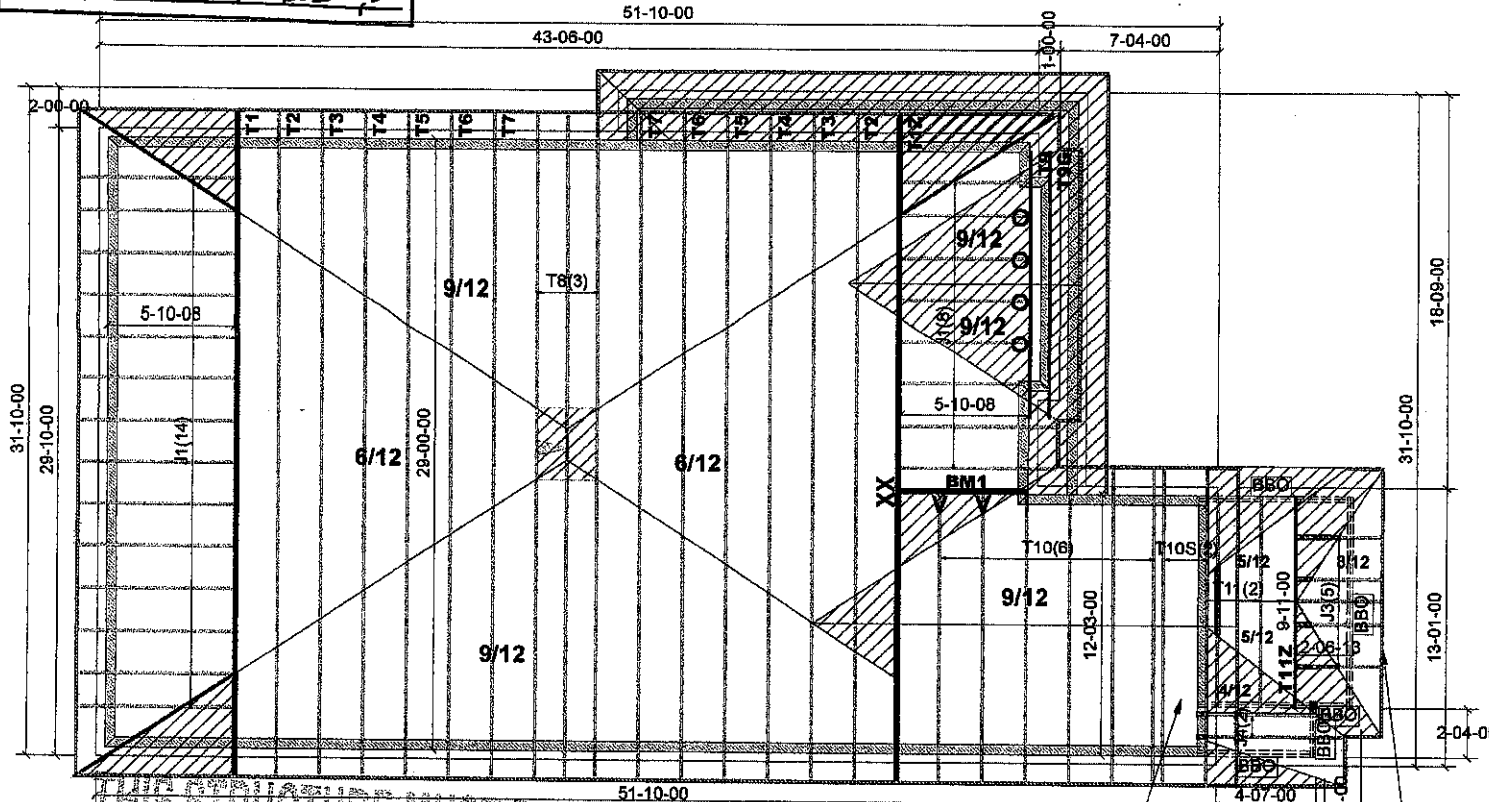


CERTIFIED MODEL

PRE-APPROVED

FOR PERMIT APPLICATION AS PER THE
ONTARIO BUILDING CODE
TOWN OF CALEDON BUILDING DIVISION

REVIEWED BY B. J. SNELL
DATE AUG. 7/19
FILE # PRESTON 1 - ELEV 1, 2



TRUSS PROFILES TO BE VERIFIED BY BUILDING DESIGNER

ALL CONVENTIONAL ROOF FRAMING TO
CONFORM WITH PART 9 OF THE OBC.
ROOF RAFTERS THAT MEET OR CROSS OVER
TRUSSES ARE TO BE 2"x4"SPF@24"O.C.
WITH 2"x4"SPF VERTICAL POST TO THE
TRUSS UNDER AT EACH CROSS POINT.
POSTS LONGER THAN 6' TO BE Laterally
BRACED SO THAT THE DISTANCE
BETWEEN END POINTS AND BETWEEN ROWS
OF BRACING DOES NOT EXCEED 6'.

TRUSSES DESIGNED CONFORM WITH:
ONTARIO BUILDING CODE (2012)
OCCUPANCY: RESIDENTIAL | PART: 9

DESIGN LOADS:

CITY: CALEDON
G.S.L = 37.6 psf
TC DL = 6 psf
BC LL = 10.50 psf
BC DL = 7.00 psf

NOTES:

FIN. OH.: 12"
HEEL TYPE: R.T.M. CANT.
EXT. WALLS: 2X6
CLAD. TYPE 1: BRICK/5"
CLAD. TYPE 2: SIDING/0"
FSC SIZE: 2X6
SHEATHING: ASPHALT SHINGLE

IF DESIGNED COMMERCIAL, REFER TO
SEALED TRUSS DOCS FOR UPLIFT DESIGN

HARDWARE:

LJS26DS (V) 2pcs
HGUS26-2 (XX) 1pcs
LUS24 (O) 4 pcs

CONV FRM BY OTHERS

T- 180737

COMMENTS:

BM1: 2-2"x10" SPF #2

THIS STRUCTURE MUST BE
CONSTRUCTED TO MEET OR
EXCEED THE PROVISIONS OF
THE ONTARIO BUILDING CODE

JUN 13 2019

TOWN OF CALEDON
BUILDING SECTION
FILE NO

APPLICANT COPY



Job Track: 50120

Plan Log: 200168

Layout ID: 400364

Builder / Location:

Greenpark / Caledon

Project: Lamberts Lane Home Corp.

Date: 2019-01-30 Designer: Brian

Model / Elevation:

Preston 1 / Elv. 1

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.

Mitek ver 8.2.3.229

DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER
 Builder: Greenpark
 Project: Lamberts Lane Home Corp.
 Location: Caledon
 Model: Preston 1
 Lot #:
 Elevation: 1

Job Track: 50120
 PlanLog: 200168
 Layout ID: 400364
 Ref #
 Page: 1 of 2
 Date: 01-30-2019
 Designer: Brian Faneca
 Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1 2-ply	T1 Hip Girder	9/12	29-00-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-06-04 1-06-04	277.77 176.00		
	1 2-ply	T1Z Hip Girder	9/12	29-00-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-06-04 1-06-04	277.77 176.00		
	2	T2 Hip	9/12	29-00-00	5-01-04	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	257.01 162.67		
	2	T3 Hip	9/12	29-00-00	6-01-04	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	254.02 162.67		
	2	T4 Hip	9/12	29-00-00	7-01-04	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	249.89 166.33		
	2	T5 Hip	9/12	29-00-00	8-01-04	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	284.41 183.33		
	2	T6 Hip	9/12	29-00-00	9-01-04	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	283.37 181.00		
	2	T7 Hip	9/12	29-00-00	10-01-04	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	275.24 180.00		
	3	T8 Hip	9/12	29-00-00	11-01-04	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	449.62 286.00		
	1	T9 Common Girder	9/12	10-02-00	5-04-00	2 x 4 2 x 6	1-03-08 1-03-08	1-06-04 1-06-04	50.43 32.83		
	1	T9G GABLE	9/12	10-02-00	5-04-00	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	46.57 31.50		
	6	T10 Common	9/12	12-03-00	6-01-06	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	338.76 226.00		
	2	T10S Scissor	9/12 4/12	12-03-00	6-01-06	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	108.28 72.67		
	2	T11 Common	5/12	9-11-00	2-06-02	2 x 4 2 x 6		5-06 5-06	63.43 38.00		

DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER
 Builder: Greenpark
 Project: Lamberts Lane Home Corp.
 Location: Caledon
 Model: Preston 1
 Lot #:
 Elevation: 1

Job Track: 50120
 PlanLog: 200168
 Layout ID: 400364
 Ref #
 Page: 2 of 2
 Date: 01-30-2019
 Designer: Brian Faneca
 Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1	T11Z Common Girder	5 /12	9-11-00	2-06-02	2 x 4 2 x 6		5-06 5-06	31.71 19.00		
	22	J1 Jack-Open	6 /12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	369.48 234.67		
	5	J3 Jack-Open	8 /12	2-06-13	2-11-01	2 x 4	1-03-08	9-10 2-06-02	44.21 30.00		
	2	J4 Jack-Open	4 /12	5-05-08	2-07-03	2 x 4	1-05-00	3-15 2-01-12	29.2 18.87		

TOTAL # TRUSS= 61

TOTAL BFT OF ALL TRUSSES= 2379.34

BFT.

TOTAL WEIGHT OF ALL TRSSES 3691.17 LBS

HARDWARE

QTY	TYPE	MODEL	LENGTH
1	Hardware	HGUS26-2	
2	Hardware	LJS26DS	
4	Hardware	LUS24	

TOTAL NUMBER OF ITEMS= 7

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
200168-400364	T1	1	2	Preston 1	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Tue Feb 5 20:42:02 2019 Page 2

ID:IFxHXfe38FX8N?VhzQQIYyQBwW-y3L3s65H6yZ77IIQ5C9LDbz7qDH5NqYNWu5zo56J

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

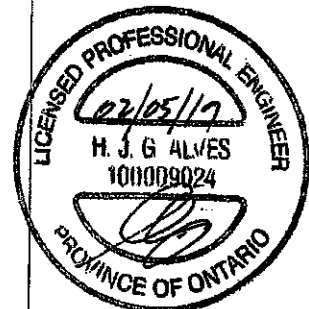
LOADING

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		LENGTH	FR-TO		
AO-N	0/3035	-38.5 -38.5	0.24 (1)	10.00			
N-AP	0/0	-38.5 -38.5	0.05 (3)	10.00			
AP-M	0/0	-38.5 -38.5	0.05 (3)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	3-5-5	-50	-56	---	FRONT	VERT	DEAD	---	---
C	3-5-5	-130	-130	---	FRONT	VERT	TOTAL	---	---
C	3-5-5	-285	-285	---	FRONT	VERT	SNOW	---	---
F	13-8-1	-123	-123	---	FRONT	VERT	TOTAL	---	---
J	25-8-11	-50	-56	---	FRONT	VERT	DEAD	---	---
J	25-8-11	-130	-130	---	FRONT	VERT	TOTAL	---	---
J	25-8-11	-285	-285	---	FRONT	VERT	SNOW	---	---
N	25-8-15	-55	-70	---	FRONT	VERT	TOTAL	---	---
T	3-8-1	-55	-70	---	FRONT	VERT	TOTAL	---	---
V	5-8-1	-123	-123	---	FRONT	VERT	TOTAL	---	---
W	7-8-1	-123	-123	---	FRONT	VERT	TOTAL	---	---
X	9-8-1	-123	-123	---	FRONT	VERT	TOTAL	---	---
Y	11-8-1	-123	-123	---	FRONT	VERT	TOTAL	---	---
Z	15-8-15	-123	-123	---	FRONT	VERT	TOTAL	---	---
AA	17-8-15	-123	-123	---	FRONT	VERT	TOTAL	---	---
AB	19-8-15	-123	-123	---	FRONT	VERT	TOTAL	---	---
AC	21-8-15	-123	-123	---	FRONT	VERT	TOTAL	---	---
AD	23-8-15	-123	-123	---	FRONT	VERT	TOTAL	---	---
AE	1-11-4	-55	-70	---	FRONT	VERT	TOTAL	---	---
AF	5-8-1	-55	-70	---	FRONT	VERT	TOTAL	---	---
AG	7-8-1	-55	-70	---	FRONT	VERT	TOTAL	---	---
AH	9-8-1	-55	-70	---	FRONT	VERT	TOTAL	---	---
AI	11-8-1	-55	-70	---	FRONT	VERT	TOTAL	---	---
AJ	13-8-1	-55	-70	---	FRONT	VERT	TOTAL	---	---
AK	15-8-15	-55	-70	---	FRONT	VERT	TOTAL	---	---
AL	17-8-15	-55	-70	---	FRONT	VERT	TOTAL	---	---
AM	19-8-15	-55	-70	---	FRONT	VERT	TOTAL	---	---
AN	21-8-15	-55	-70	---	FRONT	VERT	TOTAL	---	---
AO	23-8-15	-55	-70	---	FRONT	VERT	TOTAL	---	---
AP	27-0-12	-55	-70	---	FRONT	VERT	TOTAL	---	---



DWG NO. TAM T1902645
STRUCTURAL
COMPONENT ONLY 72

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
200168-400364	T1Z	1	2	Preston 1	
Tamarack Roof Truss, Burlington				Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Tue Feb 5 20:42:03 2019 Page 2	
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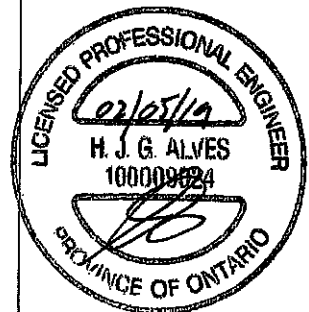
PLATES (table is in inches)

JT TYPE PLATES W LEN Y X
U BMV1+p MT20 3.0 6.0

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

FACTORED CONCENTRATED LOADS (LBS)

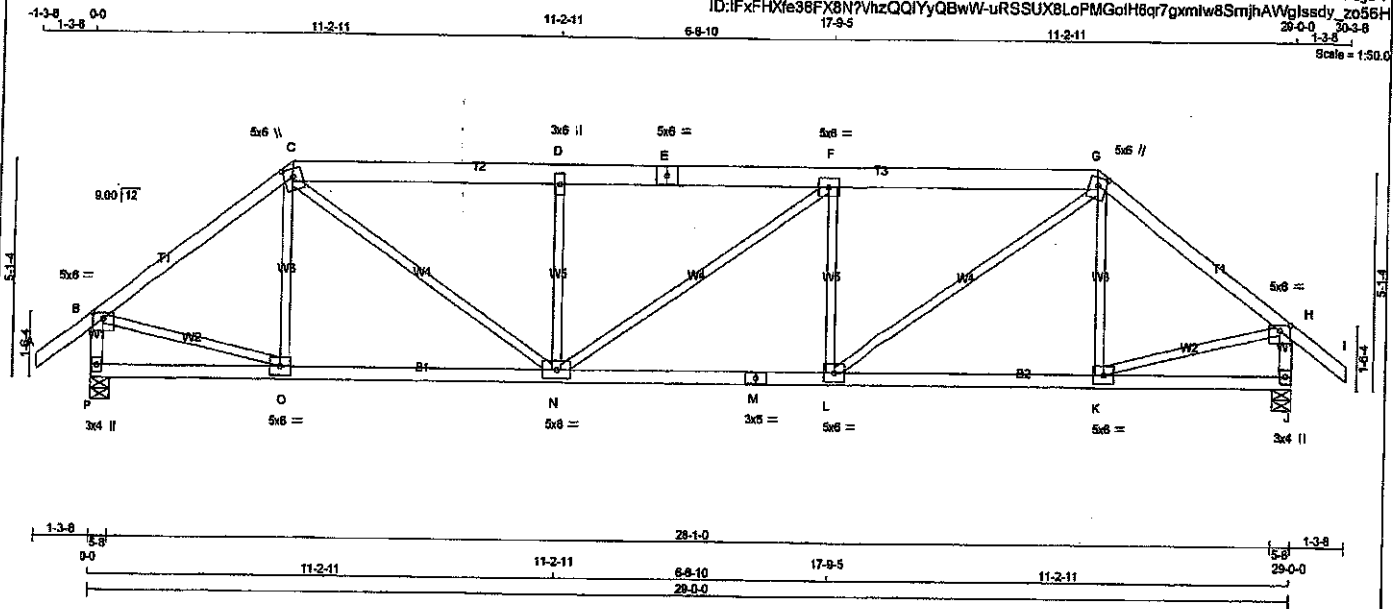
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	GONN.
F	13-6-1	-123	-123	---	BACK	VERT	TOTAL	---	---
P	18-7-8	-1379	-1379	---	BACK	VERT	TOTAL	---	---
T	3-6-1	-55	-70	---	BACK	VERT	TOTAL	---	---
V	5-6-1	-123	-123	---	BACK	VERT	TOTAL	---	---
W	7-6-1	-123	-123	---	BACK	VERT	TOTAL	---	---
X	9-6-1	-123	-123	---	BACK	VERT	TOTAL	---	---
Y	11-6-1	-123	-123	---	BACK	VERT	TOTAL	---	---
Z	15-5-15	-123	-123	---	BACK	VERT	TOTAL	---	---
AA	1-11-4	-55	-70	---	BACK	VERT	TOTAL	---	---
AB	5-6-1	-55	-70	---	BACK	VERT	TOTAL	---	---
AC	7-6-1	-55	-70	---	BACK	VERT	TOTAL	---	---
AD	9-6-1	-55	-70	---	BACK	VERT	TOTAL	---	---
AE	11-6-1	-55	-70	---	BACK	VERT	TOTAL	---	---
AF	13-6-1	-55	-70	---	BACK	VERT	TOTAL	---	---
AG	15-5-15	-55	-70	---	BACK	VERT	TOTAL	---	---



DWG NO. TAM T1902646
STRUCTURAL
COMPONENT ONLY 2/2

JOB NAME 200168-400364	TRUSS NAME T2	QUANTITY 2	PLY 1	JOB DESC. Preston 1	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.230 S Nov 17 2018 MiTek Industries, Inc. Tue Feb 5 20:42:04 2019 Page 1
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28-0-0 30-3-8
Scale = 1:50.0



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - E	2x6	DRY	No.2
E - G	2x6	DRY	No.2
G - I	2x4	DRY	No.2
P - B	2x4	DRY	No.2
J - H	2x4	DRY	No.2
P - M	2x4	DRY	No.2
M - J	2x4	DRY	No.2
ALL WEBS 2x3 DRY No.2			
EXCEPT			
DRY: SEASONED LUMBER.			

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMWV-p	MT20	5.0	8.0 1.50 3.00
C	TTWV+m	MT20	5.0	8.0 2.25 2.50
D	TMWV-w	MT20	3.0	8.0
E	TS-t	MT20	5.0	8.0
F	TMWV-t	MT20	5.0	8.0
G	TTWV+m	MT20	5.0	8.0 2.25 2.50
H	TMWV-p	MT20	5.0	8.0 1.50 3.00
J	BMV1+p	MT20	3.0	4.0
K, L, O				
K	BMWV-w	MT20	5.0	8.0
M	BS-t	MT20	3.0	8.0
N	BMWV-w	MT20	5.0	8.0
P	BMV1+p	MT20	3.0	4.0

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
P	2180	0	2180	0	0	5-8	5-8	5-8	5-8
J	2180	0	2180	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX / MIN. COMPONENT REACTIONS		SNOW		LIVE		PERM. LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
P	1620	922 / 0	305 / 0	0 / 0	0 / 0	394 / 0	0 / 0	P	1620	922 / 0	305 / 0	0 / 0	0 / 0	394 / 0	0 / 0
J	1620	922 / 0	305 / 0	0 / 0	0 / 0	394 / 0	0 / 0	J	1620	922 / 0	305 / 0	0 / 0	0 / 0	394 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		MAX. FACTORED		FACTORED		WEBS		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD LC1	MAX	CS1 (LC)	UNBRAC	MEMB.	FORCE (LBS)	MAX	CS1 (LC)
FR-TO		FROM	TO	LENGTH	FR-TO				
A-B	0 / 42	-102.1	-102.1	0.14 (1)	10.00	C-C	-201 / 98	0.07 (1)	
B-C	-2157 / 0	-102.1	-102.1	0.54 (1)	4.08	K-G	-201 / 98	0.07 (1)	
C-D	-3071 / 0	-102.1	-102.1	0.32 (1)	4.52	B-O	0 / 1786	0.40 (1)	
D-E	-3071 / 0	-102.1	-102.1	0.32 (1)	4.52	K-H	0 / 1786	0.40 (1)	
E-F	-3071 / 0	-102.1	-102.1	0.32 (1)	4.52	L-G	0 / 1681	0.37 (1)	
F-G	-3071 / 0	-102.1	-102.1	0.32 (1)	4.52	C-N	0 / 1681	0.37 (1)	
G-H	-2157 / 0	-102.1	-102.1	0.14 (1)	4.08	L-F	-732 / 0	0.26 (1)	
H-I	0 / 42	-102.1	-102.1	0.14 (1)	10.00	N-D	-732 / 0	0.28 (1)	
P-B	-2115 / 0	0.0	0.0	0.22 (1)	5.83	N-F	0 / 1	0.00 (3)	
J-H	-2115 / 0	0.0	0.0	0.22 (1)	5.83				
P-O	0 / 0	-38.5	-38.5	0.22 (3)	10.00				
O-N	0 / 1734	-38.5	-38.5	0.47 (2)	10.00				
N-M	0 / 3071	-38.5	-38.5	0.87 (1)	10.00				
M-L	0 / 3071	-38.5	-38.5	0.87 (1)	10.00				
L-K	0 / 1734	-38.5	-38.5	0.47 (2)	10.00				
K-J	0 / 0	-38.5	-38.5	0.22 (3)	10.00				

TOTAL WEIGHT = 2 X 128 = 257 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.5 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 BCBC 2018, OBC 2012
- CSA 088-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.97")
CALCULATED VERT. DEFL.(LL) = U/999 (0.14")
ALLOWABLE DEFL.(TL) = L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = U/999 (0.23")

CS1: TO=0.54/1.00 (B-C:1), BC=0.67/1.00 (L-N:1), WB=0.40/1.00 (H-K:1), SS=0.23/1.00 (C-D: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) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 818 354 1667 788 1987 1656

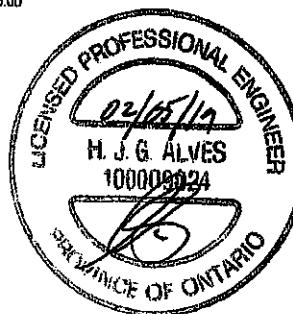
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (K) (INPUT = 0.90)
JSI METAL= 0.95 (M) (INPUT = 1.00)

DWG NO. TAM 1790 2647
STRUCTURAL
COMPONENT ONLY

THIS STRUCTURE MUST BE
CONSTRUCTED TO MEET OR
EXCEED THE PROVISIONS OF
THE ONTARIO BUILDING CODE

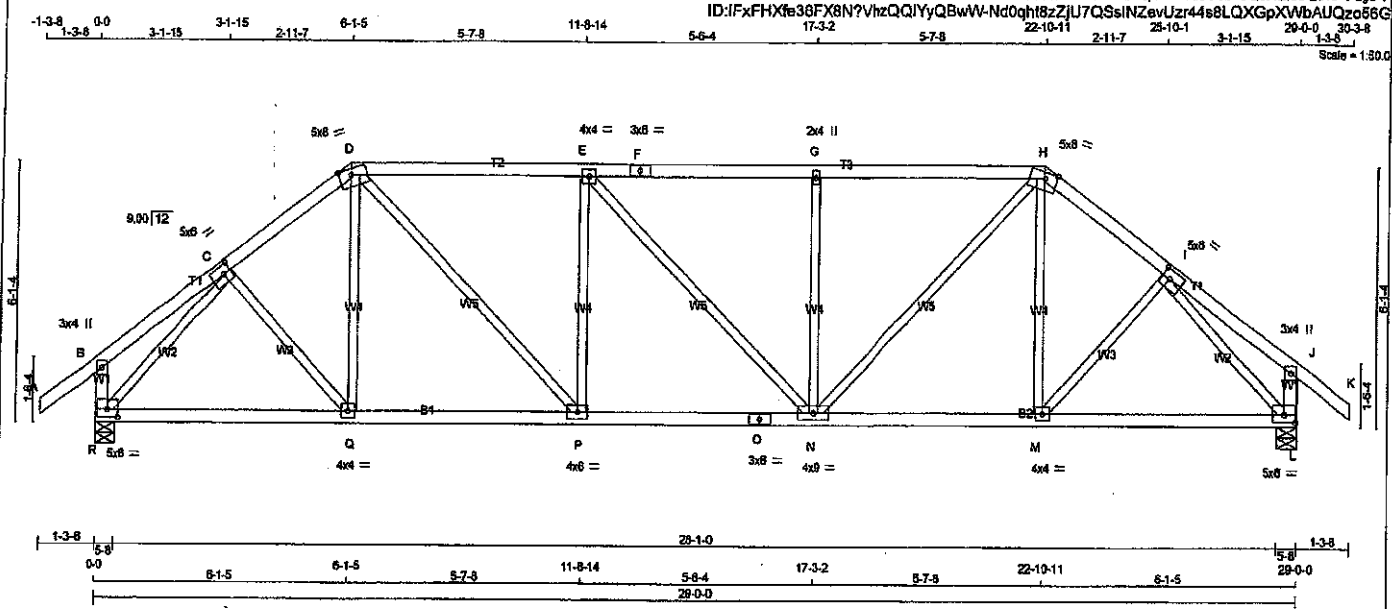


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
200168-400364	T3	2	1	Preston 1	
Tamarack Roof Truss, Burlington					

Version 8.230 S Nov 17 2018 Mittek Industries, Inc. Tue Feb 5 20:42:05 2019 Page 1

ID:IFxPHXfe38FX8N?VhzQQYyQBwVW-Nd0ght8zZJ7U7QSSiNZevUzr44s8LQXGpXWbAUQzo58G

Scale = 1:30.0



TOTAL WEIGHT = 2 X 127 = 254 lb

LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
H - K	2x4	DRY	No.2
R - B	2x4	DRY	No.2
L - J	2x4	DRY	No.2
R - O	2x4	DRY	No.2
O - L	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-1	MT20	5.0	6.0	2.50	2.25
D	TTWW-m	MT20	5.0	6.0	Edge	3.50
E	TMVW-1	MT20	4.0	4.0		
F	TS-1	MT20	3.0	6.0		
G	TMVW-w	MT20	2.0	4.0		
H	TTWW-m	MT20	5.0	6.0	Edge	3.50
I	TMVW-1	MT20	5.0	6.0	2.50	2.25
J	TMV+p	MT20	3.0	4.0		
L	BMVW-1	MT20	5.0	6.0	2.25	3.00
M	BMVW-1	MT20	4.0	4.0		
N	BMVW-1	MT20	4.0	9.0		
O	BS-1	MT20	3.0	6.0		
P	BMVW-1	MT20	4.0	6.0		
Q	BMVW-1	MT20	4.0	4.0		
R	BMVW-1	MT20	5.0	6.0	2.25	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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG
R	2180	0	2180	0	5-8
L	2180	0	2180	0	5-8

UNFACTORED REACTIONS		1ST LCASE	MAX./MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
R	1620	922 / 0	305 / 0	0 / 0	0 / 0	394 / 0	0 / 0
L	1620	922 / 0	305 / 0	0 / 0	0 / 0	394 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.74 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING		TOTAL LOAD CASES: (4)			
CHORDS		MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD LC1	MAX. (PLF)	MAX. (PLF)	MAX. (PLF)
FR-TO					
A-B	0 / 42	-102.1	-102.1	0.14 (1)	10.00
B-C	0 / 18	-102.1	-102.1	0.12 (1)	10.00
C-D	-2175 / 0	-102.1	-102.1	0.18 (1)	4.46
D-E	-2517 / 0	-102.1	-102.1	0.59 (1)	3.74
E-F	-2518 / 0	-102.1	-102.1	0.59 (1)	3.74
F-G	-2518 / 0	-102.1	-102.1	0.59 (1)	3.74
G-H	-2518 / 0	-102.1	-102.1	0.59 (1)	3.75
H-I	-2175 / 0	-102.1	-102.1	0.19 (1)	4.46
I-J	0 / 18	-102.1	-102.1	0.12 (1)	10.00
J-K	0 / 42	-102.1	-102.1	0.14 (1)	10.00
R-B	-268 / 0	0.0	0.0	0.03 (1)	7.81
L-J	-268 / 0	0.0	0.0	0.03 (1)	7.81
R-Q	0 / 1589	-38.5	-38.5	0.48 (2)	10.00
Q-P	0 / 1723	-38.5	-38.5	0.48 (2)	10.00
P-O	0 / 2817	-38.5	-38.5	0.51 (1)	10.00
O-N	0 / 2817	-38.5	-38.5	0.51 (1)	10.00
N-M	0 / 1723	-38.5	-38.5	0.48 (2)	10.00
M-L	0 / 1589	-38.5	-38.5	0.48 (2)	10.00

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN. CG

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 NBCC 2010, OBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.97")
CALCULATED VERT. DEFL.(LL) = L/999 (0.11")
ALLOWABLE DEFL.(TL) = L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/999 (0.20")

CSI: TC=0.58/1.00 (D-E-I), BC=0.51/1.00 (N-P-I), WB=0.82/1.00 (I-L-I), SS=0.27/1.00 (D-E-I)

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

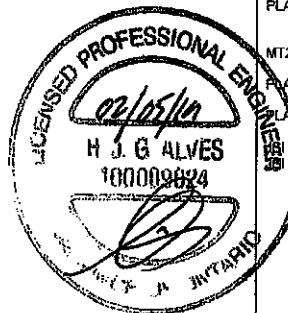
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 768 1987 1659

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

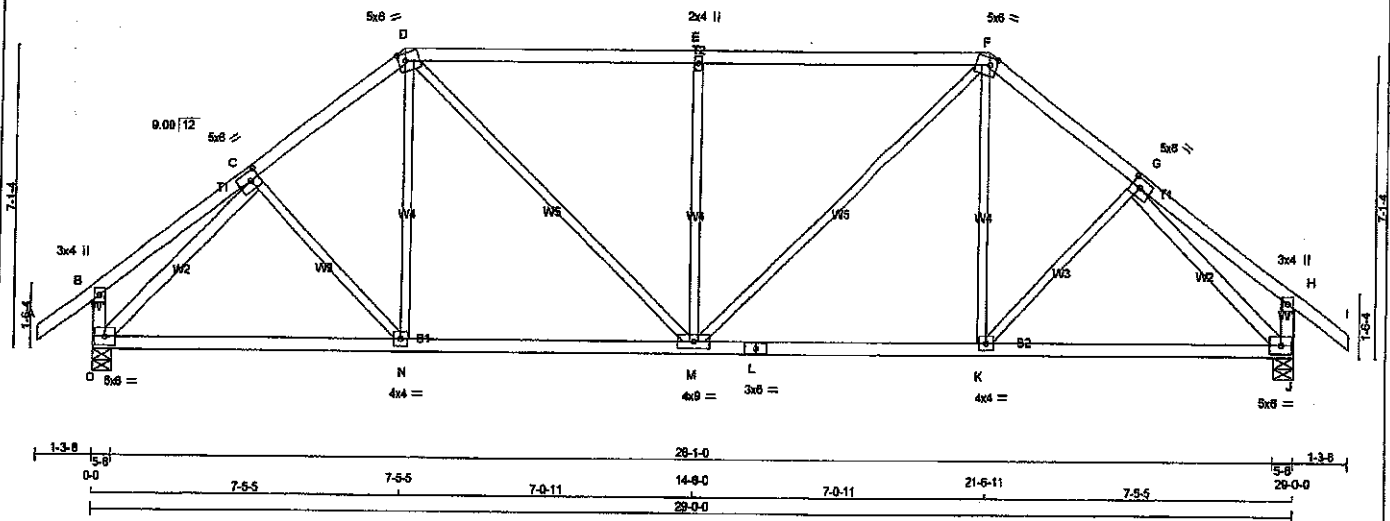
GRIP= 0.87 (L) (INPUT = 0.90)
GRIP= 0.76 (C) (INPUT = 1.00)



DWG NO. TAM T1902648
STRUCTURAL
COMPONENT ONLY

JOB NAME 200168-400364	TRUSS NAME T4	QUANTITY 2	PLY 1	JOB DESC. Preston 1	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.230 S Nov 17 2018 MITek Industries, Inc. Tue Feb 5 20:42:05 2019 Page 1
 ID:IFxHXfe38FX8N7VhzQQIYyQBwW-Nd0qht8zZJU7QSSiNZevUzr1Ms7gQX5pXVbAUQzo56G
 1-3-8 0-0 3-9-15 3-9-15 3-7-7 7-5-5 7-0-11 14-8-0 7-0-11 21-6-11 3-7-7 25-2-1 3-9-15 29-0-0 1-3-8
 Scale = 1:50.0



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
O - B	2x4	DRY No.2	SPF
J - H	2x4	DRY No.2	SPF
O - L	2x4	DRY No.2	SPF
L - J	2x4	DRY No.2	SPF
ALL WEBS EXCEPT	2x3	DRY No.2	SPF
O - C	2x4	DRY No.2	SPF
G - J	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-1	MT20	5.0	6.0	2.50	2.50
D	TTVW-m	MT20	5.0	6.0	2.00	2.00
E	TMV-w	MT20	2.0	4.0		
F	TTVW-m	MT20	5.0	6.0	2.00	2.00
G	TMVW-1	MT20	5.0	6.0	2.50	2.50
H	TMV+p	MT20	3.0	4.0		
J	BMVW-1	MT20	5.0	6.0		
K	BMVW-1	MT20	4.0	4.0		
L	BS-1	MT20	3.0	8.0		
M	BMVW-1	MT20	4.0	9.0		
N	BMVW-1	MT20	4.0	4.0		
O	BMVW-1	MT20	5.0	6.0		

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	RECORD BRG
	VERT	HORZ	DOWN	HORZ		
O	2180	0	2180	0	5-8	5-8
J	2180	0	2180	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE		MAX/MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
O	1620	922 / 0	305 / 0	0 / 0	0 / 0	394 / 0	0 / 0
J	1620	922 / 0	305 / 0	0 / 0	0 / 0	394 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.54 FT.
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. CS1 (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)
FR-TO		FROM TO			FR-TO		
A-B	0 / 42	-102.1 -102.1	0.14 (1)	10.00	C-N	0 / 129	0.03 (3)
B-C	0 / 25	-102.1 -102.1	0.21 (1)	10.00	N-D	0 / 343	0.08 (2)
C-D	-2143 / 0	-102.1 -102.1	0.22 (1)	4.47	D-M	0 / 807	0.18 (1)
D-E	-2276 / 0	-102.1 -102.1	0.77 (1)	3.54	M-E	-884 / 0	0.77 (1)
E-F	-2276 / 0	-102.1 -102.1	0.77 (1)	3.54	M-F	0 / 807	0.18 (1)
F-G	-2143 / 0	-102.1 -102.1	0.22 (1)	4.47	K-F	0 / 343	0.08 (2)
G-H	0 / 25	-102.1 -102.1	0.21 (1)	10.00	K-G	0 / 129	0.03 (3)
H-I	0 / 42	-102.1 -102.1	0.14 (1)	10.00	O-C	-2427 / 0	0.83 (1)
O-B	-288 / 0	0.0	0.03 (1)	7.81	G-J	-2427 / 0	0.83 (1)
J-H	-288 / 0	0.0	0.03 (1)	7.81			
O-N	0 / 1655	-38.5	-38.5	0.61 (2)	10.00		
N-M	0 / 1695	-38.5	-38.5	0.62 (2)	10.00		
M-L	0 / 1695	-38.5	-38.5	0.62 (2)	10.00		
L-K	0 / 1695	-38.5	-38.5	0.62 (2)	10.00		
K-J	0 / 1655	-38.5	-38.5	0.61 (2)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.5 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 BCBC 2018, OBC 2012
- CSA 088-08, CSA 088-14
- TPIC 2011, TPIC 2014

(55% OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.97")
CALCULATED VERT. DEFL.(LL) = L/999 (0.13")
ALLOWABLE DEFL.(TL) = L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/999 (0.22")

CSI: TC=0.77/1.00 (E-F:1), BC=0.62/1.00 (M-N:2), WB=0.83/1.00 (C-O:1), SG=0.35/1.00 (E-F: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

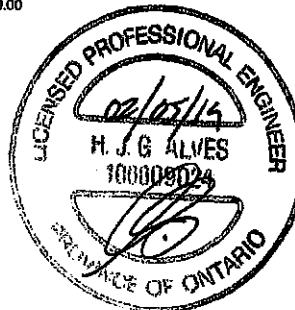
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1956

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (D) (INPUT = 0.90)
JSI METAL= 0.60 (C) (INPUT = 1.00)

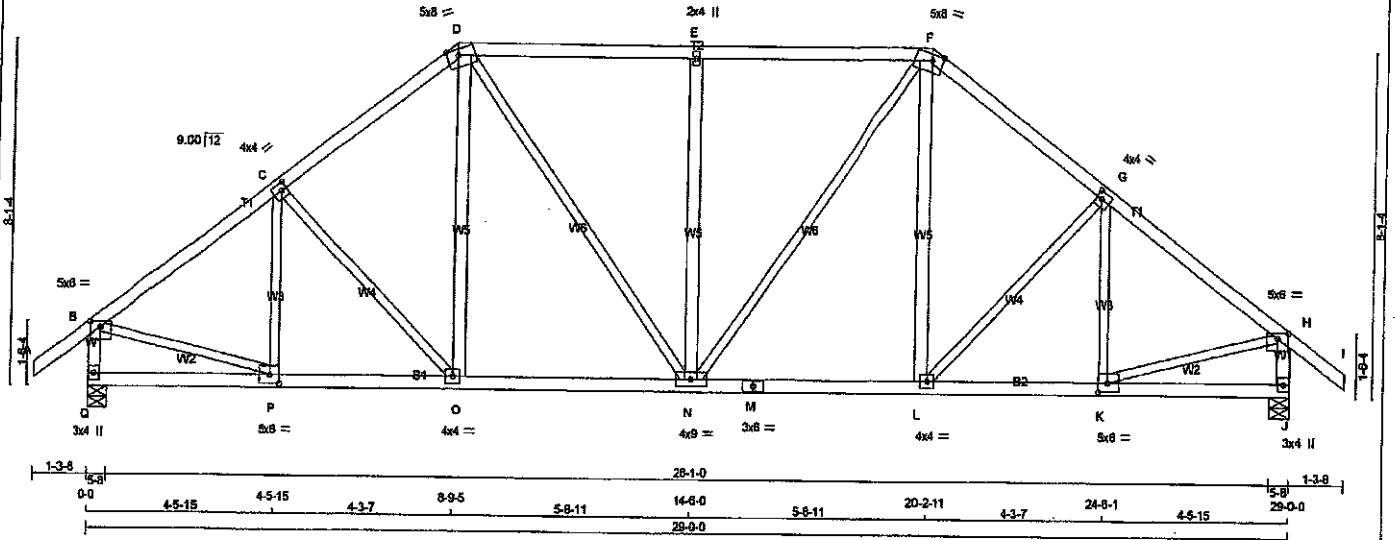


JUN 13 2019
TOWN OF CALEDON
BUILDING SECTION
FILE NO.

DRWG NO. TAM T1902645
STRUCTURAL
COMPONENT ONLY

JOB NAME 200168-400364	TRUSS NAME T5	QUANTITY 2	PLY 1	JOB DESC. Preston 1	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Tue Feb 5 20:42:06 2019 Page 1
ID:IFxHXfe38FX8N?VhzQQIYYQBWW-rqaCuD9bK0c 2cRUXG980BNHZGVH90CzALK1tzo56F
Scale = 1:50.0



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWV-p	MT20	5.0	6.0	1.50	3.00
C	TMWV-t	MT20	4.0	4.0	2.00	1.50
D	TTWV-m	MT20	5.0	8.0	1.75	3.25
E	TMWV-w	MT20	2.0	4.0		
F	TTWV-m	MT20	5.0	8.0	1.75	3.25
G	TMWV-t	MT20	4.0	4.0	2.00	1.50
H	TMWV-p	MT20	5.0	8.0	1.50	3.00
J	BMV1+p	MT20	3.0	4.0		
K	BMWV-t	MT20	5.0	6.0	2.50	2.75
L	BMWV-t	MT20	4.0	4.0		
M	BS-1	MT20	3.0	6.0		
N	BMWV-t	MT20	4.0	4.0		
O	BMWV-t	MT20	4.0	4.0		
P	BMWV-t	MT20	5.0	6.0	2.50	2.75
Q	BMV1+p	MT20	3.0	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
Q	2180	0	2180	0	0	5-8	5-8
J	2180	0	2180	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
Q	1620	922 / 0	305 / 0	0 / 0	0 / 0	394 / 0	0 / 0
J	1620	922 / 0	305 / 0	0 / 0	0 / 0	394 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.29 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC1)	MAX. FACTORED VERT. LOAD (LC2)
FR-TO		FROM TO		FR-TO			
A-B	0 / 42	-102.1 -102.1	0.14 (1)	10.00	P-C	-288 / 24	0.10 (1)
B-C	-2168 / 0	-102.1 -102.1	0.31 (1)	4.35	C-O	-219 / 0	0.16 (1)
C-D	-2045 / 0	-102.1 -102.1	0.30 (1)	4.46	O-D	0 / 376	0.06 (2)
D-E	-1956 / 0	-102.1 -102.1	0.48 (1)	4.29	D-N	0 / 579	0.13 (1)
E-F	-1956 / 0	-102.1 -102.1	0.48 (1)	4.29	N-E	-713 / 0	0.84 (1)
F-G	-2045 / 0	-102.1 -102.1	0.30 (1)	4.46	N-F	0 / 579	0.13 (1)
G-H	-2168 / 0	-102.1 -102.1	0.31 (1)	4.35	L-F	0 / 376	0.06 (2)
H-I	0 / 42	-102.1 -102.1	0.14 (1)	10.00	L-G	-219 / 0	0.16 (1)
I-J	-2106 / 0	0.0 0.0	0.22 (1)	5.84	K-G	-288 / 24	0.10 (1)
J-K	-2106 / 0	0.0 0.0	0.22 (1)	5.84	B-P	0 / 1820	0.41 (1)
					K-H	0 / 1820	0.41 (1)
Q-P	0 / 0	-38.5 -38.5	0.13 (3)	10.00			
P-O	0 / 1759	-38.5 -38.5	0.39 (1)	10.00			
O-N	0 / 1613	-38.5 -38.5	0.40 (2)	10.00			
N-M	0 / 1613	-38.5 -38.5	0.40 (2)	10.00			
M-L	0 / 1613	-38.5 -38.5	0.40 (2)	10.00			
L-K	0 / 1759	-38.5 -38.5	0.39 (1)	10.00			
K-J	0 / 0	-38.5 -38.5	0.13 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.5 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 BCBC 2018, CBC 2012
- CSA 088-08, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.97")
CALCULATED VERT. DEFL.(LL) = L/989 (0.09")
ALLOWABLE DEFL.(TL)= L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/989 (0.14")

CSI: TC=0.48/1.00 (D-E-1), BC=0.40/1.00 (N-O-2), WB=0.64/1.00 (E-N-1), SSI=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.

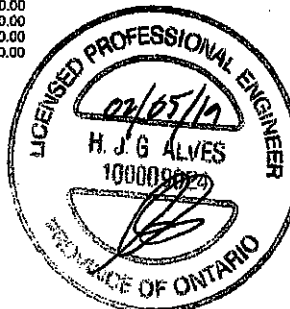
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

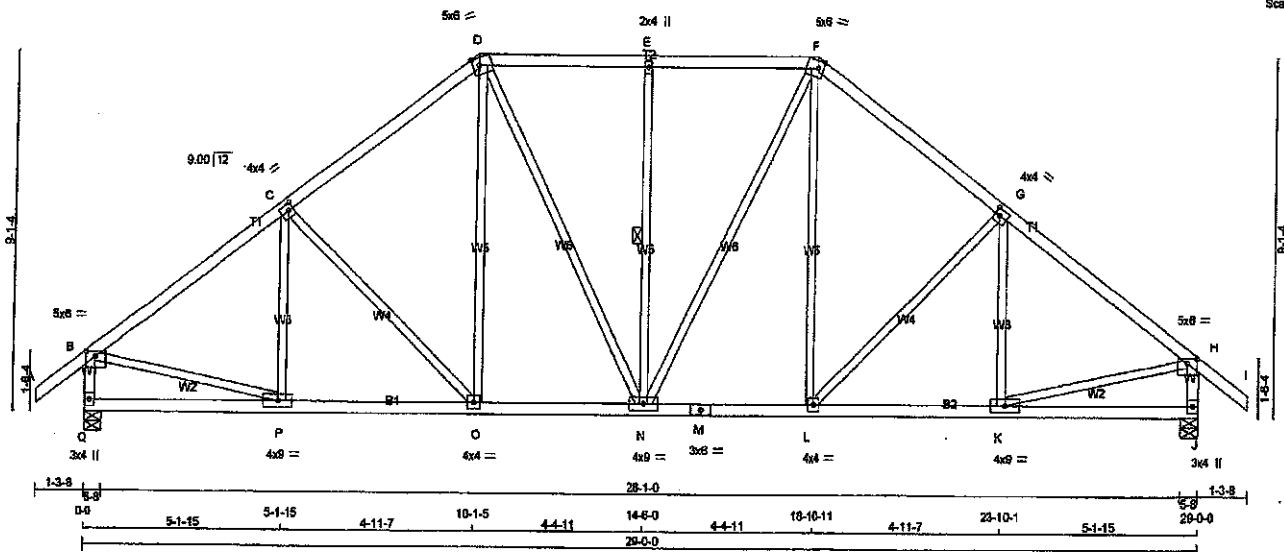
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (J) (INPUT = 0.90)
JSI METAL= 0.51 (M) (INPUT = 1.00)



DWG NO. TAM T102650
STRUCTURAL
COMPONENT ONLY

JOB NAME 200168-400364	TRUSS NAME T6	QUANTITY 2	PLY 1	JOB DESC. Preston 1	TRUSS DESC.	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.230 S Nov 17 2018 MTEK Industries, Inc. Tue Feb 5 20:42:07 2019 Page 1		
ID: IFxHXFe38FX8N?VhzQQIYyQBWW-J08b6ZAD5Kkrfm0hV_gNZOwTHgrKuX46_g4HZJzo56E				29-0-0 30-3-8		
1-3-8 0-0 5-1-15 5-1-15 4-11-7 10-1-5 4-4-11 14-8-0 4-4-11 18-10-11 4-11-7 23-10-1 5-1-15 1-3-8				Scale = 1:54.0		



TOTAL WEIGHT = 2 X 142 = 283 lb
(MDF)

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

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

PLATES (table in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	6.0	1.50 3.00
C	TMVW-t	MT20	4.0	4.0	2.00 1.50
D	TTWW-m	MT20	5.0	6.0	Edge 2.00
E	TMVW-w	MT20	2.0	4.0	
F	TTWW-m	MT20	5.0	6.0	Edge 2.00
G	TMVW-t	MT20	4.0	4.0	2.00 1.50
H	TMVW-p	MT20	5.0	6.0	1.50 3.00
J	BMV1-p	MT20	3.0	4.0	
K	BMVW-t	MT20	4.0	9.0	
L	BMVW-t	MT20	4.0	4.0	
M	BS-t	MT20	3.0	6.0	
N	BMVW-w	MT20	4.0	9.0	
O	BMVW-t	MT20	4.0	4.0	
P	BMVW-t	MT20	4.0	9.0	
Q	BMV1-p	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

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
Q	2180	0	2180	0
J	2180	0	2180	0

UNFACTORED REACTIONS

JT	1ST LCASE	MAX	MIN	COMPONENT REACTIONS
	SNOW	LIVE	PERM	LIVE
Q	1820	922 / 0	305 / 0	0 / 0
J	1820	922 / 0	305 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.21 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF E-N.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 42	-102.1 -102.1	0.14 (1)	P-C	-194 / 98	0.08 (1)	
B-C	-2198 / 0	-102.1 -102.1	0.42 (1)	C-O	-364 / 0	0.36 (1)	
C-D	-1954 / 0	-102.1 -102.1	0.39 (1)	O-D	0 / 444	0.10 (2)	
D-E	-1709 / 0	-102.1 -102.1	0.28 (1)	D-N	0 / 389	0.09 (1)	
E-F	-1709 / 0	-102.1 -102.1	0.28 (1)	N-E	-538 / 0	0.29 (1)	
F-G	-1954 / 0	-102.1 -102.1	0.39 (1)	N-F	0 / 389	0.09 (1)	
G-H	-2198 / 0	-102.1 -102.1	0.42 (1)	L-F	0 / 444	0.10 (2)	
H-I	0 / 42	-102.1 -102.1	0.14 (1)	L-G	-364 / 0	0.36 (1)	
Q-B	-2098 / 0	0.0 0.0	0.22 (1)	K-G	-194 / 98	0.08 (1)	
J-H	-2098 / 0	0.0 0.0	0.22 (1)	B-P	0 / 1834	0.41 (1)	
				K-H	0 / 1834	0.41 (1)	
Q-P	0 / 0	-38.5 -38.5	0.19 (3)				
P-O	0 / 1787	-38.5 -38.5	0.42 (2)				
O-N	0 / 1535	-38.5 -38.5	0.34 (1)				
N-M	0 / 1535	-38.5 -38.5	0.34 (1)				
M-L	0 / 1535	-38.5 -38.5	0.34 (1)				
L-K	0 / 1787	-38.5 -38.5	0.42 (2)				
K-J	0 / 0	-38.5 -38.5	0.19 (3)				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	= 29.0 PSF
	DL	= 6.0 PSF
BOT CH.	LL	= 10.5 PSF
	DL	= 7.0 PSF
TOTAL LOAD		= 52.5 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 NBCC 2018, OBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.97")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL) = L/360 (0.97")
CALCULATED VERT. DEFL.(TL) = L/999 (0.12")

CSK: TC=0.42/1.00 (B-C:1), BC=0.42/1.00 (O-P:2), WB=0.41/1.00 (B-P:1), SS=0.22/1.00 (D-E: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.

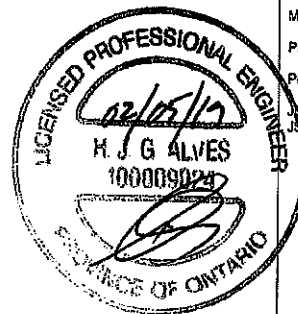
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

GRIP=0.88 (P) (INPUT = 0.90)
METAL=0.50 (M) (INPUT = 1.00)



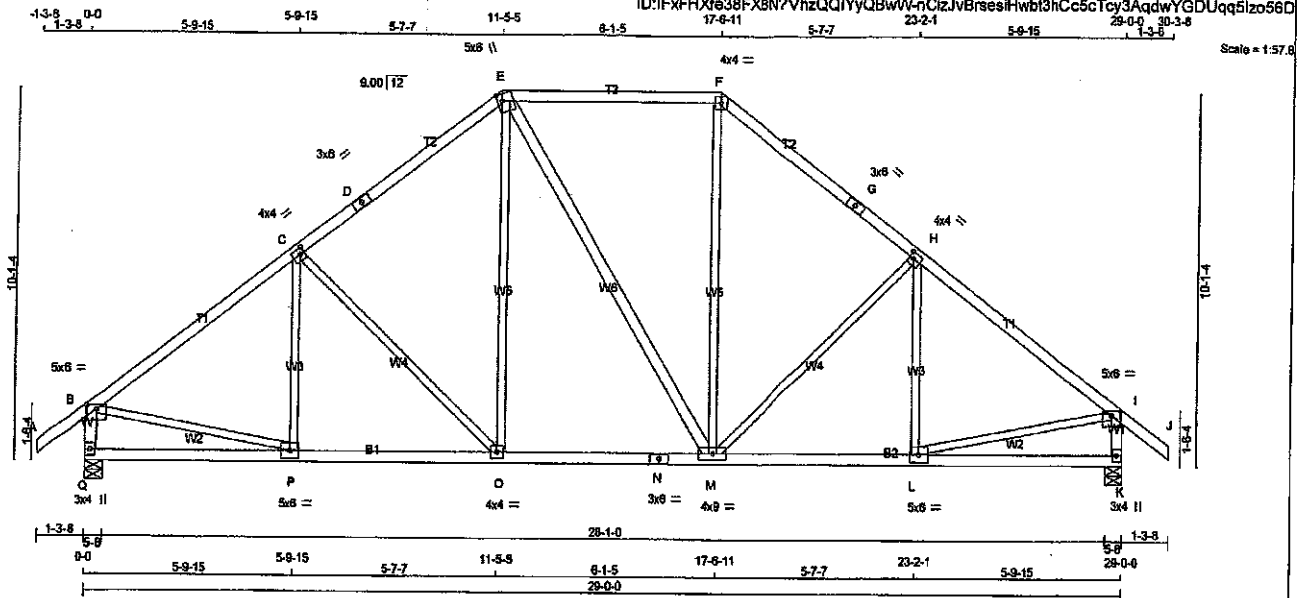
DRWG NO. TAM T1902651
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
200168-400364	T7	2	1	Preston 1		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 2 X 136 = 275 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
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
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
ALL WEBS EXCEPT E - M	2x3	DRY	No.2	SPF
DRY, SEASONED LUMBER.				

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
Q	2180	0	2180	0	5-8	5-8
K	2180	0	2180	0	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERMLIVE	WIND	DEAD	SOIL
Q	1620	922 / 0	305 / 0	0 / 0	0 / 0	394 / 0	0 / 0
K	1620	922 / 0	305 / 0	0 / 0	0 / 0	394 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)		
FR-TO		FROM	TO		FR-TO				
A-B	0 / 42	-102.1	-102.1	0.14 (1)	10.00	P-C	-123 / 150 0.07 (1)		
B-C	-2208 / 0	-102.1	-102.1	0.55 (1)	4.04	C-O	-492 / 0 0.85 (1)		
C-D	-1855 / 0	-102.1	-102.1	0.50 (1)	4.38	O-E	0 / 571 0.13 (2)		
D-E	-1855 / 0	-102.1	-102.1	0.50 (1)	4.38	E-M	0 / 1 0.00 (2)		
E-F	-1454 / 0	-102.1	-102.1	0.52 (1)	4.75	M-F	0 / 573 0.13 (2)		
F-G	-1856 / 0	-102.1	-102.1	0.50 (1)	4.38	M-H	-491 / 0 0.85 (1)		
G-H	-1856 / 0	-102.1	-102.1	0.50 (1)	4.38	H-I	-125 / 149 0.07 (1)		
H-I	-2208 / 0	-102.1	-102.1	0.55 (1)	4.04	B-P	0 / 1838 0.41 (1)		
I-J	0 / 42	-102.1	-102.1	0.14 (1)	10.00	L-I	0 / 1838 0.41 (1)		
Q-B	-2088 / 0	0.0	0.0	0.22 (1)	5.86				
K-I	-2087 / 0	0.0	0.0	0.22 (1)	5.86				
Q-P	0 / 0	-38.5	-38.5	0.24 (3)	10.00				
P-O	0 / 1801	-38.5	-38.5	0.46 (2)	10.00				
O-N	0 / 1453	-38.5	-38.5	0.39 (2)	10.00				
N-M	0 / 1453	-38.5	-38.5	0.39 (2)	10.00				
M-L	0 / 1800	-38.5	-38.5	0.46 (2)	10.00				
L-K	0 / 0	-38.5	-38.5	0.23 (3)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	= 29.0 PSF
DL	= 6.0 PSF
BOT CH. LL	= 10.5 PSF
DL	= 7.0 PSF
TOTAL LOAD	= 52.5 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 CBC 2010, CBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = $L/360$ (0.97")
CALCULATED VERT. DEFL. (LL) = $L/999$ (0.08")
ALLOWABLE DEFL. (TL) = $L/360$ (0.97")
CALCULATED VERT. DEFL. (TL) = $L/999$ (0.14")

CS1: TC=0.55/1.00 (B-C-1), BC=0.48/1.00 (O-P-2), WB=0.65/1.00 (C-O-1), SS=0.24/1.00 (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

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

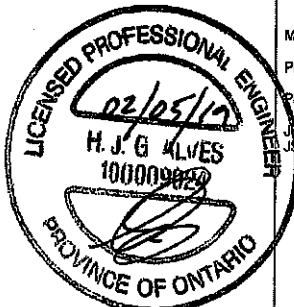
NAIL VALUES

PLATE GRIP (DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	618	354
MT20	1667	768
MT20	1667	1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

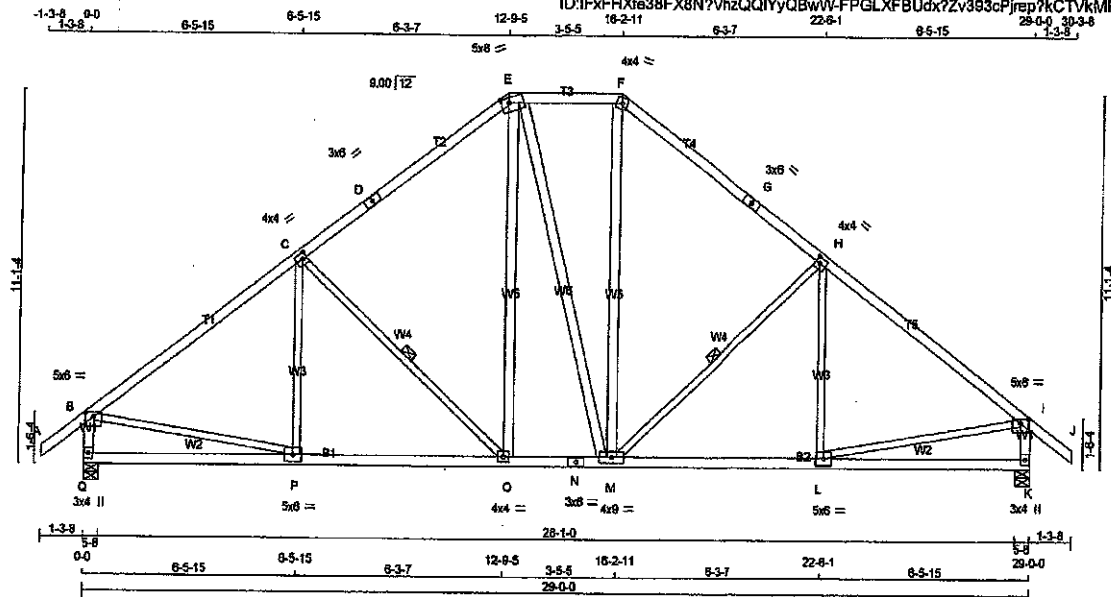
J1 GRIP=0.88 (F) (INPUT=0.90)
J1 METAL=0.46 (N) (INPUT=1.00)



DWG NO. TAM 71902652
STRUCTURAL
COMPONENT ONLY

JUN 13 2019
TOWN OF BUILDING
FILE NO.
CALEDON
SECTION

JOB NAME 200168-400364	TRUSS NAME T8	QUANTITY 3	PLY 1	JOB DESC. Preston 1	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Tue Feb 5 20:42:09 2019 Page 1	
ID: IFXHXfe38FX8N?VhzQQIYyQBwW-FPGLXFBUDx?Zv393cPjrep?kCTV/kMRZPR6ZQdBo5BC				29-0-0 30-3-8	



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
E - F	2x4	DRY	No.2
F - G	2x4	DRY	No.2
G - J	2x4	DRY	No.2
Q - B	2x4	DRY	No.2
K - I	2x4	DRY	No.2
Q - N	2x4	DRY	No.2
N - K	2x4	DRY	No.2
ALL WEBS 2x3 DRY No.2 SPF			
EXCEPT			
O - E	2x4	DRY	No.2
E - M	2x4	DRY	No.2
M - F	2x4	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMWV-p	MT20	5.0	6.0 1.50 3.00
C	TMWV-t	MT20	4.0	4.0 2.00 1.50
D	TS-t	MT20	3.0	6.0
E	TTWV-m	MT20	5.0	8.0 1.75 2.75
F	TTW-m	MT20	4.0	4.0
G	TS-t	MT20	3.0	6.0
H	TMWV-t	MT20	4.0	4.0 2.00 1.50
I	TMWV-p	MT20	5.0	6.0 1.50 3.00
K	BMV1-p	MT20	3.0	4.0
L	BMVW-t	MT20	5.0	6.0
M	BMVW-t	MT20	4.0	8.0
N	BS-t	MT20	3.0	6.0
O	BMWV-t	MT20	5.0	6.0
P	BMWV-t	MT20	4.0	4.0
Q	BMV1-p	MT20	3.0	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
Q	2180	0	2180	0	5-8	5-8	5-8
K	2180	0	2180	0	5-8	5-8	5-8

UNFACTORED REACTIONS		MAX./MIN. COMPONENT REACTIONS	
1ST LCASE		SNOW	LIVE
JT	COMBINED	922 / 0	305 / 0
Q		922 / 0	305 / 0
K		922 / 0	305 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.81 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-O, H-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		FACTORED		WEBS	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. (LC)	MEMB.	FORCE (LBS)
FR-TO		FROM	TO	FR-TO	
A-B	0 / 42	-102.1	-102.1	0.14 (1)	10.00
B-C	-2211 / 0	-102.1	-102.1	0.71 (1)	3.81
C-D	-1738 / 0	-102.1	-102.1	0.83 (1)	4.30
D-E	-1738 / 0	-102.1	-102.1	0.83 (1)	4.30
E-F	-1359 / 0	-102.1	-102.1	0.18 (1)	5.40
F-G	-1739 / 0	-102.1	-102.1	0.83 (1)	4.30
G-H	-1739 / 0	-102.1	-102.1	0.83 (1)	4.30
H-I	-2210 / 0	-102.1	-102.1	0.71 (1)	3.81
I-J	0 / 42	-102.1	-102.1	0.14 (1)	10.00
Q-B	-2080 / 0	0.0	0.0	0.22 (1)	5.87
K-I	-2080 / 0	0.0	0.0	0.22 (1)	5.87
P-O	0 / 0	-38.5	-38.5	0.32 (3)	10.00
O-P	0 / 1806	-38.5	-38.5	0.55 (2)	10.00
O-N	0 / 1357	-38.5	-38.5	0.33 (1)	10.00
N-M	0 / 1357	-38.5	-38.5	0.33 (1)	10.00
M-L	0 / 1806	-38.5	-38.5	0.54 (2)	10.00
L-K	0 / 0	-38.5	-38.5	0.32 (3)	10.00

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.5 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 NBC 2010, NBC 2012
- CSA 088-08, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.87")
CALCULATED VERT. DEFL. (LL) = 1/999 (0.09")
ALLOWABLE DEFL. (TL) = L/360 (0.87")
CALCULATED VERT. DEFL. (TL) = 1/999 (0.15")

CSI: TC=0.71/1.00 (B-C:1), BC=0.55/1.00 (O-P:2), WB=0.41/1.00 (B-P:1), SS=0.28/1.00 (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

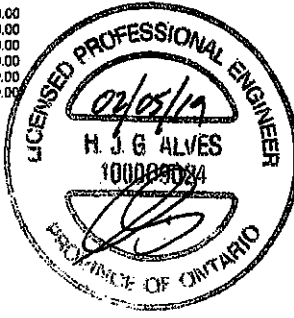
TRUSS MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 818 354 1657 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

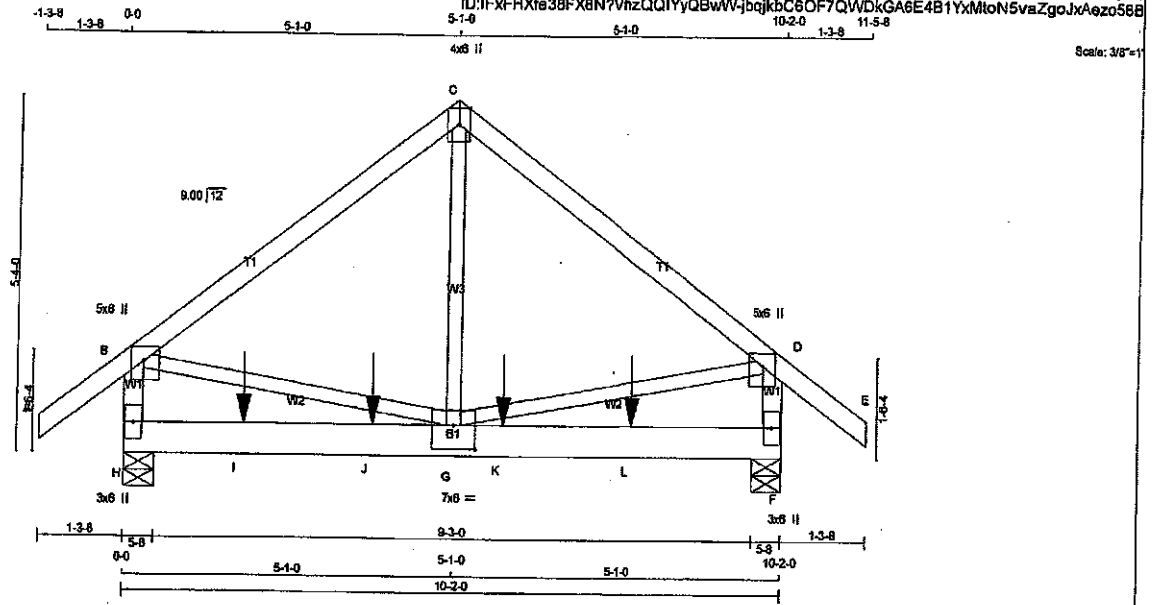
JSI GRIP= 0.87 (Q) (INPUT = 0.90)
JSI METAL= 0.46 (N) (INPUT = 1.00)



DRWG NO. TAM T1902653
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
200168-400364	T9	1	1	Preston 1	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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TOTAL WEIGHT = 50 lb
(M)

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	2x4	DRY	No.2	SPF
F - D	2x4	DRY	No.2	SPF
H - F	2x6	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	5.0	6.0	2.50	2.25
C	TTW+p	MT20	4.0	6.0	Edge	
D	TMVW+p	MT20	5.0	6.0	2.50	2.25
F	BMV1+p	MT20	3.0	6.0		
G	BMVWW-I	MT20	7.0	8.0	4.25	4.00
H	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	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
H	2129	0	2129	0
F	2013	0	2013	0

UNFACTORED REACTIONS

JT	1ST LOASE	MAX/MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
H	1549	887 / 0	214 / 0	0 / 0	0 / 0	347 / 0
F	1455	931 / 0	205 / 0	0 / 0	0 / 0	329 / 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 = 4.33 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO	LENGTH FR-TO
A-B	0 / 42	-102.1 -102.1	0.15 (1) 10.00
B-C	-1659 / 0	-102.1 -102.1	0.62 (1) 4.33
C-D	-1659 / 0	-102.1 -102.1	0.62 (1) 4.33
D-E	0 / 42	-102.1 -102.1	0.15 (1) 10.00
H-B	-1686 / 0	0.0 0.0	0.19 (1) 6.36
F-D	-1686 / 0	0.0 0.0	0.19 (1) 6.36
H-I	0 / 0	-38.5 -38.5	0.71 (1) 10.00
I-J	0 / 0	-38.5 -38.5	0.71 (1) 10.00
J-G	0 / 0	-38.5 -38.5	0.71 (1) 10.00
G-K	0 / 0	-38.5 -38.5	0.71 (1) 10.00
K-L	0 / 0	-38.5 -38.5	0.71 (1) 10.00
L-F	0 / 0	-38.5 -38.5	0.71 (1) 10.00

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
I	1-10-1	-608	-608	---	FRONT	VERT	TOTAL	---	---
J	3-10-1	-608	-608	---	FRONT	VERT	TOTAL	---	---
K	5-10-1	-608	-608	---	FRONT	VERT	TOTAL	---	---
L	7-10-1	-608	-608	---	FRONT	VERT	TOTAL	---	---

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 28.0 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.5 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 BCBC 2018, OBC 2012
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.34")
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
ALLOWABLE DEFL.(TL) = L/360 (0.34")
CALCULATED VERT. DEFL.(TL) = L/999 (0.09")

CSI: TC=0.62/1.00 (C-D:1), SC=0.71/1.00 (G-H:1),
WB=0.38/1.00 (C-G:1), SS=0.72/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

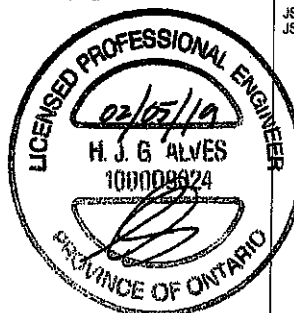
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 788 1987 1655

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.84 (D) (INPUT = 0.90)
JSI METAL= 0.35 (C) (INPUT = 1.00)



DRWG NO. TAM 71902654
STRUCTURAL
COMPONENT ONLY

RECEIVED
JUN 13 2019
TOWN OF CALEDON
BUILDING SECTION
FILE NO.

DRWG NO.

TRUSS DESC

Version B.230 \$ Nov 17 2018 MiTek Industries, Inc. Tue Feb 5 20:42:11 2019 Page 1



TOTAL WEIGHT = 8 X 56 = 339 lb

DRY: SEASONED LUMBER

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

UNFACTORED REACTIONS

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

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)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	29.0	PSF
	DL =	8.0	PSF
BOT CH.	LL =	10.5	PSF
	DL =	7.0	PSF
TOTAL LOAD	=	52.5	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 BCBC 2018, OBC 2012
- CSA 086-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.41")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.41")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.07")

CS: TC=0.15/1.00 (B-C:1), EC=0.38/1.00 (I-J:2),
WB=0.29/1.00 (C-J:1), SSI=0.16/1.00 (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)		(PL)		(PL)
	MAX	MIN	MAX	MIN	MAX MIN
MT20	618	354	1667	798	1987 1658

PLATE PLACEMENT TOL = 0.250 inches

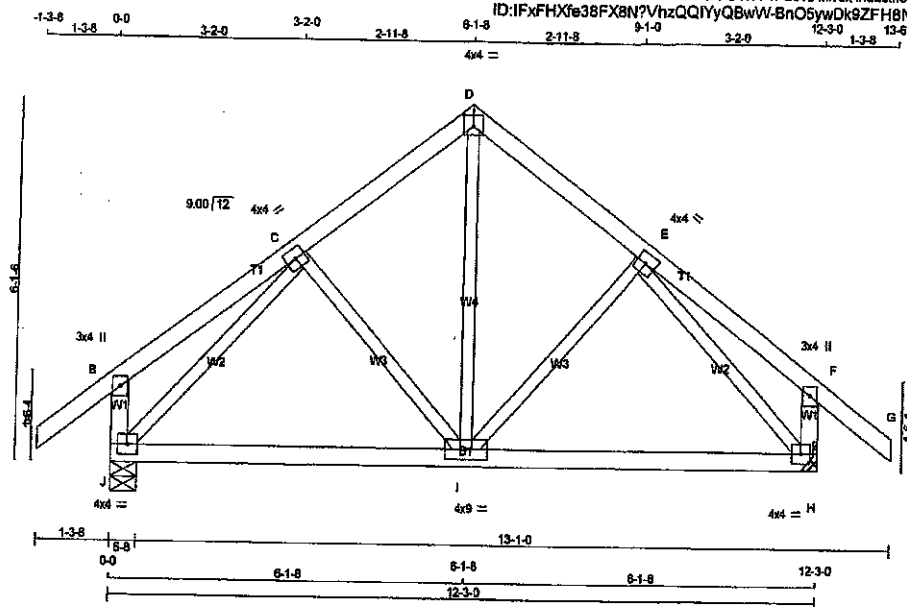
PLATE ROTATION TOL. ≈ 5.0 Deg.

JSI GRIP= 0.89 (E) (INPUT = 0.90)
JSI METAL= 0.31 (C) (INPUT = 1.00)



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
200168-400364	T10-Cond2	6	1	Preston 1	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.230 S Nov 17 2018 MITek Industries, Inc. Tue Feb 5 20:42:11 2019 Page 1
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LUMBER

N. L. G. A. RULES

CHORDS SIZE

A - D 2x4 DRY No.2

D - G 2x4 DRY No.2

J - B 2x4 DRY No.2

H - F 2x4 DRY No.2

J - H 2x4 DRY No.2

ALL WEBS 2x3 DRY No.2

EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TMVW-1	MT20	4.0	4.0		
D	TTW-p	MT20	4.0	4.0	2.25	2.00
E	TMVW-1	MT20	4.0	4.0		
F	TMV+p	MT20	3.0	4.0		
H	BMVW-1	MT20	4.0	4.0		
I	BMVW-1	MT20	4.0	4.0		
J	BMVW-1	MT20	4.0	4.0		

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

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REORD BRG
JT	VERT	HORZ	DOWN	HORZ
J	1002	0	1002	0
H	1002	0	1002	0

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT H. MINIMUM BEARING LENGTH AT JOINT H = 3-8.

UNFACTORED REACTIONS

JT	1ST CASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
J	740	436 / 0	129 / 0	0 / 0	0 / 0	176 / 0	0 / 0
H	740	436 / 0	129 / 0	0 / 0	0 / 0	176 / 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 = 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)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED L1 C1 MAX. (LC)	MAX. UNBRACED LENGTH	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX. C1 (LC)
FR-TO			FROM	TO		FR-TO			
A-B	0 / 42	-102.1	-102.1	0.14 (1)	10.00	I-D	0 / 481	0.11 (1)	
B-C	0 / 21	-102.1	-102.1	0.15 (1)	10.00	I-E	-127 / 29	0.04 (1)	
C-D	-827 / 0	-102.1	-102.1	0.11 (1)	8.25	C-I	-127 / 29	0.04 (1)	
D-E	-827 / 0	-102.1	-102.1	0.11 (1)	8.25	J-C	-864 / 0	0.28 (1)	
E-F	0 / 21	-102.1	-102.1	0.15 (1)	10.00	E-H	-864 / 0	0.28 (1)	
F-G	0 / 42	-102.1	-102.1	0.14 (1)	10.00				
J-B	-282 / 0	0.0	0.0	0.03 (1)	7.81				
H-F	-282 / 0	0.0	0.0	0.03 (1)	7.81				
J-I	0 / 589	-38.5	-38.5	0.38 (2)	10.00				
I-H	0 / 589	-38.5	-38.5	0.38 (2)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 29.0 PSF

DL = 6.0 PSF

BOT CH. LL = 10.5 PSF

DL = 7.0 PSF

TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN. OC

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, OBC 2012

- CSA 086-08, CSA 088-14

- TPIC 2011, TPIC 2014

(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.41")

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

ALLOWABLE DEFL. (TL) = L/360 (0.41")

CALCULATED VERT. DEFL. (TL) = L/999 (0.07")

CSI: TC=0.15/1.00 (B-C:1), BC=0.38/1.00 (I-J:2), WB=0.29/1.00 (C-J:1), SS=0.16/1.00 (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.

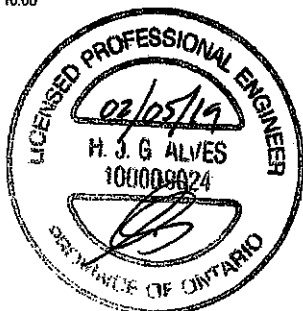
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

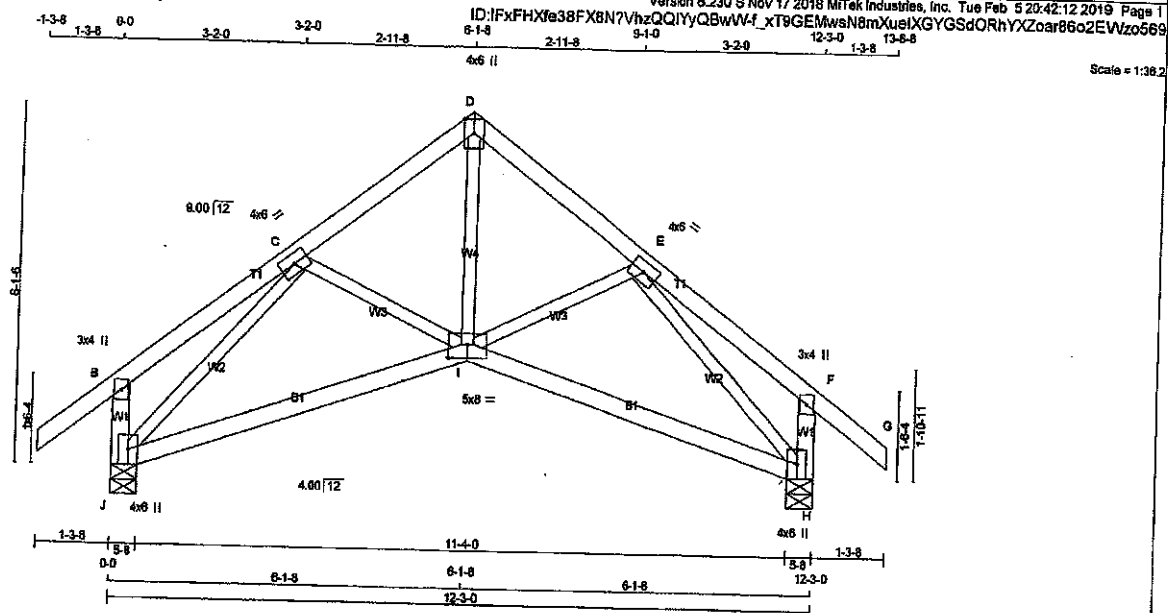
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (E) (INPUT = 0.90)
JSI METAL= 0.31 (C) (INPUT = 1.00)



DRWG NO. TAM 1902657
STRUCTURAL
COMPONENT ONLY

JOB NAME 200168-400364 Tamarack Roof Truss, Burlington	TRUSS NAME T10S	QUANTITY 2	PLY 1	JOB DESC. Preston 1	TRUSS DESC.	DRWG NO.
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LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - G	2x4	DRY	No.2
J - H	2x4	DRY	No.2
H - F	2x4	DRY	No.2
F - I	2x4	DRY	No.2
I - H	2x4	DRY	No.2

ALL WEBS 2x3 DRY No.2

EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMW+p	MT20	3.0	4.0		
C	TMW+t	MT20	4.0	6.0		
D	TTW+p	MT20	4.0	6.0	Edge	
E	TMW+t	MT20	4.0	6.0		
F	TMW+p	MT20	3.0	4.0		
H	BVMW1+p	MT20	5.0	8.0	2.75	4.00
J	BVMW1+p	MT20	4.0	6.0		

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
J	1002	0	1002	0	5-8	5-8
H	1002	0	1002	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE		MAX/MIN COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERMLIVE			
J	740	436 / 0	129 / 0	0 / 0	0 / 0	176 / 0	0 / 0
H	740	436 / 0	129 / 0	0 / 0	0 / 0	176 / 0	0 / 0

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

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)

MEMB.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)
FR-TO				
A-B	0 / 42	-102.1	0 / 767	0.17 (1)
B-C	0 / 19	-102.1	0 / 19	0.01 (3)
C-D	-868 / 0	-102.1	-52 / 55	0.01 (3)
D-E	-868 / 0	-102.1	-1124 / 0	0.40 (1)
E-F	0 / 19	-102.1	-1124 / 0	0.40 (1)
F-G	0 / 42	-102.1		
J-H	-288 / 0	0.0		
H-F	-288 / 0	0.0		
J-I	0 / 764	-38.5		
I-H	0 / 764	-38.5		

TOTAL WEIGHT = 2 X 54 = 108 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 28.0 PSF

DL = 8.0 PSF

BOT CH. LL = 10.5 PSF

DL = 7.0 PSF

TOTAL LOAD = 52.5 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 BCBC 2018, CBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.41")

CALCULATED VERT. DEFL. (LL) = L/999 (0.10")

ALLOWABLE DEFL. (TL) = L/360 (0.41")

CALCULATED VERT. DEFL. (TL) = L/846 (0.17")

CSI: TC=0.14/1.00 (A-B:1), BC=0.41/1.00 (I-J:2), WB=0.40/1.00 (C-J:1), SSI=0.12/1.00 (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 (PSI)	SECTION (PLI)
MT20	618	354	1867

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP=0.67 (J) (INPUT = 0.90)

JSI METAL=0.27 (C) (INPUT = 1.00)



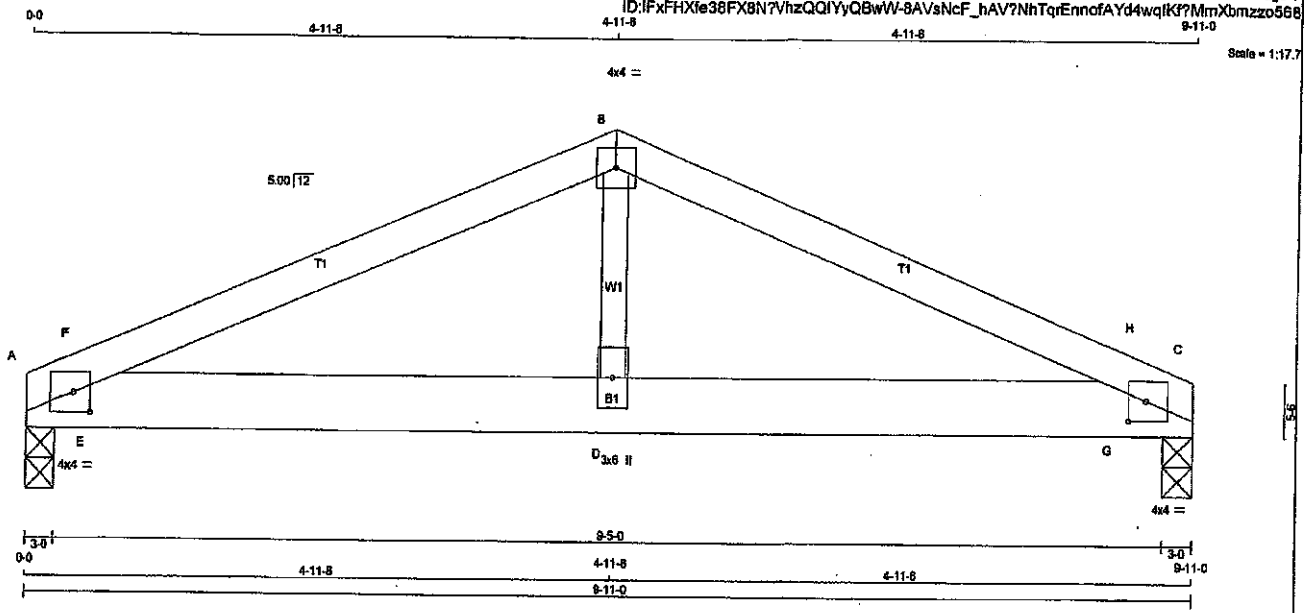
APPROVED

JUN 13 2019

TOWN OF CALEDON
BUILDING SECTION
FILE NO.

DWG NO. TAM 71902658
STRUCTURAL
COMPONENT ONLY

JOB NAME 200168-400364	TRUSS NAME T11	QUANTITY 2	PLY 1	JOB DESC. Preston 1	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.230 8 Nov 17 2018 Mitek Industries, Inc. Tue Feb 5 20:42:13 2019 Page 1	
ID: IFxHXHie38FX8N7VhzQQIYyQBwW-8AVsNcF_hAV?NhTqrEnnofAYd4wqIK?MmXbmzxo568				9-11-0	



TOTAL WEIGHT = 2 X 32 = 63 lb
[MIF]

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - B	2x4	DRY No.2	SPF
B - C	2x4	DRY No.2	SPF
A - C	2x6	DRY No.2	SPF

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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMB1-H	MT20	4.0	4.0	2.00	1.75
B	TTW-p	MT20	4.0	4.0		
C	TMB1-H	MT20	4.0	4.0	2.00	1.75
D	BMW-w	MT20	3.0	6.0		

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
A	697	0	697	0	3-0	3-0
C	697	0	697	0	3-0	3-0

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX/MIN COMPONENT REACTIONS					
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
A	521	288 / 0	104 / 0	0 / 0	0 / 0	129 / 0	0 / 0
C	521	288 / 0	104 / 0	0 / 0	0 / 0	129 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.99 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED MAX CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-F	-897 / 0	-102.1 -102.1	0.17 (1)	6.25	D-B	0 / 385	0.09 (2)
F-B	-899 / 0	-102.1 -102.1	0.24 (1)	5.99	E-F	-452 / 0	0.00 (1)
B-H	-899 / 0	-102.1 -102.1	0.24 (1)	5.99	G-H	-452 / 0	0.00 (1)
H-C	-897 / 0	-102.1 -102.1	0.17 (1)	6.25			
A-E	0 / 901	-38.5 -38.5	0.28 (1)	10.00			
E-D	0 / 901	-38.5 -38.5	0.28 (1)	10.00			
D-G	0 / 901	-38.5 -38.5	0.28 (1)	10.00			
G-C	0 / 901	-38.5 -38.5	0.28 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN./C/C
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010, NBC 2015

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

(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.33")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.33")
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.24/1.00 (B-F:1), BC=0.28/1.00 (A-E:1), WB=0.09/1.00 (B-D:2), SS=0.27/1.00 (A-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.

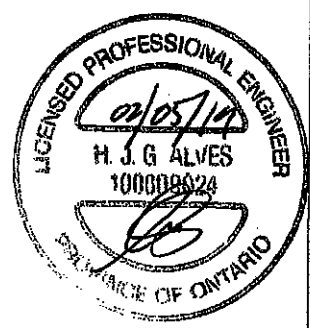
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.45 (A) (INPUT = 0.80)
JSI METAL= 0.40 (C) (INPUT = 1.00)



DWG NO. TAM 71902659
STRUCTURAL
COMPONENT ONLY

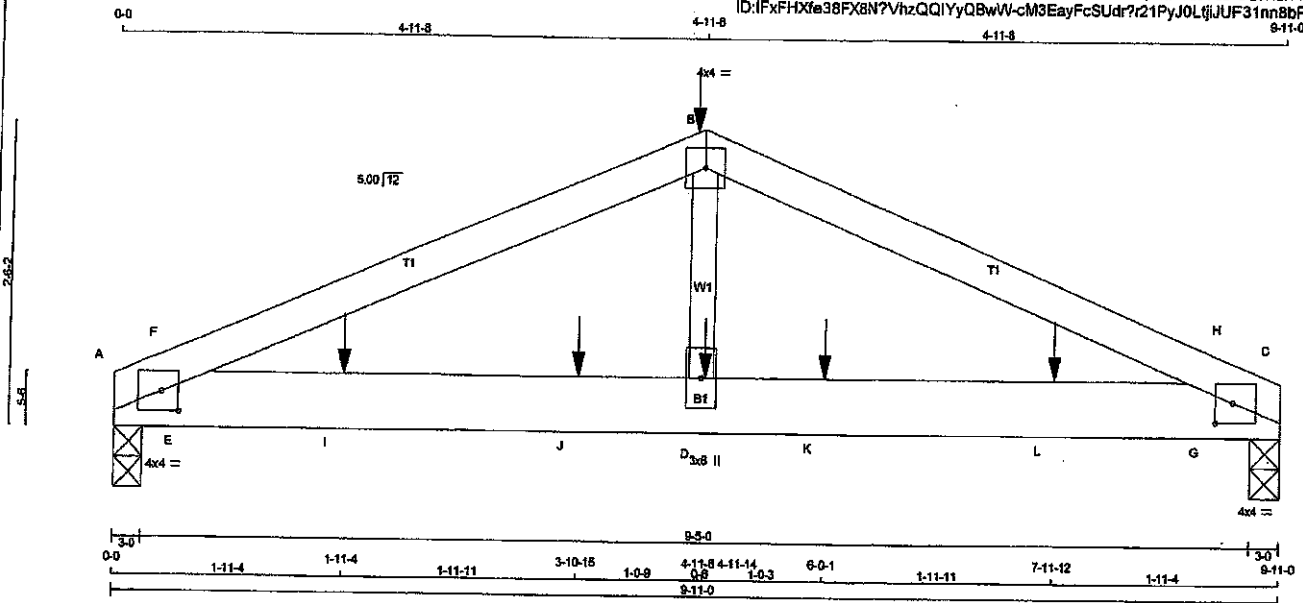
JOB NAME 200168-400364	TRUSS NAME T11Z	QUANTITY 1	PLY 1	JOB DESC. Preston 1	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MITek Industries, Inc. Tue Feb 5 20:42:14 2019 Page 1

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Scale = 1:17.7



LUMBER

N. L. G. A. RULES

CHORDS SIZE

A - B 2x4 DRY No.2

B - C 2x4 DRY No.2

A - C 2x6 DRY No.2

ALL WEBS 2x3 DRY No.2

DRY: SEASONED LUMBER.

LUMBER

DESCR.

SPF

SPF

SPF

SPF

PLATES (table is in inches)

JT TYPE PLATES

A TMB1-I MT20

B TTW-p MT20

C TMB1-I MT20

D BMW+w MT20

W LEN Y X

4.0 4.0 2.00 1.75

4.0 4.0 2.00 1.75

4.0 4.0 2.00 1.75

3.0 6.0

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
A	857	0	857	0	3-0	3-0
C	857	0	857	0	3-0	3-0

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		PERM LIVE	WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM LIVE				
A	631	379 / 0	108 / 0	0 / 0	0 / 0	144 / 0	0 / 0	0 / 0
C	631	379 / 0	108 / 0	0 / 0	0 / 0	144 / 0	0 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.16 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		FACTORED		WEBS		FACTORED	
	MAX.	FACTORED	VERT. LOAD	LC1 MAX	MAX.	MEMB.	MAX.	FACTORED
	(LBS)	(LBS)	(PLF)	CSI (LC)	UNBRAC		(LBS)	MAX
FR-TO			FROM TO		LENGTH	FR-TO		
A-F	-1294 / 0		-102.1 -102.1	0.24 (1)	5.34	D-B	0 / 363	0.09 (2)
F-B	-1370 / 0		-102.1 -102.1	0.31 (1)	5.16	E-F	-415 / 0	0.00 (1)
B-H	-1370 / 0		-102.1 -102.1	0.31 (1)	5.16	G-H	-415 / 0	0.00 (1)
H-C	-1294 / 0		-102.1 -102.1	0.24 (1)	5.34			
A-E	0 / 1253	-38.5	-38.5	0.35 (1)	10.00			
E-I	0 / 1253	-38.5	-38.5	0.35 (1)	10.00			
I-J	0 / 1253	-38.5	-38.5	0.35 (1)	10.00			
J-D	0 / 1253	-38.5	-38.5	0.35 (1)	10.00			
D-K	0 / 1253	-38.5	-38.5	0.35 (1)	10.00			
K-L	0 / 1253	-38.5	-38.5	0.35 (1)	10.00			
L-G	0 / 1253	-38.5	-38.5	0.35 (1)	10.00			
G-C	0 / 1253	-38.5	-38.5	0.35 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
B	4-11-8	-25	-28		FRONT	VERT	DEAD		
B	4-11-8	-7	-7		FRONT	VERT	TOTAL		
B	4-11-8	-273	-273		FRONT	VERT	SNOW		
D	4-11-14	-3	-4		FRONT	VERT	TOTAL		
I	1-11-4	-3	-4		FRONT	VERT	TOTAL		
J	3-10-15	-3	-4		FRONT	VERT	TOTAL		
K	6-0-1	-3	-4		FRONT	VERT	TOTAL		
L	7-11-12	-3	-4		FRONT	VERT	TOTAL		

DESIGN CRITERIA

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

SPECIFIED LOADS:

TOP CH. LL = 29.0 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN. C/C

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

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

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

(55 % OF 37.8 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.33")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.33")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.31/1.00 (B-H-1), SC=0.35/1.00 (D-G-1),
WB=0.09/1.00 (B-D-2), SS=0.29/1.00 (C-G-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

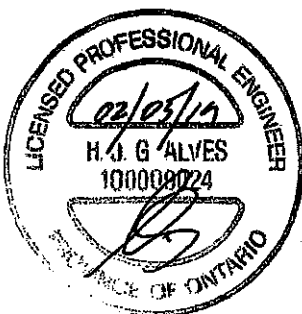
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.59 (A) (INPUT = 0.90)
JSI METAL= 0.54 (C) (INPUT = 1.00)

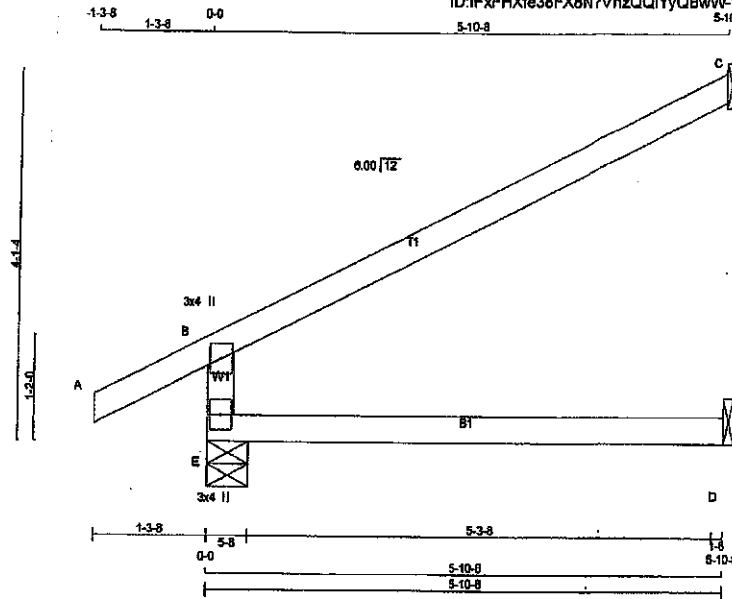
DRWG NO. TAM 1790 2660
STRUCTURAL
COMPONENT ONLY



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
200168-400364	J1-Cond1	22	1	Preston 1	

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Tue Feb 5 20:41:59 2019 Page 1
ID:IFxHFXf38FX8N?VhzQQIYyQBwW-YUfZQq4C_k_iXP81IXVeib3VR9b00Yx8a8sHnzo56M



Scale = 1/2" = 1'-0"

TOTAL WEIGHT = 22 X 17 = 369 lb

LUMBER

N. L. G. A. RULES

CHORDS SIZE

E - B 2x4 DRY No.2

A - C 2x4 DRY No.2

E - D 2x4 DRY No.2

LUMBER

No.2

No.2

No.2

DESCR.

SPF

SPF

SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
E	BMV1+p	MT20	3.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	RECORD BRG
	VERT	HORZ	DOWN	HORZ		
E	846	0	846	0	5-8	5-8
C	225	0	225	0	1-8	1-8
D	93	0	119	0	1-8	1-8

SEE MITEK STANDARD DETAIL B37821H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	473	292 / 0	72 / 0	0 / 0	0 / 0	109 / 0	0 / 0
C	154	128 / 0	0 / 0	0 / 0	0 / 0	26 / 0	0 / 0
D	85	0 / 0	51 / 0	0 / 0	0 / 0	34 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1		MAX. CS1 (LC)	MAX. UNBRAC LENGTH FR-TO	WEBS MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)
		FROM	TO				
FR-TO							
E-B	-513 / 0	0.0	0.0	0.22 (3)	7.81		
A-B	0 / 31	-102.1	-102.1	0.13 (1)	10.00		
B-C	-34 / 0	-102.1	-102.1	0.60 (1)	6.25		
E-D	0 / 0	-38.5	-38.5	0.22 (3)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 28.0 PSF
	DL = 8.0 PSF
BOT CH.	LL = 10.5 PSF
	DL = 7.0 PSF
TOTAL LOAD	= 52.5 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 BCBC 2018, OBC 2012
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/888 (0.04")
ALLOWABLE DEFL.(TL) = L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/942 (0.07")

CSI: TC=0.80/1.00 (B-C-1), BC=0.22/1.00 (D-E-3),
WB=0.00/1.00 (n/a:0), SSI=0.26/1.00 (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 RIGHT HEEL ONLY

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(FSI)	(PL)	(PL)	(PL)
MT20	618	354	1667

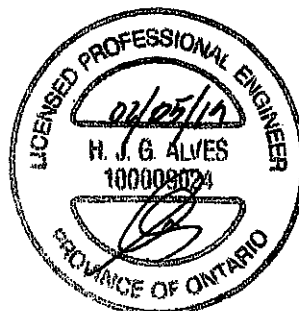
PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.21 (E) (INPUT = 0.80)
JSI METAL= 0.14 (B) (INPUT = 1.00)

DWG NO. TAM 79902661
STRUCTURAL
COMPONENT ONLY

RECEIVED
JUN 13 2019
TOWN OF BUILDING
FILE NO
CALEDON SECTION

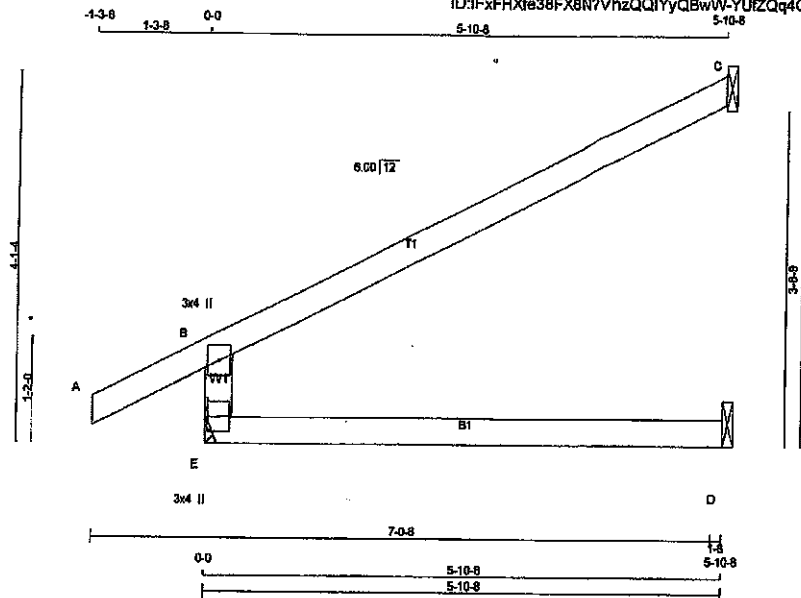


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
200168-400364	J1-Cond2	22	1	Preston 1	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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ID:IFxHXfe38FX8N7VhzQQIYyQBwW-YUfZQq4C_k_XP81IXVEib5hR9b00Yx8a8sHnzo56M

Scale = 1:23.6



TOTAL WEIGHT = 22 X 17 = 369 lb

LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
E	BMV1+p	MT20	3.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
E	846	0	846	0	MECHANICAL	
C	225	0	225	0	1-8	1-8
D	93	0	119	0	1-8	1-8

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT E. MINIMUM BEARING LENGTH AT JOINT E = 1-8.

SEE MITEK STANDARD DETAIL 837821H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	473	292/0	72/0	0/0	0/0	109/0	0/0
C	154	128/0	0/0	0/0	0/0	26/0	0/0
D	85	0/0	51/0	0/0	0/0	34/0	0/0

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (LBS)	LC1 (PLF)	LC2 MAX (LBS)	MAX. UNBRAC LENGTH	MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (LBS)	LC2 MAX (LBS)
FR-TO			FROM			FR-TO			
E-B	-513/0	0.0	0.0	0.18 (3)	7.81				
A-B	0/31	-102.1	-102.1	0.13 (1)	10.00				
B-C	-34/0	-102.1	-102.1	0.48 (1)	6.25				
E-D	0/0	-38.5	-38.5	0.22 (3)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.5 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 BCBC 2018, OBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.20")
CALCULATED VERT. DEFL. (LL) = L/999 (0.04")
ALLOWABLE DEFL. (TL) = L/360 (0.20")
CALCULATED VERT. DEFL. (TL) = L/942 (0.07")

CSI: TC=0.48/1.00 (B-C-1), BC=0.22/1.00 (D-E-3).
WB=0.00/1.00 (A-B-2), SS=0.26/1.00 (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 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	1687

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.21 (E) (INPUT = 0.93)
JSI METAL= 0.14 (B) (INPUT = 1.00)

DWG NO. TAM 77902662
STRUCTURAL
COMPONENT ONLY

RECEIVED
JUN 13 2019
TOWN OF CALEDON
BUILDING SECTION
FILE NO.

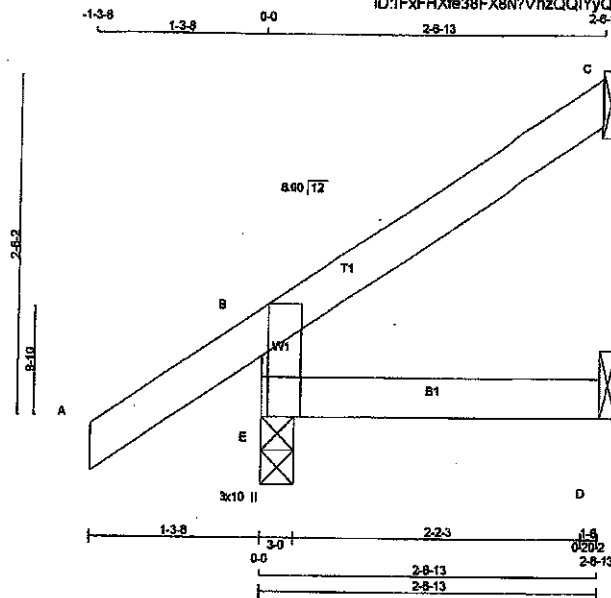


JOB NAME 200168-400364	TRUSS NAME J3	QUANTITY 5	PLY 1	JOB DESC. Preston 1	DRWG NO.
Temerack Roof Truss, Burlington				TRUSS DESC.	

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Tue Feb 5 20:41:50 2019 Page 1

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Scale = 1:15.6



LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
E	TMBMV1+p	MT20	3.0	10.0	Edge 0.50

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
E	361	0	361	0	3-0	3-0
C	98	0	98	0	1-8	1-8
D	42	0	53	0	1-8	1-8

SEE MITEK STANDARD DETAIL B37821H FOR CONNECTION TO JOINT(S) E, C

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	261	173/0	31/0	0/0	0/0	57/0	0/0
C	68	56/0	0/0	0/0	0/0	12/0	0/0
D	36	0/0	23/0	0/0	0/0	15/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS				WEBB				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1	MAX. CS1 (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)
FR-TO		FROM	TO		FR-TO			
E-B	-304/0	0.0	0.0	0.04 (3)	7.81			
A-B	0/39	-102.1	-102.1	0.14 (1)	10.00			
B-C	-18/0	-102.1	-102.1	0.11 (1)	6.25			
E-D	0/0	-38.5	-38.5	0.04 (3)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 5 X 9 = 44 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	28.0	PSF
	DL	=	8.0	PSF
BOT CH.	LL	=	10.5	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	52.5	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 BCBC 2018, OBC 2012
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CS1: TC=0.14/1.00 (A-B:1), BC=0.04/1.00 (D-E:3), WB=0.00/1.00 (n/a:0), 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.

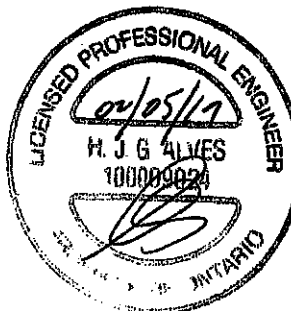
NAIL VALUES

PLATE GRIP (DRY)	SHEAR (PSI)	SECTION (PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1887 788

PLATE PLACEMENT TOL. = 0.250 inches

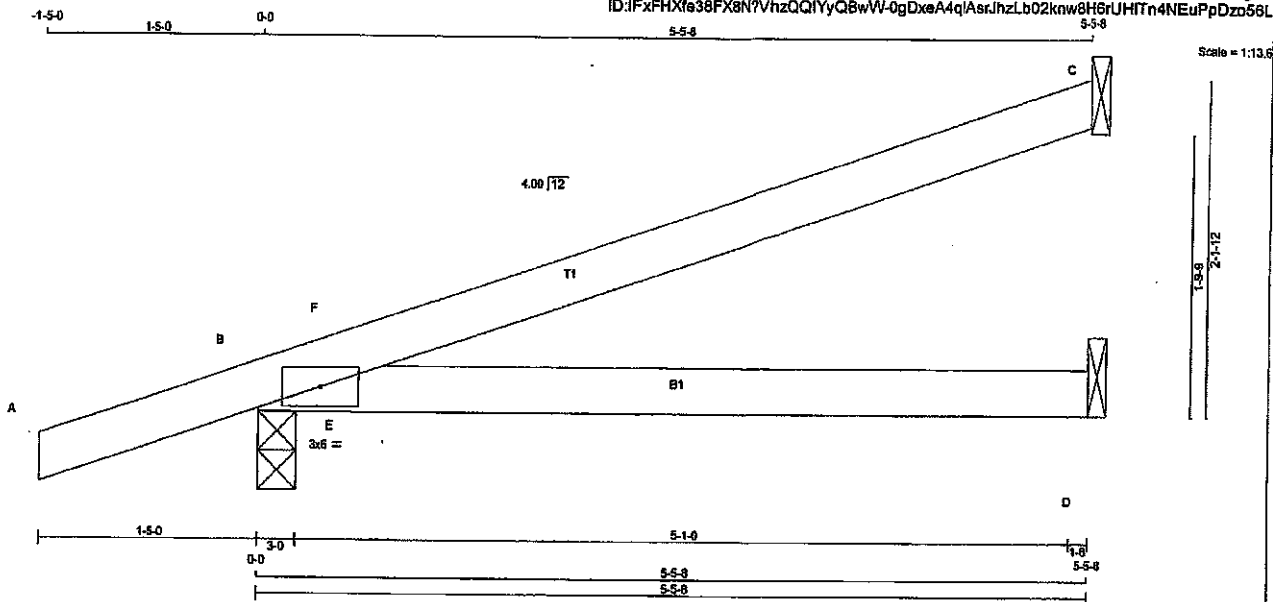
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.08 (E) (INPUT = 0.90)
JSI METAL= 0.10 (E) (INPUT = 1.00)



DWG NO. TAM 17902663
STRUCTURAL
COMPONENT ONLY

JOB NAME 200168-400364	TRUSS NAME J4	QUANTITY 2	PLY 1	JOB DESC. Preston 1	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	Version 6.290 5 Nov 17 2018 Mitek Industries, Inc. Tue Feb 5 20:42:00 2019 Page 1 ID:IFxHFXfe38FX9N7VhzQQIYyQBwVW-0gDxeA4qIAsrJhzLb02knw8H6rUHtN4NEuPpDzo56L



LUMBER

N.L.G.A. RULES

CHORDS SIZE

A - C 2x4 DRY

B - D 2x4 DRY

DRY: SEASONED LUMBER.

LUMBER

No.2

DESCR.

SPF

SPF

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-1	MT20	3.0	6.0		

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
C	250	0	250	0	1-8	1-8
B	533	0	533	0	3-0	3-0
D	133	0	145	0	1-8	1-8

SEE MITEK STANDARD DETAIL B37821H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST CASE COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERMLIVE	WIND	DEAD	SOIL
C	175	133/0	9/0	0/0	0/0	33/0	0/0
B	389	243/0	57/0	0/0	0/0	83/0	0/0
D	111	25/0	49/0	0/0	0/0	38/0	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 = 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. CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO			FR-TO		
A-B	0/22	-102.1	-102.1	0.15 (1)	10.00		
B-F	-51/0	-102.1	-102.1	0.13 (3)	6.25		
F-C	0/6	-102.1	-102.1	0.42 (1)	10.00	-254 / 122	0.00 (1)
B-E	0/0	-38.5	-38.5	0.26 (1)	10.00		
E-D	0/0	-38.5	-38.5	0.31 (1)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 29.0 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL DL = 52.5 PSF

SPACING = 24.0 IN/C

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.19")
CALCULATED VERT. DEFL. (LL) = L/842 (0.08")
ALLOWABLE DEFL. (TL) = L/360 (0.19")
CALCULATED VERT. DEFL. (TL) = L/489 (0.13")

CSI: TC=0.42/1.00 (C-F:1), BC=0.31/1.00 (D-E:1), WB=0.00/1.00 (E-F:1), SSI=0.26/1.00 (B-E: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.

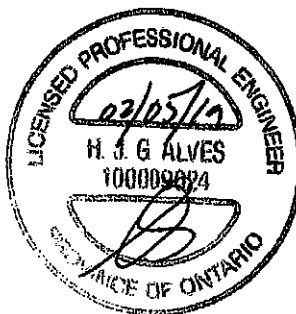
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.21 (B) (INPUT = 0.90)
JSI METAL= 0.06 (B) (INPUT = 1.00)



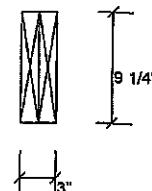
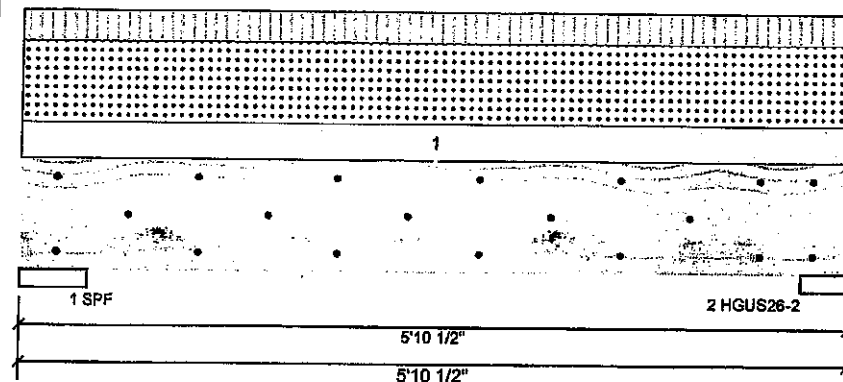
JUN 13 2019

**TOWN OF CALEDON
BUILDING SECTION
FILE NO.**

**DWG NO. TAM 17902664
STRUCTURAL
COMPONENT ONLY**

**isDesign™**Client: Greenpark Homes
Project: Preston 1
Address: CaledonDate: 2019-02-05
Designer: Brian
Job Name: Lamberts Lane Homes Corp.
Project #: 200168**B1 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED**

Level: Level

**Member Information**

Type:	Girder	Application:	Floor (Residential)
Piles:	2	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015 / OBC 2012
Deflection LL:	360	Load Sharing:	No
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal	Vibration:	Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind
1	231	273	609	0
2	221	262	584	0

Bearings and Factored Reactions

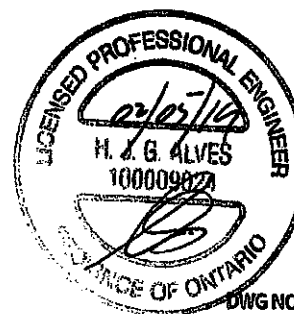
Bearing	Length	Cap. React D/L lb	Total Ld. Case	Ld. Comb.
1 - SPF	5.500"	15%	341 / 1145	1486 L 1.25D+1.5S +L
2 - HGUS...	4.000"	19%	327 / 1097	1424 L 1.25D+1.5S +L

Analysis Results

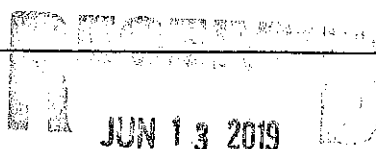
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1679 ft-lb	3'	6039 ft-lb	0.278 (28%)	1.25D+1.5S +L	L
Unbraced	1679 ft-lb	3'	5236 ft-lb	0.321 (32%)	1.25D+1.5S +L	L
Shear	1290 lb	12"	3984 lb	0.324 (32%)	1.25D+1.5S +L	L
Perm Defl in. (L/11306)	0.006	3'	0.174 (L/360)	0.030 (3%)	D	Uniform
LL Defl inch	0.015 (L/4260)	3'	0.174 (L/360)	0.080 (8%)	S+0.5L	L
TL Defl inch	0.020 (L/3094)	3'	0.174 (L/360)	0.120 (12%)	D+S+0.5L	L

Design Notes

- 1 Fasten all plies using 3 rows of Pneumatic Gun Nail (.120x3.25") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.
- 6 Lateral slenderness ratio based on single ply width.

DWG NO. TAM 71902665
STRUCTURAL
COMPONENT ONLY 1/2

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Uniform		7-0-0	Near Face	13 PSF	11 PSF	29 PSF	0 PSF	

TOWN OF CALEDON
BUILDING SECTION
FILE NO.

This design is valid until 2021-12-11

Manufacturer InfoTAMARACK LUMBER
3255 NORTH SERVICE RD, ON
CANADA
(905) 335-1115



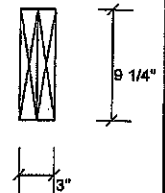
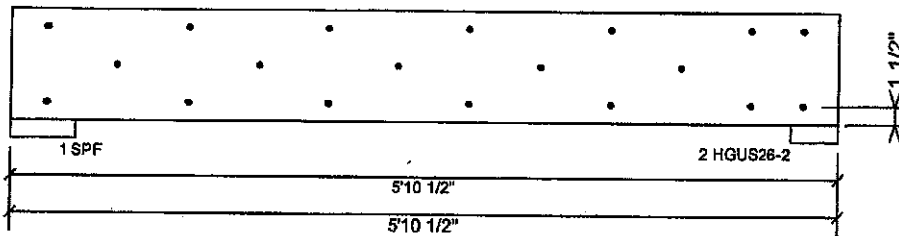
isDesign™

Client: Greenpark Homes
Project: Preston 1
Address: Caledon

Date: 2019-02-05
Designer: Brian
Job Name: Lamberts Lane Homes Corp.
Project #: 200168

B1 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED

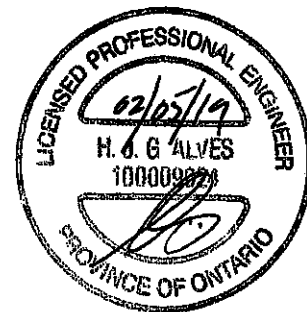
Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of Pneumatic Gun Nail (.120x3.25") at 12" o.c.. Maximum end distance not to exceed 6"

Capacity	72.8 %
Load	247.6 PLF
Yield Limit per Foot	340.0 PLF
Yield Limit per Fastener	113.3 lb.
Yield Mode	9
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	1.25D+1.5S+L
Duration Factor	1.00



DWG NO: TAM 1902665
STRUCTURAL
COMPONENT ONLY 2/2

Manufacturer Info	TAMARACK LUMBER 3255 NORTH SERVICE RD, ON CANADA (905) 335-1115
	TAMARACK LUMBER INC ALPHA LUMBER GROUP

This design is valid until 2021-12-11



LUL/LUS/LJS/HUS/HHUS/HGUS

SIMPSON
Strong-Tie

Standard and Double-Shear Joist Hangers



This product is preferable to similar connectors because of
a) easier installation, b) higher capacities, c) lower installed
cost, or a combination of these features.

Most hangers in this series have double-shear nailing — an innovation that distributes the load through two points on each joist nail for greater strength. This allows for fewer nails, faster installation, and the use of all common nails for the same connection. (Do not bend or remove tabs)

Double-shear hangers range from the light capacity LUS hangers to the highest capacity HGUS hangers. For medium load truss applications, the HUS offers a lower cost alternative and easier installation than the HGUS hangers, while providing greater load capacity and bearing than the LUS.

Material: See table on pp. 258-259.

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

Installation:

- Use all specified fasteners; see General Notes.
- Nails must be driven at an angle through the joist or truss into the header to achieve the tabulated resistances (except LUL).
- Where 16d commons are specified, 10d commons may be used at 0.83 of the tabulated factored resistance.
- Not designed for welded or nailer applications.
- With single ply 2x carrying members, use 10d x 1 1/2" nails into the header and 10d commons into the joist, and reduce the resistance to 0.64 of the table value where 16d nails are specified and 0.77 where 10d nails are specified.

Options:

- LUS, LJS, LUL and HUS hangers cannot be modified.
- Other sizes available; consult your Simpson Strong-Tie representative.
- See Hanger Options Information on p. 126.



Double-Shear
Nailing
Top View



Double-Shear
Nailing
Side View;
Do not
bend tab



Double-Shear
Nailing Side View
(available on
some models)
U.S. Patent 5,803,680



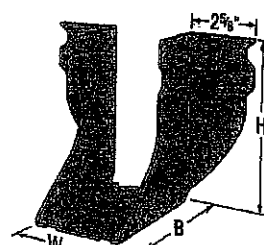
✓ LUS28



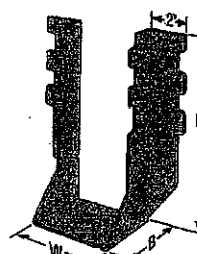
LU26L



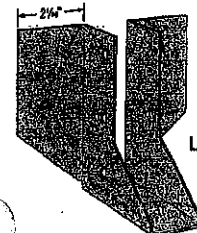
✓ HUS210
(HUS26, HUS28,
and HHUS similar)



✓ HGUS28-2

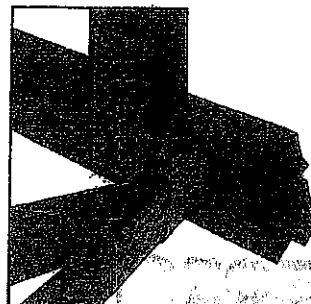


✓ HHUS210-2



LJS26DS

Typical HUS26
Installation
with Reduced
Heel Height
(Truss Designer
to provide
fastener quantity
for connecting
multiple members
together)



Plated Truss Connectors

JUN 13 2019

LUL/LUS/LJS/HUS/HHUS/HGUS**HHUS/HGUS**

See Hanger Options information on pp. 125–127.

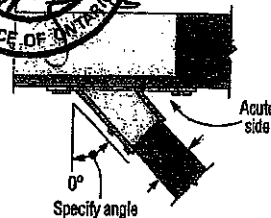
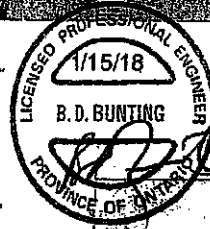
HHUS — Sloped and/or Skewed Seat

- 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 46°. 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.

Plated Truss Connectors

Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance			
		W	H	B	d _o	Header	Joist	Down		S-U-F	
								lb.	lb.	lb.	lb.
								lb.	lb.	lb.	lb.
Single 2x Sizes											
LUS24	18	1 1/8	3 1/4	1 1/4	2 1/4	(4) 10d	(2) 10d	710	1625	645	1155
								360	1020	320	725
								720	1605	645	1140
LU24L	22	1 1/8	3	1 1/4	2 1/4	(4) 10d	(2) 10d x 1 1/2"	1420	2170	1290	1630
								2705	4940	2065	3875
								2055	4265	1460	4115
LUS26	18	1 1/8	4 1/4	1 1/4	3 1/4	(4) 10d	(4) 10d	2685	6625	2695	5700
								1140	2185	1020	1550
								1420	2520	1290	1790
LUS26	18	1 1/8	5 1/4	3	3 1/4	(14) 16d	(6) 16d	3605	5365	2675	4345
								3310	7675	3310	6900
								1140	2495	1020	1770
LJS26DS	18	1 1/8	5	3 1/2	4 1/4	(18) 16d	(6) 16d	1420	2785	1290	2210
								360	1140	360	1140
								1420	2785	1290	2210
HGUS26	12	1 1/8	5 1/4	5	4 1/4	(28) 16d	(8) 16d	1140	2495	1020	1770
								360	1140	360	1140
								1420	2785	1290	2210
LU28L	20	1 1/8	6 1/4	1 1/4	5 1/4	(8) 10d	(6) 10d x 1 1/2"	1140	2495	1020	1770
								360	1140	360	1140
								1420	2785	1290	2210
LUS28	18	1 1/8	6 1/4	1 1/4	3 3/4	(6) 10d	(4) 10d	1420	2785	1290	2210
								360	1140	360	1140
								1420	2785	1290	2210
HUS28	16	1 1/8	7 1/4	3	6 1/4	(22) 16d	(8) 16d	3605	5365	2675	4345
								3310	7675	3310	6900
								1140	2495	1020	1770
HGUS28	12	1 1/8	7 1/4	5	6 1/4	(36) 16d	(12) 16d	3310	7675	3310	6900
								1140	2495	1020	1770
								360	1140	360	1140
LU210L	20	1 1/8	8	1 1/4	7 1/4	(10) 10d	(6) 10d x 1 1/2"	1140	2495	1020	1770
								360	1140	360	1140
								1420	2785	1290	2210
LUS210	18	1 1/8	7 1/4	1 1/4	3 3/4	(8) 10d	(4) 10d	1420	2785	1290	2210
								360	1140	360	1140
								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. d_o 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.

**THIS STRUCTURE MUST BE
CONSTRUCTED TO MEET OR
EXCEED THE PROVISIONS OF
THE ONTARIO BUILDING CODE**

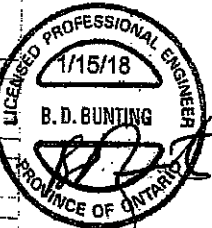
Face-Mount Hangers

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.

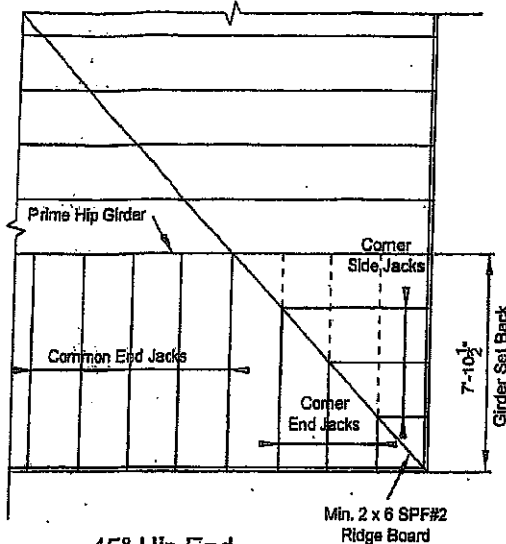
Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance			
		W	H	B	d _a	Header	Joist	S-P		S-P-F	
								Uplift	Normal	Uplift	Normal
								(K ₁ = 1.15)	(K ₂ = 1.00)		
								lb.	lb.	lb.	lb.
								kN	kN	kN	kN
Double 2x Sizes											
LUS24-2	18	3 1/2	3 1/2	2	1 1/2	(4) 16d	(2) 16d	835	2020	590	1435
SS LUS28-2	18	3 1/2	4 1/2	2	4	(4) 16d	(4) 16d	1720	2595	1545	1920
HHUS26-2	14	3 1/2	5 1/2	3	3 1/2	(14) 16d	(6) 16d	2540	7335	2065	5205
HGUS26-2	12	3 1/2	5 1/2	4	4 1/2	(20) 16d	(8) 16d	4385	8950	3110	6355
SS LUS28-2	18	3 1/2	7	2	4	(8) 16d	(4) 16d	1720	3325	1545	2575
HHUS28-2	14	3 1/2	7 1/2	3	6 1/2	(22) 16d	(8) 16d	3785	8940	2675	6345
HGUS28-2	12	3 1/2	7 1/2	4	8 1/2	(30) 16d	(12) 16d	6070	12980	4310	9215
SS LUS210-2	18	3 1/2	9	2	6	(8) 16d	(6) 16d	2580	4500	2320	3195
HHUS210-2	14	3 1/2	9 1/2	3	8	(30) 16d	(10) 16d	4670	9860	4235	7000
HGUS210-2	12	3 1/2	9 1/2	4	8 1/2	(48) 16d	(16) 16d	6840	14015	4855	10270
Triple 2x Sizes											
HGUS28-3	12	4 1/2	5 1/2	4	4 1/2	(20) 16d	(8) 16d	4385	8950	3110	6355
HGUS28-3	12	4 1/2	7 1/2	4	6 1/2	(36) 16d	(12) 16d	6070	12980	4310	9215
HHUS210-3	14	4 1/2	9	3	7 1/2	(30) 16d	(10) 16d	4670	9870	4235	6865
HGUS210-3	12	4 1/2	9 1/2	4	8 1/2	(48) 16d	(16) 16d	6840	14845	4855	10400
Quadruple 2x Sizes											
HGUS26-4	12	6 1/2	5 1/2	4	4 1/2	(20) 16d	(8) 16d	4385	8950	3110	6355
HGUS28-4	12	6 1/2	7 1/2	4	6 1/2	(36) 16d	(12) 16d	6070	12980	4310	9215
HHUS210-4	14	6 1/2	9	3	7 1/2	(30) 16d	(10) 16d	4670	10155	4235	7210
HGUS210-4	12	6 1/2	9 1/2	4	8 1/2	(48) 16d	(16) 16d	6840	14845	4855	10400
HGUS212-4	12	6 1/2	10 1/2	4	10 1/2	(56) 16d	(20) 16d	7640	14935	5425	10645
HGUS214-4	12	6 1/2	12 1/2	4	11 1/2	(66) 16d	(22) 16d	10130	16400	7195	11645
4x Sizes											
LUS46	18	3 1/2	4 1/2	2	3 1/2	(4) 16d	(4) 16d	1720	2595	1545	1920
HHUS46	14	3 1/2	5 1/2	3	3 1/2	(14) 16d	(6) 16d	2540	7335	2065	5205
HGUS46	12	3 1/2	5 1/2	4	4 1/2	(20) 16d	(8) 16d	4385	8950	3110	6355
LUS48	18	3 1/2	6 1/2	2	3 1/2	(6) 16d	(4) 16d	1720	3325	1545	2575
HHUS48	14	3 1/2	7 1/2	3	6 1/2	(22) 16d	(8) 16d	3785	8940	2675	6345
HGUS48	12	3 1/2	7 1/2	4	6 1/2	(36) 16d	(12) 16d	6070	12980	4310	9215
LUS410	18	3 1/2	8 1/2	2	5 1/2	(8) 16d	(6) 16d	2580	4500	2320	3195
HGUS410	12	3 1/2	9	4	8 1/2	(48) 16d	(16) 16d	6840	14015	4855	10270
HGUS412	12	3 1/2	10 1/2	4	10 1/2	(56) 16d	(20) 16d	7640	14995	5425	10645
HGUS414	12	3 1/2	12 1/2	4	11 1/2	(66) 16d	(22) 16d	10130	16400	7195	11645



Plated Truss Connectors

JUN 13 2019

TOWN OF CALEDON
BUILDING SECTION



45° Hip End

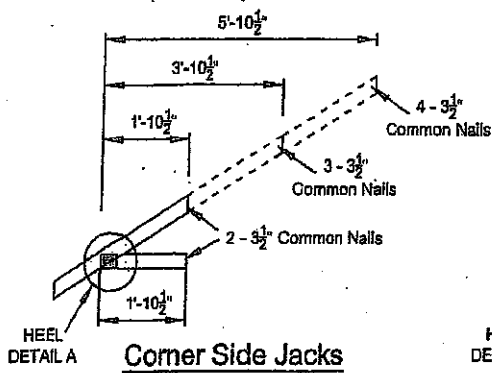
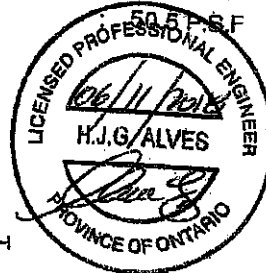
LUMBER SPECIFICATION

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

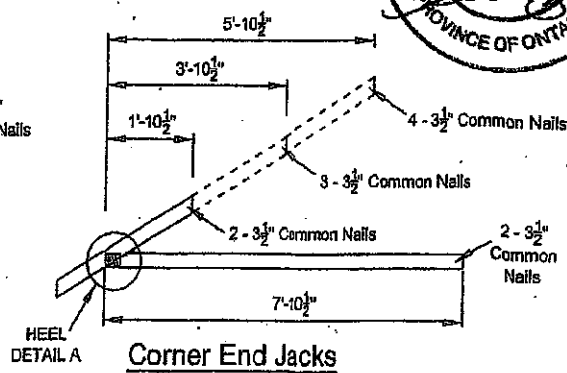
DESIGN LOAD

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.

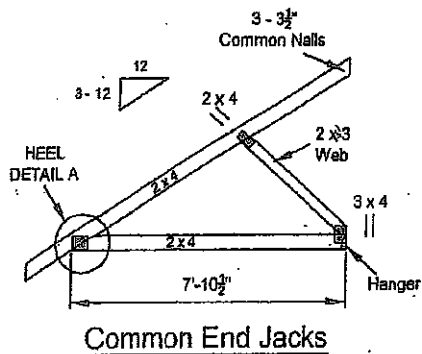
TOTAL LOAD



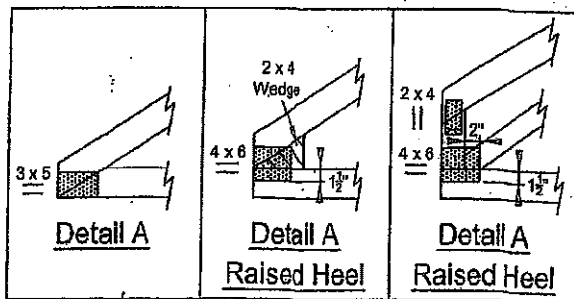
Corner Side Jacks



Corner End Jacks

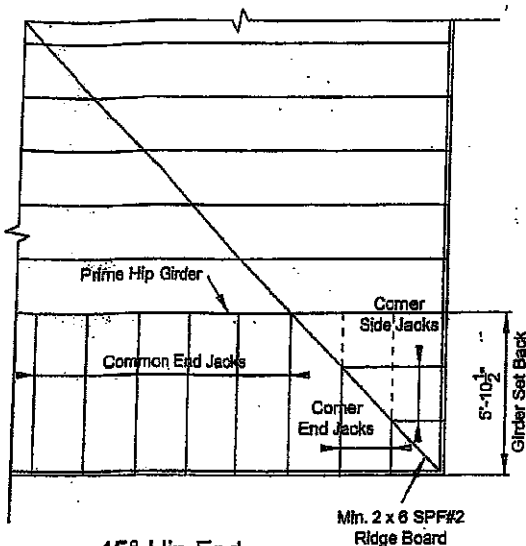


Common End Jacks



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

T-1800217



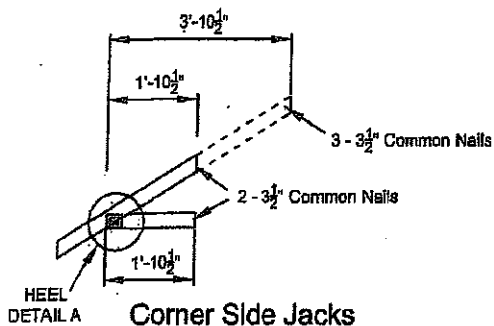
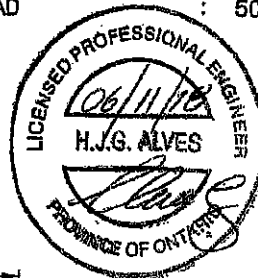
45° Hip End

LUMBER SPECIFICATION

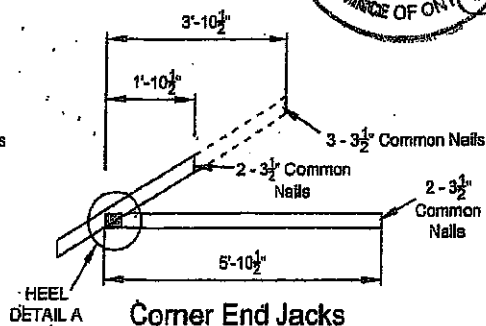
TOP CHORD : 2 x 4 SPF#2
 BOTTOM CHORD : 2 x 4 SPF#2
 WEBS : 2 x 3 SPF#2
 UNLESS OTHERWISE SHOWN

DESIGN LOAD

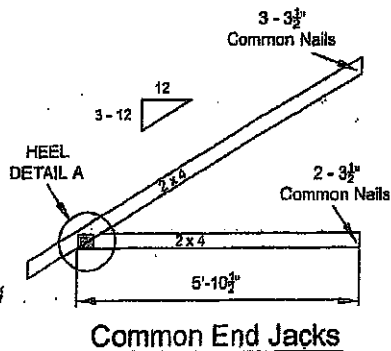
TOP CHORD SNOW LOAD : 40.5 P.S.F.
 TOP CHORD DEAD LOAD : 3.0 P.S.F.
 BOTTOM CHORD LIVE LOAD : 0.0 P.S.F.
 BOTTOM CHORD DEAD LOAD : 7.0 P.S.F.
TOTAL LOAD : 50.5 P.S.F



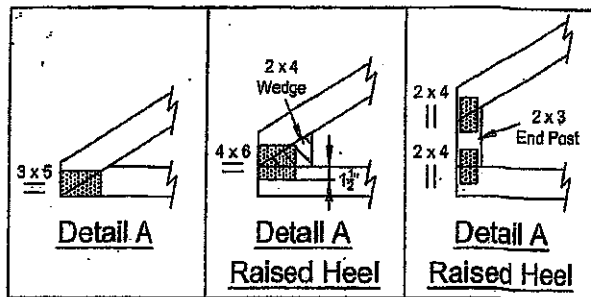
Corner Side Jacks



Corner End Jacks



Common End Jacks



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

T-1800216

JUN 13 2019

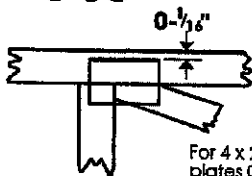
TOWN OF CALEDON
 BUILDING SECTION
 FILE NO.

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0-1/8" 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 T, I or Eliminator bracing if indicated.

BEARING

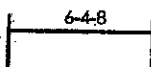


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

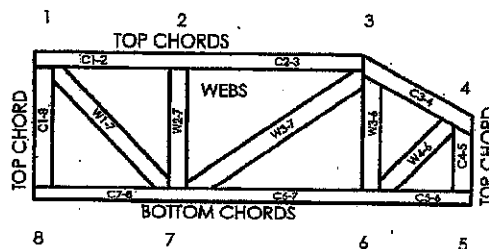
Industry Standards:

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

Numbering System



dimensions shown in ft-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, 12671-R

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MiTek
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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 BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, 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 manufactures 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-1900218

Feb 09, 2018