0	-129.7	-129.7	0.40 (1)	4.33	J-G	0 / 1619	0.36 (1)
E-F	-1987 / 0	-129.7	-129.7	0.40 (1)	4.35	K-F	0 / 995	0.22 (1)
F-G	-1707 / 0	-129.7	-129.7	0.36 (1)	4.69	C-M	0 / 1031	0.23 (1)
O-B	-1910 / 0	0.0	0.0	0.20 (1)	6.08	K-E	-629 / 0	0.23 (1)
I-G	-1989 / 0	0.0	0.0	0.22 (1)	5.98	M-D	-609 / 0	0.22 (1)
						M-E	0 / 20	0.00 (1)
C-N	0 / 0	-38.5	-38.5	0.06 (3)	10.00			
N-M	0 / 1284	-38.5	-38.5	0.20 (1)	10.00			
M-L	0 / 1987	-38.5	-38.5	0.30 (1)	10.00			
L-K	0 / 1987	-38.5	-38.5	0.30 (1)	10.00			
K-J	0 / 1305	-38.5	-38.5	0.33 (1)	10.00			
J-I	-176 / 0	-38.5	-38.5	0.61 (1)	6.25			
I-H	0 / 0	-38.5	-38.5	0.38 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	38.2	PSF
	DL =	6.0	PSF
BOT CH.	LL =	10.5	PSF
	DL =	7.0	PSF
TOTAL LOAD =		61.7	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, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, OBC 2018
- CSA 086-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.71")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (0.71")
CALCULATED VERT. DEFL.(TL) = L/999 (0.11")

CSI: TC=0.46/1.00 (B-C:1), BC=0.61/1.00 (I-J:1),
WB=0.36/1.00 (G-J:1), SSI=0.64/1.00 (H-I: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 = 1.00

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

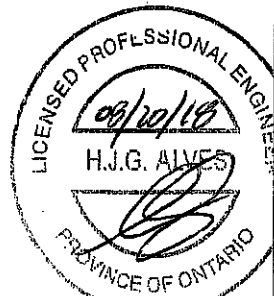
NAIL VALUES					
PLATE	GRIP(DRY) (PSI)		SHEAR (PLI)		SECTION (PLI)
	MAX	MIN	MAX	MIN	MAX MIN
MT20	618	354	1667	788	1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (C) (INPUT = 0.90)
JSI METAL= 0.41 (L) (INPUT = 1.00)

DWG NO. TAM 11805/85
STRUCTURAL
COMPONENT ONLY

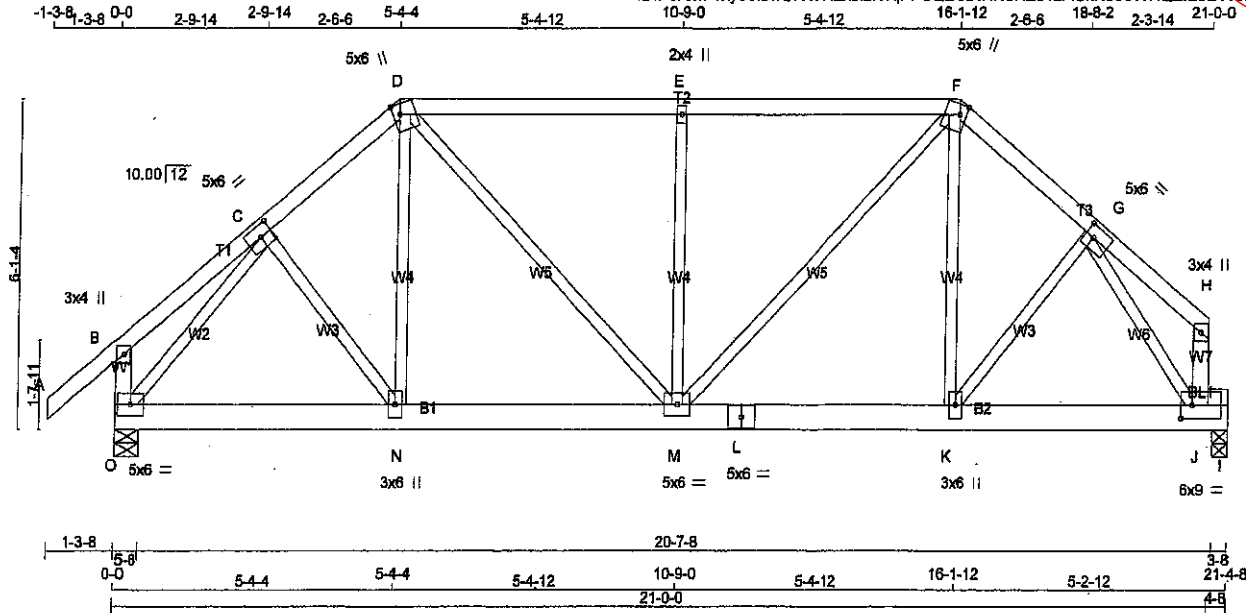


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297078	T133	1	1	TRUSS DESC.	

Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2018 M/Tek Industries, Inc. Mon Aug 20 06:31:11 2018 Page 1

ID: P5XmF1xy53BwCH47R2x3fzNvqf-PSQD8BNR8ZRSACKNo65WHQZIL9DW9PY06LFm2YY



Scale = 1:40.8

TOTAL WEIGHT = 109 lb

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF	
D - F	2x4	DRY	No.2	SPF	
F - H	2x4	DRY	No.2	SPF	
O - B	2x4	DRY	No.2	SPF	
O - H	2x4	DRY	No.2	SPF	
O - L	2x6	DRY	No.2	SPF	
L - I	2x6	DRY	No.2	SPF	

BEARING BLOCKS	BL1	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
B	TMV+p	MT20	3.0	4.0		
C	TMVW+t	MT20	5.0	6.0	2.50	2.75
D	TTVW+m	MT20	5.0	6.0	2.25	1.50
E	TMV+w	MT20	2.0	4.0		
F	TTVW+m	MT20	5.0	6.0	2.25	1.50
G	TMVW+t	MT20	5.0	6.0	2.50	2.00
H	TMV+p	MT20	3.0	4.0		
J	BMVW+k	MT20	6.0	9.0	3.00	2.50
K	BMVW+t	MT20	3.0	6.0		
L	BS-t	MT20	5.0	6.0		
M	BMVWV+t	MT20	5.0	6.0		
N	BMVWV+t	MT20	3.0	6.0		
O	BMVWV+t	MT20	5.0	6.0		

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

FACTORED		MAXIMUM FACTORED		INPUT		REQD	
GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
I	1749	0	1749	0	0	3-8	3-8
O	1976	0	1976	0	0	5-8	5-8

UNFACTORED REACTIONS

1ST CASE		MAX/MIN COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
I	1286	789 / 0	224 / 0	0 / 0	0 / 0	273 / 0	0 / 0
O	1441	923 / 0	224 / 0	0 / 0	0 / 0	294 / 0	0 / 0

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

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.

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED	FACTORED	MAX.	MEMB.	MAX. FACTORED	FACTORED	MAX.
	FORCE	VERT. LOAD LC1	CS1 (LC)		FORCE	CS1 (LC)	
FR-TO	(LBS)	FROM	TO	FR-TO	(LBS)	CS1 (LC)	
A-B	0 / 57	-129.7	-129.7 0.18 (1)	10.00	N-D	0 / 219	0.05 (3)
B-C	0 / 22	-129.7	-129.7 0.13 (1)	10.00	D-M	0 / 677	0.15 (1)
C-D	-1698 / 0	-129.7	-129.7 0.18 (1)	4.95	M-E	-853 / 0	0.47 (1)
D-E	-1750 / 0	-129.7	-129.7 0.73 (1)	3.98	M-F	0 / 655	0.15 (1)
E-F	-1750 / 0	-129.7	-129.7 0.73 (1)	3.98	K-F	0 / 235	0.05 (2)
F-G	-1713 / 0	-129.7	-129.7 0.15 (1)	4.95	C-N	0 / 121	0.03 (3)
G-H	0 / 33	-129.7	-129.7 0.11 (1)	10.00	O-C	-1990 / 0	0.60 (1)
O-B	-320 / 0	0.0	0.0 0.03 (1)	7.81	K-G	0 / 401	0.09 (1)
J-H	-101 / 0	0.0	0.0 0.01 (1)	7.81	G-J	-2076 / 0	0.58 (1)
O-N	0 / 1221	-38.5	-38.5 0.22 (1)	10.00			
N-M	0 / 1286	-38.5	-38.5 0.23 (1)	10.00			
M-L	0 / 1301	-38.5	-38.5 0.36 (1)	10.00			
L-K	0 / 1301	-38.5	-38.5 0.36 (1)	10.00			
K-J	0 / 1048	-38.5	-38.5 0.73 (1)	10.00			
J-I	0 / 0	-38.5	-38.5 0.38 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 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, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2012, CBC 2018
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.71")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL) = L/360 (0.71")
CALCULATED VERT. DEFL.(TL) = L/999 (0.12")

CS1: TC=0.73/1.00 (D-E:1), BC=0.73/1.00 (J-K:1), WB=0.80/1.00 (C-O:1), SS=0.84/1.00 (I-J: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 = 1.00

AUTOSOLVE HEELS OFF

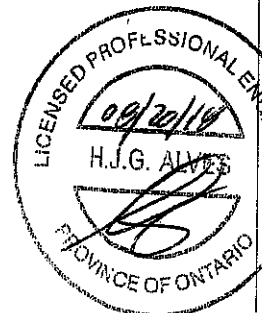
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(FBI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1997 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

381 GRIP= 0.88 (J) (INPUT = 0.90)
JSI METAL= 0.49 (G) (INPUT = 1.00)



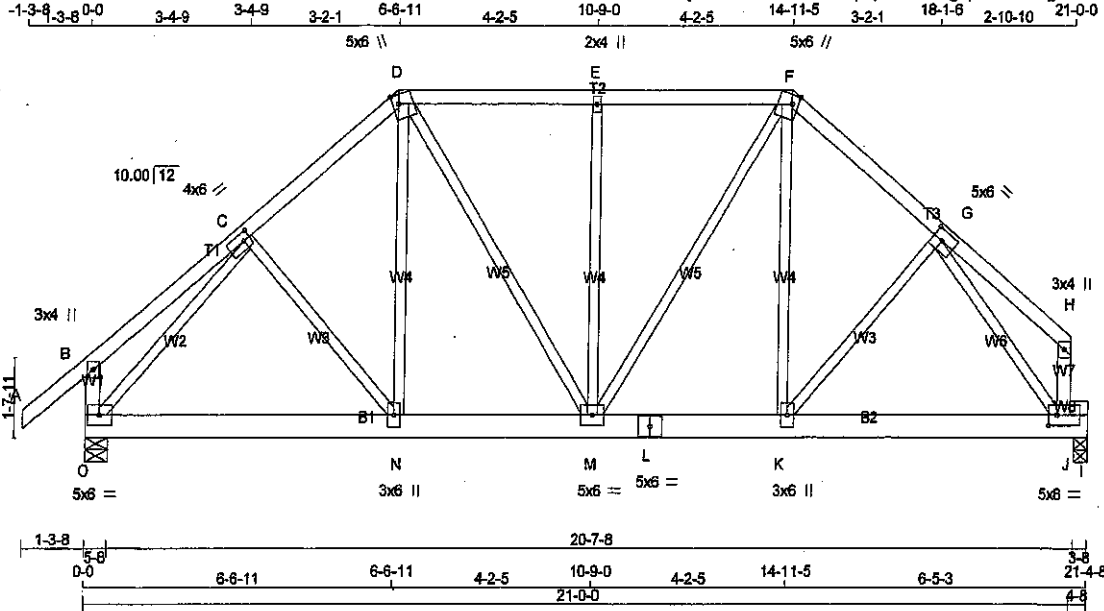
DWG NO. TAM 1705706
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297078	T134	1	1	TRUSS DESC.	

Tamarack Roof Truss, Burlington

Version 9.210 S May 18 2018 Mitek Industries, Inc. Mon Aug 20 09:48:14 2018 Page 1

ID:P5Xmf1xy5318wCH47R2x3fzNvqf-q15MmvPJg3p8kvBktbvJl8tmNVmX4b5W7myaym?V



Scale = 1:45.2

LUMBER

N.L.G.A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
O - B	2x4	DRY	No.2
J - H	2x4	DRY	No.2
O - L	2x6	DRY	No.2
L - I	2x6	DRY	No.2
J - I	2x4	DRY	No.2

ALL WEBS 2x3 DRY EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TMVW+1	MT20	4.0	6.0	2.00	1.75
D	TTWV+m	MT20	5.0	6.0	2.25	1.50
E	TMVW+1	MT20	2.0	4.0		
F	TTWV+m	MT20	5.0	6.0	2.25	1.50
G	TMVW+1	MT20	5.0	6.0	2.50	2.50
H	TMV+p	MT20	3.0	4.0		
J	BMVWV+1	MT20	5.0	6.0	2.50	2.00
K	BMVWV+1	MT20	3.0	6.0		
L	BS-1	MT20	5.0	6.0		
M	BMVWV+1	MT20	5.0	6.0		
N	BMVWV+1	MT20	3.0	6.0		
O	BMVWV+1	MT20	5.0	6.0		

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	DOWN	GROSS REACTION	HORZ	BRG	IN-SX	BRG	IN-SX
O	1976	0	1976	0	0	5-8	5-8		
I	1749	0	1749	0	0	3-8	3-8		

UNFACTORED REACTIONS

JT	1ST LCASE	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
O	1441	923 / 0	224 / 0	0 / 0	0 / 0	0 / 0	294 / 0	0 / 0
I	1266	789 / 0	224 / 0	0 / 0	0 / 0	0 / 0	273 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.90 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. CSI (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		LENGTH	FR-TO			
A-B	0 / 57	-129.7	-129.7	0.18 (1)	10.00	C-N	-40 / 80	0.02 (3)
B-C	0 / 30	-129.7	-129.7	0.21 (1)	10.00	N-D	0 / 334	0.08 (2)
C-D	-1842 / 0	-129.7	-129.7	0.25 (1)	4.81	D-M	0 / 410	0.09 (1)
D-E	-1457 / 0	-129.7	-129.7	0.41 (1)	4.80	M-E	-656 / 0	0.54 (1)
E-F	-1457 / 0	-129.7	-129.7	0.41 (1)	4.80	M-F	0 / 386	0.09 (1)
F-G	-1654 / 0	-129.7	-129.7	0.22 (1)	4.93	K-F	0 / 352	0.08 (2)
G-H	0 / 30	-129.7	-129.7	0.18 (1)	10.00	K-G	0 / 167	0.04 (2)
O-B	-344 / 0	0.0	0.0	0.04 (1)	7.81	O-C	-1979 / 0	0.81 (1)
J-H	-132 / 0	0.0	0.0	0.01 (1)	7.81	G-J	-2003 / 0	0.72 (1)
O-N	0 / 1261	-38.5	-38.5	0.25 (1)	10.00			
N-M	0 / 1240	-38.5	-38.5	0.24 (2)	10.00			
M-L	0 / 1253	-38.5	-38.5	0.36 (1)	10.00			
L-K	0 / 1253	-38.5	-38.5	0.36 (1)	10.00			
K-J	0 / 1148	-38.5	-38.5	0.57 (1)	10.00			
J-I	0 / 0	-38.5	-38.5	0.27 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 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, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, OBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.71")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.07")
ALLOWABLE DEFL.(TL) = $L/360$ (0.71")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.12")

CSI: TC=0.41/1.00 (E-F-1), BC=0.57/1.00 (J-K-1), WB=0.81/1.00 (O-O-1), SS=0.64/1.00 (L-J-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 = 1.00

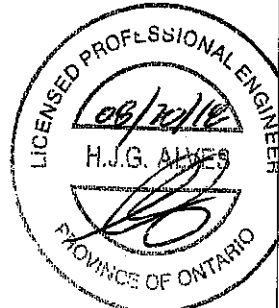
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 788 1987 1686

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.88 (C) (INPUT = 0.90)
JSI METAL=0.49 (C) (INPUT = 1.00)



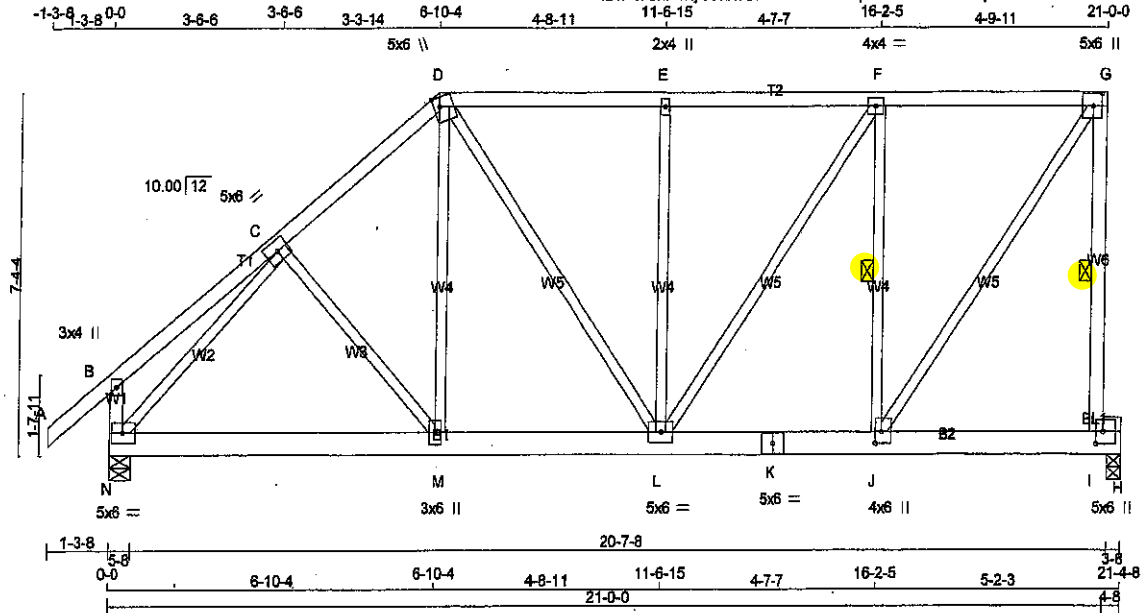
DWG NO. TAM 1805187
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297078	T136	2	1	TRUSS DESC.	

Tamarack Roof Truss, Burlington

Version 8.210 S May 16 2018 Mitek Industries, Inc. Mon Aug 20 05:48:22 2018 Page 1

ID: P5Xmf1xy53l8wCH47R2x3fzNvqf-bZaNSeVLoVWq?h8oHLY4N2PTF575rD7?nm3BE7ym?N



Scale = 1:44.8

TOTAL WEIGHT = 2 X 120 = 239 lb

LUMBER

N.L.G.A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - G	2x4	DRY	No.2	SPF
I - G	2x4	DRY	No.2	SPF
N - B	2x4	DRY	No.2	SPF
N - K	2x6	DRY	No.2	SPF
K - H	2x6	DRY	No.2	SPF

BEARING BLOCKS

BL1	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
B	TMV+p	MT20	3.0	4.0		
C	TMVW+1	MT20	5.0	6.0		
D	TTWW+m	MT20	5.0	6.0	2.25	1.50
E	TMVW+w	MT20	2.0	4.0		
F	TMVW+1	MT20	4.0	4.0		
G	TMVW+p	MT20	5.0	6.0	3.00	2.25
I	BMVW+p	MT20	5.0	6.0	3.00	1.75
J	BMVW+1	MT20	4.0	5.0	2.75	1.50
K	BS+1	MT20	5.0	6.0		
L	BMVW+1	MT20	5.0	6.0		
M	BMVW+1	MT20	3.0	6.0		
N	BMVW+1	MT20	5.0	6.0		

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
N	1976	0	1976	0	0	5-8	5-8	5-8	5-8
H	1749	0	1749	0	0	3-8	3-8	3-8	3-8

UNFACTORED REACTIONS

JT	1ST CASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
N	1441	923 / 0	224 / 0	0 / 0	0 / 0	294 / 0	0 / 0
H	1286	789 / 0	224 / 0	0 / 0	0 / 0	273 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.99 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF G-I, F-J.

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 (PL)	MAX. CS (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS (LC)	MAX. UNBRACED LENGTH
FR-TO		FROM TO		FR-TO			
A-B	0 / 57	-129.7 -129.7	0.18 (1)	C-M	-72 / 73	0.03 (1)	10.00
B-C	0 / 32	-129.7 -129.7	0.23 (1)	M-D	0 / 372	0.08 (2)	10.00
C-D	-1627 / 0	-129.7 -129.7	0.28 (1)	N-C	-1976 / 0	0.97 (1)	4.89
D-E	-1395 / 0	-129.7 -129.7	0.41 (1)	J-G	0 / 1895	0.45 (1)	4.89
E-F	-1395 / 0	-129.7 -129.7	0.43 (1)	D-L	0 / 300	0.07 (1)	4.89
F-G	-1092 / 0	-129.7 -129.7	0.42 (1)	J-F	-1130 / 0	0.37 (1)	5.46
I-G	-1897 / 0	0.0 0.0	0.44 (1)	L-E	-653 / 0	0.59 (1)	4.89
N-B	-351 / 0	0.0 0.0	0.04 (1)	L-F	0 / 550	0.12 (1)	7.61
N-M	0 / 1270	-38.5 -38.5	0.26 (2)				10.00
M-L	0 / 1227	-38.5 -38.5	0.26 (2)				10.00
L-K	0 / 1092	-38.5 -38.5	0.32 (1)				10.00
K-J	0 / 1092	-38.5 -38.5	0.32 (1)				10.00
J-I	-40 / 0	-38.5 -38.5	0.61 (1)				8.25
I-H	0 / 0	-38.5 -38.5	0.38 (1)				10.00

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	= 38.2 PSF
DL	= 8.0 PSF
BOT CH. LL	= 10.5 PSF
DL	= 7.0 PSF
TOTAL LOAD	= 61.7 PSF

SPACING = 24.0 IN/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 8.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, OBC 2018
- CSA 085-09, CSA 085-14
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.71")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.07")
ALLOWABLE DEFL.(TL) = $L/360$ (0.71")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.12")

CSI: TC=0.44/1.00 (G-I:1), BC=0.61/1.00 (I-J:1), WB=0.87/1.00 (C-N:1), SS=0.64/1.00 (H-I: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 = 1.00

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

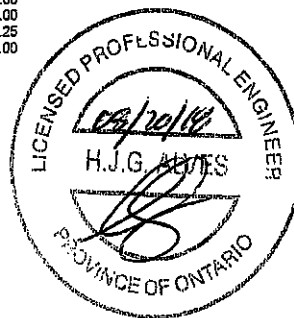
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
MT20	618	354	1687 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.90 (G) (INPUT = 0.90)
JSI METAL= 0.51 (J) (INPUT = 1.00)



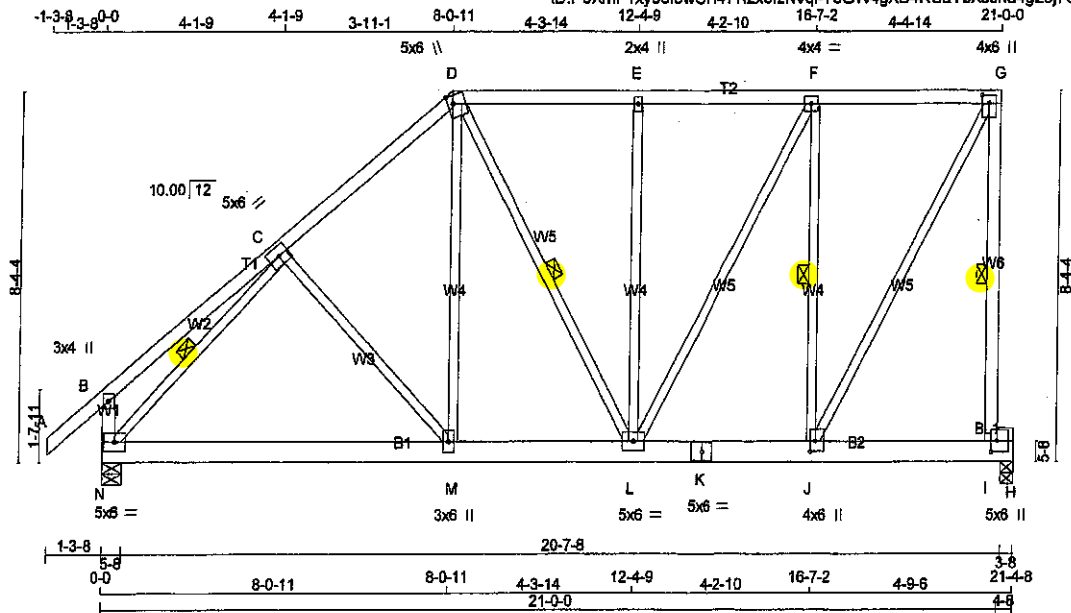
DRWG NO. TAM 11805199
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297078	T137	2	1	TRUSS DESC.	

Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2018 Mitek Industries, Inc. Mon Aug 20 07:25 2018 Page 1

ID:P5XmE1xy53l8wCH47R2x3fzNvgf-78GW4gXD4RCaYbXs0hd4g25i7C6XQVEddHsrRvm?iK



Scale = 1:49.8

TOTAL WEIGHT = 2 X 126 = 253 lb.

LUMBER			
N.	L.	G.	A. RULES
CHORDS	SIZE	LUMBER	DESC
A - D	2x4	DRY	No.2
D - G	2x4	DRY	No.2
I - G	2x4	DRY	No.2
N - B	2x4	DRY	No.2
N - K	2x6	DRY	No.2
K - H	2x6	DRY	No.2

BEARING BLOCKS				
BL1	2x4	DRY	No.2	SPE

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
J	TYPE	PLATES	W	LEN	Y X
B	TMV+p	MT20	3.0	4.0	
C	TMV+Vt	MT20	5.0	6.0	
D	TTVMV+m	MT20	5.0	6.0	2.25 1.50
E	TMV++w	MT20	2.0	4.0	
F	TMV+Vt	MT20	4.0	4.0	
G	TMV+Vp	MT20	4.0	6.0	2.25 2.00
I	BMV+K+p	MT20	5.0	6.0	3.00 1.75
J	BMV+Vt	MT20	4.0	6.0	2.75 1.50
K	5S+	MT20	5.0	6.0	
L	BMV+VW+Vt	MT20	5.0	6.0	
M	BMV+Vt	MT20	3.0	6.0	
N	BMV+Vt	MT20	5.0	6.0	

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

BUILDING DESIGNER

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT	REQRD
GROSS REACTION		GROSS REACTION				BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
N	1976	0	1978	0	0	5-8	5-8
H	1749	0	1749	0	0	3-8	3-8

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
N	1441	923 / 0	224 / 0	0 / 0	0 / 0	294 / 0	0 / 0
H	1286	789 / 0	224 / 0	0 / 0	0 / 0	273 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.83 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED

1 LATERAL BRACE(S) AT 1/2 LENGTH OF G-I, C-N, D-L, F-J.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MAX. FACTORED		FACTORED		MAX. FACTORED			
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	MAX. CSI (C)	MAX. UNBRAC	MEMB.	FORCE (LBS)	MAX. CSI (C)
FR-TO		FROM TO		LENGTH	FR-TO		
A-B	0/57	-129.7 -129.7	0.18 (1)	10.00	C-M	-197/45	0.13 (1)
B-C	0/39	-129.7 -129.7	0.34 (1)	10.00	M-D	0/496	0.11 (2)
C-D	-1547/0	-129.7 -129.7	0.39 (1)	4.83	N-C	-1952/0	0.50 (1)
D-E	-1189/0	-129.7 -129.7	0.33 (1)	5.42	J-G	0/1933	0.43 (1)
E-F	-1189/0	-129.7 -129.7	0.35 (1)	5.40	D-L	-46/58	0.03 (3)
F-G	-899/0	-129.7 -129.7	0.34 (1)	6.01	J-F	-1163/0	0.49 (1)
I-G	-1926/0	0.0 0.0	0.58 (1)	4.85	L-E	-587/0	0.78 (1)
N-B	-378/0	0.0 0.0	0.04 (1)	7.81	L-F	0/621	0.14 (1)
N-M	0/1288	-38.5 -38.5	0.31 (2)	10.00			
M-L	0/1162	-38.5 -38.5	0.30 (2)	10.00			
L-K	0/899	-38.5 -38.5	0.29 (1)	10.00			
K-J	0/899	-38.5 -38.5	0.29 (1)	10.00			
J-I	-35/0	-38.5 -38.5	0.61 (1)	6.25			
I-H	0/0	-38.5 -38.5	0.38 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	38.2	PSF
	DL =	6.0	PSF
BOT CH.	LL =	10.5	PSF
	DL =	7.0	PSF
TOTAL LOAD	=	61.7	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, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, OBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.71")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (0.71")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.11")

CSI: TC=0.58/1.00 (G-I:1), BC=0.61/1.00 (I-J:1),
WB=0.78/1.00 (E-L:1), SS=0.64/1.00 (H-I: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 = 1.00

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

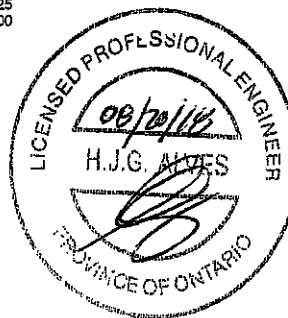
NAIL VALUES					
PLATE	GRIP(DRY)		SHEAR		SECTION
	(PSI)		(PLI)		(PLI)
	MAX	MIN	MAX	MIN	MAX MIN
MT20	618	354	1667	788	1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.87 (G) (INPUT = 0.90)
JSI METAL= 0.48 (C) (INPUT = 1.00)

DWG NO. TAM 11805790
STRUCTURAL
COMPONENT ONLY





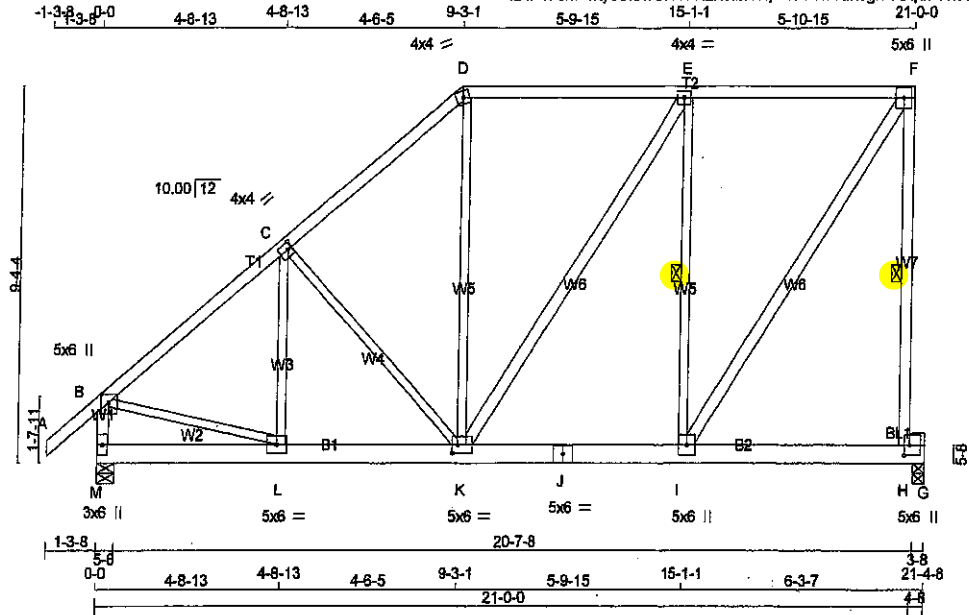
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297078	T138	2	1	TRUSS DESC.	

Tamarack Roof Truss, Burlington

Version 9.210 S May 18 2018 MTEK Industries, Inc. Mon Aug 20 14:29 2018 Page 1

ID:P5XmF1xy53l8wCH47R2x3fzNvqf-uvV1w1ak8gI71CqdFVl0quGLYpUTMNNpYLF3_Dym7IG 21-0-0

Scale = 1:54.8



TOTAL WEIGHT = 2 X 129 = 258 lb

LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.	BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION
A - D	2x4	DRY	No.2	SPF	VERT	1976	1976
D - F	2x4	DRY	No.2	SPF	HORIZ	0	0
H - F	2x4	DRY	No.2	SPF	DOWN	1749	1749
M - B	2x4	DRY	No.2	SPF	HORIZ	0	0
M - J	2x6	DRY	No.2	SPF	UPLIFT	0	0
J - G	2x6	DRY	No.2	SPF	IN-SX	5-8	3-8

BEARING BLOCKS				UNFACTORED REACTIONS			
BL1	2x4	DRY	No.2	1ST LCASE	MAX/MIN. COMPONENT REACTIONS		
ALL WEBS	2x3	DRY	No.2	JT	COMBINED	SNOW	LIVE
EXCEPT				M	1441	923 / 0	224 / 0
K - E	2x4	DRY	No.2	G	1286	789 / 0	224 / 0
I - F	2x4	DRY	No.2				

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMW+p	MT20	5.0	6.0	2.50 2.25
C	TMW-w	MT20	4.0	4.0	2.00 1.25
D	TTW-m	MT20	4.0	4.0	
E	TMW-t	MT20	4.0	4.0	
F	TMW+p	MT20	5.0	6.0	
H	BMW+k	MT20	5.0	6.0	3.00 1.75
I	BMW-t	MT20	5.0	6.0	
J	BS-t	MT20	5.0	6.0	
K	BMW-w	MT20	5.0	6.0	2.50 1.50
L	BMW-w	MT20	5.0	6.0	
M	BMW+p	MT20	3.0	5.0	

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.39 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF F-H, E-I.

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.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	MAX. MEMB. UNBRAC LENGTH FR-TO	MAX. FORCE (LBS)	MAX. FACTORED (LC)	
FR-TO		FROM	TO				
A-B	0 / 57	-129.7	-129.7	0.18 (1)	10.00	L-C	-147 / 121
B-C	-1720 / 0	-129.7	-129.7	0.57 (1)	4.38	C-K	-463 / 0
C-D	-1413 / 0	-129.7	-129.7	0.53 (1)	4.78	K-D	0 / 378
D-E	-1051 / 0	-129.7	-129.7	0.81 (1)	4.53	K-E	0 / 119
E-F	-987 / 0	-129.7	-129.7	0.81 (1)	4.65	I-E	-1043 / 0
H-F	-1835 / 0	0.0	0.0	0.72 (1)	4.94	I-F	0 / 1848
M-B	-1895 / 0	0.0	0.0	0.20 (1)	6.10	B-L	0 / 1400
M-L	0 / 0	-38.5	-38.5	0.07 (2)	10.00		
L-K	0 / 1356	-38.5	-38.5	0.22 (1)	10.00		
K-J	0 / 987	-38.5	-38.5	0.35 (1)	10.00		
J-I	0 / 987	-38.5	-38.5	0.35 (1)	10.00		
I-H	-30 / 0	-38.5	-38.5	0.61 (1)	8.25		
H-G	0 / 0	-38.5	-38.5	0.38 (1)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 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, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, OBC 2018
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.71")
CALCULATED VERT. DEFL.(LL) = L/999 (0.09")
ALLOWABLE DEFL.(TL) = L/360 (0.71")
CALCULATED VERT. DEFL.(TL) = L/999 (0.15")

CSI: TC=0.81/1.00 (D-E-1), BC=0.81/1.00 (H-I-1), WB=0.59/1.00 (E-I-1), SS=0.64/1.00 (G-H-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 = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.90 (B) (INPUT = 0.90)
JSI METAL= 0.38 (I) (INPUT = 1.00)



DRWG NO. TAM 17405791
STRUCTURAL
COMPONENT ONLY

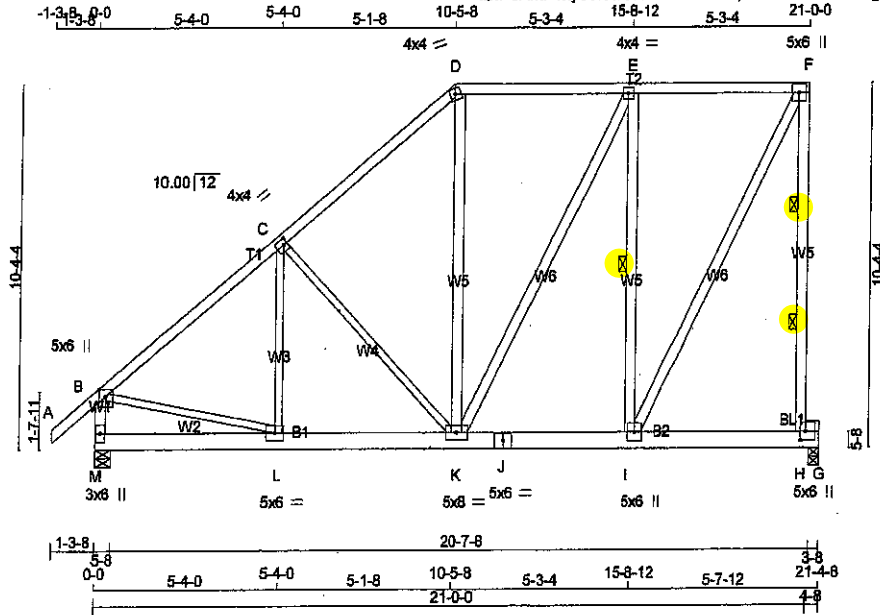
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297078	T139	2	1	TRUSS DESC.	

Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2018 MTek Industries, Inc. Mon Aug 20 01:33:20 2018 Page 1

ID: P5XmF1xy5318wCH47R2x3fzNvqf-IUB9Y3dcRb5aug2CxfJSWutrc1VAZIDFEJUJaYm7JD

Scale = 1:62.7



TOTAL WEIGHT = 2 X 141 = 283 lb

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF	
D - F	2x4	DRY	No.2	SPF	
H - F	2x4	DRY	No.2	SPF	
M - B	2x4	DRY	No.2	SPF	
M - J	2x6	DRY	No.2	SPF	
J - G	2x6	DRY	No.2	SPF	

BEARING BLOCKS	SIZE	LUMBER	DESCR.
BL1	2x4	DRY	No.2
ALL WEBS EXCEPT	2x4	DRY	No.2
L - C	2x3	DRY	No.2
C - K	2x3	DRY	No.2
B - L	2x3	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	5.0	6.0	2.50	2.25
C	TMVW-t	MT20	4.0	4.0	2.00	1.25
D	TTW-m	MT20	4.0	4.0		
E	TMVW-t	MT20	4.0	4.0		
F	TMVW+p	MT20	5.0	6.0		
H	BMVK+p	MT20	5.0	6.0	3.00	1.75
I	BMVW+t	MT20	5.0	6.0		
J	BS-t	MT20	5.0	6.0		
K	BMVW+t	MT20	5.0	6.0		
L	BMVW-t	MT20	5.0	6.0		
M	BMVt+p	MT20	3.0	6.0		

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

BEARINGS		FACTORED		GROSS REACTION		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	BRG	BRG		
M	1976	0	1976	0	0	5-8	5-8				
G	1749	0	1749	0	0	3-8	3-8				

UNFACTORED REACTIONS		1ST LCASE		MAX/MIN COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
M	1441	923 / 0	224 / 0	0 / 0	0 / 0
G	1266	789 / 0	224 / 0	0 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.09 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.

2 LATERAL BRACE(S) AT 1/3 LENGTH OF F-H.
1 LATERAL BRACE(S) AT 1/2 LENGTH OF E-I.
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. CSI (I.C)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (I.C)
FR-TO		FROM TO		LENGTH	FR-TO		
A-B	0 / 57	-129.7	-129.7	0.18 (1)	10.00	L-C	-79 / 176 0.04 (1)
B-C	-1717 / 0	-129.7	-129.7	0.76 (1)	4.09	C-K	-591 / 0 0.70 (1)
C-D	-1302 / 0	-129.7	-129.7	0.69 (1)	4.83	K-D	0 / 310 0.05 (2)
D-E	-960 / 0	-129.7	-129.7	0.64 (1)	5.23	K-E	0 / 304 0.05 (1)
E-F	-822 / 0	-129.7	-129.7	0.63 (1)	5.57	I-E	-1115 / 0 0.57 (1)
H-F	-1866 / 0	0.0	0.0	0.44 (1)	4.70	I-F	0 / 1818 0.29 (1)
M-B	-1888 / 0	0.0	0.0	0.20 (1)	5.84	B-L	0 / 1394 0.31 (1)
M-L	0 / 0	-38.5	-38.5	0.09 (3)	10.00		
L-K	0 / 1369	-38.5	-38.5	0.22 (1)	10.00		
K-J	0 / 822	-38.5	-38.5	0.30 (1)	10.00		
J-I	0 / 822	-38.5	-38.5	0.30 (1)	10.00		
I-H	-27 / 0	-38.5	-38.5	0.61 (1)	6.25		
H-G	0 / 0	-38.5	-38.5	0.38 (1)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 PSF

SPACING = 24.0 IN/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 8.00/12

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, OBC 2018
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.71")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (0.71")
CALCULATED VERT. DEFL.(TL) = L/999 (0.13")

CSI: TC=0.78/1.00 (B-C:1), SC=0.61/1.00 (H-I:1), WB=0.70/0.60 (C-K:1), SSI=0.64/1.00 (G-H: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 = 1.00

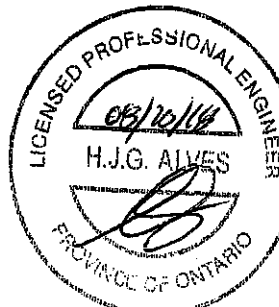
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

SLIP GRIP= 0.89 (B) (INPUT= 0.90)
SLIP METAL= 0.37 (F) (INPUT= 1.00)



DWG NO. TAM 11805192
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297086	T147	2	1	TRUSS DESC.	

2021-0138-0140

REVIEWED

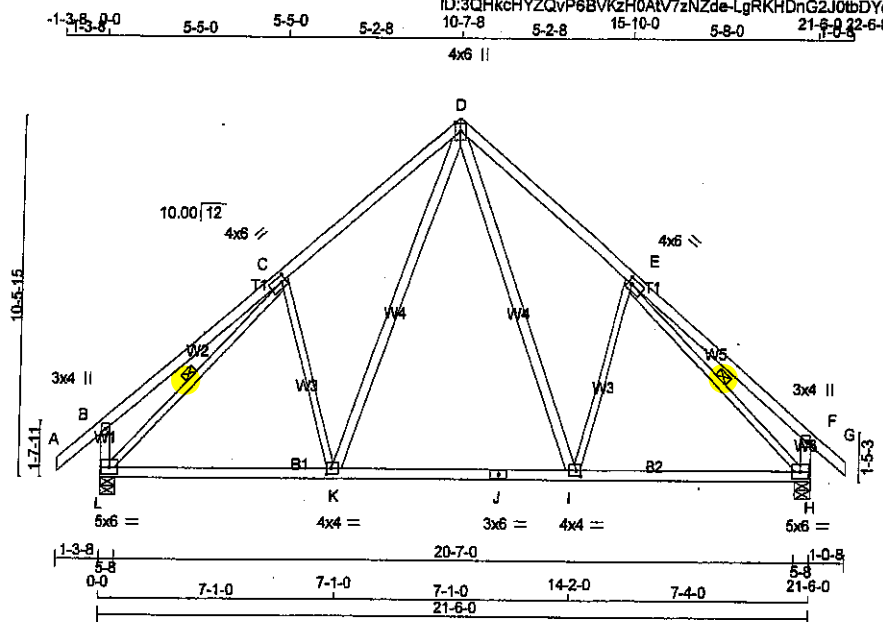
jpenfold

Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2018 MiTek Industries, Inc. Tue Aug 21 10:08:34 2018 Page 2

Version 0.210 5 May 10 2010 Mirak Industries, Inc. Tue Aug 27 10:15:34 2018 Page 1

Scale: 3/16"=1'



TOTAL WEIGHT = $2 \times 108 = 217$ lb

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	
A - D	2x4	DRY	No.2
D - G	2x4	DRY	No.2
L - B	2x4	DRY	No.2
H - F	2x4	DRY	No.2
L - J	2x4	DRY	No.2
J - H	2x4	DRY	No.2

ALL WEBS EXCEPT	2x3	DRY	No.2
K - D	2x4	DRY	No.2
D - I	2x4	DRY	No.2

DRY: SEASONED LUMBER

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMV+p	MT20	3.0	4.0	
C	BMVWV-t	MT20	4.0	6.0	2.00 1.50
D	TTWVW+p	MT20	4.0	6.0	Edge
E	BMVWV-t	MT20	4.0	6.0	2.00 1.50
F	TMV+p	MT20	3.0	4.0	
H	BMVWV-t	MT20	5.0	6.0	
I	BMVWV-t	MT20	4.0	4.0	2.00 1.50
J	BS-t	MT20	3.0	6.0	
K	BMVWV-t	MT20	4.0	4.0	2.00 1.50
L	BMVWV-t	MT20	5.0	6.0	

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

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

BUILDING BEARINGS

	FACTORED		MAXIMUM FACTORED		INPUT	REQRD
	GROSS	REACTION	GROSS	REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX
L	1987	0	1987	0	0	5-8
H	1955	0	1955	0	0	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
L	1449	928 / 0	226 / 0	0 / 0	0 / 0	296 / 0	0 / 0
H	1427	908 / 0	226 / 0	0 / 0	0 / 0	293 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.51 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY
APPLIED

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-L. E-H.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MAX. FACTORED		FACTORED		MAX. FACTORED			
MEMB.	FORCE	VERT. LOAD	LC1 MAX	MAX.	MEMB.	FORCE	MAX
	(LBS)	(PLF)	CSI (LC)	UNBRAC		(LBS)	CSI (LC)
FR-TO		FROM TO		LENGTH	FR-TO		
A-B	0 / 57	-129.7	-129.7	0.18 (1)	10.00	K-K	-436 / 16
B-C	0 / 53	-129.7	-129.7	0.80 (1)	10.09	K-D	0 / 757
C-D	-1618 / 0	-129.7	-129.7	0.52 (1)	4.58	D-I	0 / 832
D-E	-1653 / 0	-129.7	-129.7	0.54 (1)	4.51	I-E	-500 / 0
E-F	0 / 53	-129.7	-129.7	0.63 (1)	10.00	L-C	-1981 / 0
F-G	0 / 47	-129.7	-129.7	0.12 (1)	10.00	E-H	-1977 / 0
L-B	-438 / 0	0.0	0.0	0.05 (1)	7.81		
H-F	-422 / 0	0.0	0.0	0.04 (1)	7.81		
L-K	0 / 1332	-38.5	-38.5	0.50 (2)	10.00		
K-J	0 / 950	-38.5	-38.5	0.47 (2)	10.00		
J-I	0 / 950	-38.5	-38.5	0.47 (2)	10.00		
I-H	0 / 1375	-38.5	-38.5	0.52 (2)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	38.2	PSF
	DL =	6.0	PSF
BOT CH.	LL =	10.5	PSF
	DL =	7.0	PSF
TOTAL LOAD	=	61.7	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL
OR SMALL BUILDING REQUIREMENTS OF
PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, OBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.72")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.12")
ALLOWABLE DEFL.(TL)= L/360 (0.72")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.19")

CSI: TC=0.63/1.00 (E-F:1), BC=0.52/1.00 (H-I:2),
WB=0.83/1.00 (E-H:1), SS=0.26/1.00 (E-F: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 = 1.00

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)	(PSI)	(PLI)	(PLI)	(PLI)	(PLI)
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	618	354	1667	789	1987	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (C) (INPUT = 0.90)
JSI METAL= 0.54 (E) (INPUT = 1.00)



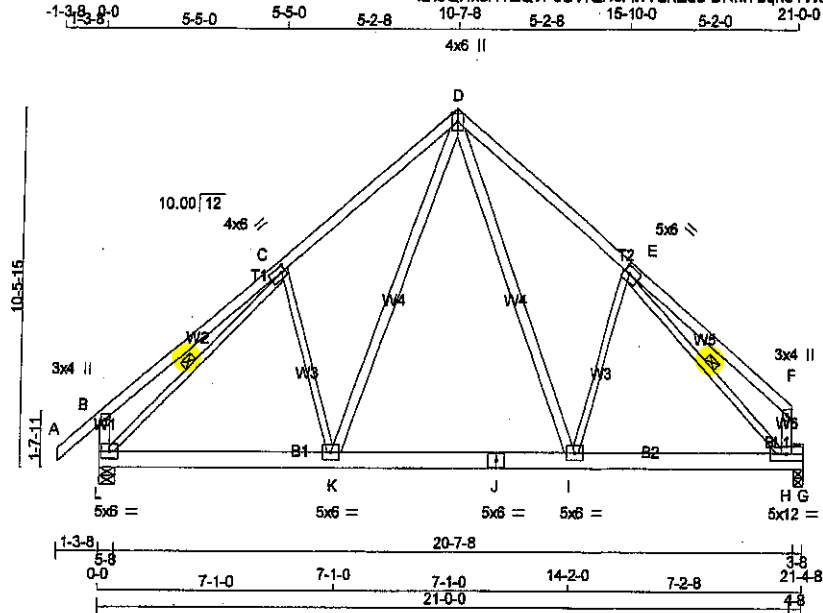
DWG NO. TAM **12805418**
STRUCTURAL
FOR CLIENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297086	T147A	6	1	TRUSS DESC.	

Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2018 MITek Industries, Inc. Tue Aug 21 10:09:38 2018 Page 1

ID:3QHkcHYZQvP6BVKzH0AtV7zNZde-DRhr7bqn5YUJ3qrN?Uze3sG74XGQo7p5C4zSPmylgKN



Scale: 3/16"=1'

TOTAL WEIGHT = 6 X 119 = 716 lb

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF	
D - F	2x4	DRY	No.2	SPF	
L - B	2x4	DRY	No.2	SPF	
H - F	2x4	DRY	No.2	SPF	
L - J	2x6	DRY	No.2	SPF	
J - G	2x6	DRY	No.2	SPF	

BEARING BLOCKS	BL1	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	K - D	2x4	DRY	No.2	SPF
D - I	2x4	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMV+p	MT20	3.0	4.0		
C TMVW+t	MT20	4.0	6.0	2.00	1.50
D TTMVW+p	MT20	4.0	6.0	Edge	
E TMVW+t	MT20	5.0	6.0	2.50	2.00
F TMV+p	MT20	3.0	4.0		
H BMVW+t	MT20	5.0	12.0		
I BMVW+t	MT20	5.0	6.0		
J BS+t	MT20	5.0	6.0		
K BMVW+t	MT20	5.0	6.0		
L BMVW+t	MT20	5.0	6.0		

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

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
L	1976	0	1976	0	0	5-8	5-8
G	1749	0	1749	0	0	3-8	3-8

UNFACTORED REACTIONS							
1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SC
L	1441	923 / 0	224 / 0	0 / 0	0 / 0	284 / 0	0 / 0
G	1288	789 / 0	224 / 0	0 / 0	0 / 0	273 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.19 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-L, E-H.

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)	LOAD LC1	MAX. UNBRACED LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LOAD LC1	MAX. UNBRACED LENGTH FR-TO
FR-TO		FROM	TO		FR-TO		FROM	TO	
A-B	0 / 57	-129.7	-129.7	0.18 (1)	10.00	C-K	-454 / 12		0.27 (1)
B-C	0 / 53	-129.7	-129.7	0.60 (1)	10.00	K-D	0 / 729		0.12 (1)
C-D	-1612 / 0	-129.7	-129.7	0.76 (1)	4.19	D-I	0 / 865		0.14 (1)
D-E	-1669 / 0	-129.7	-129.7	0.73 (1)	4.19	I-E	-332 / 51		0.20 (1)
E-F	0 / 83	-129.7	-129.7	0.58 (1)	10.00	L-C	-1946 / 0		0.78 (1)
L-B	-438 / 0	0.0	0.0	0.05 (1)	7.81	E-H	-2092 / 0		0.77 (1)
H-F	-224 / 0	0.0	0.0	0.02 (1)	7.81				
L-K	0 / 1332	-38.5	-38.5	0.28 (1)	10.00				
K-J	0 / 851	-38.5	-38.5	0.36 (1)	10.00				
J-I	0 / 951	-38.5	-38.5	0.36 (1)	10.00				
I-H	0 / 1342	-38.5	-38.5	0.76 (1)	10.00				
H-G	0 / 0	-38.5	-38.5	0.38 (1)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	= 38.2 PSF
DL	= 6.0 PSF
BOT CH. LL	= 10.5 PSF
DL	= 7.0 PSF
TOTAL LOAD	= 61.7 PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, OBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.71")
CALCULATED VERT. DEFL.(LL) = L/999 (0.12")
ALLOWABLE DEFL.(TL) = L/360 (0.71")
CALCULATED VERT. DEFL.(TL) = L/999 (0.20")

CSI: TC=0.78/1.00 (C-D:1), BC=0.78/1.00 (H:1), WB=0.77/1.00 (E-H:1), SS=0.84/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

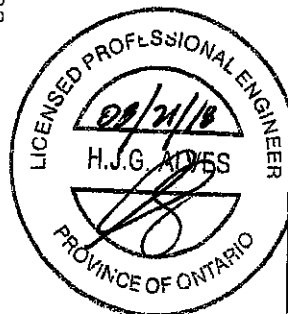
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES			
PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)	MAX MIN
MT20	618	354	1687 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (C) (INPUT = 0.90)
JSI METAL= 0.55 (E) (INPUT = 1.00)



DWG NO. T147A
STRUCTURAL
COMMENTS ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297086	T147S	1	1	TRUSS DESC.	

2021-0138-0140

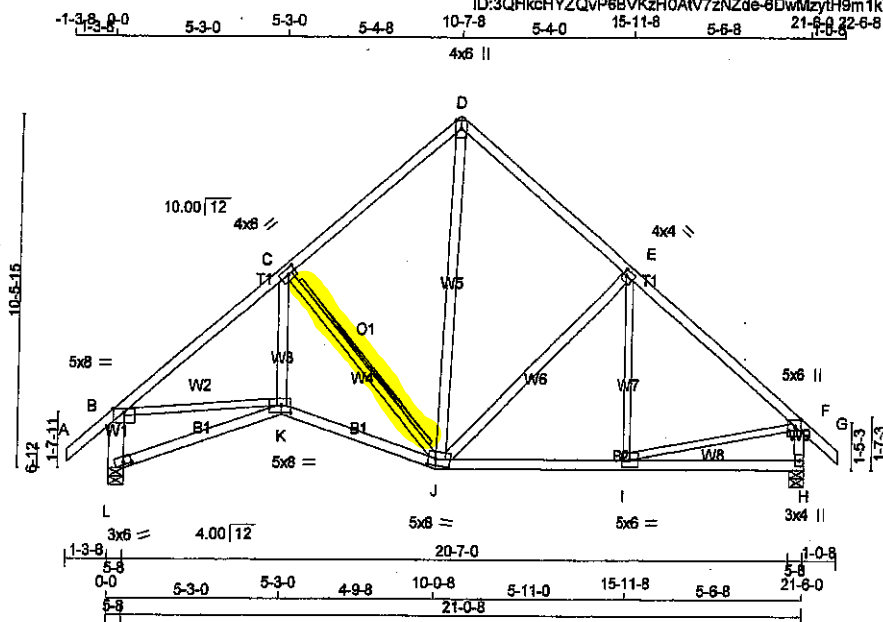
REVIEWED

penfold

Tamarack Roof Truss, Burlington

Version: 8.210 S May 18 2018 MiTek Industries, Inc. Tue Aug 21 10:42:2018 Page 4

Scale = 1:65.7



TOTAL WEIGHT = 108 lb

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE		LUMBER
A - D	2x4	DRY	No.2
D - G	2x4	DRY	No.2
L - B	2x6	DRY	No.2
H - F	2x4	DRY	No.2
L - K	2x4	DRY	No.2
K - J	2x4	DRY	No.2
J - H	2x4	DRY	No.2
ALL WEBS EXCEPT	2x4	DRY	No.2
C - J	2x3	DRY	No.2
I - E	2x3	DRY	No.2
B - K	2x3	DRY	No.2
I - F	2x3	DRY	No.2

DRY; SEASONED LUMBER

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMWV-p	MT20	5.0	8.0	Edge
C	TMWV-t	MT20	4.0	6.0	2.00 2.75
D	TTW+p	MT20	4.0	8.0	Edge
E	TMWV-t	MT20	4.0	4.0	2.00 1.25
F	TMWV+p	MT20	5.0	6.0	2.50 2.25
H	BMV1+p	MT20	3.0	4.0	
I	BMWV-t	MT20	5.0	6.0	
J	BSWVWV-m	MT20	5.0	8.0	2.25 2.75
K	BSWVW-p	MT20	5.0	8.0	2.50 3.00
L	BMV1-1	MT20	3.0	6.0	1.00 3.00

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

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

FACTORED		MAXIMUM FACTORED		INPUT	REQRD
	GROSS REACTION		GROSS REACTION	BRG	BRG
	VERT	HORZ	DOWN	UP	IN-X
JT	1987	0	1987	0	5-8
L	1987	0	1987	0	5-8
H	1955	0	1955	0	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
L	1449	928 / 0	226 / 0	0 / 0	- 0 / 0	296 / 0	0 / 0
H	1427	908 / 0	226 / 0	0 / 0	0 / 0	293 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.87 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY
APPLIED

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

2x4 DRY SPF No.2 T-BRACE AT C₂

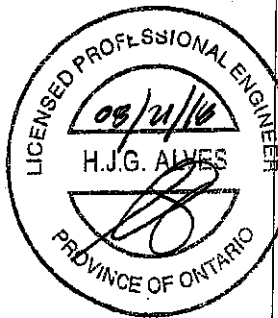
FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MAX. FACTORED		FACTORED			MAX. FACTORED				
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC	MEMB.	FORCE (LBS)	MAX. UNBRAC	MEMB.	FORCE (LBS)
FR-TO		FROM TO		LENGTH	FR-TO				
A-B	0 / 57	-129.7	-129.7	0.18 (1)	10.00	K-C	0 / 923	0.15 (1)	
B-C	-2376 / 0	-129.7	-129.7	0.57 (1)	3.87	C-J	-1363 / 0	0.57 (1)	
C-D	-1335 / 0	-129.7	-129.7	0.50 (1)	4.87	J-D	0 / 1068	0.17 (1)	
D-E	-1260 / 0	-129.7	-129.7	0.52 (1)	5.04	J-E	-870 / 0	0.68 (1)	
E-F	-1779 / 0	-129.7	-129.7	0.57 (1)	4.34	F-E	-9 / 242	0.05 (3)	
F-G	0 / 47	-129.7	-128.7	0.12 (1)	10.00	B-K	0 / 1889	0.42 (1)	
L-B	-1986 / 0	0.0	0.0	0.14 (1)	7.30	F-F	0 / 1435	0.32 (1)	
H-F	-1874 / 0	0.0	0.0	0.19 (1)	6.13				
L-K	0 / 0	-38.5	-38.5	0.24 (3)	10.00				
K-J	0 / 1967	-38.5	-38.5	0.47 (1)	10.00				
J-I	0 / 1408	-38.5	-38.5	0.45 (2)	10.00				
I-H	0 / 0	-38.5	-38.5	0.28 (3)	10.00				



DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	38.2	PSF
	DL =	6.0	PSF
BOT CH.	LL =	10.5	PSF
	DL =	7.0	PSF
TOTAL LOAD =		61.7	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL
OR SMALL BUILDING REQUIREMENTS OF
PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, OBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= $L/360$ (0.72")
 CALCULATED VERT. DEFL.(LL) = $L/999$ (0.08")
 ALLOWABLE DEFL.(TL)= $L/360$ (0.72")
 CALCULATED VERT. DEFL.(TL) = $L/999$ (0.15")

CSI: TC=0.57/1.00 (E-F:1), BC=0.47/1.00 (J-K:1),
WB=0.66/1.00 (E-J:1), SS=0.27/1.00 (E-F: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 = 1.00

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	788	1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.80 (C) (INPUT = 0.90)
JSI METAL= 0.44 (B) (INPUT = 1.00)

DWG NO. TAM 17805420
STRUCTURAL
CONCRETE

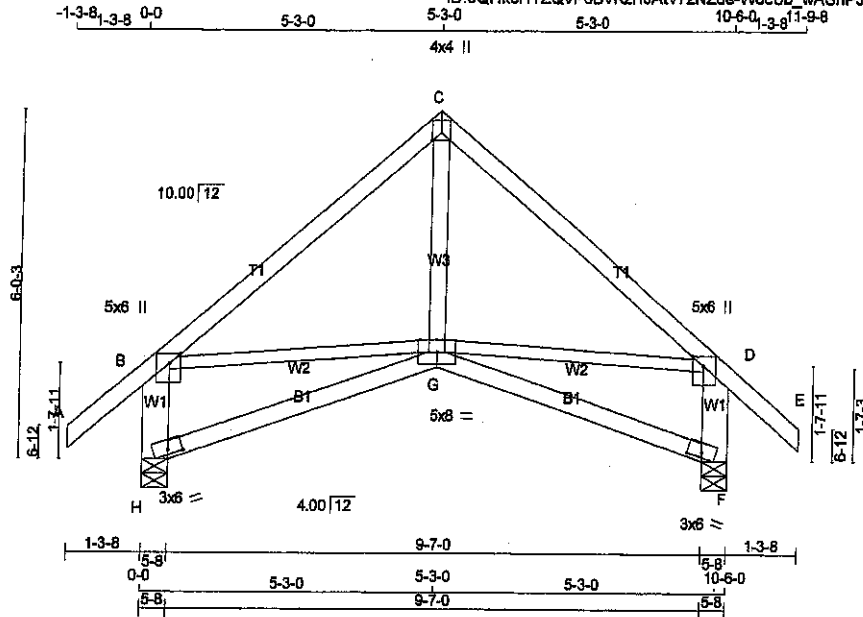
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297086	T148S	2	1	TRUSS DESC.	

Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2018 Mitek Industries, Inc. Tue Aug 21 10:08:45 2018 Page 1

ID:3QHkCHYZQvP6BVkZHOAtV7zNZde-VocUb_wASHpJPvqvSbIrK2NqMn9xRc8pgAK9syIqKG
10-6-0-3-8 1-9-8

Scale = 1:38.1



TOTAL WEIGHT = 2 X 48 = 96 lb

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF	
C - E	2x4	DRY	No.2	SPF	
H - B	2x6	DRY	No.2	SPF	
F - D	2x6	DRY	No.2	SPF	
H - G	2x4	DRY	No.2	SPF	
G - F	2x4	DRY	No.2	SPF	
ALL WEBS	2x3	DRY	No.2	SPF	
EXCEPT					
G - C	2x4	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	5.0	6.0	2.00	2.25
C	TTW+p	MT20	4.0	4.0	1.50	2.00
D	TMVW+p	MT20	5.0	6.0	2.00	2.25
F	BVM1-i	MT20	3.0	6.0	1.00	3.00
G	BBWWVW-p	MT20	5.0	6.0		
H	BVM1-i	MT20	3.0	6.0	1.00	3.00

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
H	1062	0	1062	0
F	1062	0	1062	0

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN	COMPONENT REACTIONS					
H	771	507 / 0	119 / 0	0 / 0	0 / 0	153 / 0	0 / 0	0 / 0
F	771	507 / 0	119 / 0	0 / 0	0 / 0	153 / 0	0 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MAX.	MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MAX.
FR-TO														
A-B	0 / 57													
B-C	-740 / 0													
C-D	-740 / 0													
D-E	0 / 57													
E-F	-961 / 0													
F-G	-961 / 0													
H-G	0 / 0													
G-F	0 / 0													

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	38.2	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	10.5	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	61.7	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, OBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.35")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.06")
ALLOWABLE DEFL.(TL) = $L/360$ (0.35")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.09")

CSI: TC=0.47/1.00 (C-D:1), BC=0.25/1.00 (G-H:3), WB=0.13/1.00 (D-G:1), SS=0.20/1.00 (C-D: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 = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.83 (C) (INPUT = 0.90)
JSI METAL= 0.18 (B) (INPUT = 1.00)



DRWG NO. TAM 1805414
STRUCTURAL
PROFESSIONAL ENGINEER

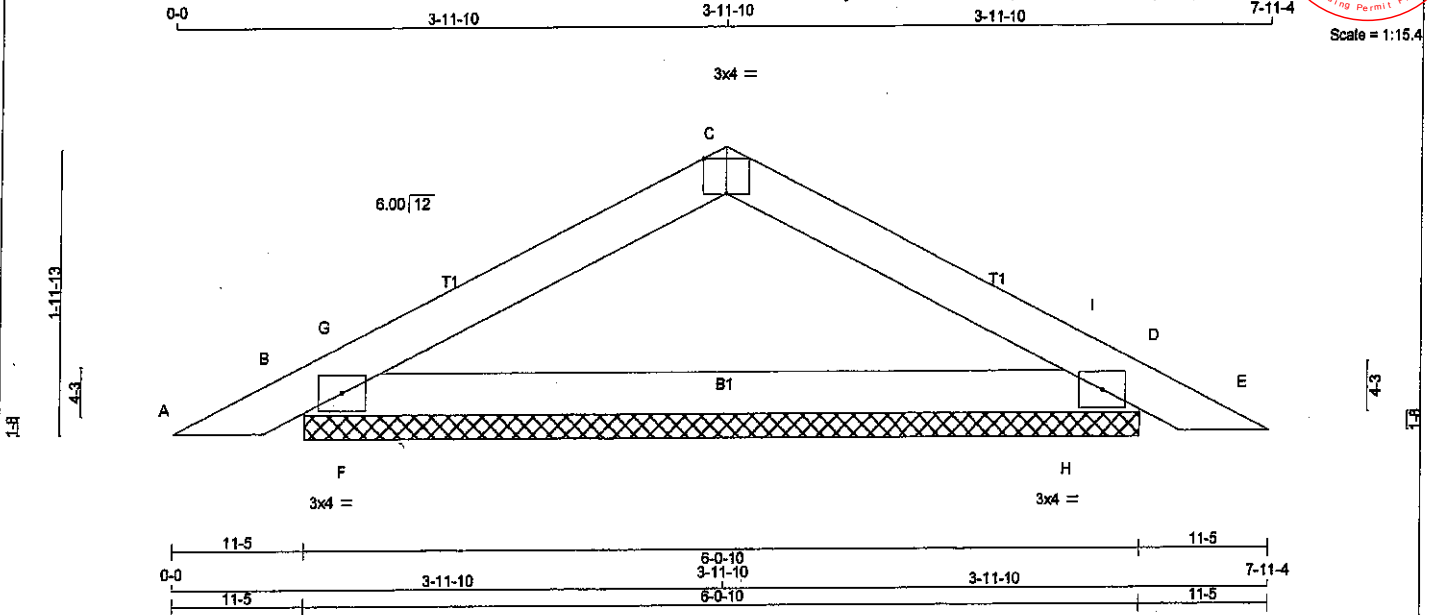
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297078	P1	56	1	TRUSS DESC.	

Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2018 MiTek Industries, Inc. Mon Aug 20 17:04 2018 Page 17

ID:P5XmF1xy53l8wCH47R2x3fzNvqf-iZtu4zZP9Z73K8qHnAg4uzEz2YZQy2K7dA3Ueym?kb

Scale = 1:15.4



TOTAL WEIGHT = 56 X 17 = 953 lb

LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER				DESIGN CRITERIA			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.	SPF	SPF	SPF	FACTORED	MAXIMUM FACTORED	INPUT	REQ'D
A - C	2x4	DRY	No.2	SPF	SPF	SPF	SPF	GROSS REACTION	GROSS REACTION	BRG	BRG
C - E	2x4	DRY	No.2	SPF	SPF	SPF	SPF	DOWN	DOWN	IN-SX	IN-SX
B - D	2x4	DRY	No.2	SPF	SPF	SPF	SPF	UP	UP	IN-SX	IN-SX
DRY: SEASONED LUMBER.											

PLATES (table is in inches)	JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-4	MT20	3.0	4.0			
C	TT-p	MT20	3.0	4.0	Edge	2.00	
D	TMB1-4	MT20	3.0	4.0			

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

UNFACTORED REACTIONS							
1ST LCASE	MAX/MIN	COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	451	298 / 0	64 / 0	0 / 0	0 / 0	89 / 0	0 / 0
D	451	298 / 0	64 / 0	0 / 0	0 / 0	89 / 0	0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	0 / 24	-129.7 -129.7	0.07 (1)	10.00	F-G	0 / 294	0.00 (1)
B-G	-613 / 0	-129.7 -129.7	0.16 (2)	6.25	H-I	0 / 294	0.00 (1)
G-C	-449 / 0	-129.7 -129.7	0.23 (1)	6.25			
C-I	-449 / 0	-129.7 -129.7	0.23 (1)	6.25			
I-D	-613 / 0	-129.7 -129.7	0.16 (2)	6.25			
D-E	0 / 24	-129.7 -129.7	0.07 (1)	10.00			
B-F	0 / 417	-38.5 -38.5	0.11 (3)	10.00			
F-H	0 / 417	-38.5 -38.5	0.23 (1)	10.00			
H-D	0 / 417	-38.5 -38.5	0.11 (3)	10.00			

SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2012, CBC 2018
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.23/1.00 (C-I:1), BC=0.23/1.00 (F-H:1), WB=0.00/1.00 (F-G:1), SS=0.21/1.00 (B-G:2)

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

COMPANION LIVE LOAD FACTOR = 1.00

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 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.45 (D) (INPUT = 0.90)
JSI METAL= 0.17 (D) (INPUT = 1.00)



DRWG NO. TAM 1180969
STRUCTURAL
COMPONENT ONLY

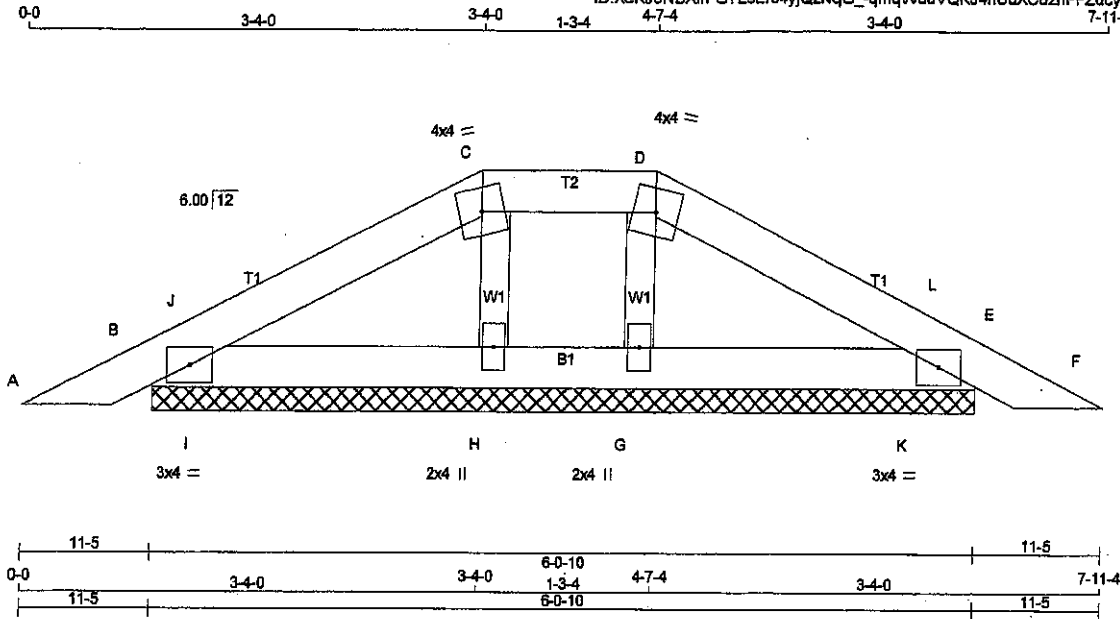
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297085	P5	2	1	TRUSS DESC.	

Tamarack Roof Truss, Burlington

Version 8.210 S May 16 2018 Mitek Industries, Inc. Tue Aug 21 15:43 2018 Page 1

ID: XeKJ8NBXIFG?EsE?04y)QzNqG_-qmqvduVQKJ4hUuXC8zhFFZdcyFSEdP7AwgSLryhOk

Scale = 1:15.6



TOTAL WEIGHT = 2 X 18 = 37 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	No.2	SPF
B - E	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
B	TMB1-I	MT20	3.0	4.0		
C	TTW-m	MT20	4.0	4.0		
D	TTW-m	MT20	4.0	4.0		
E	TMB1-I	MT20	3.0	4.0		
G	BMW1+w	MT20	2.0	4.0		
H	BMW1+w	MT20	2.0	4.0		

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

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
B	332 0	332 0	6-0-10	6-0-10
E	332 0	332 0	6-0-10	6-0-10
H	280 0	280 0	6-0-10	6-0-10
G	280 0	280 0	6-0-10	6-0-10

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	237	169 / 0	25 / 0	0 / 0	0 / 0	43 / 0	0 / 0
E	237	169 / 0	25 / 0	0 / 0	0 / 0	43 / 0	0 / 0
H	214	129 / 0	39 / 0	0 / 0	0 / 0	48 / 0	0 / 0
G	214	129 / 0	39 / 0	0 / 0	0 / 0	48 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) B, E, H, G

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)	MAX. FACTORED LENGTH (FT)	WEBS	MAX. FACTORED FORCE (LBS)	MAX. FACTORED LENGTH (FT)
FR-TO					FR-TO		
A-B	0 / 24	-129.7	-129.7	0.07 (1)	H-C	-185 / 0	0.03 (1)
B-J	-69 / 0	-129.7	-129.7	0.02 (3)	G-D	-185 / 0	0.03 (1)
J-C	-62 / 0	-129.7	-129.7	0.09 (1)	I-J	-141 / 25	0.00 (1)
C-D	-41 / 0	-129.7	-129.7	0.04 (1)	K-L	-141 / 25	0.00 (1)
D-L	-62 / 0	-129.7	-129.7	0.09 (1)			
L-E	-69 / 0	-129.7	-129.7	0.02 (3)			
E-F	0 / 24	-129.7	-129.7	0.07 (1)			
B-I	0 / 56	-38.5	-38.5	0.09 (1)			
I-H	0 / 56	-38.5	-38.5	0.09 (1)			
H-G	0 / 41	-38.5	-38.5	0.08 (1)			
G-K	0 / 56	-38.5	-38.5	0.09 (1)			
K-E	0 / 56	-38.5	-38.5	0.09 (1)			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 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, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, OBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.09/1.00 (D-L:1), BC=0.09/1.00 (G-K:1), WB=0.03/1.00 (D-G:1), SSI=0.12/1.00 (B-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

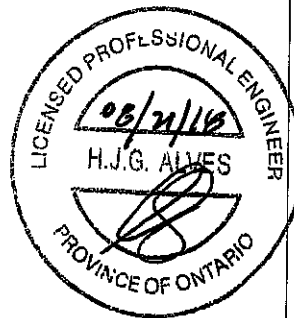
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 788 1987 1686

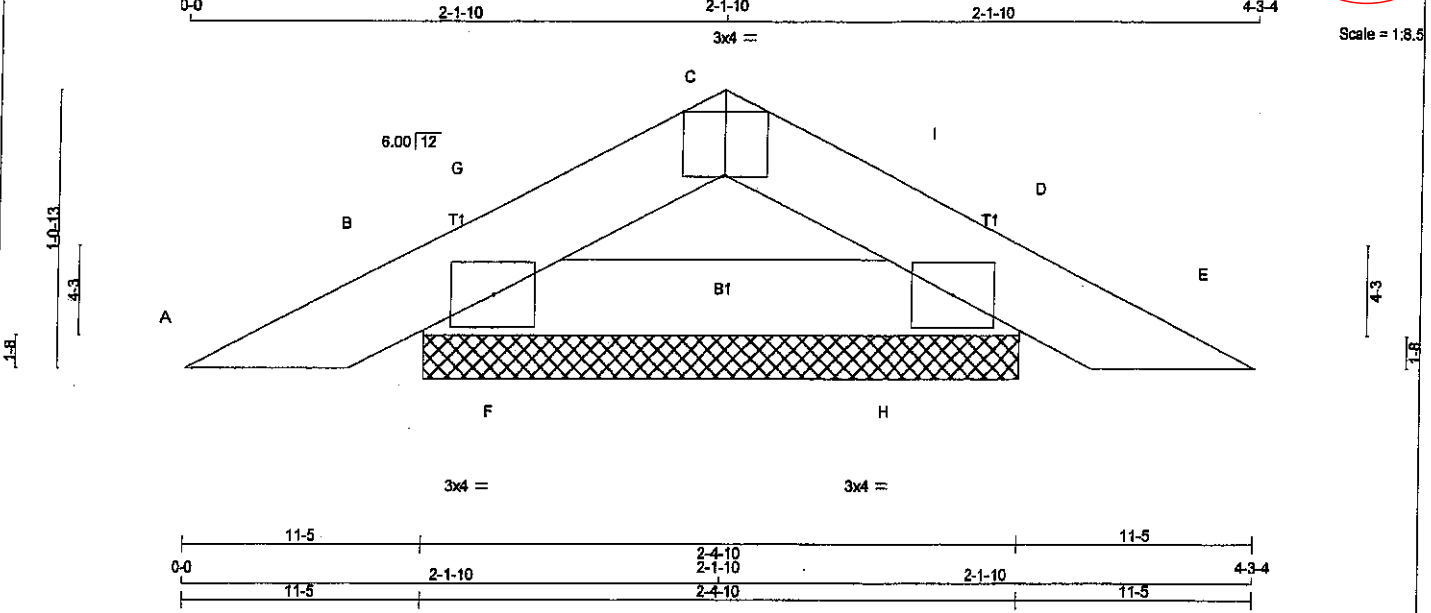
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.25 (B) (INPUT = 0.90)
JSI METAL= 0.05 (E) (INPUT = 1.00)



DWG NO. TAM 11805395
STRUCTURAL
CONSTRUCTION ONLY



TOTAL WEIGHT = 4 X 8 = 33 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2 SPF
C - E	2x4	DRY	No.2 SPF
B - D	2x4	DRY	No.2 SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMB1-4	MT20	3.0	4.0		
C TT-p	MT20	3.0	4.0	Edge	2.00
D TMB1-4	MT20	3.0	4.0		

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

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

BUILDING DESIGNER

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
B	314	0	314	0	2-4-10	2-4-10
D	314	0	314	0	2-4-10	2-4-10

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX/MIN COMPONENT REACTIONS				
		SNOW	LIVE	PERM. LIVE	WIND	DEAD
B	225	158 / -12	25 / 0	0 / 0	0 / 0	42 / 0
D	225	158 / -12	25 / 0	0 / 0	0 / 0	42 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (7)

MEMB.	CHORDS		MAX. UNBRAC LENGTH	FR-TO	WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)			MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO						
A-B	0 / 24	-129.7 -129.7	0.07 (1)	10.00	F-G	-9 / 64 0.00 (1)
B-G	-172 / 14	-129.7 -129.7	0.07 (7)	6.25	H-I	-9 / 64 0.00 (1)
G-C	-109 / 35	-129.7 -129.7	0.03 (7)	6.25		
C-I	-109 / 35	-129.7 -129.7	0.03 (7)	6.25		
I-D	-172 / 14	-129.7 -129.7	0.07 (7)	6.25		
D-E	0 / 24	-129.7 -129.7	0.07 (1)	10.00		
B-F	-41 / 96	-38.5 -38.5	0.02 (5)	6.25		
F-H	-41 / 96	-38.5 -38.5	0.03 (2)	6.25		
H-D	-41 / 96	-38.5 -38.5	0.02 (6)	6.25		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	38.2 PSF
	DL =	6.0 PSF
BOT CH.	LL =	10.5 PSF
	DL =	7.0 PSF
TOTAL LOAD	=	61.7 PSF

SPACING = 24.0 IN/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL
OR SMALL BUILDING REQUIREMENTS OF
PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, OBC 2018
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT
OFF.

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F.
RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED
ROOF LIVE LOAD

CSI: TC=0.07/1.00 (D-E:1), BC=0.03/1.00 (F-H:2),
WB=0.00/1.00 (F-G:1), SSI=0.10/1.00 (D-I: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 = 1.00

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 788	1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.20 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)

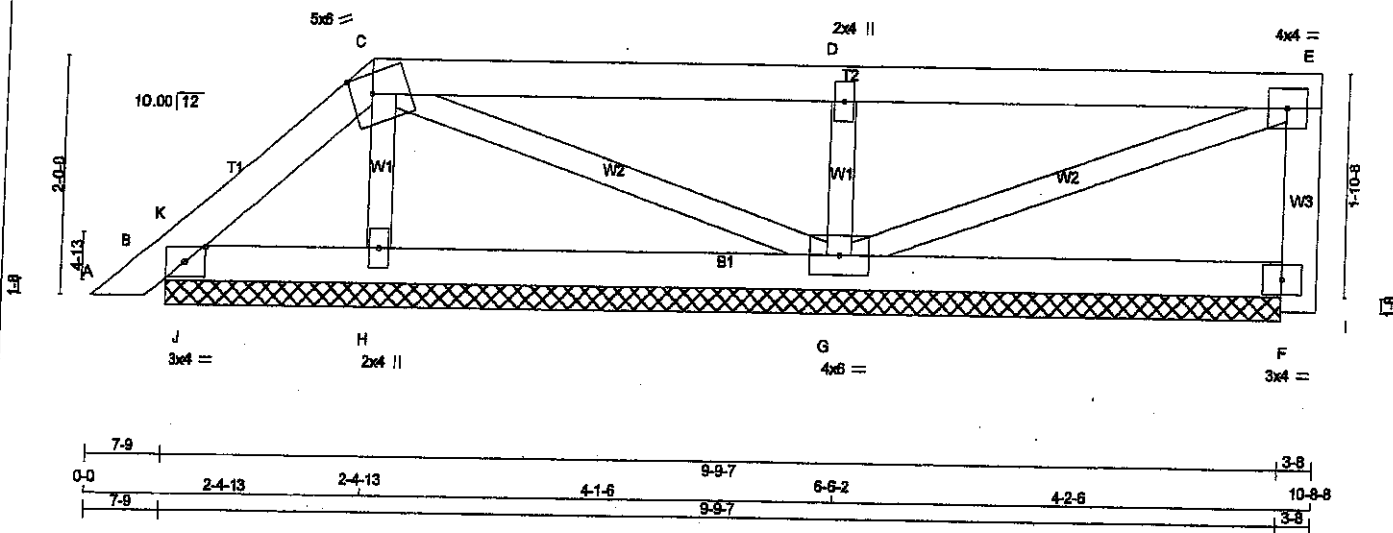
DWG NO. 1AM **71805400**
STRUCTURAL
COMPONENTS



JOB NAME 297081	TRUSS NAME P101	QUANTITY 2	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
---------------------------	---------------------------	----------------------	-----------------	--------------------------	----------

Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2018 MTek Industries, Inc. Mon Aug 20 13:07:52 2018 Page 1
ID:00z_KU4ZDaGyX39Zsw6HbkzNU2o-60sXhbMirwbkgtpZTqNBeEoAYLpxMR2abMJylyoL
6-5-2 4-2-6 10-8-8
Scale = 1:16.5



LUMBER				N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.	SPF	SPF	SPF	SPF
A - C	2x4	DRY	No.2	SPF	SPF	SPF	SPF
C - E	2x4	DRY	No.2	SPF	SPF	SPF	SPF
I - F	2x4	DRY	No.2	SPF	SPF	SPF	SPF
B - F	2x4	DRY	No.2	SPF	SPF	SPF	SPF
ALL WEBS	2x3	DRY	No.2	SPF	SPF	SPF	SPF
DRY: SEASONED LUMBER.							

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	X
B	TMB1-t	MT20	3.0	4.0	1.50 2.00
C	TTWW-m	MT20	5.0	8.0	2.00 2.25
D	TMW-w	MT20	2.0	4.0	
E	TMW-w	MT20	4.0	4.0	
F	BVM	MT20	3.0	4.0	
G	BMWWW1-t	MT20	4.0	6.0	
H	BMW1-w	MT20	2.0	4.0	

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

FACTORED		MAXIMUM FACTORED		INPUT		REQD	
GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
B	11	0	11	0	-42	9-9-7	9-9-7
H	442	0	442	0	0	9-9-7	9-9-7
G	1312	0	1312	0	0	9-9-7	9-9-7

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	-1	29/0	0/-20	0/0	0/0	0/-9	0/0
H	332	180/0	74/0	0/0	0/0	78/0	0/0
G	960	603/0	158/0	0/0	0/0	200/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	
FR-TO		FROM TO		FR-TO			
A-B	0/20	-129.7 -129.7	0.03 (1)	H-C	-304/0	0.04 (1)	
B-K	0/330	-129.7 -129.7	0.08 (1)	C-G	-478/0	0.15 (1)	
K-C	0/286	-129.7 -129.7	0.10 (1)	G-D	-887/0	0.10 (1)	
C-D	0/686	-129.7 -129.7	0.52 (1)	D-E	-733/0	0.23 (1)	
D-E	0/686	-129.7 -129.7	0.52 (1)	E-F	-177/0	0.00 (1)	
E-F	0/0	0.0 0.0	0.00 (1)				
F-E	0/79	0.0 0.0	0.01 (3)				
B-J	-219/0	-38.5 -38.5	0.06 (1)				
J-H	-219/0	-38.5 -38.5	0.06 (3)				
H-G	-239/0	-38.5 -38.5	0.15 (2)				
G-F	0/0	-38.5 -38.5	0.15 (2)				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 PSF

SPACING = 24.0 IN. G.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, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2012, CBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

(55% OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.52/1.00 (C-D-1), BC=0.15/1.00 (G-H-2), WB=0.23/1.00 (E-G-1), SS=0.27/1.00 (D-E-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 = 1.00

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 788 1987 1658

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.87 (E) (INPUT = 0.90)
JSI METAL = 0.26 (E) (INPUT = 1.00)



DRWG NO. TAM 11605270
STRUCTURAL
COMPONENT ONLY



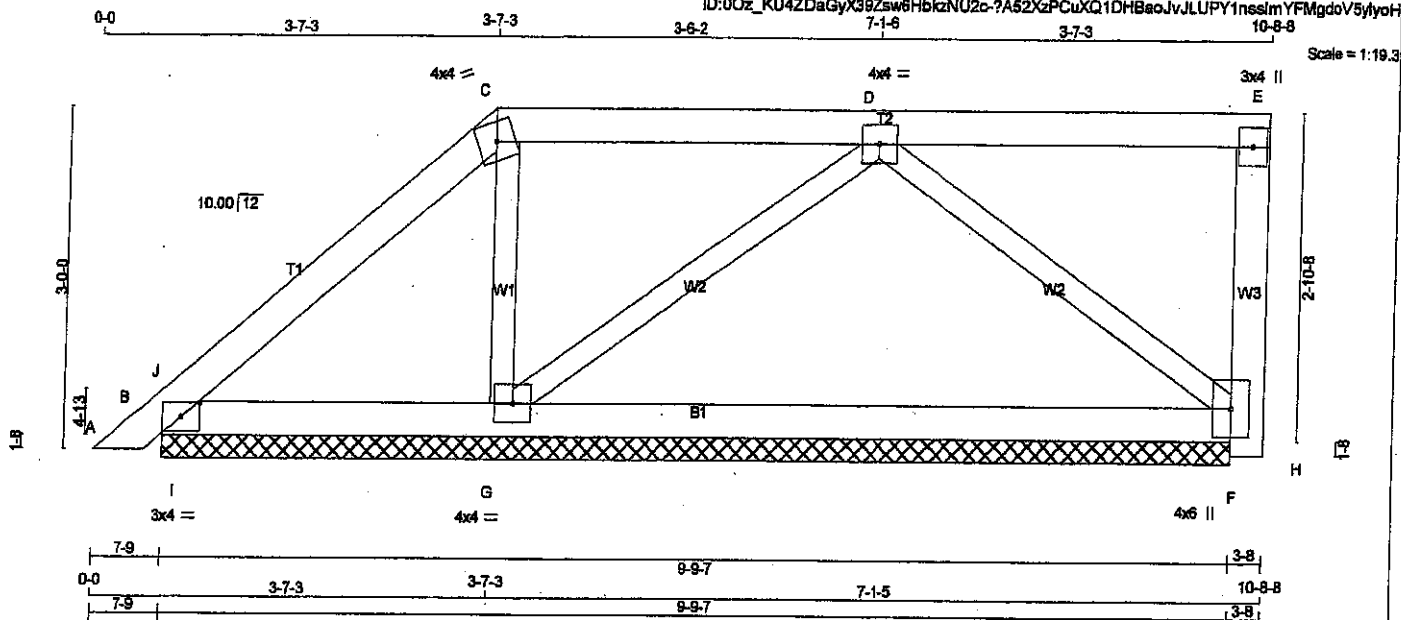
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297081	P102	2	1	TRUSS DESC.	

Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2018 Mitek Industries, Inc. Mon Aug 20 13:07:56 2018 Page 1

ID:0Oz_KU4ZDaGyX39Zsw6HbkzNU2c-7A52XzPCuXQ1DHBaouJVLUPY1nesimYFMgdoV5ylyoH

Scale = 1:19.3



LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
H - E	2x4	DRY	No.2
B - F	2x4	DRY	No.2
ALL WEBS 2x3 DRY No.2			
DRY: SEASONED LUMBER.			

PLATES (table in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMB1-1	MT20	3.0	4.0 1.50 2.00
C	TTW-m	MT20	4.0	4.0
D	TMWV-1	MT20	4.0	4.0
E	TMW-p	MT20	3.0	4.0
F	BVMW1-p	MT20	4.0	6.0
G	BMVW1-1	MT20	4.0	4.0

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	HORZ	GROSS REACTION	GROSS REACTION	DOWN	HORZ	BRG	IN-SX	IN-SX
B	264	0	264	0	0	0	9-9-7	9-9-7	9-9-7
F	561	0	561	0	0	0	9-9-7	9-9-7	9-9-7
G	940	0	940	0	0	0	9-9-7	9-9-7	9-9-7

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	COMBINED	SNOW
B	178	161/0	0/-5	0/0	0/0	22/0	0/0	178	161/0
F	408	289/0	57/0	0/0	0/0	80/0	0/0	408	289/0
G	707	382/0	159/0	0/0	0/0	166/0	0/0	707	382/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD LC1	MAX. (PLF)	MEMB.	FORCE (LBS)	MAX. (PLF)	MAX. (LC)
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0/20	-129.7	-129.7 0.03 (1)	G-C	-320/0	0.05 (1)	10.00
B-J	0/193	-129.7	-129.7 0.12 (1)	G-D	-490/0	0.15 (1)	10.00
J-C	-23/7	-129.7	-129.7 0.12 (1)	D-F	-471/0	0.15 (1)	6.25
C-D	0/13	-129.7	-129.7 0.27 (1)	I-J	-487/0	0.00 (1)	10.00
D-E	0/0	-129.7	-129.7 0.27 (1)				10.00
H-F	0/0	0.0	0.0 0.00 (1)				10.00
F-E	-179/0	0.0	0.0 0.03 (1)				7.81
B-I	-11/6	-38.5	-38.5 0.15 (1)				6.25
I-G	-11/6	-38.5	-38.5 0.33 (3)				6.25
G-F	0/383	-38.5	-38.5 0.37 (2)				10.00

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 PSF

SPACING = 24.0 IN. OC

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, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, OBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

(55% OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.27/1.00 (C-D:1), BC=0.37/1.00 (F-G:2), WB=0.15/1.00 (D-G:1), SS=0.35/1.00 (B-I: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 = 1.00

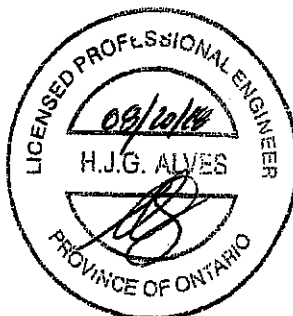
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 518 354 1667 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.44 (G) (INPUT = 0.90)
JSI METAL= 0.14 (G) (INPUT = 1.00)



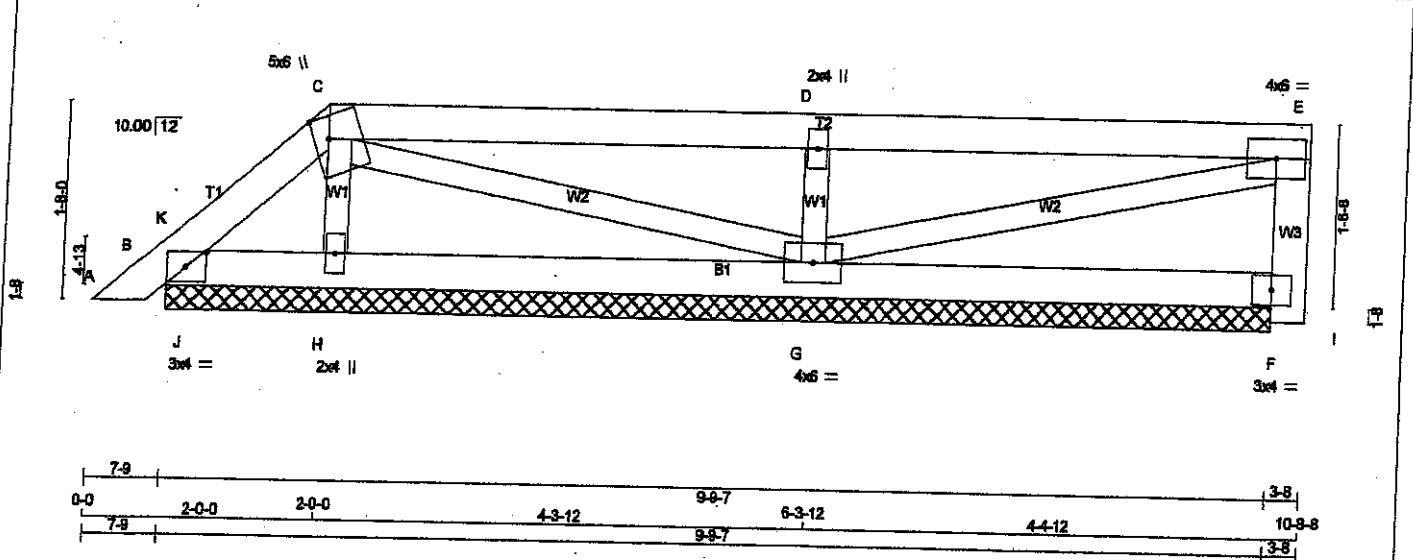
DRWG NO. TAM 11605271
STRUCTURAL
COMPONENT ONLY



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
297082	P107	2	1			

Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2018 MTek Industries, Inc. Mon Aug 20 16:04:02 2018 Page 1
ID:4u167_apsj7wBfJKDwJbPzNV7w-duXQ5rHubxlgq2dHmMS4ae07573IOPf7X8wLgytwDB
6-3-12 4-4-12 10-8-8
Scale = 1:18.5



LUMBER			
N.L.G.A. RULES	SIZE	DRY	LUMBER
CHORDS			
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
I - E	2x4	DRY	No.2
B - F	2x4	DRY	No.2
ALL WEBS	2x6	DRY	No.2
DRY: SEASONED LUMBER			

PLATES (Table is in inches)					
JT TYPE	PLATES	W	LEN	Y	X
B	TMB1-4	MT20	3.0	4.0	1.50 2.00
C	TTWWH+m	MT20	5.0	6.0	2.25 1.50
D	TMVH+w	MT20	2.0	4.0	
E	TMVH-4	MT20	4.0	6.0	
F	BVM-4	MT20	3.0	4.0	
G	BMVHWW1-4	MT20	4.0	6.0	
H	BMVH1+w	MT20	2.0	4.0	

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

	FACTORED		MAXIMUM FACTORED		INPUT	RECORD
	GROSS REACTION	GROSS REACTION	DOWN	UP		
JT	VERT	HORZ	DOWN	HORZ	BRG	BRG
B	-128	0	0	0	9-9-7	9-9-7
H	526	0	526	0	9-9-7	9-9-7
G	1367	0	1367	0	9-9-7	9-9-7

PROVIDE ANCHORAGE AT BEARING JOINT B FOR 150 LBS FACTORED UPLIFT

UNFACTORED REACTIONS							
1ST CASE	MAX/MIN	COMPONENT	REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM LIVE	WIND	DEAD	SOIL
B	-105	0/31	0/41	0/0	0/0	0/32	0/0
H	396	215/0	88/0	0/0	0/0	82/0	0/0
G	1001	628/0	165/0	0/0	0/0	208/0	0/0

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED HORZ. LOAD (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORZ. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)
FR-TO				FR-TO			
A-B	0/20	-129.7	-129.7 0.03 (1)	10.00	H-C	-387/0	0.06 (1)
B-K	0/483	-129.7	-129.7 0.08 (1)	10.00	C-G	-587/0	0.19 (1)
K-C	0/441	-129.7	-129.7 0.10 (1)	10.00	G-D	-727/0	0.10 (1)
C-D	0/933	-129.7	-129.7 0.62 (1)	10.00	G-E	-968/0	0.31 (1)
D-E	0/932	-129.7	-129.7 0.62 (1)	10.00	J-K	-150/0	0.00 (1)
I-F	0/0	0.0	0.0 0.00 (1)	10.00			
F-E	0/81	0.0	0.0 0.01 (3)	10.00			
B-J	-334/0	-38.5	-38.5 0.04 (1)	8.25			
J-H	-334/0	-38.5	-38.5 0.06 (3)	8.25			
H-G	-367/0	-38.5	-38.5 0.19 (2)	8.25			
G-F	0/0	-38.5	-38.5 0.18 (2)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 PSF

SPACING = 24.0 IN. OC

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, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, OBC 2018
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

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

(55% OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CSL TO=0.82/1.00 (C-D:1), BC=0.19/1.00 (G-H:2), WB=0.31/1.00 (E-G:1), SS=0.28/1.00 (D-E: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 = 1.00

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

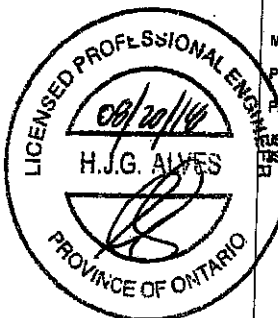
NAIL VALUES					
PLATE	GRIP(DRY)	SHEAR	SECTION		
	(PSI)	(PLI)	(PLI)		
	MAX	MIN	MAX	MIN	MAX
MT20	818	354	1687	788	1987

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

TRUSS GRIP= 0.74 (G) (INPUT = 0.90)

TRUSS METAL= 0.23 (C) (INPUT = 1.00)



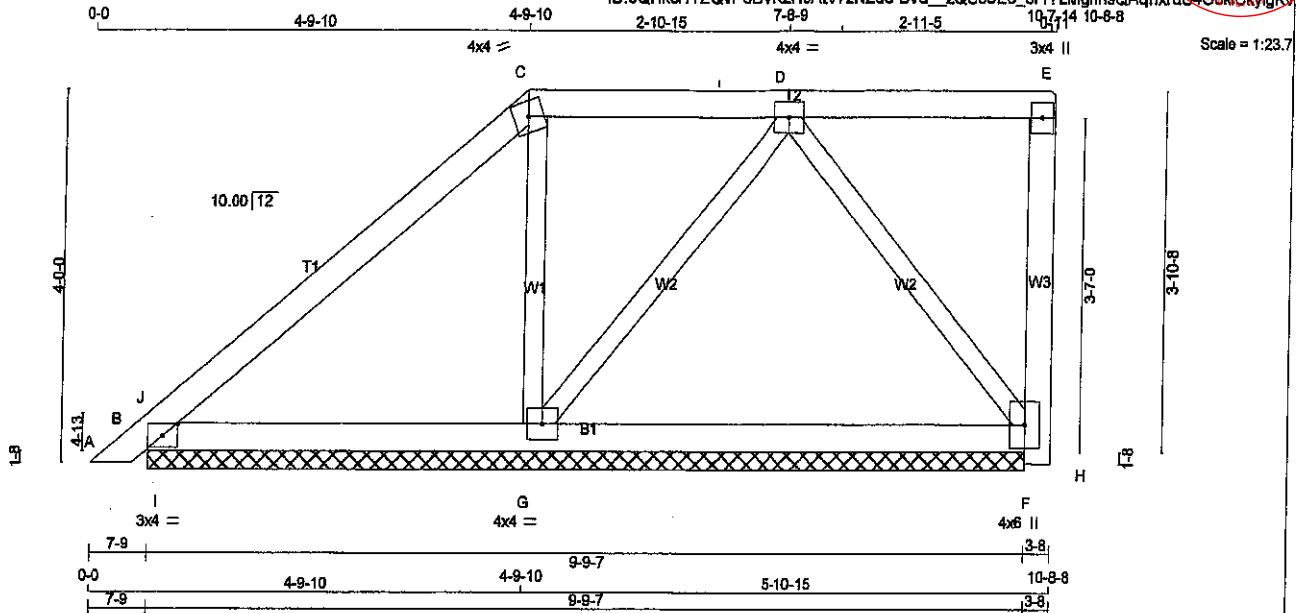
DRWG NO. TAM 11603307
STRUCTURAL
COMPONENT ONLY

JOB NAME 297086	TRUSS NAME P117	QUANTITY 1	PLY 1	JOB DESC. TRUSS DESC.	DRWG NO.
---------------------------	---------------------------	----------------------	-----------------	--------------------------	----------

Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2018 MiTek Industries, Inc. Tue Aug 21 10:08:04 2018 Page 1

ID:3QHkchYZQvP6BVkZH0ATV7zNZde-Dvd_zQS65E8_cFr?LMghhsQAqnxruS4OokCkygKv



TOTAL WEIGHT = 39 lb

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	DRY
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
H - E	2x4	DRY	No.2
B - F	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
DRY: SEASONED LUMBER.			

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMB1-I	MT20	3.0	4.0	1.50 2.00
C	TTW-m	MT20	4.0	4.0	
D	TWVW-t	MT20	4.0	4.0	
E	TMV-p	MT20	3.0	4.0	
F	BVWV1-p	MT20	4.0	6.0	
G	BMVW1-t	MT20	4.0	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		REQD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
B	473	0	473	0	0	9-9-7	9-9-7	9-9-7	9-9-7
F	521	0	521	0	0	9-9-7	9-9-7	9-9-7	9-9-7
G	771	0	771	0	0	9-9-7	9-9-7	9-9-7	9-9-7

UNFACTORED REACTIONS

JT	1ST LCASE	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	335	245 / 0	31 / 0	0 / 0	0 / 0	0 / 0	59 / 0	0 / 0
F	376	252 / 0	51 / 0	0 / 0	0 / 0	0 / 0	73 / 0	0 / 0
G	580	314 / 0	130 / 0	0 / 0	0 / 0	0 / 0	136 / 0	0 / 0

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

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 LC1 (PLF)	MAX. UNBRACED LENGTH FR-TO (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH FR-TO (LC)	
A-B	0 / 20	-129.7	-129.7 0.03 (1)	10.00	G-C	-284 / 0	0.07 (1)
B-I	-28 / 158	-129.7	-129.7 0.17 (1)	6.25	G-D	-237 / 0	0.08 (1)
J-C	-152 / 0	-129.7	-129.7 0.28 (1)	6.25	D-F	-378 / 0	0.13 (1)
C-D	-95 / 0	-129.7	-129.7 0.19 (1)	6.25	I-J	-691 / 0	0.00 (1)
D-E	0 / 0	-129.7	-129.7 0.19 (1)	10.00			
H-F	0 / 0	0.0	0.0 0.00 (1)	10.00			
F-E	-149 / 0	0.0	0.0 0.04 (1)	7.81			
B-I	0 / 104	-38.5	-38.5 0.25 (1)	10.00			
I-G	0 / 104	-38.5	-38.5 0.27 (2)	10.00			
G-F	0 / 241	-38.5	-38.5 0.29 (2)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 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, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, OBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.28/1.00 (C-J:1), BC=0.29/1.00 (F-G:2), WB=0.13/1.00 (D-F:1), SI=0.54/1.00 (B-I: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 = 1.00

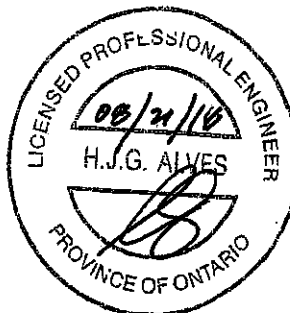
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.39 (B) (INPUT = 0.90)
JSI METAL= 0.09 (B) (INPUT = 1.00)



DWG NO. TAM 71405409
STRUCTURAL
COMPONENT ONLY

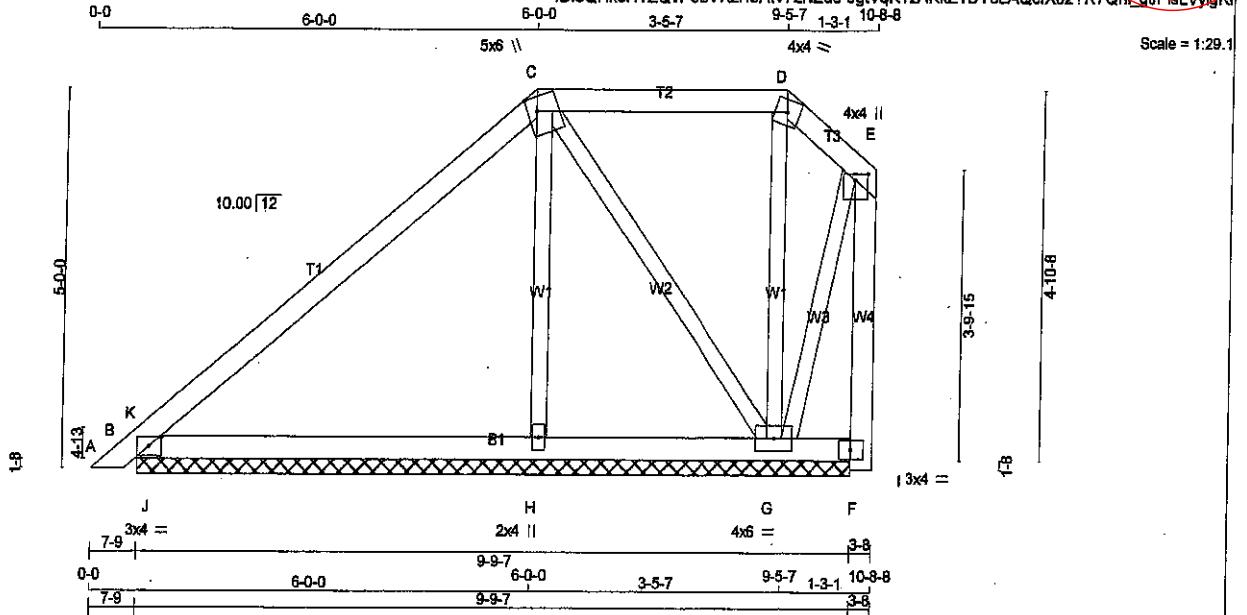


JOB NAME: 297086 TRUSS NAME: P118 QUANTITY: 2 PLY: 1 JOB DESC: TRUSS DESC. DRWG NO.

Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2018 MTek Industries, Inc. Tue Aug 21 10:08:06 2018 Page 1

ID:3QHkcHYZQvP6BVkzH0AtV7zNZde-5gtVgKTzAKkZTDYcEAQcrX02?R7Qht_gjPisLVvgKd



TOTAL WEIGHT = 2 X 45 = 89 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2
C - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
I - E	2x4	DRY	No.2
B - F	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
DRY: SEASONED LUMBER.			

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0	1.50	2.00
C	TTWW+m	MT20	5.0	8.0	2.25	1.50
D	TTW-m	MT20	4.0	4.0		
E	TMWW+p	MT20	4.0	4.0	1.00	2.00
F	BVM-I	MT20	3.0	4.0		
G	BMWW1-t	MT20	4.0	6.0		
H	BMW1+w	MT20	2.0	4.0		

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
B	606	0	606	0
H	481	0	481	0
G	678	0	678	0

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	435	301 / 0	52 / 0	0 / 0	0 / 0	82 / 0	0 / 0
H	369	176 / 0	100 / 0	0 / 0	0 / 0	94 / 0	0 / 0
G	487	335 / 0	60 / 0	0 / 0	0 / 0	92 / 0	0 / 0

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CS1 (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	0 / 20	-129.7 -129.7	0.03 (1)	10.00	H-C	-164 / 5	0.06 (1)
B-K	-132 / 315	-129.7 -129.7	0.28 (1)	6.25	C-G	-302 / 0	0.16 (1)
K-C	-202 / 0	-129.7 -129.7	0.48 (1)	6.25	G-D	-336 / 0	0.12 (1)
C-D	0 / 44	-129.7 -129.7	0.27 (1)	10.00	G-E	-100 / 0	0.03 (1)
D-E	0 / 48	-129.7 -129.7	0.04 (1)	10.00	J-K	-1048 / 98	0.00 (1)
I-F	0 / 0	0.0 0.0	0.00 (1)	10.00			
F-E	0 / 43	0.0 0.0	0.01 (1)	10.00			
B-J	0 / 138	-38.5 -38.5	0.38 (1)	10.00			
J-H	0 / 138	-38.5 -38.5	0.38 (1)	10.00			
H-G	0 / 134	-38.5 -38.5	0.29 (1)	10.00			
G-F	0 / 0	-38.5 -38.5	0.03 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 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, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, OBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CS1: TC=0.48/1.00 (C-K-1), BC=0.39/1.00 (H-J-1), WB=0.16/1.00 (C-G-1), SS=0.84/1.00 (B-J-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 = 1.00

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 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.50 (B) (INPUT = 0.90)
JSI METAL= 0.13 (D) (INPUT = 1.00)



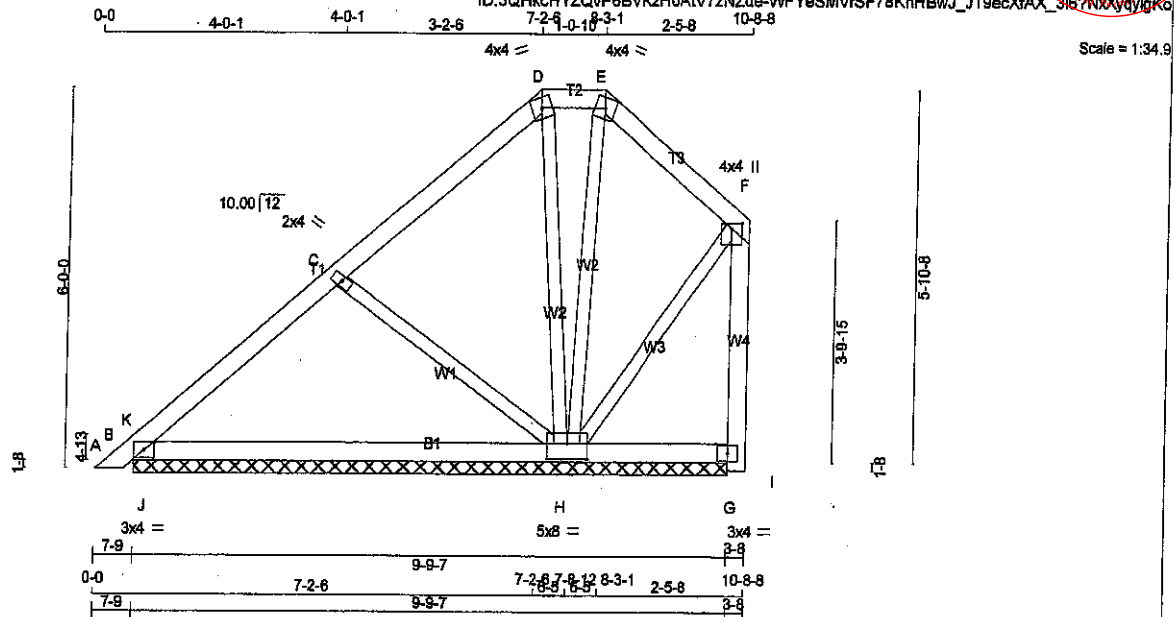
DRWG NO. TAM 12805 410
STRUCTURAL
COMPONENT ONLY



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297086	P119	1	1	TRUSS DESC.	

Tamarack Roof Truss, Burlington

Version 8.210 S May 16 2018 MTek Industries, Inc. Tue Aug 21 10:08:14 2018 Page 1
ID:3QHkchYZQvP6BVKzH0AtV7zNZde-WFYeSMvSF78KhHBwJ_JT9ecXfAX_3167NxyqyigKo



Scale = 1:34.9

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - E	2x4	DRY	No.2	SPF
E - F	2x4	DRY	No.2	SPF
F - G	2x4	DRY	No.2	SPF
G - H	2x4	DRY	No.2	SPF
H - I	2x4	DRY	No.2	SPF
I - J	2x4	DRY	No.2	SPF
J - K	2x4	DRY	No.2	SPF
K - L	2x4	DRY	No.2	SPF
L - M	2x4	DRY	No.2	SPF
M - N	2x4	DRY	No.2	SPF
N - O	2x4	DRY	No.2	SPF
O - P	2x4	DRY	No.2	SPF
P - Q	2x4	DRY	No.2	SPF
Q - R	2x4	DRY	No.2	SPF
R - S	2x4	DRY	No.2	SPF
S - T	2x4	DRY	No.2	SPF
T - U	2x4	DRY	No.2	SPF
U - V	2x4	DRY	No.2	SPF
V - W	2x4	DRY	No.2	SPF
W - X	2x4	DRY	No.2	SPF
X - Y	2x4	DRY	No.2	SPF
Y - Z	2x4	DRY	No.2	SPF
Z - A	2x4	DRY	No.2	SPF

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0	1.50	2.00
C	TMW+V	MT20	2.0	4.0		
D	TTW-m	MT20	4.0	4.0		
E	TTW-m	MT20	4.0	4.0		
F	TMVW+p	MT20	4.0	4.0	1.00	2.00
G	BVM-I	MT20	3.0	4.0		
H	BMVWWV1*-MT20		5.0	8.0	3.00	4.00

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
B	557	0	557	0
H	1208	0	1208	0

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS
B	COMBINED	SNOW LIVE PERM.LIVE WIND DEAD SOIL
H	COMBINED	SNOW LIVE PERM.LIVE WIND DEAD SOIL

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

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. FACTORED LC1 MAX. CSI (LC)	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO	A-B	0/20	-129.7	-129.7 0.03 (1)	10.00	C-H	-442/0	0.16 (1)
	B-K	-695/0	-129.7	-129.7 0.20 (3)	6.25	H-F	-127/0	0.04 (1)
	K-C	-293/0	-129.7	-129.7 0.26 (1)	6.25	D-H	-297/0	0.16 (1)
	C-D	0/75	-129.7	-129.7 0.27 (1)	10.00	H-E	-299/0	0.16 (1)
	D-E	0/112	-129.7	-129.7 0.04 (1)	10.00	J-K	0/620	0.00 (1)
	E-F	0/108	-129.7	-129.7 0.15 (1)	10.00			
	F-G	0/0	0.0	0.0 0.00 (1)	10.00			
	G-F	0/14	0.0	0.0 0.00 (3)	10.00			
	B-J	0/271	-38.5	-38.5 0.17 (3)	10.00			
	J-H	0/271	-38.5	-38.5 0.29 (2)	10.00			
	H-G	0/0	-38.5	-38.5 0.26 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 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, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2012, CBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.27/1.00 (C-D:1), BC=0.29/1.00 (H-J:2),
WB=0.16/1.00 (E-H:1), SS=0.38/1.00 (B-J:3)

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

COMPANION LIVE LOAD FACTOR = 1.00

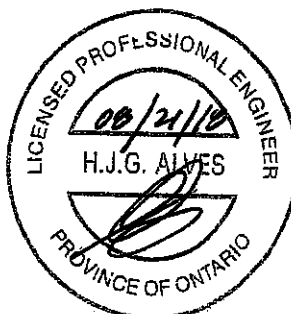
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1657 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.76 (H) (INPUT = 0.90)
JSI METAL= 0.15 (H) (INPUT = 1.00)



DWG NO. TAM 11805411
STRUCTURAL
COMPONENT ONLY

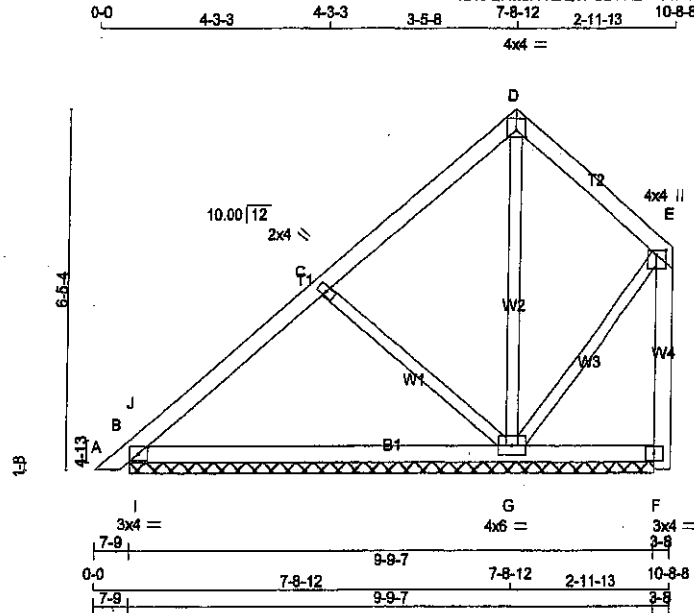
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
297086	P120	3	1	TRUSS DESC.	

Tamarack Roof Truss, Burlington

Version 8.210 S May 18 2018 MiTek Industries, Inc. Tue Aug 21 10:08:15 2018 Page 1

ID:3QHkcHYZQvP6BVKzH0AtV7zNZde-00o8iYMWVTdaplby982Fe7pitGXIMvq7W7Vx5yLgKk

Scale = 1:39.5



TOTAL WEIGHT = 3 X 43 = 130 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - E	2x4	DRY	No.2	SPF
H - E	2x4	DRY	No.2	SPF
B - F	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
B	TMB1-I	MT20	3.0	4.0	1.50	2.00
C	TMW+u	MT20	2.0	4.0		
D	TTW-p	MT20	4.0	4.0	1.50	2.00
E	TMWV+p	MT20	4.0	4.0	1.00	2.00
F	BVM-I	MT20	3.0	4.0		
G	BMWW1-I	MT20	4.0	6.0		

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

BEARINGS

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	REQD
B	561	0	561	0	9-9-7	9-9-7	
G	1204	0	1204	0	9-9-7	9-9-7	

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	408	264 / 0	61 / 0	0 / 0	0 / 0	82 / 0	0 / 0
G	864	547 / 0	150 / 0	0 / 0	0 / 0	185 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS				
MAX. FACTORED		FACTORED		MAX. FACTORED		FACTORED		
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX CSI (LC)	
FR-TO		FROM	TO		FR-TO			
A-B	0 / 20	-129.7	-129.7	0.03 (1)	10.00	C-G	-465 / 0	0.17 (1)
B-J	-660 / 0	-129.7	-129.7	0.20 (3)	6.25	G-D	-526 / 0	0.32 (1)
J-C	-275 / 0	-129.7	-129.7	0.30 (1)	6.25	G-E	-151 / 0	0.05 (1)
C-D	0 / 89	-129.7	-129.7	0.31 (1)	10.00	I-J	0 / 599	0.00 (1)
D-E	0 / 128	-129.7	-129.7	0.22 (1)	10.00			
H-F	0 / 0	0.0	0.0	0.03 (1)	10.00			
F-E	0 / 12	0.0	0.0	0.03 (3)	10.00			
B-I	0 / 257	-38.5	-38.5	0.16 (3)	10.00			
I-G	0 / 257	-38.5	-38.5	0.30 (2)	10.00			
G-F	0 / 0	-38.5	-38.5	0.28 (2)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 38.2	PSF
	DL = 6.0	PSF
BOT CH.	LL = 10.5	PSF
	DL = 7.0	PSF
TOTAL LOAD	= 61.7	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, OBC 2018
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.31/1.00 (C-D:1), BC=0.30/1.00 (G-I:2), WB=0.32/1.00 (D-G:1), SSI=0.36/1.00 (B-I:3)

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

COMPANION LIVE LOAD FACTOR = 1.00

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 1687 788 1987 1656

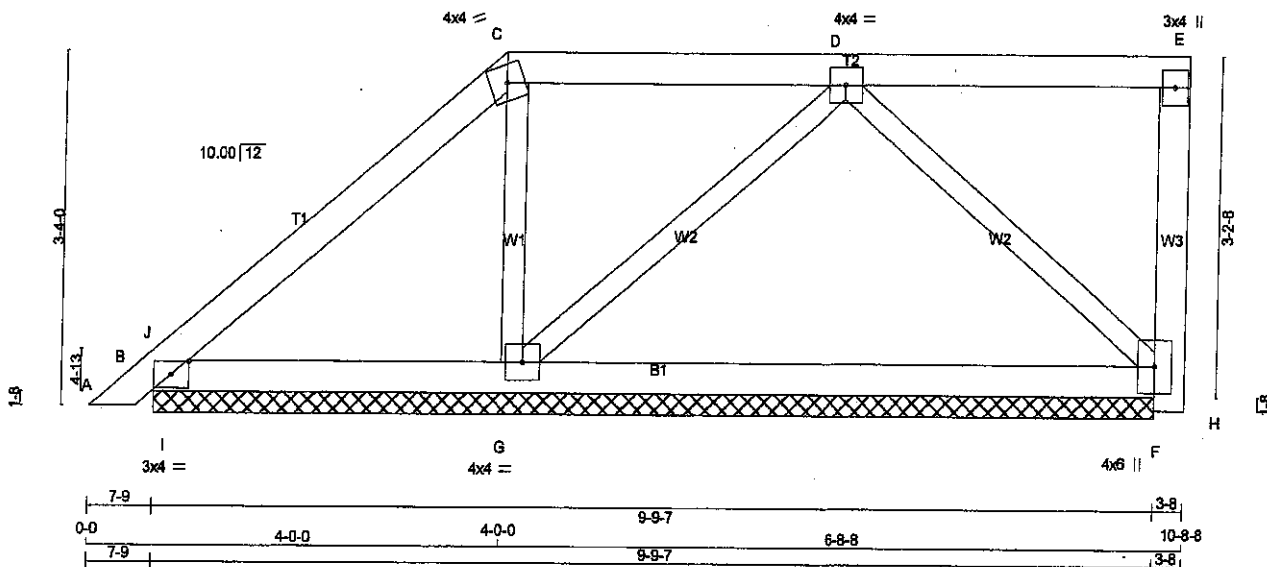
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (D) (INPUT = 0.90)
JSI METAL= 0.15 (D) (INPUT = 1.00)



DWG NO. TAM 11805412
STRUCTURAL
COMPONENT ONLY



LUMBER

N. L. G. A. RULES					
CHORDS		SIZE		LUMBER	DESC
A - C	2x4	DRY		No.2	SPF
C - E	2x4	DRY		No.2	SPF
H - E	2x4	DRY		No.2	SPF
B - F	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
B	TMB1-I	MT20	3.0	4.0	1.50	2.00
C	TTW-m	MT20	4.0	4.0		
D	TMWW-t	MT20	4.0	4.0		
E	TMV+p	MT20	3.0	4.0		
F	BVMW1+p	MT20	4.0	6.0		
G	BMWW1-t	MT20	4.0	4.0		

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

BUILDING DESIGNER									
BEARINGS									
FACTORED			MAXIMUM FACTORED			INPUT		REQRD	
JT	GROSS REACTION		GROSS REACTION		BRG	IN-SX		IN-SX	
	VERT	HORZ	DOWN	HORZ	UPLIFT				
B	342	0	342	0	0	9-9-7	9-9-7	9-9-7	9-9-7
F	545	0	545	0	0	9-9-7	9-9-7	9-9-7	9-9-7
G	878	0	878	0	0	9-9-7	9-9-7	9-9-7	9-9-7

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	237	192/0	9/0	0/0	0/0	36/0	0/0
F	395	262/0	55/0	0/0	0/0	78/0	0/0
G	660	358/0	148/0	0/0	0/0	155/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.25 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 CSF (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSF (LC)
FR-TO		FROM TO			FR-TO		
A-B	0/20	-129.7 -129.7	0.03 (1)	10.00	G-C	-305/0	0.06 (1)
B-J	0/162	-129.7 -129.7	0.13 (1)	10.00	G-D	-391/0	0.12 (1)
J-C	-72/0	-129.7 -129.7	0.17 (1)	6.25	D-F	-424/0	0.13 (1)
C-D	-32/2	-129.7 -129.7	0.24 (1)	6.25	I-J	-538/0	0.00 (1)
D-E	0/0	-129.7 -129.7	0.24 (1)	10.00			
H-F	0/0	0.0 0.0	0.00 (1)	10.00			
F-E	-169/0	0.0 0.0	0.03 (1)	7.81			
B-I	0/44	-38.5 -38.5	0.18 (1)	10.00			
I-G	0/44	-38.5 -38.5	0.30 (2)	10.00			
G-F	0/322	-38.5 -38.5	0.33 (2)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 38.2 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 61.7 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, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, OBC 2018
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

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

(55 % OF 54.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 38.2 P.S.F. SPECIFIED ROOF LIVE LOAD

CSF: TC=0.24/1.00 (C-D-1), BC=0.33/1.00 (F-G-2), WB=0.13/1.00 (D-F-1), SS=0.40/1.00 (B-I-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 = 1.00

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 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.33 (G) (INPUT = 0.90)
JSI METAL= 0.10 (G) (INPUT = 1.00)



DRWG NO. 1AM 71805913
STRUCTURAL
COMPONENT ONLY

LUL/LUS/LJS/HUS/HHUS/HGUS

HHUS/HGUS

See Hanger Options Information on pp. 125-127.

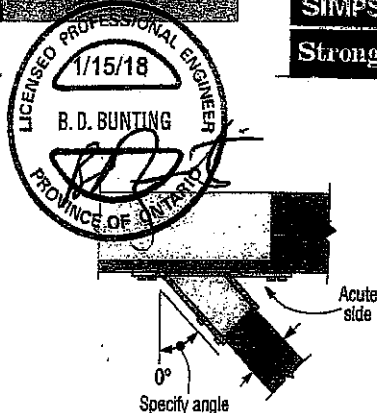
HHUS — Sloped and/or Skewed Seat

- HHUS hangers can be skewed to a maximum of 45° and/or sloped to a maximum of 45°
- For skew only, maximum factored down resistance is 0.85 of the table value
- For sloped only or sloped and skewed hangers, the maximum factored down resistance is 0.72 of the table value
- Uplift resistances for sloped/skewed conditions are 0.62 of the table value
- The joist must be bevel-cut to allow for double-shear nailing

HGUS — Skewed Seat

- HGUS hangers can be skewed only to a maximum of 45°. Factored resistances are:

HGUS Seat Width	Joist	Down Resistance	Uplift
W < 2"	Bevel or square cut	0.62 of table value	0.46 of table value
2" < W < 6"	Bevel cut	0.67 of table value	0.41 of table value
2" < W < 6"	Square cut	0.46 of table value	0.41 of table value
W > 6"	Bevel cut	0.75 of table value	0.41 of table value



Top View HHUS Hanger
Skewed Right
(Joist must be bevel cut)
All joist nails installed on the outside angle (non-acute side).

Standard and Double-Shear Joist Hangers (cont.)

These products are available with additional corrosion protection. For more information, see p. 24.

These products are approved for installation with the Strong-Drive® SD Connector screw. See pp. 32-34 for more information.

Model No.	da	Dimensions (in.)				Fasteners		Factored Resistance				
		W	H	B	da ³	Header	Joist	Down		S-P-F		
								Uplift	Normal	Uplift	Normal	
								(K _d = 1.15)	(K _d = 1.00)	(K _d = 1.15)	(K _d = 1.00)	
lb.	lb.	lb.	lb.									
kN	kN	kN	kN									
Single 2x Sizes												
■	LUS24	18	1 1/8	3 1/2	1 1/4	2 1/4	(4) 10d	(2) 10d	710	1625	645	1155
	LU24L	22	1 1/8	3	1 1/4	2 1/4	(4) 10d	(2) 10d x 1 1/2"	360	1020	320	725
■	LU28L	22	1 1/8	5	1 1/4	4 1/4	(6) 10d	(4) 10d x 1 1/2"	720	1805	645	1140
	LUS26	18	1 1/8	4 1/4	1 3/4	3 3/4	(4) 10d	(4) 10d	1420	2170	1290	1630
■	HUS26	16	1 1/8	5 1/4	3	3 1/4	(14) 16d	(6) 16d	2705	4940	2065	3875
	LJS26DS	18	1 1/8	5	3 1/4	4 1/4	(18) 16d	(8) 16d	2055	4265	1460	4115
■	HGUS26	12	1 1/8	5 1/4	5	4 1/4	(20) 16d	(8) 16d	2685	6625	2685	5700
	LU28L	20	1 1/8	6 1/4	1 1/4	5 1/4	(8) 10d	(6) 10d x 1 1/2"	1140	2185	1020	1550
■	LUS28	18	1 1/8	6 1/4	1 1/4	3 3/4	(6) 10d	(4) 10d	1420	2520	1290	1790
	HUS28	16	1 1/8	7 1/4	3	6 1/4	(22) 16d	(8) 16d	3605	5365	2675	4345
■	HGUS28	12	1 1/8	7 1/4	5	6 1/4	(36) 16d	(12) 16d	3310	7675	3310	6900
	LU210L	20	1 1/8	8	1 1/4	7 1/4	(10) 10d	(6) 10d x 1 1/2"	1140	2495	1020	1770
■	LUS210	18	1 1/8	7 1/4	1 1/4	3 3/4	(8) 10d	(4) 10d	1420	2785	1290	2210

1. Factored uplift resistances have been increased 15% for wind or earthquake loading; no further increase is allowed.
2. Designer must ensure that hanger is compatible with truss when reduced heel height is used.
3. da is the distance from the bearing seat to the top joist nail.
4. Resistances shown require a minimum 2-ply girder truss. For fastening to single-ply truss request technical bulletin T-C-N10TRSSCN and/or see installation notes.
5. Nails: 16d = 0.162" dia. x 3 1/2" long. See pp. 27-28 for other nail sizes and information.

Face-Mount Hangers

SIMPSON
Strong-Tie

These products are available with additional corrosion protection. For more information, see p.24.

These products are approved for installation with the Strong-Drive® SD Connector screw. See pp. 32-34 for more information.

Model No.	Gz.	Dimensions (in.)				Fasteners		Factored Resistance			
		W	H	B	d _c	Header	Joist	D-F-L		S-P-F	
								Min.	Normal	Uplift	Normal
								(K _d = 1.0)	(K _d = 1.0)	(K _d = 1.15)	(K _d = 1.00)
								lb.	lb.	lb.	lb.
								kN	kN	kN	kN
Double 2x Sizes											
LUS24-2	18	3%	3%	2	1½	(4) 16d	(2) 16d	835	2020	590	1435
LUS26-2	18	3%	4%	2	4	(4) 16d	(4) 16d	1720	2595	1545	1920
HHUS26-2	14	3%	5%	3	3%	(14) 16d	(8) 16d	2850	7335	2065	5205
HGUS26-2	12	3%	5%	4	4%	(20) 16d	(8) 16d	4385	8950	3110	6355
LUS28-2	18	3%	7	2	4	(8) 16d	(4) 16d	1720	3325	1545	2575
HHUS28-2	14	3%	7%	3	6%	(22) 16d	(8) 16d	3765	8940	2675	6345
HGUS28-2	12	3%	7%	4	6%	(36) 16d	(12) 16d	6070	12980	4310	9215
LUS210-2	18	3%	9	2	6	(8) 16d	(6) 16d	2580	4500	2320	3195
HHUS210-2	14	3%	9%	3	8	(30) 16d	(10) 16d	4670	9660	4235	7000
HGUS210-2	12	3%	9%	4	8%	(46) 16d	(16) 16d	6840	14015	4855	10270
								21.60		45.69	
Triple 2x Sizes											
HGUS26-3	12	4%	5%	4	4%	(20) 16d	(8) 16d	4385	8950	3110	6355
HGUS28-3	12	4%	7%	4	6%	(36) 16d	(12) 16d	6070	12980	4310	9215
HHUS210-3	14	4%	9	3	7%	(30) 16d	(10) 16d	4670	9670	4235	6865
HGUS210-3	12	4%	9%	4	8%	(46) 16d	(16) 16d	6840	14645	4855	10400
								21.60		46.26	
Quadruple 2x Sizes											
HGUS26-4	12	6%	5%	4	4%	(20) 16d	(8) 16d	4385	8950	3110	6355
HGUS28-4	12	6%	7%	4	6%	(36) 16d	(12) 16d	6070	12980	4310	9215
HHUS210-4	14	6%	8%	3	7%	(30) 16d	(10) 16d	4670	10155	4235	7210
HGUS210-4	12	6%	9%	4	8%	(46) 16d	(16) 16d	6840	14645	4855	10400
HGUS212-4	12	6%	10%	4	10%	(56) 16d	(20) 16d	7640	14995	5425	10645
HGUS214-4	12	6%	12%	4	11%	(66) 16d	(22) 16d	10130	16400	7195	11845
								32.00		51.80	
4x Sizes											
LUS46	18	3%	4%	2	3%	(4) 16d	(4) 16d	1720	2595	1545	1920
HHUS46	14	3%	5%	3	3%	(14) 16d	(8) 16d	2540	7335	2065	5205
HGUS46	12	3%	5%	4	4%	(20) 16d	(8) 16d	4385	8950	3110	6355
LUS48	18	3%	6%	2	3%	(6) 16d	(4) 16d	1720	3325	1545	2575
HHUS48	14	3%	7%	3	6%	(22) 16d	(8) 16d	3765	8940	2675	6345
HGUS48	12	3%	7%	4	6%	(36) 16d	(12) 16d	6070	12980	4310	9215
LUS410	18	3%	8%	2	5%	(8) 16d	(6) 16d	2580	4500	2320	3195
HGUS410	12	3%	9	4	8%	(46) 16d	(16) 16d	6840	14015	4855	10270
HGUS412	12	3%	10%	4	10%	(56) 16d	(20) 16d	7640	14995	5425	10645
HGUS414	12	3%	12%	4	11%	(66) 16d	(22) 16d	10130	16400	7195	11845
								32.00		51.80	

See footnotes
on p. 258.

Plated Truss Connectors

TECHNICAL BULLETIN

TBE – Truss Bearing Enhancers

SIMPSON
Strong-Tie

One size works with any number of girder plys. The TBE transfers load from the truss or girder to plates for bearing-limited conditions, and provides exceptional uplift capacity. Replaces nail-on scabs that provide lower load transfer, or in some cases, an additional ply when needed for bearing. The table lists factored resistances for TBE4 used on 2x4 and TBE6 used on 2x6 top plates. The tables give the different resistances calculated for TBE with and without wood bearing.

Material: 18 gauge

Finish: G90 galvanized

Design:

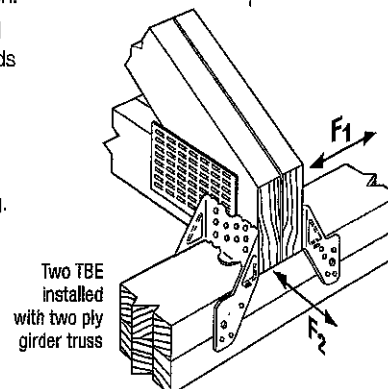
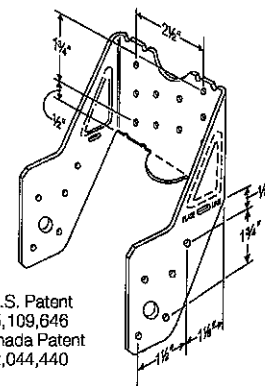
- Factored resistances are in accordance with CSA 086-14.
- Factored uplift resistances have been increased 15% for short term load duration with no further increase allowed; reduce resistances by 15% for standard term load duration.
- Factored resistances are determined by nail shear calculations or tests of the metal connectors. The attached wood members must be designed to withstand the loads imposed by the nails.

Installation:

- Use all specified fasteners.
- Nails: 10d = 0.148" dia x 3" long common wire, 10d x 1½" = 0.148" dia x 1½" long.
- TBE must be installed in pairs.
- Top plate size is 2x4 for TBE4, 2x6 for TBE6. Use alternate installation for TBE4 and TBE6 on larger plates or pre-sheathed walls.
- Do not use TBES in end-grain-bearing applications.
- See current catalogue for alternate installations.

TBE4
(TBE6 similar)

U.S. Patent
5,109,646
Canada Patent
2,044,440



Model No.	No. of Plys	Fasteners		TBE Only Factored Resistance				Combined TBE and Wood Bearing Factored Resistance	
		Truss	Plate	Uplift (K ₀ = 1.15)(K ₀ = 1.00)	Normal (K ₀ = 1.00)	Lateral (K ₀ = 1.15)		Normal ² (K ₀ = 1.00)	TBL ⁴
						F ₁	F ₂		
				lb.	lb.	lb.	lb.	lb.	in.
D.Fir-L									
TBE4	1	(20) 10d x 1½"	(20) 10d x 1½"	1605	3540	655	1415	7820	6.44
	2	(20) 10d	(20) 10d	1605	3660	655	1415	12180	5.00
	3	(20) 10d	(20) 10d	1605	3660	655	1415	16445	4.50
	4	(20) 10d	(20) 10d	1605	3660	655	1415	20705	4.25
TBE6	1	(20) 10d x 1½"	(20) 10d x 1½"	1760	3540	490	1745	10235	8.41
	2	(20) 10d	(20) 10d	1760	3660	490	1745	17250	7.09
	3	(20) 10d	(20) 10d	1760	3660	490	1745	23945	6.56
	4	(20) 10d	(20) 10d	1760	3660	490	1745	30640	6.29
S-P-F									
TBE4	1	(20) 10d x 1½"	(20) 10d x 1½"	1605	3220	615	1415	6445	6.99
	2	(20) 10d	(20) 10d	1605	3440	615	1415	9890	5.37
	3	(20) 10d	(20) 10d	1605	3440	615	1415	13120	4.74
	4	(20) 10d	(20) 10d	1605	3440	615	1415	16345	4.43
TBE6	1	(20) 10d x 1½"	(20) 10d x 1½"	1760	3220	490	1585	8290	8.99
	2	(20) 10d	(20) 10d	1760	3440	490	1585	13680	7.42
	3	(20) 10d	(20) 10d	1760	3440	490	1585	18750	6.78
	4	(20) 10d	(20) 10d	1760	3440	490	1585	23820	6.46

- Factored resistances are for two TBES only. Wood factored bearing resistance may be added as shown in the table.
- Factored bearing resistances shown assume Q_v/A_v and Q_t/A_t = 812 psi (5.60 MPa) for D.Fir-L and 614 psi (4.24 MPa) for S-P-F. See clauses 6.5.4 and 7.5.9 TPIC 2014 for required bearing reinforcement when compression loads are applied to both sides of truss member.
- Use lower of top plate or wood truss species.
- Total bearing length, TBL, equals the plate width plus simulated bearing length provided by the TBE. TBE4 = 3½" plate width; TBE6 = 5½" plate width.



LIMIT
STATES
DESIGN

This technical bulletin is effective until June 30, 2019, and reflects information available as of March 1, 2017. This information is updated periodically and should not be relied upon after June 30, 2019. Contact Simpson Strong-Tie for current information and limited warranty or see strongtie.com.

© 2017 Simpson Strong-Tie Company Inc.

T-SPECTBE17 3/17 exp. 6/19

(800) 999-5099
strongtie.com

TS/LTS/MTS/HTS

Twist Straps

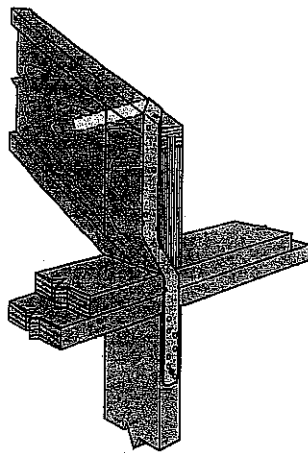
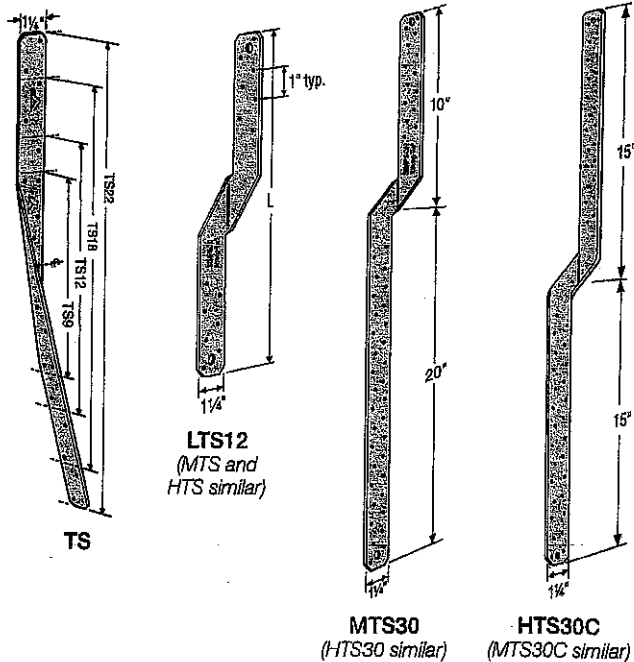
Twist straps provide a tension connection between two wood members. They resist uplift at the heel of a truss economically. The 3"-bend section eliminates interference at the transition points between wood members. TS twist straps come with an equal number of left and right hand units in each carton.

Material: LTS — 18 gauge; MTS/TS — 16 gauge;
HTS — 14 gauge

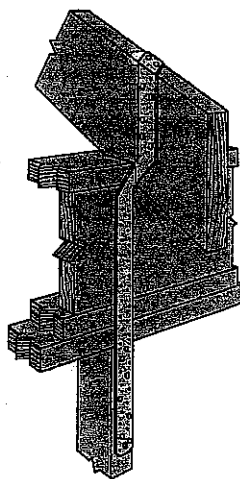
Finish: Galvanized. Some products available in stainless steel and ZMAX® coating; see Corrosion Information, pp.20-24.

Installation:

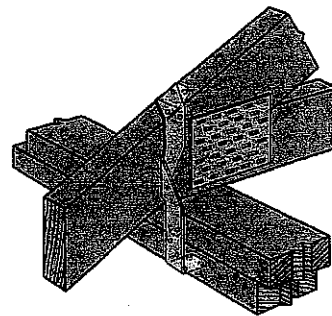
- Use all specified fasteners; see General Notes
- TS should be installed in pairs to reduce eccentricity
- When LTS/MTS is installed as truss-to-top plate tie, install (3) 10d x 1½" nails to the underside of the plate and (3) 10d x 1½" nails into the edge of the double top plate
- LTS, MTS and HTS are available with the bend reversed. Specify "-REV" after model number, such as MTS16-REV



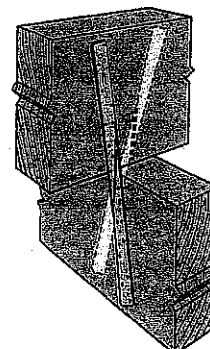
MTS30 Installation with I-Joist Rafter



Typical MTS30 Installation



MTS Installation as a Truss-to-Top Plate Tie



Typical TS Installation



TS/LTS/MTS/HTS

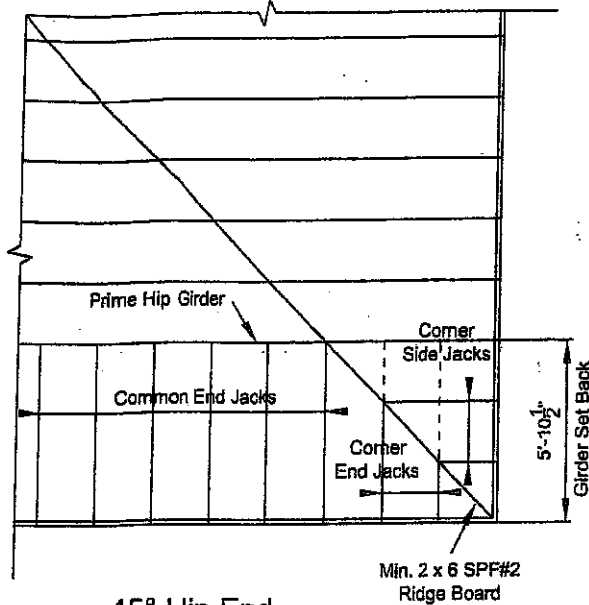
Twist Straps (cont.)

These products are available with additional corrosion protection. For more information, see p. 24.

These products are approved for installation with the Strong-Drive® SD Connector screw. See pp. 32–34 for more information.

Model No.	L (in.)	Fasteners (Total)	Factored Resistance ($K_D = 1.15$)	
			D-Fir-L	S-P-F
			lb.	lb.
			kN	kN
TS9	9	(8) 16d	1125	1040
			5.00	4.63
TS12	11½	(10) 16d	1410	1300
			6.27	5.78
TS18	17½	(14) 16d	1970	1820
			8.76	8.10
TS22	21½	(18) 16d	2125	2125
			9.45	9.45
SS LTS12	12	(12) 10d x 1½"	1015	720
			4.52	3.20
LTS16	16	(12) 10d x 1½"	1015	720
			4.52	3.20
SS LTS18	18	(12) 10d x 1½"	1015	720
			4.52	3.20
LTS20	20	(12) 10d x 1½"	1015	720
			4.52	3.20
MTS12	12	(14) 10d x 1½"	1570	1180
			6.98	5.25
MTS16	16	(14) 10d x 1½"	1570	1180
			6.98	5.25
MTS18	18	(14) 10d x 1½"	1570	1180
			6.98	5.25
SS MTS20	20	(14) 10d x 1½"	1570	1180
			6.98	5.25
MTS30	30	(14) 10d x 1½"	1570	1180
			6.98	5.25
MTS24C	24	(14) 10d x 1½"	1570	1180
			6.98	5.25
MTS30C	30	(14) 10d x 1½"	1570	1180
			6.98	5.25
HTS16	16	(16) 10d x 1½"	2050	1455
			9.12	6.47
HTS20	20	(24) 10d x 1½"	2050	1455
			9.12	6.47
HTS24	24	(24) 10d x 1½"	2050	1455
			9.12	6.47
HTS28	28	(24) 10d x 1½"	2050	1455
			9.12	6.47
HTS30	30	(24) 10d x 1½"	2050	1455
			9.12	6.47
HTS30C	30	(24) 10d x 1½"	2050	1455
			9.12	6.47

1. LTS12 through LTS20, MTS16 through MTS30, HTS24 through HTS30C (except HTS30) have additional nail holes.
2. Install half of the fasteners on each end of strap to achieve maximum factored resistance.
3. Factored resistances have been increased 15% for earthquake or wind loading. No further increase allowed; reduce where other loads govern.
4. All straps except the MTS30 and HTS30 have the twist in the centre of the strap.
5. Twist straps do not have to be wrapped over the truss to achieve the load.
6. Optional nail holes are provided on some straps.
7. When used as a truss-to-top plate tie multiply the tabulated values by 0.95 for LTS and 0.74 for MTS. HTS cannot be used in this application.
8. Nails: 10d = 0.148" dia. x 3" long, 10d x 1½" = 0.148" dia. x 1½" long. See pp. 27–28 for other nail sizes and information.



45° Hip End

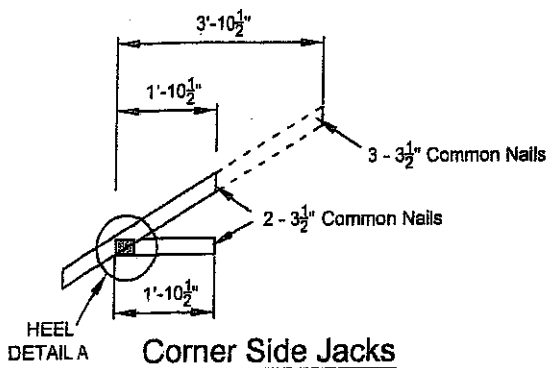
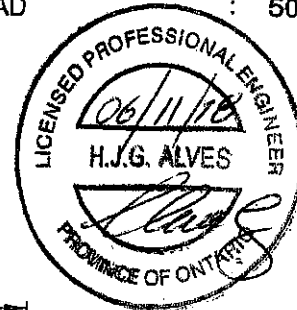
LUMBER SPECIFICATION

TOP CHORD : 2 x 4 SPF#2
BOTTOM CHORD : 2 x 4 SPF#2
WEBS : 2 x 3 SPF#2
UNLESS OTHERWISE SHOWN

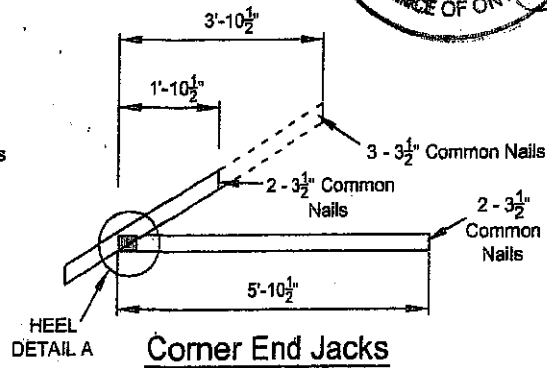
DESIGN LOAD

TOP CHORD SNOW LOAD : 40.5 P.S.F.
TOP CHORD DEAD LOAD : 3.0 P.S.F.
BOTTOM CHORD LIVE LOAD : 0.0 P.S.F.
BOTTOM CHORD DEAD LOAD : 7.0 P.S.F.

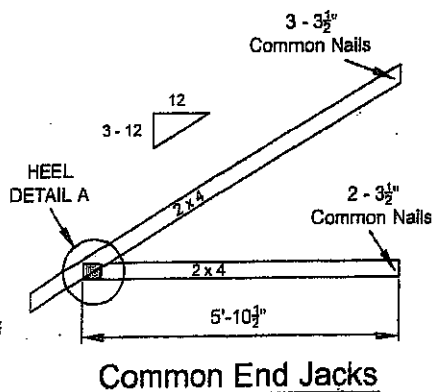
TOTAL LOAD : 50.5 P.S.F



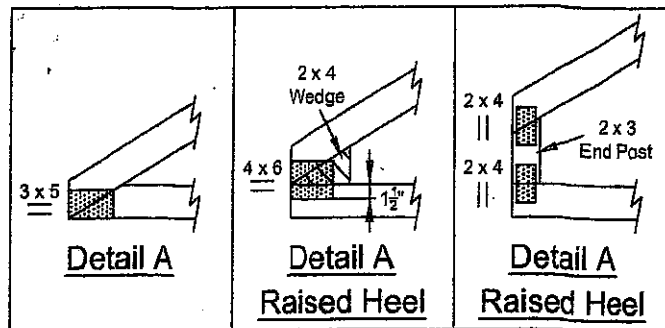
Corner Side Jacks



Corner End Jacks

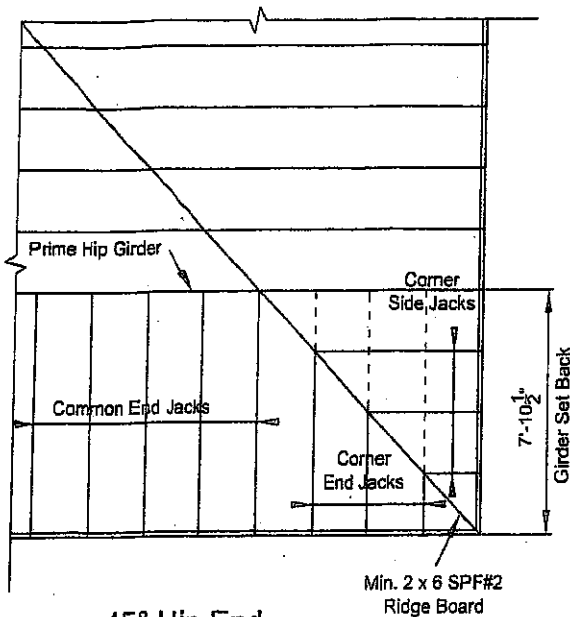


Common End Jacks



NOTE: DESIGN CONFORMS TO PART 9, O.B.C. 2012 (L.S.D. DESIGN)

T-1800216



45° Hip End

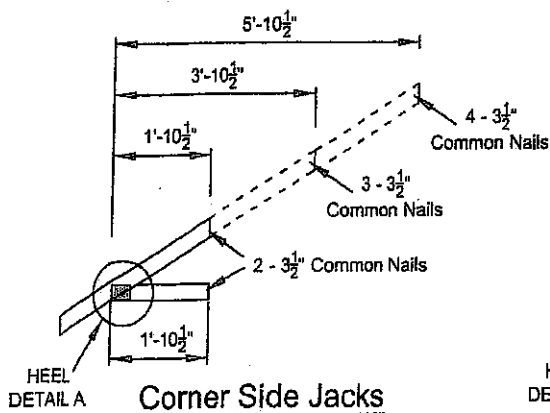
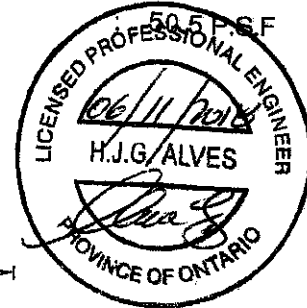
LUMBER SPECIFICATION

TOP CHORD : 2 x 4 SPF#2
 BOTTOM CHORD : 2 x 4 SPF#2
 WEBS : 2 x 3 SPF#2
 UNLESS OTHERWISE SHOWN

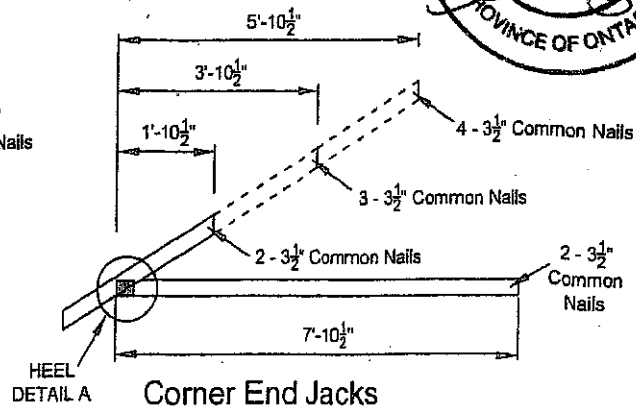
DESIGN LOAD

TOP CHORD SNOW LOAD : 40.5 P.S.F.
 TOP CHORD DEAD LOAD : 3.0 P.S.F.
 BOTTOM CHORD LIVE LOAD : 0.0 P.S.F.
 BOTTOM CHORD DEAD LOAD : 7.0 P.S.F.

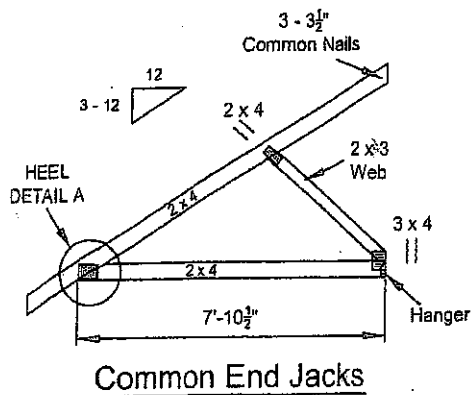
TOTAL LOAD



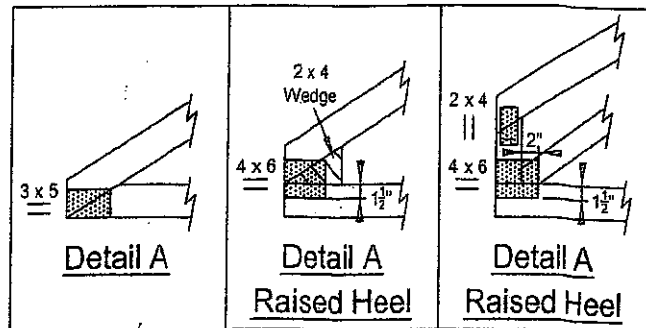
Corner Side Jacks



Corner End Jacks



Common End Jacks



NOTE: DESIGN CONFORMS TO PART 9, O.B.C. 2012 (L.S.D. DESIGN)

T-1800217



ONTARIO WOOD TRUSS
FABRICATORS ASSOCIATION



TECH-NOTES

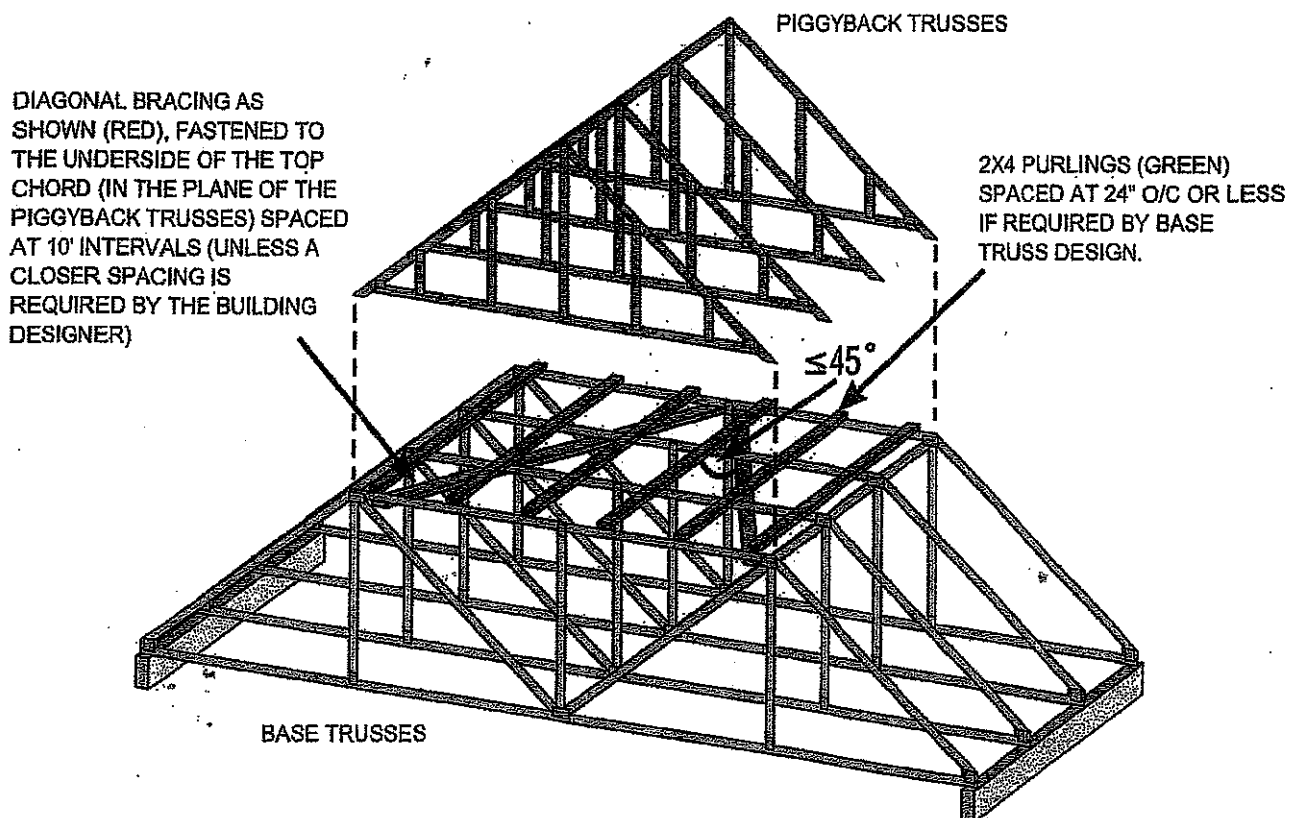
TN 15-001 Piggyback Bracing

Overview:

Where piggybacks are connected overtop of base trusses, 2x4 purlins must be first added to the flat portion of the base truss at a spacing no more than 24" o/c. These purlins not only provide support for the piggyback trusses above, but are required to laterally support the top chord of the base truss which will not have the sheathing directly connected to the flat portion of the base truss. This ensures the top chord, most often in compression, will not buckle laterally.

Further, the purlins in the plane of the flat portion require diagonal bracing to prevent lateral displacement of the purlins themselves where under certain conditions, the trusses may in fact all buckle in the same direction if this additional bracing is not added in the plane of the purlins.

Detail:



NOTE: THE SLOPED PORTION OF THE TOP CHORD OF THE BASE TRUSS AND PIGGYBACK TRUSS IN THIS SKETCH IS ASSUMED TO BE SHEATHED IN ACCORDANCE WITH THE OBC.

SKETCH FROM BCSI-CANADA 2013

Disclaimer:

OWTFA Tech Notes are intended to provide guidance to the design community both within the membership as well as to third party designers who might benefit from the information. The details have been developed by the OWTFA technical committee and although there may be professional engineers involved in development, the information contained in the tech-note are not intended to be used without having a professional engineer review the information for a specific application. The OWTFA takes no responsibility with respect to the information provided but has developed this tech-note to offer guidance where it is not currently readily available.

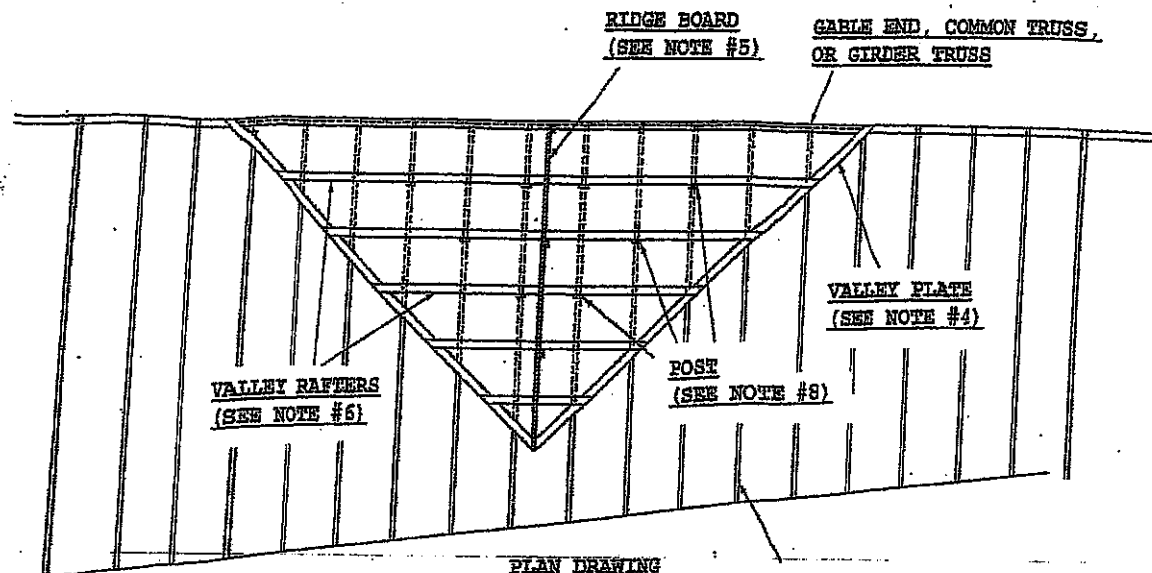
MICRO CITY ENGINEERING SERVICES INC.

TEL: (519) 287 - 2242

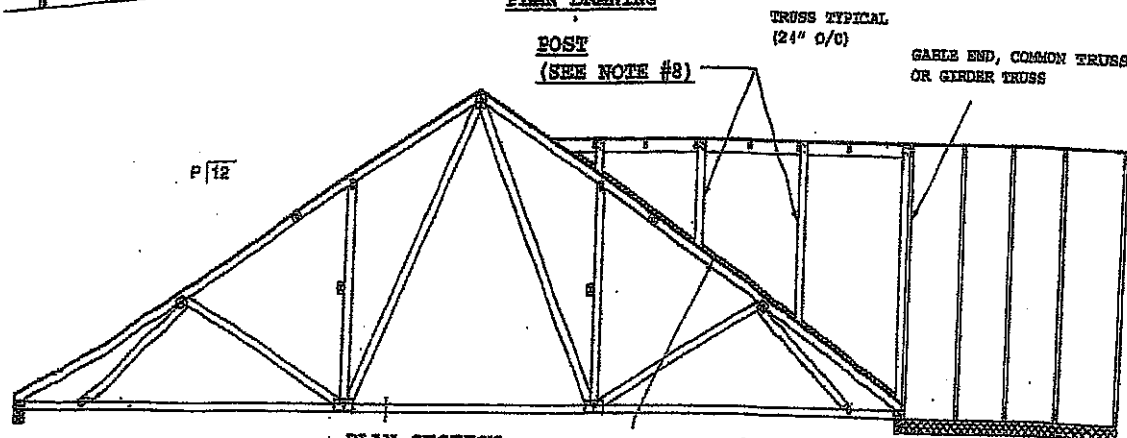
R.R. #1, P.O. BOX 61, GLENCOE, ONTARIO, NOL 1M0



CONVENTIONAL VALLEY FRAMING DETAIL



PLAN DRAWING



PLAN SECTION

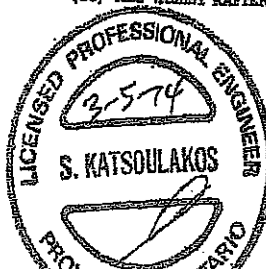
TRUSS MUST
BE SHEATHED

GENERAL SPECIFICATIONS:

- (1) WITH THE BASE TRUSSES ERECTED (INSTALLED), APPLY SHEATHING TOP CHORD OF SUPPORTING (BASE) TRUSSES.
- (2) BRACE BOTTOM CHORD AND WEB MEMBERS AS PER PRE-ENGINEERED TRUSS DESIGNS.
- (3) DEFINE VALLEY RIDGE BY RUNNING A LEVEL STRING FROM THE INTERSECTING RIDGE OF THE (a) GABLE END, (b) GIRDER TRUSS OR (c) COMMON TRUSS TO THE ROOF SHEATHING.
- (4) INSTALL 2 X 6 VALLEY PLATES ON FLAT. FASTEN TO EACH SUPPORTING TRUSS WITH (2) 16d (3.5" X 0.131") NAILS.
- (5) SET A 2 X 6 #2 RIDGE BOARD (MAX. 10'-0" RIDGE) OR 2 X 8 #2 SPF RIDGE BOARD (MAX. 20'-0" RIDGE). SUPPORT RIDGE BOARD WITH 2 X 4 POSTS SPACED 48" O/C. LEVEL BOTTOM OF POST TO SET EVENLY ON THE SHEATHING. FASTEN POST TO RIDGE WITH (4) 10d (3" X 0.131") NAILS. FASTEN POST TO ROOF SHEATHING WITH (3) 10d (3" X 0.131") TOE-NAILS.
- (6) FRAME VALLEY RAFTERS FROM VALLEY PLATE TO RIDGE BOARD, MAXIMUM RAFTER SPACING IS 24" O/C. FASTEN VALLEY RAFTER TO RIDGE BEAM WITH (3) 16d (3.5" X 0.131") TOE-NAILS. FASTEN VALLEY RAFTER TO VALLEY PLATE WITH (3) 16d (3.5" X 0.131") TOE-NAILS.
- (7) SUPPORT THE VALLEY RAFTERS WITH 2 X 4 POSTS AT 48" O/C (OR LESS) ALONG EACH RAFTER. INSTALL POSTS IN A STAGGERED PATTERN AS SHOWN ON PLAN DRAWING. ALIGN POSTS WITH TRUSSES BELOW. FASTEN VALLEY RAFTER TO POST WITH (4) 10d (3" X 0.131") NAILS. FASTEN POST THROUGH SHEATHING TO SUPPORTING TRUSSES WITH (2) 16d (3.5" X 0.131") NAILS.
- (8) POSTS SHALL BE 2 X 4 #2 SPF OR BETTER. POSTS EXCEEDING 75" IN HEIGHT SHALL BE INCREASED TO 4 X 4 #2 SPF, OR BETTER, OR BE PRE-ASSEMBLED TWO (2) PLX 2 X 4 #2 SPF OR BETTER FASTENED TOGETHER WITH 2 ROWS OF 10d (3" X 0.131") NAILS AT 6" O/C.
- (9) MAINTAIN A MINIMUM 3/4" LUMBER EDGE DISTANCE WHEN NAILING. NAIL SPACING SHOULD APPROXIMATE A MINIMUM 1-3/4" O/C OR MORE UNLESS NOTED OTHERWISE. ALL CONSTRUCTION TO CONFORM TO ONTARIO BUILDING CODE (CURRENT ADDITION) AT ALL TIMES.

NOTES:

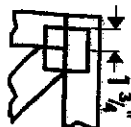
- (10) 48" O/C (MAXIMUM POST SPACING).
- (11) ROOF LIVE LOAD = 34.8 PSF (MAX.)
- (12) ROOF DEAD LOAD = 10.0 PSF (MAX.)
- (13) PART 9 APPLICATION ONLY (ONTARIO BUILDING CODE)
- (14) PART 4 APPLICATION ONLY (ONTARIO BUILDING CODE) WITH APPROVED REVIEW BY LICENSED PROFESSIONAL ENGINEER.
- (15) BASE TRUSS SPACING (24" O/C MAX.)
- (16) ALL PRE-ENGINEERED BASE TRUSS COMPONENTS TO BE SEALED BY LICENSED PROFESSIONAL ENGINEER AND THIS DETAIL TO BE VERIFIED AND APPROVED BY SAME WHEN RIDGE BOARD LENGTH EXCEEDS 12'-0".
- (17) ALL BASE TRUSSES: P = 4 (4/12) - MINIMUM.
- (18) ALL VALLEY RAFTERS: P = 4 (4/12) - MINIMUM.



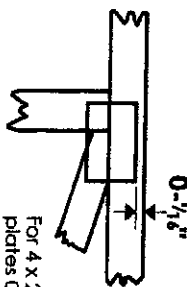
DWG NO T&M 6305.14
STRUCTURAL
COMPONENT ONLY

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in 1/16-in-sixteenths or mm. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0-1/2" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

*Plate location details available in Mitek software or upon request.

PLATE SIZE

4 X 4

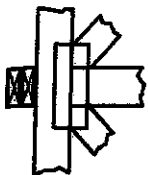
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use 1, I or Eliminator bracing if indicated.

BEARING

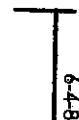


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

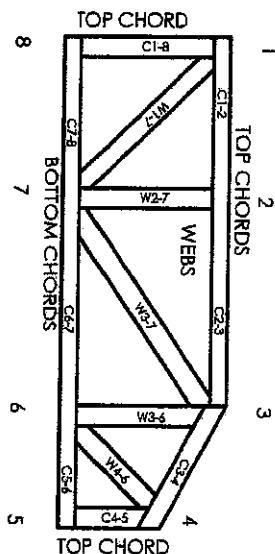
Industry Standards:

TPIC: Truss Design Procedures and Specifications for Light Metal Plate Connected Wood Trusses
 DSB-89: Design Standard for Bracing.
 BCST: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



6-4-8 dimensions shown in 1/16-in-sixteenths or mm (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

CCMC Reports:

11996-L, 10319-L, 13270-L, 12691-R

© 2007 Mitek® All Rights Reserved



Mitek

POWER TO PERFORM.™

Mitek Engineering Reference Sheet: MIL-7473C rev. 10-'08

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCST.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative 1, I, or Eliminator bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by TPIC.
7. Design assumes trusses will be suitably protected from the environment in accord with TPIC.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with TPIC Quality Criteria.



Alves Engineering Services Inc.

5208 Easton road
Burlington, Ontario L7L 6N6
(289) 259 5455

RESPONSABILITIES

- 1-Alves Engineering Services Inc. is responsible for the design of trusses as individual components
- 2-It is the responsibility of others to ascertain that the design loads utilized on this drawing meet or exceed the actual dead load imposed by the structure and the live load imposed by the local building code or the authorities having jurisdictions.
- 3- All dimensions are to be verified by owner, contractor, architect or other authority before manufacture.
- 4- Alves Engineering Services Inc. bears no responsibility for the erection of the trusses. Persons erecting trusses are cautioned to seek professional advice regarding temporary and permanent bracing system. Bracing shown on Alves Engineering Services Inc. drawings is specified for the truss as a single component and forms an integral part of the truss design, but is not meant to represent the only required bracing for that truss when trusses are installed in a series of trusses forming a roof truss system.
- 5- It is the manufacturer's responsibility to ensure that the trusses are manufactured in conformance with Alves Engineering Services Inc. specifications outlined below.

SPECIFICATIONS

- 1-Truss components sealed by Alves Engineering Services Inc. conform to the relevant sections of the current Building Code of Ontario and Canada (part 4 or part 9) or the current Canadian code for Farm Buildings in accordance with the application specified on the sealed truss component drawing. All truss component design procedures must conform to the current design standard issued by the truss plate institute of Canada (TPIC). All lumber and nailing stresses to conform to the current CSA wood design standard identified on the current Building Code and TPIC.
- 2- Lumber is to be the sizes and grade specified on the truss drawing.
- 3- Moist content of lumber is not to exceed 19% in service unless otherwise specified.
- 4- Plates shall be applied to both faces of the each truss joint and shall be positioned as shown on the truss drawings
- 5- Lumber used on manufacture of trusses is not to be treated with chemicals unless otherwise specified on the truss drawings.
- 6- The top chord is assumed to be continuously laterally braced by the roof sheathing or purlins at intervals specified on the truss drawing but not exceeding 24" c/c for (part 9) and not exceeding 48" for (part 4 or farm design)
- 7- When rigid ceiling is not attached directly to the bottom chord, lateral bracing is required and it should not exceed more than 3m or 10' intervals.
- 8-Refer to Mitek sheet MII7473C REV.10-08 attached for information on symbols, numbering system and General Safety notes.

T-1900213

Feb 09, 2018