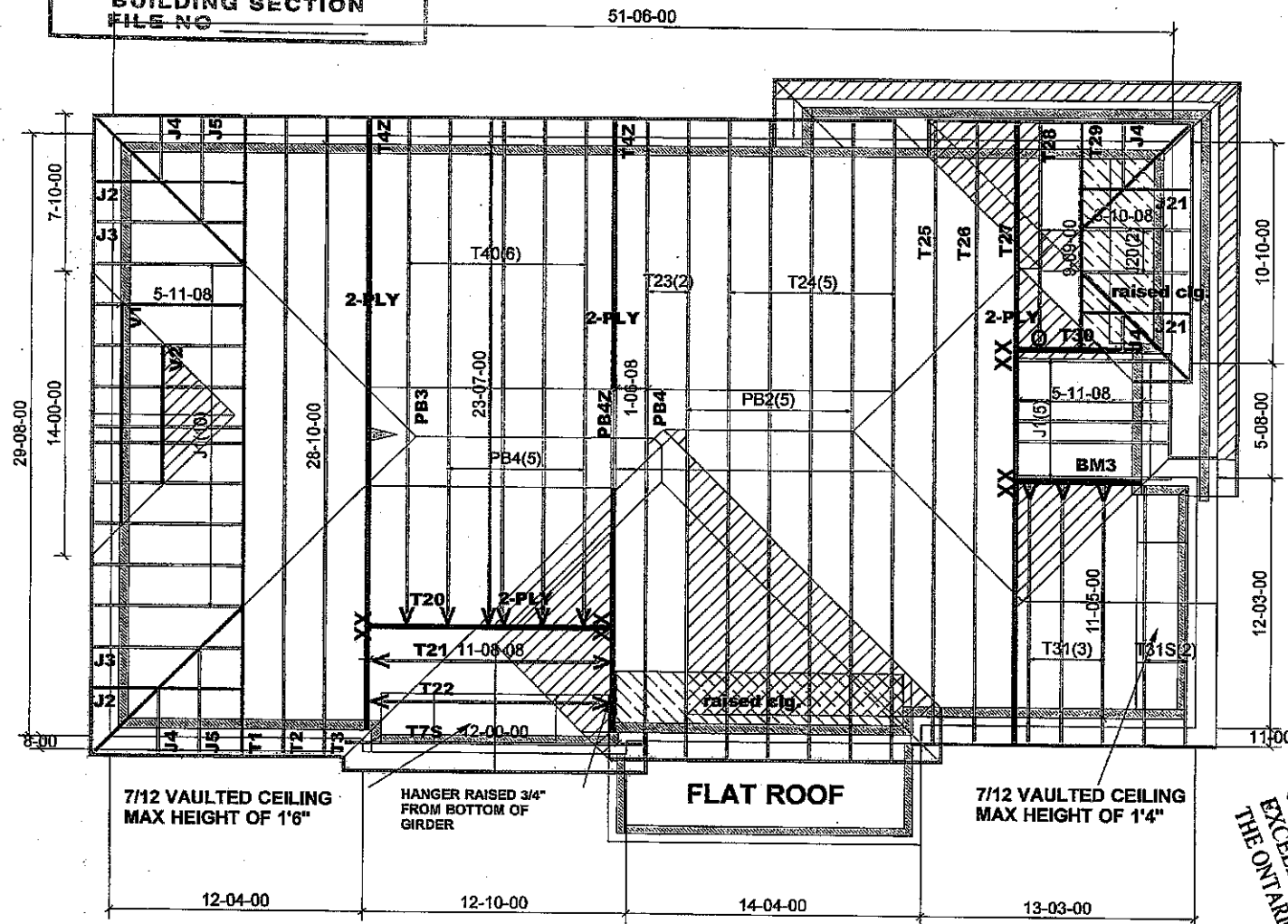
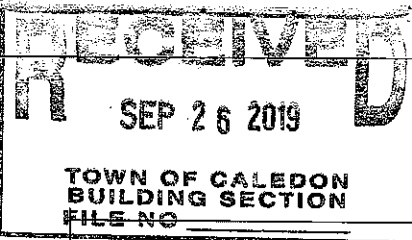




TRUSS PROFILES TO BE VERIFIED BY BUILDING DESIGNER

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) 6pcs
HGUS26-2 (XX) 4pcs
HUC26-2 (@) 1pcs
LUS24 (O) 8pcs

1'4" RAISED CEILING/TOP PLATE
 CONV FRM BY OTHERS

T- 180737

COMMENTS:
BM3: 2-2"x10" SPF #2
9/12 PITCH UNLESS NOTED OTHERWISE

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

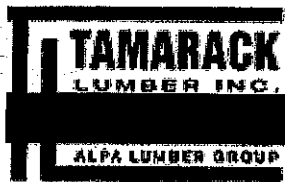


Job Track: **50033**
Plan Log: **200664**
Layout ID: **401822**

Builder / Location: **GREEN PARK HOMES / CALEDON**
Project: **LAMBERT LANE PH.2**
Date: **2019-03-20** Designer: **Brian/JG**

Model / Elevation: **PRESTON 11 / Elev. 2 Lot 64**

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



DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: Greenpark
 Project: Lamberts Lane Home Corp.
 Location: Caledon
 Model: Preston 11
 Lot #: 64
 Elevation: 2

Job Track: 50120
 PlanLog: 200172
 Layout ID: 400374
 Ref #
 Page: 1 of 3
 Date: 03/12/2019
 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	T1 Hip Girder	9/12	28-10-00	6-00-02	2 x 6	1-03-08 1-03-08	1-06-04 1-06-04	162.3 100.00		
	1	T2 Hip	9/12	28-10-00	7-05-14	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	126.61 79.17		
	1	T3 Hip	9/12	28-10-00	8-11-14	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	140.45 88.50		
	2 2-ply	T4Z Hip Girder	9/12	28-10-00	10-05-14	2 x 4 2 x 6	1-03-08 1-03-08	1-06-04 1-06-04	700.14 428.67		
	6	T40 Piggyback Base	9/12	23-07-00	10-05-14	2 x 4	1-03-08	1-06-04 5-05-08	754.34 487.00		
	1	T7S Roof Special	9/12 7/12	12-00-00	6-00-04	2 x 3 2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	50.01 33.33		
	1 2-ply	T20 Flat Girder	0/12	11-08-08	5-03-04	2 x 6		5-03-04 5-03-04	158.49 98.00		
	1	T21 Common	9/12	11-08-08	6-00-04	2 x 4		1-05-02 1-10-00	52.3 33.83		
	1	T22 Roof Special	9/12 7/12	11-08-08	6-00-04	2 x 3 2 x 4		1-05-02 1-10-00	45.6 30.00		
	2	T23 Hip	9/12	28-10-00	10-05-14	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	336.43 207.33		
	5	T24 Roof Special	9/12	28-10-00	10-05-14	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	796.49 494.17		
	1	T25 Hip	9/12	27-11-00	8-11-14	2 x 4	1-05-00 1-03-08	1-06-04 1-06-04	131.45 82.67		
	1	T26 Hip	9/12	27-11-00	7-05-14	2 x 4	1-05-00 1-03-08	1-06-04 1-06-04	124.22 76.83		
	1 2-ply	T27 Hip Girder	9/12	27-11-00	5-11-14	2 x 4 2 x 6	1-05-00 1-03-08	1-06-04 1-06-04	296.59 187.33		



DELIVERY SHIPLIST

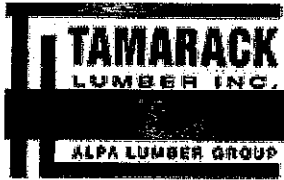
Lumber Yard: TAMARACK LUMBER
 Builder: Greenpark
 Project: Lamberts Lane Home Corp.
 Location: Caledon
 Model: Preston 11
 Lot #: 64
 Elevation: 2

Job Track: 50120
 PlanLog: 200172
 Layout ID: 400374
 Ref #
 Page: 2 of 3
 Date: 03/12/2019
 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	T28 Hip	9/12	9-09-00	5-10-02	2 x 4	1-03-08	2-10-04 3-00-08	52.67 34.67		
	1	T29 Hip Girder	9/12	10-00-00	4-05-02	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	47.49 31.17		
	1 2-ply	T30 Roof Special Girder	0/12	5-11-08	1-04-00	2 x 4		1-04-00 1-04-00	40.58 25.67		
	3	T31 Common	9/12	11-05-00	5-09-10	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	148.9 95.00		
	2	T31S Roof Special	9/12 7/12	11-05-00	5-09-10	2 x 4	1-03-08 1-03-08	1-06-04 1-06-04	106.56 68.00		
	1	V1 Valley	9/12	10-09-09	4-00-09	2 x 4			32.43 20.67		
	1	V2 Valley	9/12	6-09-09	2-06-09	2 x 4			17.74 11.00		
	1	PB3 Piggyback	9/12	4-11-00	1-06-00	2 x 4			12.09 8.33		
	6	PB4 Piggyback	9/12	4-11-00	1-10-02	2 x 4			66.37 48.00		
	1 2-ply	PB4Z Piggyback	9/12	4-11-00	1-10-02	2 x 4			22.12 16.00		
	15	J1 Jack-Open	9/12	5-11-08	5-11-14	2 x 4	1-03-08	1-06-04 5-11-14	279.2 180.00		
	2	J2 Jack-Open Girder	9/12	1-09-07	2-10-05	2 x 4	1-03-08 4-02-01	1-06-04 2-10-05	28.62 20.33		
	2	J3 Jack-Open	9/12	3-09-07	4-04-05	2 x 4	1-03-08 2-02-01	1-06-04 4-04-05	34.33 23.00		
	4	J4 Jack-Open	9/12	1-09-07	2-10-05	2 x 4	1-03-08 1-01	1-06-04 2-10-05	37.25 28.00		

DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER
 Builder: Greenpark
 Project: Lamberts Lane Home Corp.
 Location: Caledon
 Model: Preston 11
 Lot #: 64
 Elevation: 2

Job Track: 50120
 PlanLog: 200172
 Layout ID: 400374
 Ref #
 Page: 3 of 3
 Date: 03/12/2019
 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
	2	J5 Jack-Open	9/12	1-10-08	4-04-05	2 x 4	1-03-08 1-10-15	1-06-04 2-11-02	24.44 16.67		
	2	J20 Jack-Open	9/12	3-10-08	4-05-02	2 x 4	1-03-08	1-06-04 4-05-02	29.83 20.33		
	2	J21 Jack-Open Girder	9/12	1-09-07	2-10-05	2 x 4	1-03-08 2-01-01	1-06-04 2-10-05	23.87 17.67		

TOTAL # TRUSS= 78

TOTAL BFT OF ALL TRUSSES= 3069.34

BFT.

TOTAL WEIGHT OF ALL TRSSES 4875.91 LBS

HARDWARE

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

TOTAL NUMBER OF ITEMS= 18

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1-3-6 0-0 1-3-3 5-11-8 5-11-8 2-0-12 0-0-4 3-7-5 11-7-9 3-2-3 14-9-12 2-0-0 16-9-12 17-2-7 18-9-12 20-9-12 22-10-8 23-10-8 28-10-0 30-1-8

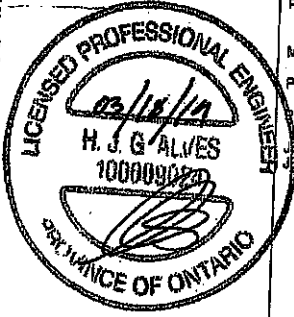
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PLATES (table is in inches)						
UT	PLATES		W	LEN	Y	X
CD	TTVMW-1	MT20	6.0	8.0	2.75	4.50
CD	TTVMW-4	MT20	8.0	8.0	4.00	1.75
CD	TTVMW-1	MT20	5.0	6.0		
CD	TS-1	MT20	5.0	8.0		
CD	TTVMW-4	MT20	3.0	8.0		
CD	TTVMW-1	MT20	6.0	8.0	4.00	1.75
CD	TTVMW-4	MT20	8.0	8.0	2.75	4.50
CD	BMWY-1	MT20	6.0	8.0	5.00	0.50
CD	BMWY-1	MT20	3.0	8.0	2.90	3.50
CD	BMWY-1	MT20	5.0	8.0	2.50	2.25
CD	BS-4	MT20	5.0	8.0		
CD	BMWY-1	MT20	5.0	8.0	2.50	2.75
CD	BMWY-1	MT20	5.0	8.0	2.80	3.50
CD	BMWY-1	MT20	8.0	8.0	5.60	

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD L/C1 (PLF)	MAX CSI (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO		LENGTH	FR-TO		
A-B	0/44	-102.1 -102.1	0.08 (1)	10.00	O-C	-89/287	0.09 (3)
B-C	-3830/0	-102.1 -102.1	0.48 (1)	3.82	C-N	0/1864	0.46 (1)
C-Q	-4393/0	-102.1 -102.1	0.61 (1)	3.81	N-D	-1021/0	0.51 (1)
Q-R	-4393/0	-102.1 -102.1	0.61 (1)	3.81	D-L	-14/0	0.02 (1)
R-D	-4593/0	-102.1 -102.1	0.51 (1)	3.61	L-F	-1017/0	0.51 (1)
D-S	-4383/0	-102.1 -102.1	0.51 (1)	3.62	L-G	0/1849	0.46 (1)
S-E	-4383/0	-102.1 -102.1	0.51 (1)	3.62	K-G	-82/298	0.09 (3)
E-T	-4593/0	-102.1 -102.1	0.51 (1)	3.62	B-O	0/3099	0.77 (1)
T-U	-4593/0	-102.1 -102.1	0.61 (1)	3.62	K-H	0/3100	0.77 (1)
U-V	-4393/0	-102.1 -102.1	0.51 (1)	3.62			
V-F	-4398/0	-102.1 -102.1	0.51 (1)	3.62			
F-W	-4383/0	-102.1 -102.1	0.49 (1)	3.65			
W-X	-4383/0	-102.1 -102.1	0.49 (1)	3.65			
X-G	-4393/0	-102.1 -102.1	0.49 (1)	3.65			
G-H	-3831/0	-102.1 -102.1	0.46 (1)	3.92			
H-I	0/44	-102.1 -102.1	0.08 (1)	10.00			
I-B	-3284/0	0.0	0.0 0.23 (1)	5.82			
J-H	-3265/0	0.0	0.0 0.23 (1)	5.82			
P-Y	0/0	-38.5	-38.5 0.27 (3)	10.00			
Y-Z	0/0	-38.5	-38.5 0.27 (3)	10.00			
Z-O	0/0	-38.5	-38.5 0.27 (3)	10.00			
O-AA	0/73055	-38.5	-38.5 0.55 (1)	10.00			
AA-BB	0/73055	-38.5	-38.5 0.55 (1)	10.00			
BB-CC	0/73055	-38.5	-38.5 0.55 (1)	10.00			
CC-DD	0/4393	-38.5	-38.5 0.69 (1)	10.00			
DD-EE	0/4393	-38.5	-38.5 0.69 (1)	10.00			
EE-FF	0/4393	-38.5	-38.5 0.69 (1)	10.00			
FF-GG	0/4393	-38.5	-38.5 0.69 (1)	10.00			
GG-HH	0/4393	-38.5	-38.5 0.55 (1)	10.00			
HH-AA	0/3056	-38.5	-38.5 0.55 (1)	10.00			
AA-BB	0/3056	-38.5	-38.5 0.55 (1)	10.00			
BB-CC	0/3056	-38.5	-38.5 0.55 (1)	10.00			
CC-DD	0/3056	-38.5	-38.5 0.55 (1)	10.00			
DD-EE	0/3056	-38.5	-38.5 0.55 (1)	10.00			
EE-FF	0/3056	-38.5	-38.5 0.55 (1)	10.00			
FF-GG	0/3056	-38.5	-38.5 0.55 (1)	10.00			
GG-HH	0/3056	-38.5	-38.5 0.55 (1)	10.00			
HH-AA	0/3056	-38.5	-38.5 0.55 (1)	10.00			
AA-BB	0/3056	-38.5	-38.5 0.55 (1)	10.00			
BB-CC	0/3056	-38.5	-38.5 0.55 (1)	10.00			
CC-DD	0/3056	-38.5	-38.5 0.55 (1)	10.00			
DD-EE	0/3056	-38.5	-38.5 0.55 (1)	10.00			
EE-FF	0/3056	-38.5	-38.5 0.55 (1)	10.00			
FF-GG	0/3056	-38.5	-38.5 0.55 (1)	10.00			
GG-HH	0/3056	-38.5	-38.5 0.55 (1)	10.00			
HH-AA	0/3056	-38.5	-38.5 0.55 (1)	10.00			
AA-BB	0/3056	-38.5	-38.5 0.55 (1)				

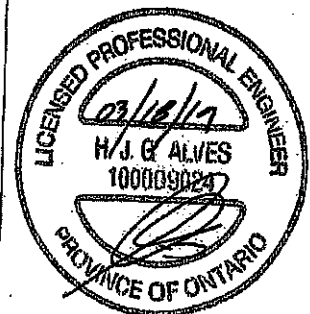
DWG NO. TAM 71905520
STRUCTURAL
COMPONENT ONLY 1/2



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
200172-400371	T1	1	1	Preston 11	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Mon Mar 18 20:52:57 2019 Page 2
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FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
O	5-11-8	-483	-483	---	BACK	VERT	TOTAL	---	---
G	22-10-8	-483	-483	---	BACK	VERT	TOTAL	---	---
K	22-9-12	-26	-26	---	BACK	VERT	TOTAL	---	---
Q	8-0-4	-26	-26	---	BACK	VERT	TOTAL	---	---
R	8-0-4	-126	-126	---	BACK	VERT	TOTAL	---	---
R	10-0-4	-126	-126	---	BACK	VERT	TOTAL	---	---
S	12-0-4	-126	-126	---	BACK	VERT	TOTAL	---	---
T	12-0-4	-126	-126	---	BACK	VERT	TOTAL	---	---
U	14-9-12	-126	-126	---	BACK	VERT	TOTAL	---	---
V	16-9-12	-126	-126	---	BACK	VERT	TOTAL	---	---
W	18-9-12	-126	-126	---	BACK	VERT	TOTAL	---	---
X	20-9-12	-126	-126	---	BACK	VERT	TOTAL	---	---
Y	1-11-4	-76	-97	---	BACK	VERT	TOTAL	---	---
Z	3-11-4	-76	-97	---	BACK	VERT	TOTAL	---	---
AA	8-0-4	-26	-26	---	BACK	VERT	TOTAL	---	---
AB	10-0-4	-26	-26	---	BACK	VERT	TOTAL	---	---
AC	12-0-4	-26	-26	---	BACK	VERT	TOTAL	---	---
AD	14-0-4	-26	-26	---	BACK	VERT	TOTAL	---	---
AE	14-9-12	-26	-26	---	BACK	VERT	TOTAL	---	---
AF	16-9-12	-26	-26	---	BACK	VERT	TOTAL	---	---
AG	18-9-12	-26	-26	---	BACK	VERT	TOTAL	---	---
AH	20-9-12	-26	-26	---	BACK	VERT	TOTAL	---	---
AI	24-10-12	-76	-97	---	BACK	VERT	TOTAL	---	---
AJ	26-10-12	-76	-97	---	BACK	VERT	TOTAL	---	---



DWG NO. TAM 7905520
STRUCTURAL
COMPONENT ONLY 3/2

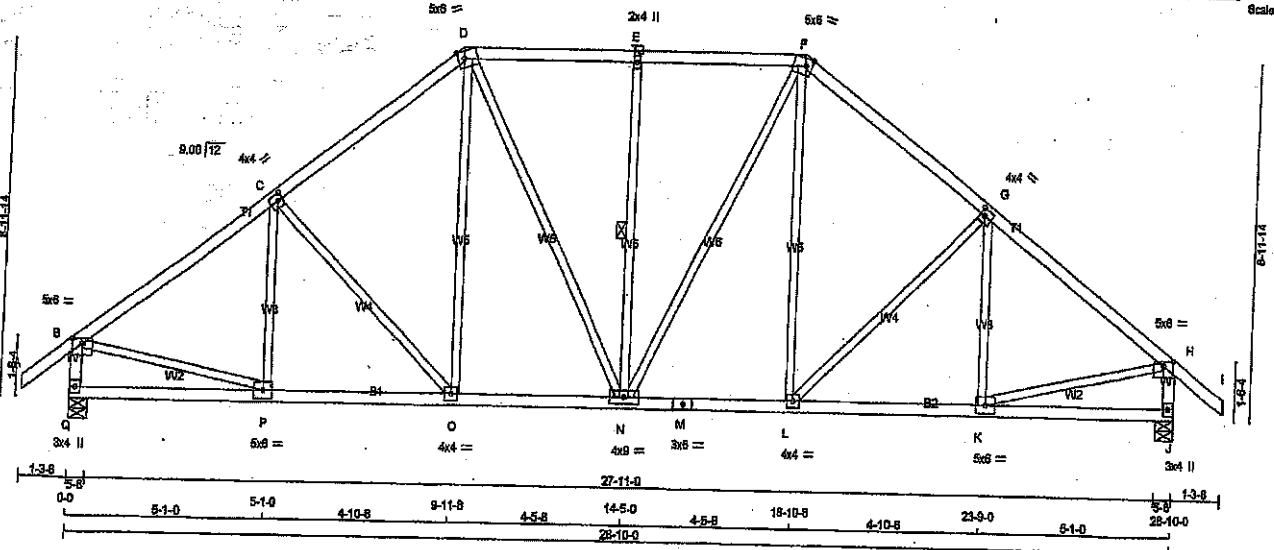
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HWG NO. TAM 77905521
STRUCTURAL
COMPONENT ONLY

JOB NAME 200172-400371	TRUSS NAME T3	QUANTITY 1	PLY 1	JOB DESC. Preston 11	TRUSS DESC.	DRWG NO.
Tamarack Roof Truss, Burlington						

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Mon Mar 18 20:52:59 2019 Page 1
ID:tr5ampg4l74dMkt9JQOlyNxSs-5HVmuUUGCHsNk9cC8m0KPJb4KMk3SwwSg6qFygzZbtl

Scale = 1/50,4



LUMBER			
N.L.G.A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
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	2x3	DRY	No.2
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-l	MT20	4.0	4.0	2.00 1.50
D TMVW-m	MT20	5.0	6.0	Edge 2.00
E TMVW-w	MT20	2.0	4.0	
F TMVW-m	MT20	6.0	6.0	Edge 2.00
G TMVW-l	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-l	MT20	5.0	6.0	
L BMVW-l	MT20	4.0	4.0	
M BS-l	MT20	3.0	6.0	
N BMVW-l	MT20	4.0	6.0	
O BMVW-l	MT20	4.0	4.0	
P BMVW-l	MT20	5.0	6.0	
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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX
JT	2188	0	2188	0	5-8	5-8	5-8
J	2188	0	2188	0	5-8	5-8	5-8

UNFACTORED REACTIONS

1ST. LCASE	MAX/MIN. COMPONENT REACTIONS					
COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
JT	1811	917 / 0	303 / 0	0 / 0	0 / 0	391 / 0
J	1811	917 / 0	303 / 0	0 / 0	0 / 0	391 / 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 = 4.24 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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 (LBS)	MAX. FACTORED HORZ. LOAD (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORZ. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 42	-102.1	-102.1	0.14 (1)	10.00	P-C	-201 / 91
B-C	-2181 / 0	-102.1	-102.1	0.41 (1)	4.24	C-O	-350 / 0
C-D	-1948 / 0	-102.1	-102.1	0.38 (1)	4.48	O-D	0 / 436
D-E	-1713 / 0	-102.1	-102.1	0.28 (1)	4.80	D-N	0 / 399
E-F	-1713 / 0	-102.1	-102.1	0.28 (1)	4.80	N-E	-547 / 0
F-G	-1948 / 0	-102.1	-102.1	0.38 (1)	4.48	E-F	0 / 399
G-H	-2181 / 0	-102.1	-102.1	0.41 (1)	4.24	F-G	0 / 436
H-I	0 / 42	-102.1	-102.1	0.14 (1)	10.00	I-G	-350 / 0
Q-B	-2087 / 0	0.0	0.0	0.22 (1)	5.86	K-G	-201 / 91
J-H	-2087 / 0	0.0	0.0	0.22 (1)	5.86	B-P	0 / 1821
Q-P	0 / 0	-38.5	-38.5	0.18 (3)	10.00	K-H	0 / 1821
P-O	0 / 1773	-38.5	-38.5	0.41 (2)	10.00		
O-N	0 / 1531	-38.5	-38.5	0.33 (1)	10.00		
N-M	0 / 1531	-38.5	-38.5	0.33 (1)	10.00		
M-L	0 / 1531	-38.5	-38.5	0.33 (1)	10.00		
L-K	0 / 1773	-38.5	-38.5	0.41 (2)	10.00		
K-J	0 / 0	-38.5	-38.5	0.18 (3)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 20.0 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN. O.C.

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBCC 2010, CBC 2012
- CSA 088-08, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 37.5 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 20.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.60")
CALCULATED VERT. DEFL. (LL) = L/559 (0.07")
ALLOWABLE DEFL. (TL) = L/360 (0.60")
CALCULATED VERT. DEFL. (TL) = L/999 (0.12")

CSI: TC=0.41/1.00 (B-C1), BC=0.41/1.00 (K-L-2), WB=0.41/1.00 (H-K1), SS=0.22/1.00 (D-E1)

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

COMPANION LIVE LOAD FACTOR = 1.00

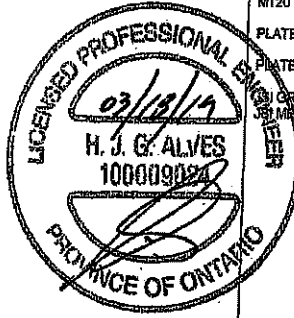
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

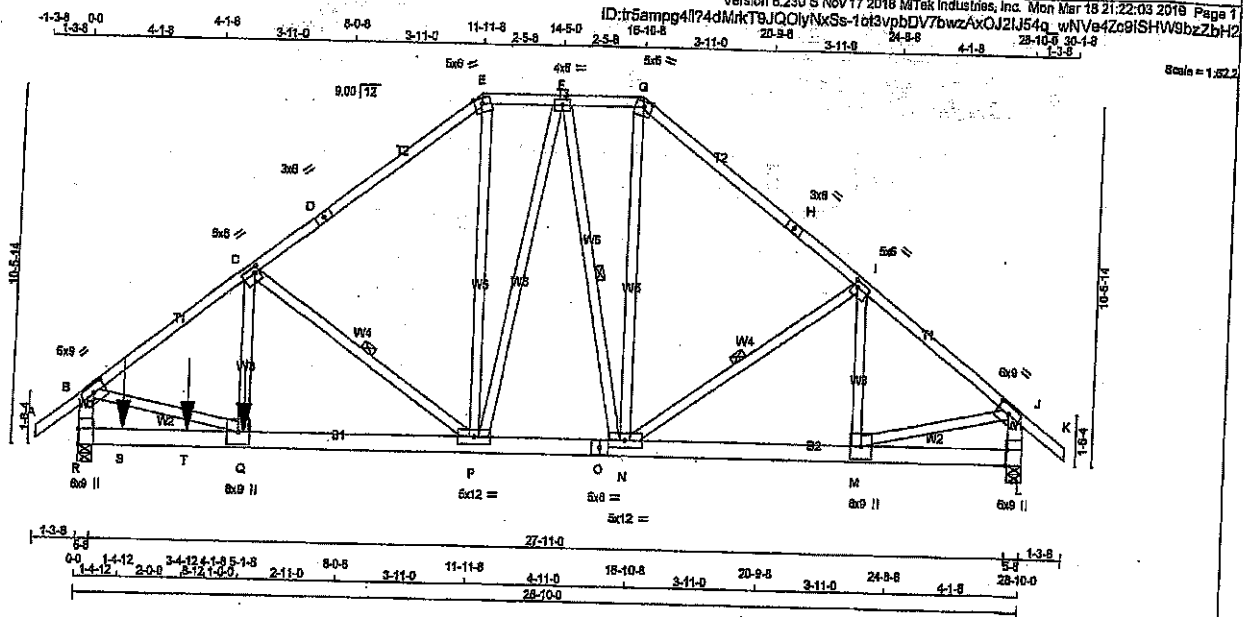
PLATE ROTATION TOL. = 5.0 Deg.

GRIP=0.80 (F) (INPUT = 0.80)
MIN TOL=0.50 (F) (INPUT = 1.00)



DRWG NO. TAM 71905522
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
200172-400374	T4Z	2	2	Preston 11	
Tamarack Roof Truss, Burlington				TRUSS DESC.	



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 - G	2x4	DRY	No.2	SPF
G - H	2x4	DRY	No.2	SPF
H - K	2x4	DRY	No.2	SPF
R - B	2x6	DRY	No.2	SPF
L - J	2x6	DRY	No.2	SPF
R - O	2x6	DRY	No.2	SPF
O - L	2x6	DRY	No.2	SPF

ALL WEBS 2x4 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS: (0.122"x3") SPIRAL NAILS		
D-A 1	12	TOP
D-E 1	12	TOP
E-G 1	12	TOP
G-H 1	12	TOP
H-K 1	12	TOP
R-B 2	12	TOP
L-J 2	12	TOP
BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS		
R-O 2	12	SIDE (183.1)
O-L 2	12	TOP
WEBS: (0.122"x3") SPIRAL NAILS		
C-Q 1	2	SIDE (1355.1)
2x4 1	6	
I-M 1	2	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (tablets in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMWW-1	MT20	8.0	9.0	2.75	4.50
C TMWW-1	MT20	5.0	6.0	2.00	1.50
D TS-4	MT20	3.0	6.0		
E ITW-m	MT20	5.0	6.0	Edge	
F TMWW-1	MT20	4.0	6.0		
G ITW-m	MT20	5.0	6.0	Edge	
H TS-1	MT20	3.0	6.0		
I TMWW-1	MT20	5.0	6.0	2.00	1.50
J TMWW-1	MT20	6.0	9.0	2.75	4.50
L BMV1-1	MT20	6.0	9.0	Edge	0.50
M BMWW-1	MT20	8.0	9.0		
N BMWW-1	MT20	5.0	12.0		
O BS-1	MT20	5.0	6.0		
P BMWW-1	MT20	5.0	12.0		
Q BMWW-1	MT20	8.0	9.0		

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
JT VERT	8455	8455	5-8	5-8
R HORZ	0	0	0	0
L HORZ	3348	3348	5-8	5-8

UNFACTORED REACTIONS

	1ST CASE	MAX. MIN. COMPONENT REACTIONS					
JT COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	
R	6277	3597	1192	0	0	1518	0
L	2486	1416	465	0	0	603	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 = 2.58 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-P, I-M, F-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	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED HORZ. LOAD (LBS)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
MEMB.							
FR-TO							
A-B	0/42	-102.1	-102.1	0.08 (1)	10.00	Q-P	0/5369
B-C	-9361/0	-102.1	-102.1	1.00 (1)	2.58	C-P	-5147/0
C-D	-4208/0	-102.1	-102.1	0.08 (1)	4.18	P-E	0/2074
D-E	-4208/0	-102.1	-102.1	0.08 (1)	4.18	N-G	0/1681
E-F	-3882/0	-102.1	-102.1	0.08 (1)	5.02	N-I	-283/0
F-G	-2835/0	-102.1	-102.1	0.08 (1)	5.38	M-I	-430/32
G-H	-3560/0	-102.1	-102.1	0.80 (1)	4.47	B-Q	0/7704
H-I	-3560/0	-102.1	-102.1	0.80 (1)	4.47	M-J	0/3121
I-J	-3758/0	-102.1	-102.1	0.49 (1)	4.36	P-F	0/1681
J-K	0/42	-102.1	-102.1	0.08 (1)	10.00	F-N	-1297/0
R-B	-7594/0	0.0	0.0	0.28 (1)	5.45		
L-J	-3259/0	0.0	0.0	0.12 (1)	7.58		
R-S	0/0	-38.5	-38.5	0.43 (1)	10.00		
S-T	0/0	-38.5	-38.5	0.43 (1)	10.00		
T-Q	0/0	-38.5	-38.5	0.43 (1)	10.00		
Q-P	0/7580	-38.5	-38.5	0.83 (1)	10.00		
P-O	0/3123	-38.5	-38.5	0.26 (1)	10.00		
O-N	0/3123	-38.5	-38.5	0.26 (1)	10.00		
N-M	0/3051	-38.5	-38.5	0.26 (1)	10.00		
M-L	0/0	-38.5	-38.5	0.08 (3)	10.00		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LOI	MAX.	MAX+	FACE	DIR.
Q	5-1-8	-5888	-5888		BACK	VERT
S	1-4-12	-785	-785		BACK	VERT
T	3-4-12	-785	-785		BACK	VERT

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 28.0	PSF
DL	6.0	PSF
BOT CH.	LL = 10.0	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 6.0%/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 2015
- CSA 086-08, 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 (0.68")
CALCULATED VERT. DEFL. (LL) = L/999 (0.10")
ALLOWABLE DEFL. (TL) = L/360 (0.68")
CALCULATED VERT. DEFL. (TL) = L/999 (0.17")

CSI: TC=1.00/1.00 (B-C-1), BC=0.69/1.00 (P-Q-1), WB=0.93/1.00 (C-P-1), SB=0.30/1.00 (Q-R-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

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PL)
MT20	618	354
MT20	1957	788
MT20	1957	1658

PLATE PLACEMENT TOL = 0.250 Inches

PLATE ROTATION TOL = 5.0 Deg.

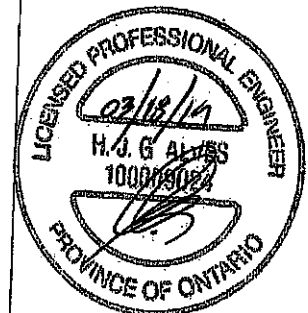
SI GRIP=0.84 (1) (INPUT=0.90)
SI METAL=0.95 (M) (INPUT=1.00)

DWG NO. TAM 7905569
STRUCTURAL
COMPONENT ONLY 1/2

CONTINUED ON PAGE 2

JOB NAME 200172-400374	TRUSS NAME T4Z	QUANTITY 2	PLY 2	JOB DESC. Preston 11	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.230 5 Nov 17 2018 Mitek Industries, Inc. Mon Mar 18 21:22:03 2019 Page 2 ID:tr5ampg4l74dMrkT8JCOlvNxSs-1c13vptDV7bwzAxOJ2IJ54g wNVe4Zc8ISHW5bzZbH2	

PLATES (table is in inches)
JT TYPE PLATES W LEN Y X
R BMV1-H MT20 6.0 9.0 5.50
Edge - INDICATES REFERENCE CORNER OF PLATE
TOUCHES EDGE OF CHORD.

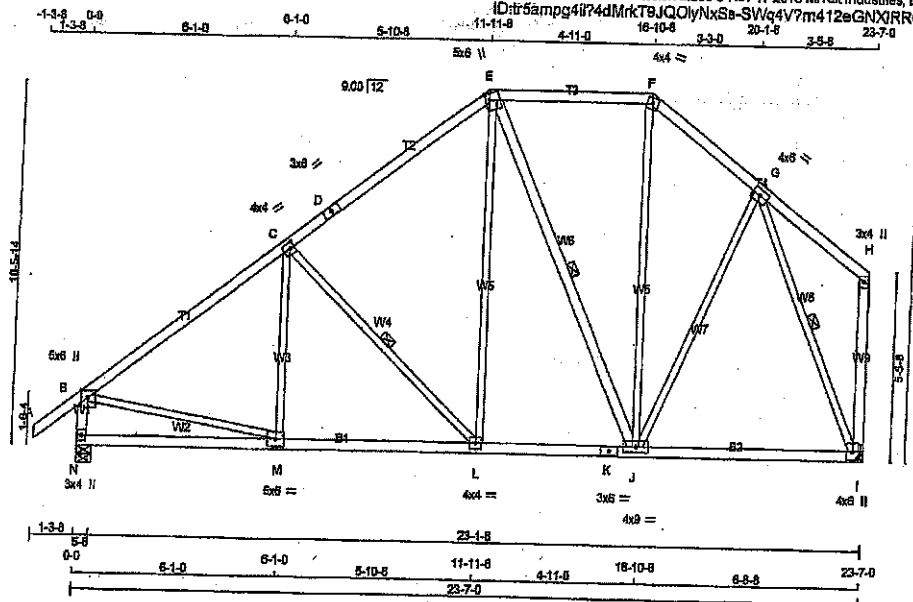


DWG NO. TAM **11905567**
STRUCTURAL
COMPONENT ONLY **3/2**

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
200172-400371	T40	6	1	Preston 11		

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Mon Mar 18 20:53:21 2018 Page 1
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Scale = 1/8" = 1'-0"

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 - H	2x4	DRY No.2
H - I	2x4	DRY No.2
I - J	2x4	DRY No.2
J - K	2x4	DRY No.2
K - L	2x4	DRY No.2

ALL WEBS 2x3 DRY No.2
EXCEPT
E - J 2x4 DRY No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVV+p	MT20	5.0	6.0	2.50	2.25
C TMVVW-1	MT20	4.0	4.0	2.00	1.50
D TS-1	MT20	3.0	6.0		
E TTWW+m	MT20	5.0	6.0	2.25	1.50
F TTWW-m	MT20	4.0	4.0		
G TMVVW-1	MT20	4.0	6.0		
H TMV+p	MT20	3.0	4.0		
I BMVVW+p	MT20	4.0	6.0		
J BMVVWW-1	MT20	4.0	6.0		
K BS-1	MT20	3.0	6.0		
L BMVVW-1	MT20	4.0	4.0		
M BMVVW-1	MT20	5.0	6.0		
N BMV+p	MT20	3.0	4.0		

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

BEARINGS

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
N	1788	0	1788	0	0	5-8	5-8
I	1858	0	1858	0	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	1ST LOSE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
N	1388	765 / 0	248 / 0	0 / 0	0 / 0	323 / 0	0 / 0	0 / 0
I	1239	685 / 0	248 / 0	0 / 0	0 / 0	307 / 0	0 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.45 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	FACTORED HORZ. LOAD (LC)	MAX. UNBRACED LENGTH (FR-TO)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PL)	FACTORED HORZ. LOAD (LC)
FR-TO					FR-TO			
A-B	0 / 42	-102.1	-102.1	0.14 (1)	10.00	M-C	-5 / 223	0.05 (3)
B-C	-1710 / 0	-102.1	-102.1	0.66 (1)	4.45	C-L	-814 / 0	0.29 (1)
C-D	-1248 / 0	-102.1	-102.1	0.51 (1)	5.10	L-E	0 / 598	0.13 (1)
D-E	-1248 / 0	-102.1	-102.1	0.51 (1)	5.10	E-J	-385 / 0	0.27 (1)
E-F	-802 / 0	-102.1	-102.1	0.32 (1)	8.25	J-F	0 / 258	0.08 (2)
F-G	-1026 / 0	-102.1	-102.1	0.15 (1)	5.08	J-G	0 / 428	0.10 (1)
G-H	0 / 23	-102.1	-102.1	0.15 (1)	10.00	B-M	0 / 1490	0.32 (1)
H-I	-1705 / 0	0.0	0.0	0.18 (1)	5.39	G-I	-1947 / 0	0.72 (1)
I-N	-138 / 0	0.0	0.0	0.08 (1)	7.81			
N-M	0 / 0	-38.5	-38.5	0.28 (3)	10.00			
M-L	0 / 1403	-38.5	-38.5	0.45 (2)	10.00			
L-K	0 / 987	-38.5	-38.5	0.41 (2)	10.00			
K-J	0 / 987	-38.5	-38.5	0.41 (2)	10.00			
J-I	0 / 626	-38.5	-38.5	0.36 (2)	10.00			

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

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 086-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55% OF 37.6 P.S.F. G.S.L. PLUS 9.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/800 (0.79")
CALCULATED VERT. DEFL. (LL) = L/899 (0.69")
ALLOWABLE DEFL. (TL) = L/800 (0.79")
CALCULATED VERT. DEFL. (TL) = L/899 (0.15")

CSI: TO=0.56/1.00 (B-C:1), BC=0.45/1.00 (L-M:2), WB=0.72/1.00 (G-I:1), SS=0.24/1.00 (B-C: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.

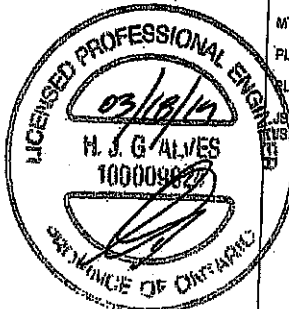
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR (PSI)	SECTION (PL)
MT20	918	354	1587
	788	1987	1656

PLATE PLACEMENT TOL. = 0.250 inches

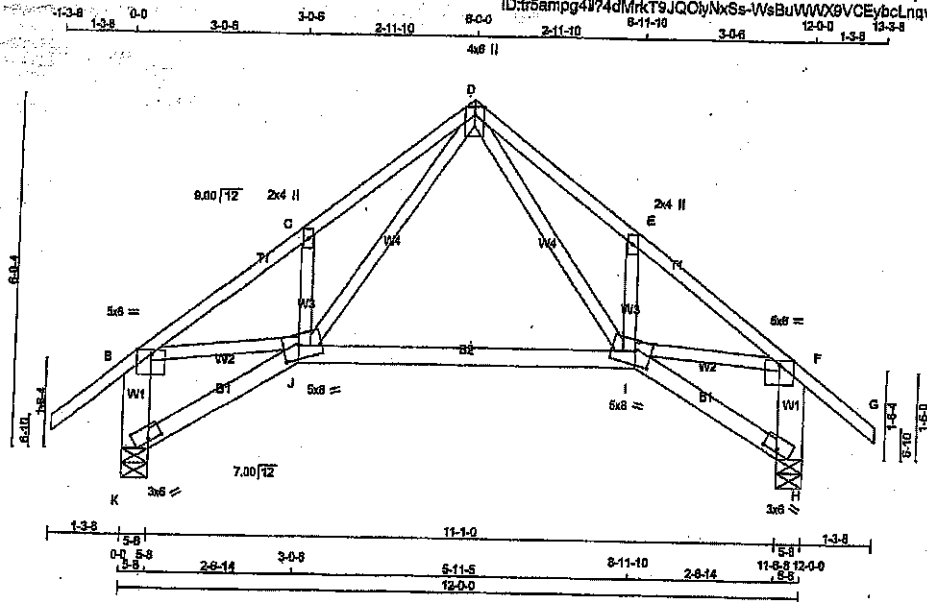
PLATE ROTATION TOL. = 5.0 Deg.

GRIP= 0.89 (B) (INPUT = 0.90)
TENS METAL= 0.52 (K) (INPUT = 1.00)



DRWG NO. TAM 71905538
STRUCTURAL
COMPONENT C/W

JOB NAME 200172-400371	TRUSS NAME T7S	QUANTITY 1	PLY 1	JOB DESC. Preston 11	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.230 8 Nov 17 2018 MTK Industries, Inc. Mon Mar 18 20:53:02 2019 Page 1	
ID:tr5ampg4j74dMkT9JQOyNxSs-WsBuVWwX9VCEybcLnqVZ11xDpueMMKyuM42vY7zZblf				Scale = 1/32	



LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x3	DRY	No.2
D - G	2x3	DRY	No.2
K - B	2x3	DRY	No.2
H - F	2x3	DRY	No.2
K - J	2x4	DRY	No.2
J - 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	TMWV-p	MT20	8.0	8.0	Edge	
C	TMWV-w	MT20	2.0	4.0		
D	TMWV-p	MT20	4.0	8.0	Edge	
E	TMWV-w	MT20	2.0	4.0		
F	TMWV-p	MT20	6.0	8.0	Edge	
H	BVMH-I	MT20	3.0	8.0	0.50	3.00
I	BBWVW-m	MT20	5.0	8.0	2.75	3.25
J	BBWVW-m	MT20	5.0	8.0	2.75	3.25
K	BVMH-I	MT20	3.0	8.0	0.50	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
GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT	DOWN	IN-SX	IN-SX
K 982	0	5-8	5-8
H 982	0	5-8	5-8

UNFACTORED REACTIONS

1ST LOASE	MAX/MIN	COMPONENT REACTIONS	DEAD	SOIL
JT COMBINED	SNOW	LIVE	PERM	LIVE
K 725	427 / 0	128 / 0	0 / 0	172 / 0
H 725	427 / 0	128 / 0	0 / 0	172 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.77 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	WEBS	MAX. FACTORED
MEMB.	FORCE	VERT. LOAD	LC1	MAX	MEMB.	FORCE	MAX
(LBS)	(PLF)	CS1 (LC)	LENGTH	FR-TO	(LBS)	CS1 (LC)	(LBS)
FR-TO							
A-B	0 / 41	-102.1	-102.1	0.25 (1)	10.00	D-I	0 / 780
B-C	-1228 / 0	-102.1	-102.1	0.25 (1)	4.84	E-E	-378 / 0
C-D	-1277 / 0	-102.1	-102.1	0.25 (1)	4.77	J-D	0 / 780
D-E	-1277 / 0	-102.1	-102.1	0.25 (1)	4.77	J-C	-378 / 0
E-F	-1228 / 0	-102.1	-102.1	0.25 (1)	4.84	S-J	0 / 1002
F-G	0 / 41	-102.1	-102.1	0.25 (1)	10.00	I-F	0 / 1002
K-B	-924 / 0	0.0	0.0	0.07 (1)	7.81		
H-F	-924 / 0	0.0	0.0	0.07 (1)	7.81		
K-J	0 / 0	-38.5	-38.5	0.08 (3)	10.00		
J-I	0 / 558	-38.5	-38.5	0.07 (2)	10.00		
I-H	0 / 0	-38.5	-38.5	0.08 (3)	10.00		

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 NBCC 2010, CBC 2012
- CSA 088-08, CSA 088-14
- TPC 2011, TPC 2014

(95% 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 (0.40")
CALCULATED VERT. DEFL.(LL) = L/999 (0.10")
ALLOWABLE DEFL.(TL) = L/360 (0.40")
CALCULATED VERT. DEFL.(TL) = L/827 (0.17")

CS1: TC=0.28/1.00 (A-B:1), BC=0.37/1.00 (I-J:2), WS=0.23/1.00 (B-C:1), SS=0.17/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

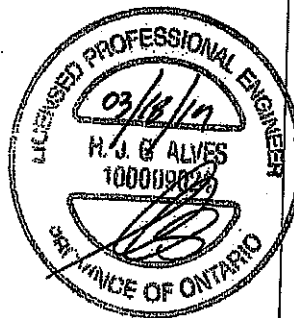
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

SI GRIP= 0.74 (B) (INPUT = 0.80)
SI METAL= 0.31 (B) (INPUT = 1.00)

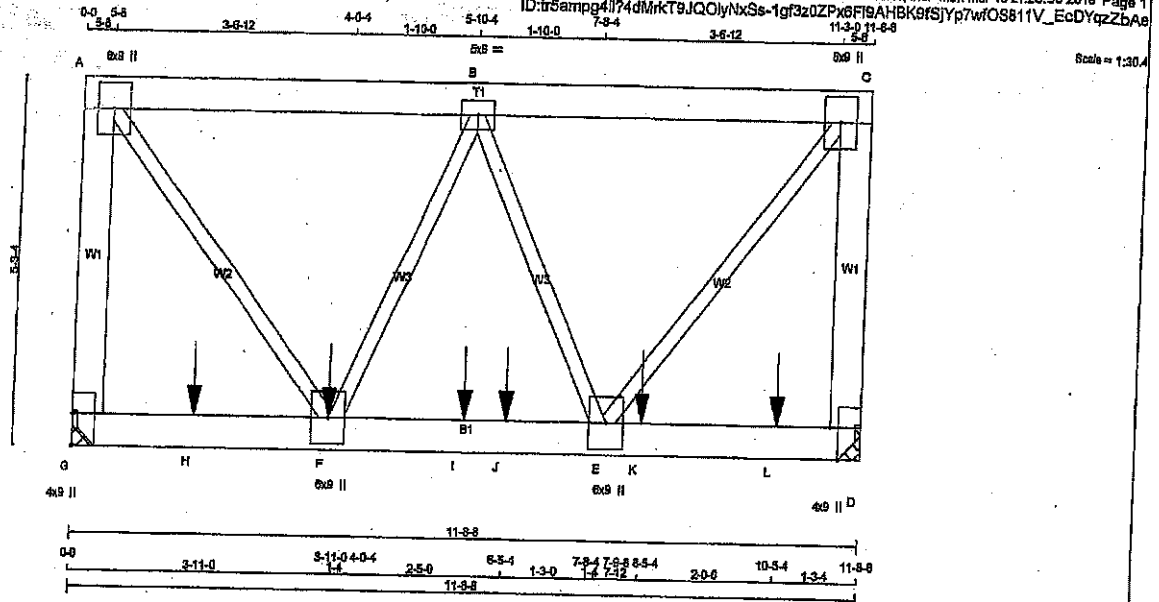


DRWG NO. TAM 81405524
STRUCTURAL
COMPONENT ONLY

JOB NAME 200172-400374	TRUSS NAME T20	QUANTITY 1	PLY 2	JOB DESC. Preston 11	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington.

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CHORDS	SIZE	WUMBER	DESCR.
G - A	2x6	DRY	No.2
A - C	2x6	DRY	No.2
D - C	2x6	DRY	No.2
G - D	2x6	DRY	No.2

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

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS: (0.122'x3') SPIRAL NAILS		
G-A	2	12
A-C	2	12
C-D	2	12
BOTTOM CHORDS: (0.122'x3') SPIRAL NAILS		
G-D	2	12
WEBS: (0.122'x3') SPIRAL NAILS		
2x3	1	6

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATE TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	6.0	9.0	
B	TMVW-l	MT20	5.0	6.0	
C	TMVW+p	MT20	6.0	9.0	
D	BMV1+l	MT20	4.0	9.0	Edge 1.50
E	BMVW+l	MT20	6.0	9.0	
F	BMVW+l	MT20	6.0	9.0	
G	BMV1+l	MT20	4.0	9.0	5.50

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

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQ'D
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
G	5456	0	5456	0
D	5908	0	5908	0

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT G, D. MINIMUM BEARING LENGTH AT JOINT G = 4-0, JOINT D = 4-0.

UNFACTORED REACTIONS

JT	1ST CASE	MAX/MIN	COMPONENT REACTIONS	PERM	LIVE	WIND	DEAD	SOIL
G	4060	2289 / 0	771 / 0	0 / 0	0 / 0	0 / 0	889 / 0	0 / 0
D	4394	2489 / 0	834 / 0	0 / 0	0 / 0	0 / 0	1071 / 0	0 / 0

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.71 FT.
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 (PLF)	MAX. UNBRACED LENGTH FR-TO	FORCE (LBS)
FR-TO				
G-A	-4892 / 0	0.0	0.0	0.84 (1)
A-B	-3825 / 0	-102.1	-102.1	0.14 (1)
B-C	-3707 / 0	-102.1	-102.1	0.15 (1)
D-C	-4935 / 0	0.0	0.0	0.65 (1)
G-H	0 / 0	-38.5	-38.5	0.42 (1)
H-F	0 / 0	-38.5	-38.5	0.42 (1)
F-I	0 / 3809	-38.5	-38.5	0.83 (1)
I-J	0 / 3809	-38.5	-38.5	0.83 (1)
J-E	0 / 3809	-38.5	-38.5	0.83 (1)
E-K	0 / 0	-38.5	-38.5	0.83 (1)
K-L	0 / 0	-38.5	-38.5	0.83 (1)
L-D	0 / 0	-38.5	-38.5	0.83 (1)

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC	LC1	MAX-	MAX+	FACE	DIR
F	3-9-12	-1619	-1619		BACK	VERT
H	1-9-12	-1619	-1619		BACK	VERT
I	5-9-12	-1619	-1619		BACK	VERT
J	6-5-4	-1619	-1619		BACK	VERT
K	6-5-4	-1619	-1619		BACK	VERT
L	10-5-4	-1619	-1619		BACK	VERT

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. G/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBC 2010, NBC 2012
- CSA 088-09, 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 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = 1/360 (0.39")
CALCULATED VERT. DEFL.(LL) = 1/889 (0.08")
ALLOWABLE DEFL.(TL) = 1/360 (0.39")
CALCULATED VERT. DEFL.(TL) = 1/999 (0.10")

CSL TO 0.85/1.00 (C-D:1), BC=0.83/1.00 (E-F:1),
WB=0.74/1.00 (C-E:1), SS=0.80/1.00 (D-E: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)	(PL)	(PL)
MT20	618	354 1657 788 1657 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

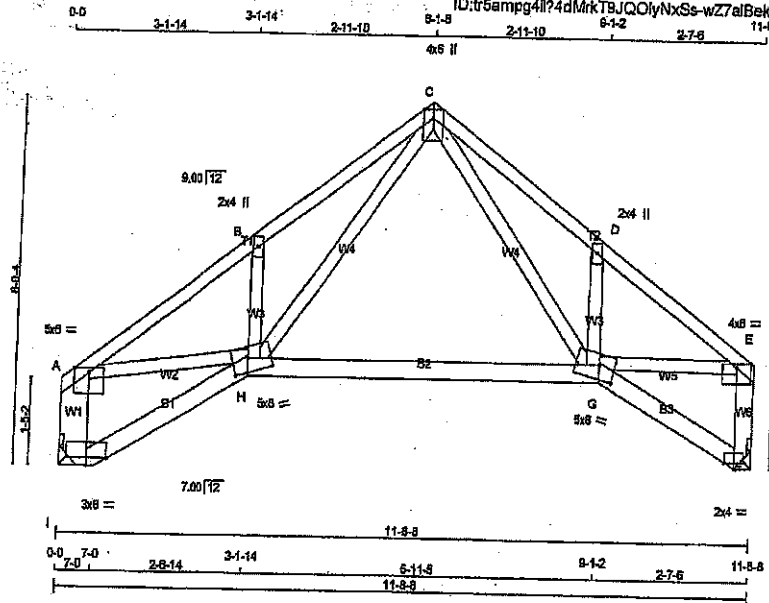
JSI GRIP= 0.88 (A) (INPUT = 0.80)
JSI METAL= 0.57 (F) (INPUT = 1.00)

DRWG NO. TAM 17405570
STRUCTURAL
COMPONENT ONLY

JOB NAME 200172-400374	TRUSS NAME T22	QUANTITY 1	PLY 1	JOB DESC. Preston 11	TRUSS DESC.	DRWG NO.
Tamarack Roof Truss, Burlington						

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Scale = 1/32



LUMBER

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

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-p	MT20	5.0	6.0	Edge	
B	TMVW-p	MT20	2.0	4.0		
C	TMVW-p	MT20	4.0	6.0	Edge	
D	TMVW-p	MT20	2.0	4.0		
E	TMVW-p	MT20	4.0	6.0	Edge	
F	BVM1-p	MT20	2.0	4.0	Edge	2.00
G	BBWW-m	MT20	5.0	6.0	2.75	3.25
H	BBWW-m	MT20	5.0	6.0	2.75	3.25
I	BVM1-p	MT20	3.0	6.0	Edge	

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

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

FACTORED	MAXIMUM FACTORED	INPUT	REQD
GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT	DOWN	UP/LIFT	IN-SX
I 823	0	0	MECHANICAL
F 823	0	0	MECHANICAL

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

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN	COMPONENT REACTIONS	PERM	LIVE	WIND	DEAD	SOIL
JT COMBINED	SNOW	LIVE	PERM	LIVE	WIND	DEAD	SOIL
I 815	340 / 0	123 / 0	0 / 0	0 / 0	152 / 0	0 / 0	0 / 0
F 815	340 / 0	123 / 0	0 / 0	0 / 0	152 / 0	0 / 0	0 / 0

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.77 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS				
MAX. FACTORED		FACTORED		MAX. FACTORED		FACTORED		
MEMB.	FORCE	VERT. LOAD	LC1	MAX.	MAX.	MEMB.	FORCE	MAX.
	(LBS)	(PLF)	CSI (LC)	UNBRAC	LENGTH		(LBS)	CSI (LC)
R-TO	FROM	TO			FR-TO			
A-B	-1222 / 0	-102.1	-102.1	0.27 (1)	4.83	H-B	-369 / 0	0.06 (1)
B-C	-1273 / 0	-102.1	-102.1	0.26 (1)	4.77	H-C	0 / 825	0.19 (1)
C-D	-1117 / 0	-102.1	-102.1	0.22 (1)	5.06	C-G	0 / 813	0.14 (1)
D-E	-1071 / 0	-102.1	-102.1	0.21 (1)	5.16	G-D	-352 / 0	0.08 (1)
E-F	-762 / 0	0.0	0.0	0.05 (1)	7.81	A-H	0 / 1000	0.23 (1)
F-G	-773 / 0	0.0	0.0	0.05 (1)	7.81	G-E	0 / 873	0.20 (1)
H	0 / 0	-38.5	-38.5	0.09 (3)	10.00			
G	0 / 528	-38.5	-38.5	0.37 (2)	10.00			
F	0 / 0	-38.5	-38.5	0.06 (3)	10.00			

TOTAL WEIGHT = 46 lb

MMF

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 = 62.5 PSF

SPACING = 24.0 IN. OC

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, CBC 2012
- CSA 098-08, 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 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.39")
CALCULATED VERT. DEFL.(LL) = L/889 (0.10")
ALLOWABLE DEFL.(TL) = L/360 (0.39")
CALCULATED VERT. DEFL.(TL) = L/631 (0.17")

CSI: TC=0.27/1.00 (A-B:1), BC=0.37/1.00 (G-H:2),
WB=0.23/1.00 (A-H:1), SB=0.17/1.00 (A-B: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

AUTOSOLVE HEELS OFF

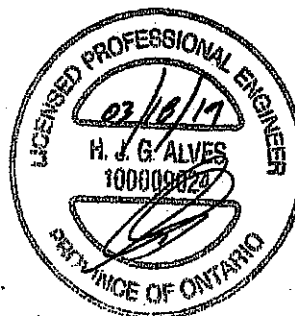
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1668

PLATE PLACEMENT TOL = 0.250 inches

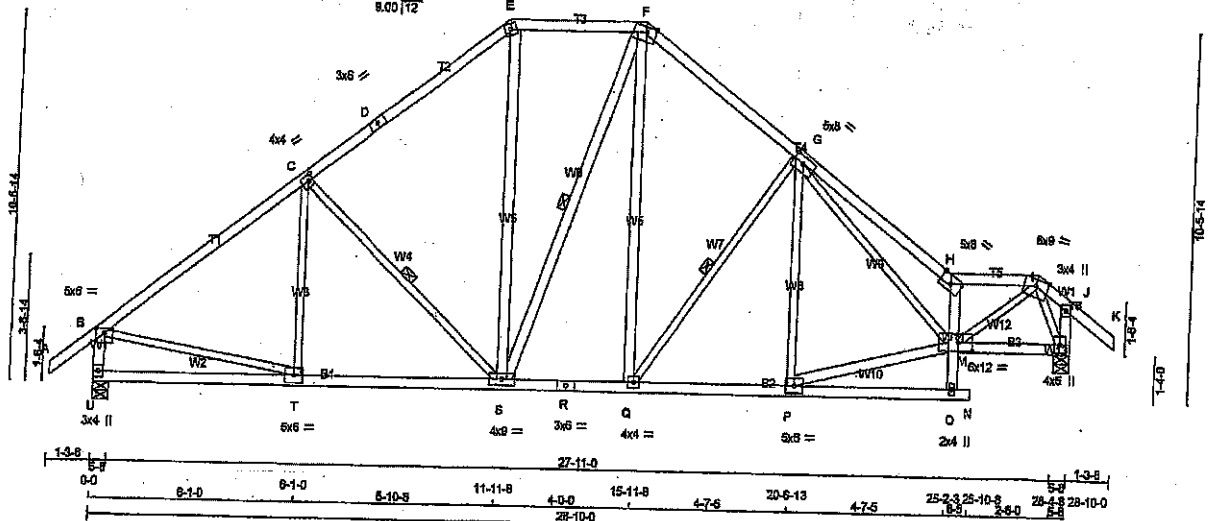
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP=0.70 (A) (INPUT = 0.80)
JSI METAL=0.29 (A) (INPUT = 1.00)



DRWG NO. TAM 1705572
STRUCTURAL
COMPONENT ONLY

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
200172-400374	T24	5	1	Preston 11		
Tamarack Roof Truss, Burlington						
Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Mon Mar 18 21:22:10 2018 Page 1						
ID: b5ampg41174dMrkT9JQOlyNxBs-K8oJNDhcrHTxJFzkD0wyZcGFcwDnnBJ1UOhnzZbGx						
25-3-25-10-8 27-10-8 28-10-30-1-8 1-8 2-8 11-8 13-8						
Scale = 1:50.0						



TOTAL WEIGHT = 5 X 150 = 750 lb

(MUF)

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 - H	2x4	DRY No.2	SPF
H - I	2x4	DRY No.2	SPF
I - K	2x4	DRY No.2	SPF
U - B	2x4	DRY No.2	SPF
L - J	2x4	DRY No.2	SPF
U - R	2x4	DRY No.2	SPF
R - N	2x4	DRY No.2	SPF
M - L	2x4	DRY No.2	SPF
ALL WEBS EXCEPT	2x3	DRY No.2	SPF
S - E	2x4	DRY No.2	SPF
S - F	2x4	DRY No.2	SPF
Q - F	2x4	DRY No.2	SPF
P - M	2x4	DRY No.2	SPF
O - H	2x4	DRY No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMWW-p	MT20	5.0	8.0	1.50	3.00
C TMWW-4	MT20	4.0	4.0	2.00	1.50
D TS-t	MT20	3.0	6.0		
E TTW-m	MT20	4.0	4.0		
F TTWW-m	MT20	5.0	8.0	1.75	3.25
G TMWW-W-t	MT20	5.0	8.0	2.25	3.50
H TTW-h	MT20	5.0	8.0	2.75	4.00
I TTWW-m	MT20	5.0	8.0	2.75	4.00
J TMV-p	MT20	3.0	4.0		
L BMVW-t	MT20	3.0	4.0		
M BMVW-W-t	MT20	5.0	12.0	3.00	5.25
O BMV-W	MT20	2.0	4.0		
P BMVW-t	MT20	5.0	8.0		
Q BMVW-4	MT20	4.0	4.0		
R BS-t	MT20	3.0	6.0		
S BMVW-t	MT20	4.0	8.0		
T BMVW-4	MT20	5.0	8.0		
U BMV-t	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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORIZ	DOWN	HORIZ		
U	2167	0	2167	0	5-8	5-8
L	2189	0	2189	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LOSE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
U	1611	915 / 0	304 / 0	0 / 0	0 / 0	392 / 0	0 / 0
L	1630	919 / 0	312 / 0	0 / 0	0 / 0	398 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.08 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

MAX. UNBRACED INTERIOR CHORD LENGTH = 4.75 FT

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

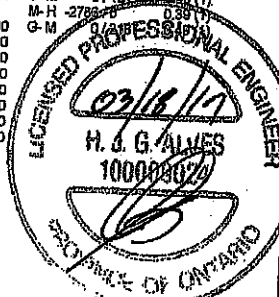
1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-S, F-S, G-Q.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	LC1 (PLF)	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	T-C	-87 / 182	0.05 (1)	
B-C	-2195 / 0	-102.1	-102.1	0.81 (1)	3.97	C-S	-549 / 0	0.28 (1)	
C-D	-1790 / 0	-102.1	-102.1	0.55 (1)	4.38	S-E	0 / 621	0.10 (1)	
D-E	-1790 / 0	-102.1	-102.1	0.55 (1)	4.38	S-F	-53 / 0	0.03 (1)	
E-F	-1403 / 0	-102.1	-102.1	0.23 (1)	5.28	Q-F	0 / 731	0.12 (1)	
F-G	-1803 / 0	-102.1	-102.1	0.34 (1)	4.64	Q-G	-735 / 0	0.33 (1)	
G-H	-4074 / 0	-102.1	-102.1	0.56 (1)	3.08	P-G	-235 / 88	0.20 (1)	
H-I	-3195 / 0	-102.1	-102.1	0.20 (1)	3.78	P-M	0 / 1692	0.27 (1)	
I-J	-58 / 0	-102.1	-102.1	0.10 (1)	6.25	M-I	0 / 2850	0.64 (1)	
J-K	0 / 42	-102.1	-102.1	0.14 (1)	10.00	I-L	-2084 / 0	0.32 (1)	
K-L	-2072 / 0	0.0	0.0	0.22 (1)	5.87	B-T	0 / 1826	0.41 (1)	
L-M	-289 / 0	0.0	0.0	0.03 (1)	7.81	O-M	0 / 121	0.40 (1)	
M-N	0 / 0	-38.5	-38.5	0.28 (3)	10.00	M-H	-2788 / 0	0.39 (1)	
N-O	0 / 1791	-38.5	-38.5	0.50 (2)	10.00	G-M	0 / 1826	0.41 (1)	
O-P	0 / 1422	-38.5	-38.5	0.34 (1)	10.00				
P-Q	0 / 1422	-38.5	-38.5	0.34 (1)	10.00				
Q-R	0 / 1841	-38.5	-38.5	0.44 (1)	10.00				
R-S	0 / 212	-38.5	-38.5	0.20 (2)	10.00				
S-T	0 / 0	-38.5	-38.5	0.01 (3)	10.00				
T-U	0 / 948	-38.5	-38.5	0.23 (2)	10.00				



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. O/C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 6.02/12

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, CBC 2012
- CSA 086-09, CSA 086-14
- TPC 2011, TPC 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) = $L/360$ (0.96")
CALCULATED VERT. DEFL. (LL) = $L/999$ (0.13")
ALLOWABLE DEFL. (TL) = $L/860$ (0.68")
CALCULATED VERT. DEFL. (TL) = $L/988$ (0.23")

CSI: TC=0.61/1.00 (B-C:1), BC=0.50/1.00 (S-T:2), WB=0.84/1.00 (I-M:1), SS=0.24/1.00 (B-C: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 (PSI)	SECTION (PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	618	354	1987
	798	1987	1658

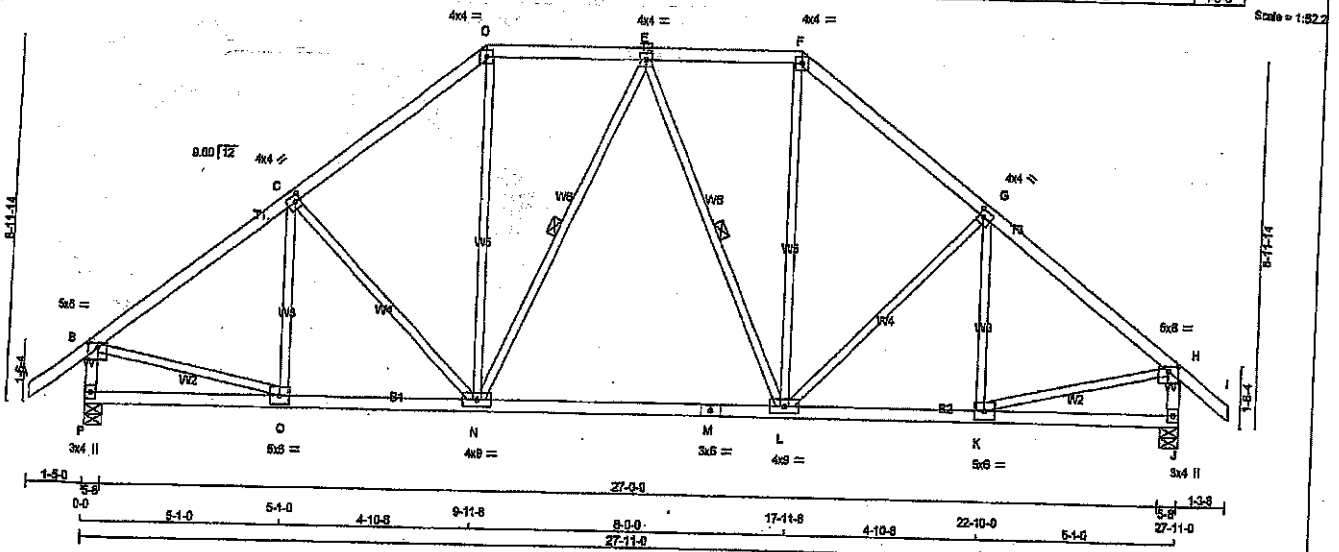
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

SI GRIP=0.89 (M) (INPUT = 0.90)
SI METAL=0.85 (F) (INPUT = 1.00)

DRWG NO. TAM 1905574
STRUCTURAL
COMPONENT ONLY

JOB NAME 200172-400374	TRUSS NAME T25	QUANTITY 1	PLY 1	JOB DESC. Preston 11	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Mon Mar 18 21:22:11 2019 Page 1	
ID:tr5ampg4ll74dMkT8JQOlyNxSe-oKM5bYhEebbowDYwnjRBQm8UicGKyivKYhDxR7zZbGw				27-11-0 28-28 1-3-8	



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

ALL WEBS
EXCEPT
2x3 DRY No.2
SPF

DRY: SEASONED LUMBER.

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG IN-SX	REQD BRG IN-SX
JT	VERT	DOWN	UP	
P	2118	0	0	5-8
J	2103	0	0	5-8

UNFACTORED REACTIONS	1ST CASE	MAX/MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW LIVE PERM. LIVE WIND DEAD SOIL
P	1572	888/0 283/0 0/0 0/0 381/0 0/0
J	1583	891/0 283/0 0/0 0/0 379/0 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 = 4.32 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORZ. LOAD (LBS)	MAX. FACTORED UNBRACED LENGTH (FT)	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED UNBRACED LENGTH (FT)
A-B	FR-TO	0/46	-102.1	-102.1	0.16 (1)	10.00	C-C	-212/64	0.08 (1)
B-C	FR-TO	-2093/0	-102.1	-102.1	0.40 (1)	4.32	C-N	-341/0	0.32 (1)
C-D	FR-TO	-1868/0	-102.1	-102.1	0.38 (1)	4.54	N-D	0/750	0.17 (1)
D-E	FR-TO	-1471/0	-102.1	-102.1	0.22 (1)	5.18	L-F	0/750	0.17 (1)
E-F	FR-TO	-1471/0	-102.1	-102.1	0.22 (1)	5.18	L-G	-341/0	0.32 (1)
F-G	FR-TO	-1868/0	-102.1	-102.1	0.38 (1)	4.54	K-G	-212/64	0.09 (1)
G-H	FR-TO	-2093/0	-102.1	-102.1	0.40 (1)	4.32	B-O	0/1749	0.39 (1)
H-I	FR-TO	0/42	-102.1	-102.1	0.14 (1)	10.00	K-H	0/1749	0.39 (1)
I-J	FR-TO	-2031/0	0.0	0.0	0.21 (1)	5.93	N-E	-287/0	0.17 (1)
J-K	FR-TO	-2018/0	0.0	0.0	0.21 (1)	5.94	E-L	-287/0	0.17 (1)
P-Q	FR-TO	0/0	-38.5	-38.5	0.16 (3)	10.00			
Q-N	FR-TO	0/1703	-38.5	-38.5	0.51 (2)	10.00			
N-M	FR-TO	0/1580	-38.5	-38.5	0.48 (2)	10.00			
M-L	FR-TO	0/1580	-38.5	-38.5	0.48 (2)	10.00			
L-K	FR-TO	0/1703	-38.5	-38.5	0.51 (2)	10.00			
K-J	FR-TO	0/0	-38.5	-38.5	0.16 (3)	10.00			

TOTAL WEIGHT = 131 lb

DESIGN CRITERIA

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

SPACING = 24.0 IN. O.C.

LOADING IN PLAT 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 2010, OBC 2012
- CSA 088-09, 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) = 1/360 (0.93")
CALCULATED VERT. DEFL.(LL) = 1/999 (0.19")
ALLOWABLE DEFL.(TL) = 1/360 (0.93")
CALCULATED VERT. DEFL.(TL) = 1/999 (0.22")

CSI: TO=0.40/1.00 (B-C:1), BC=0.51/1.00 (N-O:2), WB=0.38/1.00 (H-K:1), SS=0.20/1.00 (E-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

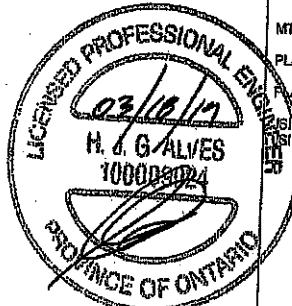
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1367 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

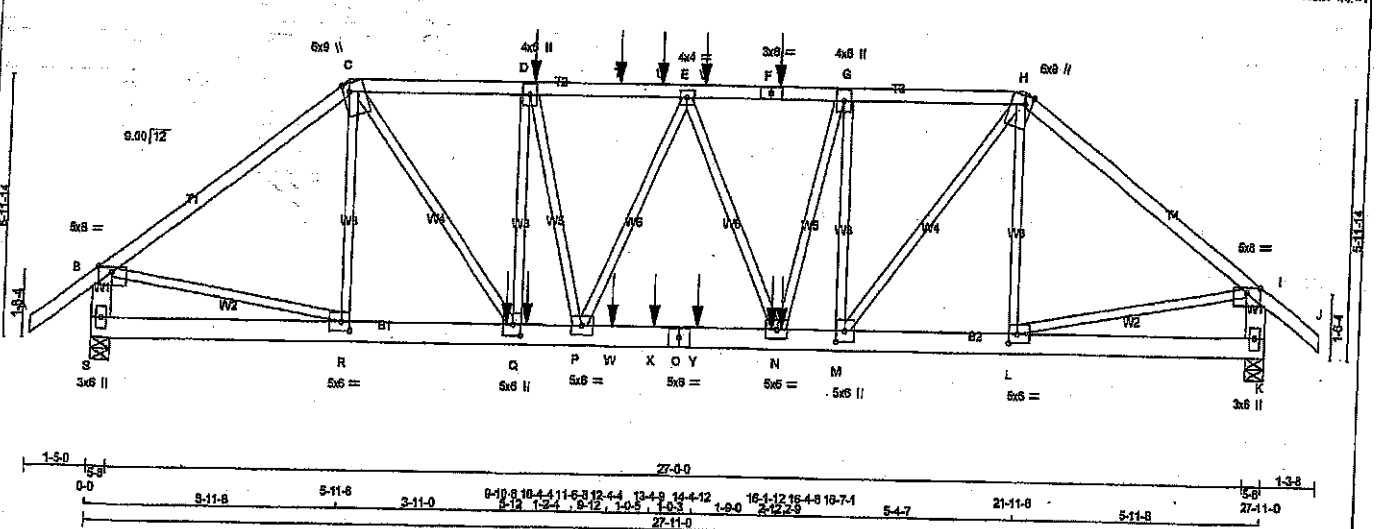
PLATE ROTATION TOL. = 5.0 Deg.

GRIP=0.90 (C) (INPUT=0.90)
METAL=0.58 (M) (INPUT=1.00)



DRWG NO. TAM 1705575
STRUCTURAL
COMPLEMENT ONLY

JOB NAME 200172-400374	TRUSS NAME T27	QUANTITY 1	PLY 2	JOB DESC. Preston 11	TRUSS DESC.	DRWG NO.
Tamarack Roof Truss, Burlington						
Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Mon Mar 18 21:27:18 2019 Page 1						



CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY No.2	SPF
C - F	2x4	DRY No.2	SPF
F - H	2x4	DRY No.2	SPF
H - J	2x4	DRY No.2	SPF
J - L	2x4	DRY No.2	SPF
L - M	2x4	DRY No.2	SPF
M - O	2x4	DRY No.2	SPF
O - K	2x4	DRY No.2	SPF

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS: (0.122'X3') SPIRAL NAILS		
A-C	12	TOP SIDE(61.0)
C-F	12	TOP SIDE(0.0)
F-H	12	TOP
H-J	12	TOP
J-L	12	TOP
L-M	12	TOP
M-O	12	TOP
O-K	12	TOP
BOTTOM CHORDS: (0.122'X3') SPIRAL NAILS		
S-O	12	SIDE(183.1)
O-K	12	SIDE(183.1)
WEBS: (0.122'X3') SPIRAL NAILS		
D-Q	5	SIDE(233.7)
2x3	5	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3.0 INCH NAILS.

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

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

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMW-p	MT20	5.0	8.0	Edge	
C TTWW+m	MT20	6.0	9.0	Edge 2.00	
D TMW+H	MT20	4.0	6.0		
E TMW+L	MT20	4.0	4.0		
F TS4	MT20	3.0	8.0		
G TMW+H	MT20	4.0	6.0		
H TTWW+m	MT20	6.0	9.0	Edge 2.00	
I TMW-p	MT20	5.0	8.0	Edge	
K BMW+P	MT20	3.0	6.0		
L BMW+H	MT20	5.0	6.0	2.50 2.50	
M BMW+H	MT20	5.0	6.0	3.00 2.25	
N BMW+H	MT20	5.0	6.0		
O BS4	MT20	5.0	6.0		
P BMW+H	MT20	5.0	6.0		
Q BMW+H	MT20	5.0	6.0	3.00 2.25	
R BMW+H	MT20	5.0	6.0	2.50 2.50	
S BMW+P	MT20	3.0	6.0		

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	BRG	IN-SX	BRG	IN-SX
S	4438	0	4438	0	0	5-8	5-8	5-8	5-8
K	4305	0	4305	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS		1ST LCASE		MAX/MIN COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
S	3291	1882/0	589/0	0/0	0/0
K	3180	1839/0	589/0	0/0	0/0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.49 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MAX. FACTORED		FACTORED		MAX. FACTORED		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	MAX. CSI (LC)	MEMB.	FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0/46	-102.1 -102.1	0.08 (1)	R-C	-503/0	0.13 (1)	
B-C	-5191/0	-102.1 -102.1	0.08 (1)	C-Q	0/3888	0.48 (1)	
C-D	-8460/0	-102.1 -102.1	0.28 (1)	Q-D	-1534/0	0.41 (1)	
D-T	-5703/0	-102.1 -102.1	0.33 (1)	M-G	-2588/0	0.59 (1)	
T-U	-5703/0	-102.1 -102.1	0.33 (1)	M-H	0/3834	0.47 (1)	
U-E	-5703/0	-102.1 -102.1	0.33 (1)	L-H	-580/0	0.15 (1)	
E-V	-8840/0	-102.1 -102.1	0.34 (1)	D-P	0/880	0.12 (1)	
V-F	-8840/0	-102.1 -102.1	0.34 (1)	P-E	-582/0	0.19 (1)	
F-G	-8840/0	-102.1 -102.1	0.34 (1)	E-N	-240/0	0.08 (1)	
G-H	-8280/0	-102.1 -102.1	0.28 (1)	N-G	0/2170	0.27 (1)	
H-I	-5021/0	-102.1 -102.1	0.85 (1)	B-R	0/4218	0.52 (1)	
I-J	0/42	-102.1 -102.1	0.08 (1)	L-I	0/4078	0.54 (1)	
S-B	-4340/0	0.0	0.0 0.16 (1)				
K-I	-4200/0	0.0	0.0 0.15 (1)				
S-R	0/0	-38.5	-38.5 0.08 (3)				
R-Q	0/4138	-38.5	-38.5 0.31 (1)				
Q-P	0/6460	-38.5	-38.5 0.44 (1)				
P-W	0/6933	-38.5	-38.5 0.80 (1)				
W-X	0/6933	-38.5	-38.5 0.80 (1)				
X-O	0/6933	-38.5	-38.5 0.80 (1)				
O-Y	0/6933	-38.5	-38.5 0.80 (1)				
Y-N	0/6933	-38.5	-38.5 0.80 (1)				
N-M	0/6291	-38.5	-38.5 0.52 (1)				
M-L	0/4001	-38.5	-38.5 0.33 (1)				
L-K	0/0	-38.5	-38.5 0.08 (2)				

03/10/19

H. J. G. ALVES

100009024

LICENSED PROFESSIONAL ENGINEER

FACTORED CONCENTRATED LOADS (LBS)						
LOC.	LOC	MAX.	MAX	FACE	DIR	TYPE
10-4-4	-128	-128	—	BACK	VERT	TOTAL
18-1-12	-128	-128	—	BACK	VERT	TOTAL
16-1-12	-58	-74	—	BACK	VERT	TOTAL
16-4-8	-2082	-2082	—	BACK	VERT	TOTAL
9-10-8	-1539	-1539	—	BACK	VERT	TOTAL
10-4-4	-58	-74	—	BACK	VERT	TOTAL
12-4-4	-128	-128	—	BACK	VERT	TOTAL
13-4-9	-128	-128	—	BACK	VERT	TOTAL
14-4-12	-128	-128	—	BACK	VERT	TOTAL
12-4-4	-58	-74	—	BACK	VERT	TOTAL
13-4-9	-58	-74	—	BACK	VERT	TOTAL

TOTAL WEIGHT = 2 X 148 = 297 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 28.0 PSF
DL = 6.0 PSF
BOT CH. LL = 10.8 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.6 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 8 OF BCBC 2018, OBC 2012
- CSA 088-09, 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 (0.93")
CALCULATED VERT. DEFL.(LL) = L/999 (0.14")
ALLOWABLE DEFL.(TL) = L/360 (0.93")
CALCULATED VERT. DEFL.(TL) = L/689 (0.23")

CSI: TC=0.69/1.00 (B-C-1), BC=0.90/1.00 (N-P-1), WB=0.69/1.00 (G-H-1), SS=0.17/1.00 (D-E-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

AUTOSOLVE HELLS OFF

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (FS) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1567 788 1687 1686

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (C) (INPUT = 0.80)
JSI METAL = 0.76 (C) (INPUT = 1.00)

DRWG NO. TAM 1905571
STRUCTURAL
1/2

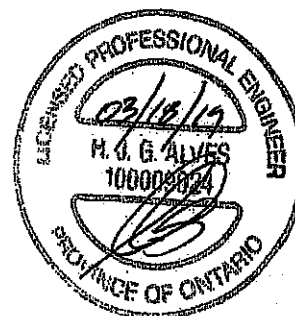
CONTINUED ON PAGE 2

JOB NAME 200172-400374	TRUSS NAME T27	QUANTITY 1	PLY 2	JOB DESC. Preston 11	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.230 \$ Nov 17 2018 MiTek Industries, Inc. Mon Mar 18 21:27:18 2019 Page 2
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Edge - INDICATES REFERENCE CORNER OF PLATE
 TOUCHES EDGE OF CHORD.

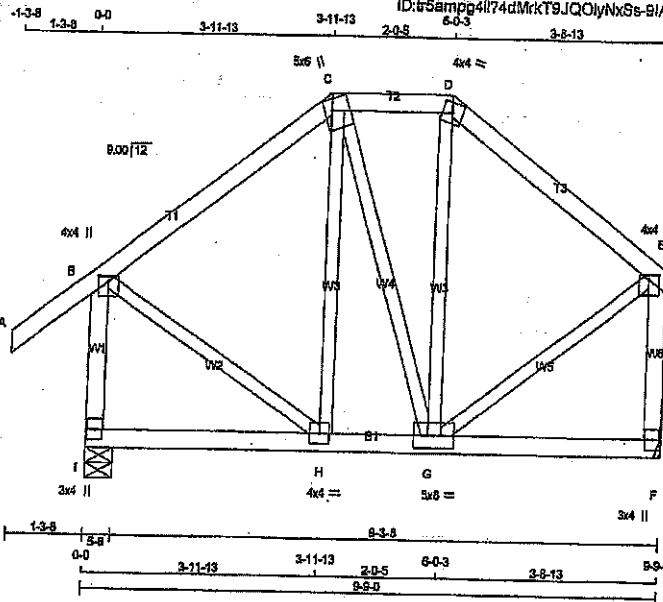
FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LCH	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
Y	14-4-12	-58	-74	—	BACK	VERT	TOTAL	—	—



DWG NO. TAM **T1905577**
 STRUCTURAL
 COORDINATOR **7/2**

JOB NAME 200172-400374	TRUSS NAME T28	QUANTITY 1	PLY 1	JOB DESC. Preston 11	TRUSS DESG.	DRWG NO.
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Hamrack Roof Truss, Burlington



Scale = 1/32

LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - C	2x4	DRY	No.2
C - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
E - F	2x4	DRY	No.2
F - G	2x4	DRY	No.2
G - H	2x4	DRY	No.2
H - I	2x4	DRY	No.2
I - F	2x4	DRY	No.2

ALL WEBS 2x3 DRY EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.00	2.00
C	TTWV+m	MT20	5.0	8.0	2.25	1.50
D	TTWV+m	MT20	4.0	4.0		
E	TMVW+p	MT20	4.0	4.0	1.00	2.00
F	BMV1+p	MT20	3.0	4.0		
G	BMVWV+L	MT20	5.0	8.0		
H	BMVW+L	MT20	4.0	4.0		
I	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
I	826	826	0	0
F	685	685	0	0

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

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX/MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
I	609	383 / 0	102 / 0	0 / 0	143 / 0	0 / 0
F	512	263 / 0	102 / 0	0 / 0	127 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 42	-102.1 -102.1	0.14 (1)	H-C	-55 / 76	0.03 (1)	
B-C	-379 / 0	-102.1 -102.1	0.21 (1)	C-G	-24 / 0	0.01 (1)	
C-D	-294 / 0	-102.1 -102.1	0.05 (1)	G-D	-72 / 82	0.04 (1)	
D-E	-370 / 0	-102.1 -102.1	0.18 (1)	B-H	0 / 365	0.08 (1)	
E-F	-760 / 0	0.0 0.0	0.12 (1)	G-E	0 / 361	0.08 (1)	
F-G	-622 / 0	0.0 0.0	0.10 (1)				
I-H	0 / 0	-38.5 -38.5	0.11 (3)				
H-G	0 / 302	-38.5 -38.5	0.13 (2)				
G-F	0 / 0	-38.5 -38.5	0.09 (3)				

TOTAL WEIGHT = 53 lb

(MIP)

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 PLAT SECTION BASED ON A SLOPE OF 6.00/12

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2016, CBC 2012
- CSA 089-09, CSA 088-14
- TPC 2011, TPC 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) = $L/669$ (0.01")
ALLOWABLE DEFL.(TL) = $L/360$ (0.33")
CALCULATED VERT. DEFL.(TL) = $L/669$ (0.02")

CSI: TC=0.21/1.00 (B-C:1), SC=0.13/1.00 (G-H:2),
WB=0.08/1.00 (E-G:1), SSI=0.13/1.00 (B-C:1)

DOL LUMBER=1.00 NAIL=1.00 L8 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

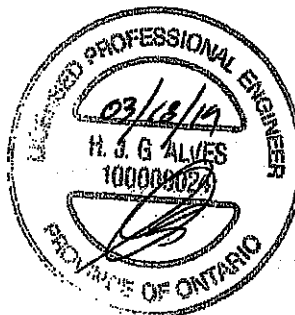
PLATE GRIP (DRY)	SHEAR	SECTION (PL)
(PSI)	(PL)	(PL)
MAX MIN	MAX MIN	MAX MIN
MT20	616 354 1867 783 1867 1856	

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

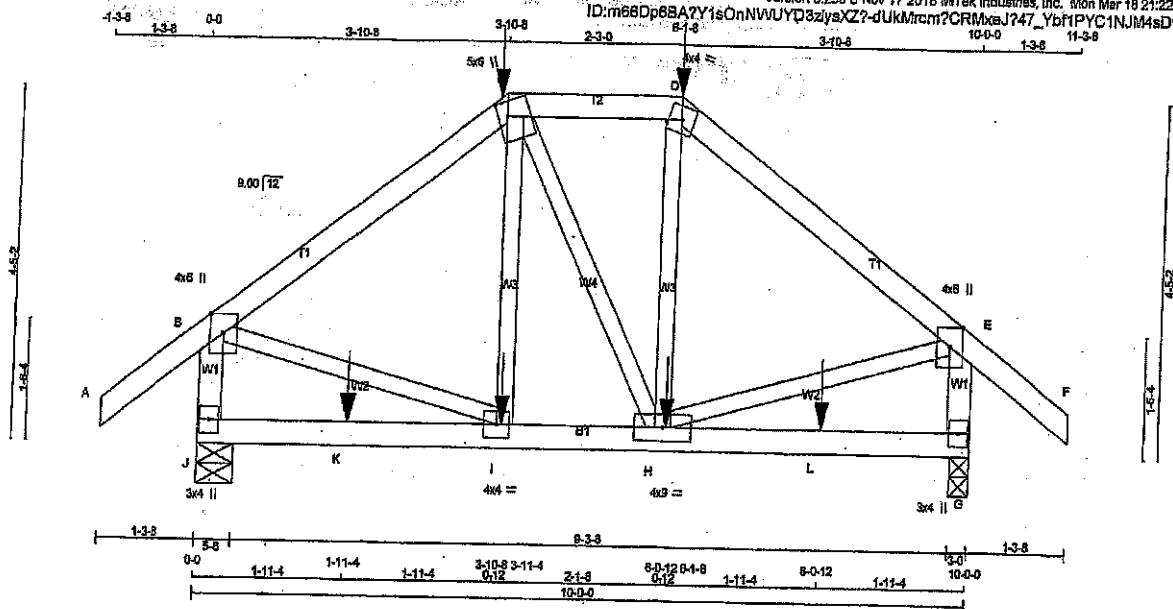
JSI GRIP= 0.50 (B) (INPUT = 0.90)
JSI METAL= 0.15 (B) (INPUT = 1.00)

DRWG NO. TAM 1705578
STRUCTURAL
CONSTRUCTION ONLY



JOB NAME 200172-400374	TRUSS NAME T29	QUANTITY 1	PLY 1	JOB DESC. Preston 11	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Version 8.230 S Nov 17 2018 MTEK Industries, Inc. Mon Mar 18 21:22:17 2018 Page 1
 ID:m68Dp6BA7Y1sOnNVUYP3zlyXZ?dUkMrcm?CRMxaj747_Yb1PYC1NJMsDwdgGenzZbGg
 Scale = 1/25.6



LUMBER

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

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW+p	MT20	4.0	8.0	Edge	
C TTVW+m	MT20	5.0	8.0	2.25	1.50
D TTVW-m	MT20	4.0	4.0		
E TMVW+p	MT20	4.0	8.0	Edge	
G BMV1+p	MT20	3.0	4.0		
H BMVW+m	MT20	4.0	8.0		
I BMVW-m	MT20	4.0	4.0		
J 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	MAXIMUM FACTORED	INPUT	REQD
GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT	JT VERT	IN-SX	IN-SX
J 1120	0	5-8	5-8
G 1119	0	3-0	3-0

UNFACTORED REACTIONS						
1ST LCASE		MAX./MIN. COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
J	828	482/0	144/0	0/0	0/0	202/0
G	828	482/0	144/0	0/0	0/0	201/0

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

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.21 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
 TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED LCI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED LCI (LC)	
FR-TO		FROM TO	LENGTH	FR-TO		LENGTH	
A-B	0/42	-102.1	-102.1 0.15 (1)	10.00	I-C	-18/140	0.04 (3)
B-C	-832/0	-102.1	-102.1 0.31 (1)	6.22	C-H	0/8	0.00 (3)
C-D	-665/0	-102.1	-102.1 0.10 (1)	8.25	H-D	-14/145	0.04 (3)
D-E	-833/0	-102.1	-102.1 0.31 (1)	8.21	B-I	0/693	0.17 (1)
E-F	0/42	-102.1	-102.1 0.15 (1)	10.00	H-E	0/694	0.17 (1)
J-B	-1039/0	0.0	0.0 0.12 (1)	7.68			
G-E	-1037/0	0.0	0.0 0.12 (1)	7.68			
J-K	0/0	-38.5	-38.5 0.17 (3)	10.00			
K-I	0/0	-38.5	-38.5 0.17 (3)	10.00			
I-H	0/863	-38.5	-38.5 0.22 (2)	10.00			
H-L	0/0	-38.5	-38.5 0.17 (3)	10.00			
L-G	0/0	-38.5	-38.5 0.17 (3)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	3-10-8	-204	-204		BACK	VERT	TOTAL		
D	6-1-8	-204	-204		BACK	VERT	TOTAL		
H	6-0-12	-36	-46		BACK	VERT	TOTAL		
I	3-11-4	-36	-46		BACK	VERT	TOTAL		
K	1-11-4	-36	-46		BACK	VERT	TOTAL		
L	6-0-12	-36	-46		BACK	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. O/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, NBCC 2015

THIS DESIGN COMPLIES WITH:
 - PART 9 OF NBC 2010, NBC 2012
 - CSA 088-09, CSA 089-14
 - TPIC 2011, TPIC 2014

(55% OF 37.6 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.33")
 CALCULATED VERT. DEFL.(LL) = L/969 (0.02")
 ALLOWABLE DEFL.(TL) = L/360 (0.33")
 CALCULATED VERT. DEFL.(TL) = L/969 (0.03")

CSI: TC=0.31/1.00 (D-E:1), BC=0.22/1.00 (H-I:2), WB=0.17/1.00 (E-H:1), SS=0.14/1.00 (B-C: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

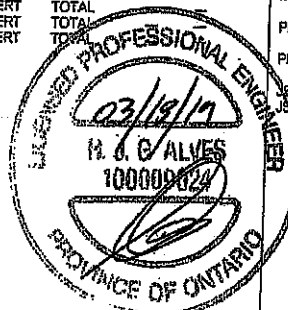
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
 PLATE GRIP(DRY) SHEAR SECTION
 (PSI) (PLI) (PLI)
 MAX MIN MAX MIN MAX MIN
 MT20 618 354 1657 788 1997 1658

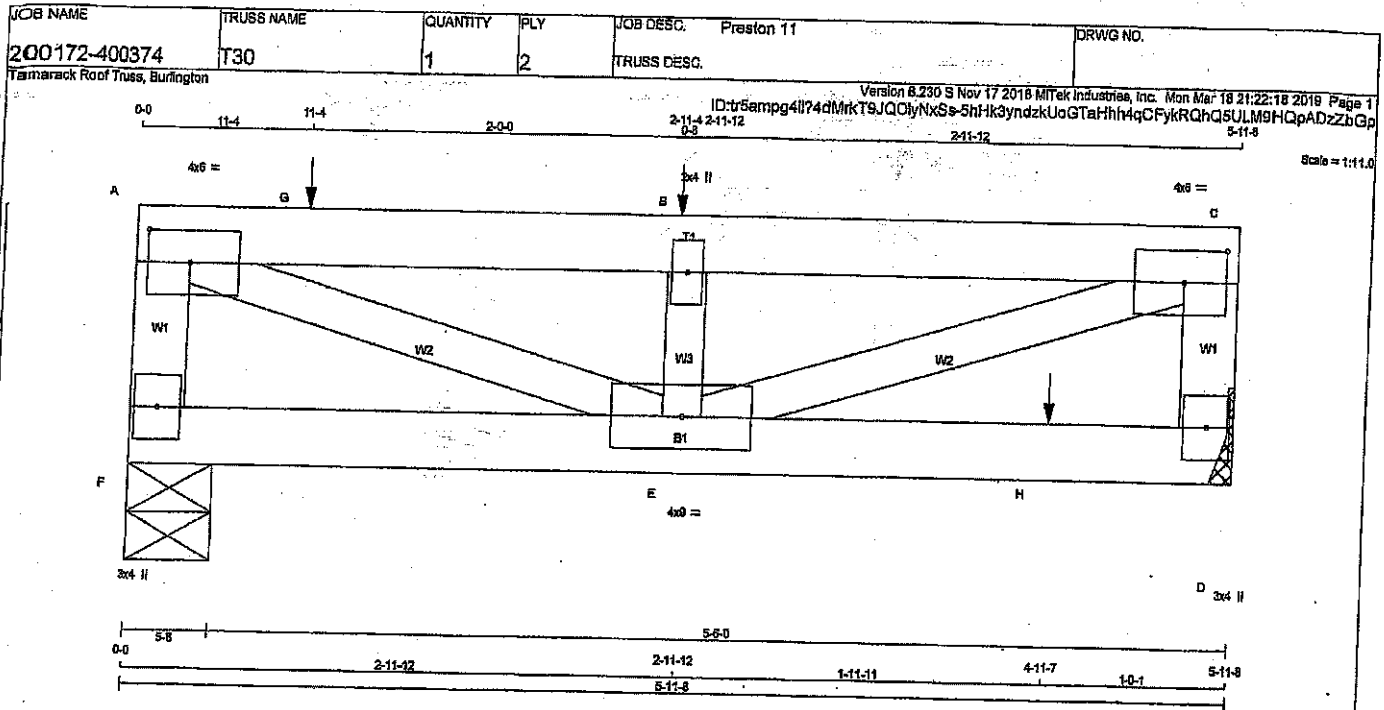
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

SLIP GRIP= 0.65 (I) (INPUT= 0.90)
 SLIP METAL= 0.45 (E) (INPUT= 1.00)



DRWG NO. TAM 17405574
 STRUCTURAL
 CONSULTING ONLY



LUMBER
N.L.G.A. RULES

CHORDS	SIZE	LUMBER	DESCR.
F - A	2x4	DRY	No.2
A - C	2x4	DRY	No.2
D - C	2x4	DRY	No.2
F - D	2x4	DRY	No.2

ALL WEBS 2x3 DRY SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122'x3') SPIRAL NAILS		
F-A 1	12	TOP
A-C 1	12	SIDE(0.0)
C-D 1	12	TOP
BOTTOM CHORDS : (0.122'x3') SPIRAL NAILS		
F-D 1	12	SIDE(14.0)
WEBS : (0.122'x3') SPIRAL NAILS		
2x3 1	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-4	MT20	4.0	6.0	2.00	2.75
B	TMVW-4	MT20	2.0	4.0		
C	TMVW-4	MT20	4.0	6.0	2.00	2.75
D	BMV1+p	MT20	3.0	4.0		
E	BMVWVW-1	MT20	4.0	9.0		
F	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	DOWN	IN-SX	IN-SX
F	1317	0	5-8	5-8
D	1578	0	MECHANICAL	MECHANICAL

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

UNFACTORED REACTIONS

1ST CASE	MAX/MIN. COMPONENT REACTIONS
JT	COMBINED SNOW LIVE PERM/LIVE WIND DEAD SOIL
F	980 533/0 165/0 0/0 0/0 283/0 0/0
D	1176 639/0 205/0 0/0 0/0 331/0 0/0

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

BRACING

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

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

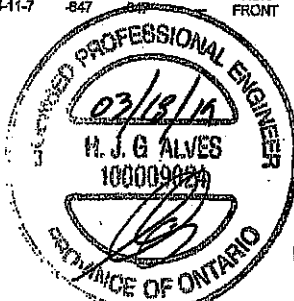
LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. COMBINED LCI (LC)	MAX. UNBRACED LENGTH (LC)	WEBS	MAX. FACTORED FORCE (LBS)	MAX. COMBINED LCI (LC)
FR-TO		FROM TO			FR-TO		
F-A	-1245/0	0.0	0.0	0.07 (1)	7.81	A-E	0/2820
A-G	-2682/0	-102.1	-102.1	0.21 (1)	5.33	E-B	-1408/0
G-B	-2682/0	-102.1	-102.1	0.21 (1)	5.33	E-C	0/2820
B-C	-2682/0	-102.1	-102.1	0.10 (1)	5.48		
D-C	-1078/0	0.0	0.0	0.06 (1)	7.81		
F-E	0/0	-63.5	-63.5	0.08 (3)	10.00		
E-H	0/0	-63.5	-63.5	0.35 (1)	10.00		
H-D	0/0	-63.5	-63.5	0.35 (1)	10.00		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
B	2-11-4	-1017	-1017		TOP	VERT	TOTAL		
G	11-4	-244	-244		BACK	VERT	TOTAL		
H	4-11-7	-847	-847		FRONT	VERT	TOTAL		



DWG NO. TAM 17105580
STRUCTURAL
COMPUTER FILE

TOTAL WEIGHT = 2 X 20 = 41 lb

DESIGN CRITERIA

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

SPECIFIED LOADS:

TOP CH.	LL = 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

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

*** NON STANDARD GIRDER ***
ADD'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 NBCC 2010, CBC 2012
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

(65 % 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 (0.03")
ALLOWABLE DEFL. (TL) = L/360 (0.20")
CALCULATED VERT. DEFL. (TL) = L/999 (0.05")

CSI: TC=0.21/1.00 (A-B:1), BC=0.35/1.00 (D-E:1), WB=0.35/1.00 (A-E:1), SS=0.21/1.00 (D-E: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 (PSI)	SECTION (PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1667 788

PLATE PLACEMENT TOL. = 0.250 inches

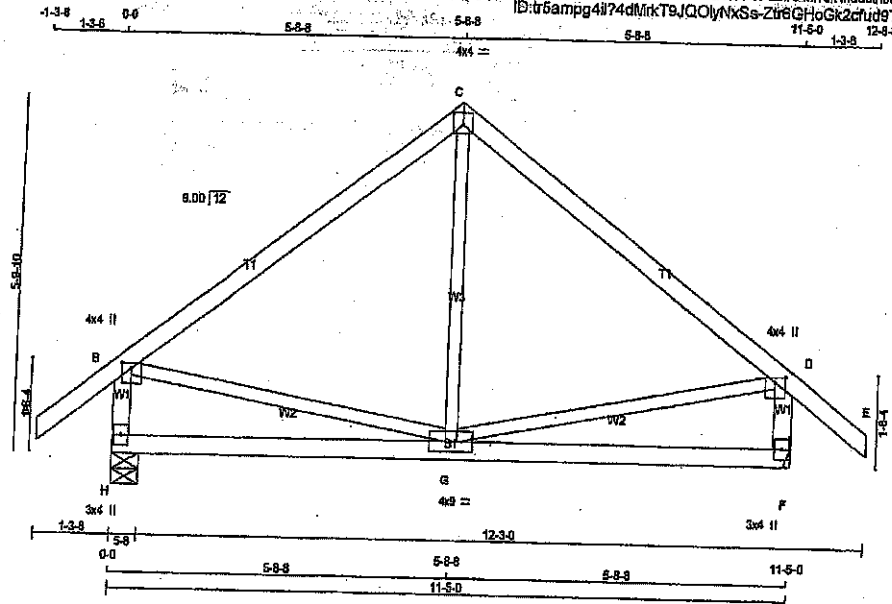
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.82 (C) (INPUT = 0.80)
JSI METAL=0.33 (C) (INPUT = 1.00)

JOB NAME 200172-400374	TRUSS NAME T31	QUANTITY 3	PLY 1	JOB DESC. Preston 11	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.290 S Nov 17 2018 MITek Industries, Inc. Mon Mar 18 21:22:19 2019 Page 1
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Scale = 1:34.6

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW/p	MT20	4.0	4.0	1.00	2.00
C TTW/p	MT20	4.0	4.0	2.25	2.00
D TMVW/p	MT20	4.0	4.0	1.00	2.00
F BMV1/p	MT20	3.0	4.0		
G BMVWW/t	MT20	4.0	9.0		
H BMV1/p	MT20	3.0	4.0		

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQ'D
JT	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG
H	943	0	943	0	5-8
F	943	0	943	0	5-8

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
H	698	412/0	120/0	0/0	0/0	165/0
F	698	412/0	120/0	0/0	0/0	165/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. CS (LC)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO		FR-TO	
A-B	0/42	-102.1 -102.1	0.14 (1)	G-C	0/254
B-C	-557/0	-102.1 -102.1	0.43 (1)	B-G	0/455
C-D	-557/0	-102.1 -102.1	0.43 (1)	G-D	0/455
D-E	0/42	-102.1 -102.1	0.14 (1)		
H-B	-860/0	0.0 0.0	0.09 (1)		
F-D	-860/0	0.0 0.0	0.09 (1)		
H-G	0/0	-38.5 -38.5	0.29 (3)		
G-F	0/0	-38.5 -38.5	0.29 (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

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 8, NBC 2010, NBC 2015

THIS DESIGN COMPLIES WITH:
- PART 8 OF NBC 2010, CBC 2012
- CSA 086-06, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 37.0 P.S.F. G.S.L. PLUS 0.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = $L/360$ (0.38")
CALCULATED VERT. DEFL. (LL) = $L/998$ (0.03")
ALLOWABLE DEFL. (TL) = $L/360$ (0.38")
CALCULATED VERT. DEFL. (TL) = $L/998$ (0.05")

CSI: TC=0.43/1.00 (B-C:1), BC=0.28/1.00 (G-H:3),
WB=0.10/1.00 (D-G:1), SS=0.16/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL = 0.280 inches

PLATE ROTATION TOL = 5.0 Deg.

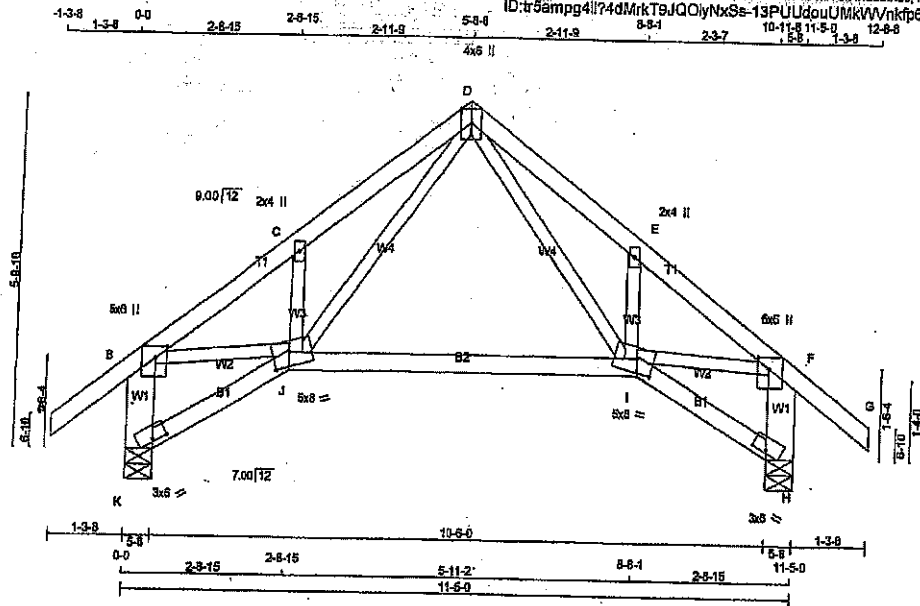
JSI GRIP = 0.83 (D) (INPUT = 0.90)
JSI METAL = 0.22 (D) (INPUT = 1.00)



DRWG NO. TAM **P405581**
STRUCTURAL
CHECKED BY

JOB NAME 200172-400374 Tamarack Roof Truss, Burlington	TRUSS NAME T31S	QUANTITY 2	PLY 1	JOB DESC. Preston 11	TRUSS DESC.	DRWG NO.
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Version 8.230 S Nov 17 2018 MITek Industries, Inc. Mon Mar 18 21:22:20 2019 Page 1
ID: 5ampg4ll74dMrkT9JQOlyNxSe-13PUldouUMKwVnkp66IHg156EMmZQ3fcbvWf6ZzhGn
10-11-11-5-9 12-0-0
Scale = 1:35.0



LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - G	2x4	DRY	No.2
K - B	2x4	DRY	No.2
H - F	2x4	DRY	No.2
K - J	2x4	DRY	No.2
J - I	2x4	DRY	No.2
I - H	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	TMVWw	MT20	5.0	6.0 2.25 2.25
C	TMVWw	MT20	2.0	4.0
D	TMVWw	MT20	4.0	6.0 Edge
E	TMVWw	MT20	2.0	4.0
F	TMVWw	MT20	5.0	6.0 2.25 2.25
H	BVM1-I	MT20	5.0	6.0 0.50 3.00
I	BBVWw-m	MT20	5.0	6.0 2.75 3.50
J	BBVWw-m	MT20	5.0	6.0 2.75 3.50
K	BVM1-I	MT20	3.0	6.0 0.50 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 GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
K	943	0	943	0	0
H	943	0	943	0	0

UNFACTORED REACTIONS

1ST CASE		MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
JT	COMBINED	SNOW	LIVE			
K	698	412/0	120/0	0/0	0/0	165/0
H	698	412/0	120/0	0/0	0/0	165/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.60 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MAX. UNBRACED LENGTH	WEBS	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)
MEMB.	FR-TO					MEMB.		
A-B	0/42	-102.1	-102.1	0.14 (1)	10.00	D-I	0/898	0.15 (1)
B-C	-1125/0	-102.1	-102.1	0.10 (1)	5.60	E-H	-341/0	0.05 (1)
C-D	-1157/0	-102.1	-102.1	0.11 (1)	5.80	J-K	0/898	0.15 (1)
D-E	-1157/0	-102.1	-102.1	0.11 (1)	5.80	J-K	-341/0	0.05 (1)
E-F	-1125/0	-102.1	-102.1	0.10 (1)	5.60	B-J	0/913	0.21 (1)
F-G	0/42	-102.1	-102.1	0.14 (1)	10.00	I-F	0/813	0.21 (1)
K-B	-891/0	0.0	0.0	0.06 (1)	7.81			
H-F	-891/0	0.0	0.0	0.06 (1)	7.81			
K-J	0/0	-38.5	-38.5	0.07 (3)	10.00			
J-I	0/514	-38.5	-38.5	0.36 (2)	10.00			
I-H	0/0	-38.5	-38.5	0.07 (3)	10.00			

TOTAL WEIGHT = 2 X 53 = 107 lb

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	=	52.6	PSF

SPACING = 24.0 IN. O.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 2016, OBC 2012
- CSA 088-09, CSA 088-14
- TPO 2011, TPC 2014

(55 % OF 37.5 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.38")
CALCULATED VERT. DEFL. (LL) = L/898 (0.10")
ALLOWABLE DEFL. (TL) = L/360 (0.38")
CALCULATED VERT. DEFL. (TL) = L/898 (0.16")

CSI: TC=0.14/1.00 (F-G:1), BC=0.89/1.00 (H-J:2), WB=0.21/1.00 (F-I:1), SB=0.12/1.00 (I-J:3)

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

AUTOSOLVE HEELS OFF

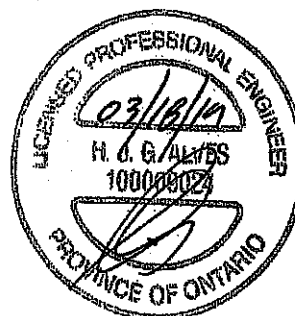
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 61B 354 1657 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

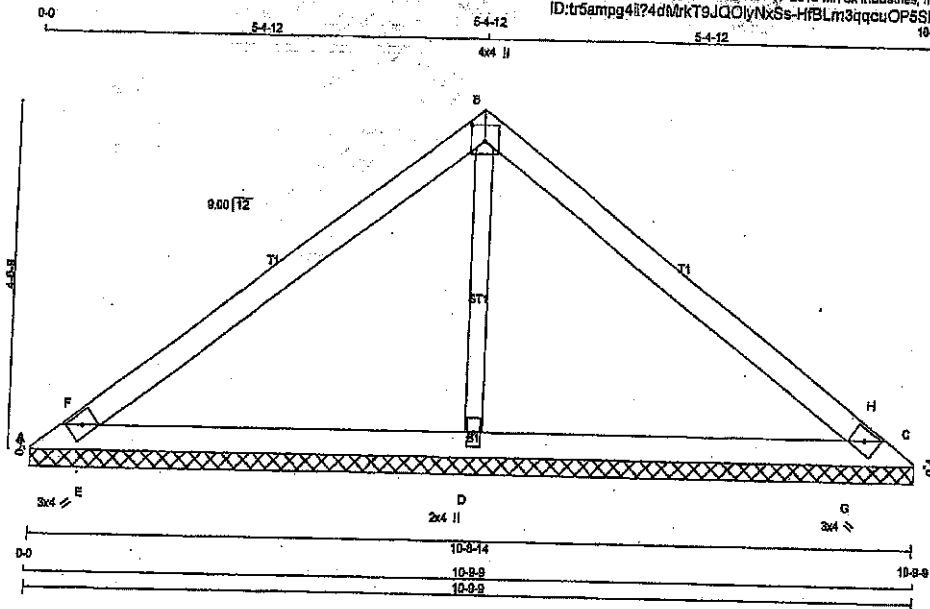
JSI GRIP=0.80 (F) (INPUT = 0.80)
JSI METAL=0.46 (F) (INPUT = 1.00)



DRWG NO. TAM T1905582
STRUCTURAL
CENT. COMPANY ONLY

JOB NAME 200172-400371	TRUSS NAME V1	QUANTITY 1	PLY 1	JOB DESC. Preston 11	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.		Version 6.230 S Nov 17 2016 Mitek Industries, Inc. Mon Mar 18 20:53:27 2019 Page 1 ID:tr5ampg4i74dMkT9JQOlyNxSs-HfBLm3qqcuOP5SlnfVWYDlt.fv60dva6TqWzZbhs	

Scale = 1/24.0



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

PLATES (table in inches)					
JT	TYPE	PLATES	W	LEN	Y X
A	TBM1-h	MT20	3.0	4.0	
B	TTW+p	MT20	4.0	4.0	2.25 2.00
C	TBM1-h	MT20	3.0	4.0	
D	BMW1+w	MT20	2.0	4.0	

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG (IN-SX)	REQD BRG (IN-SX)
	VERT	HORZ	DOWN	HORZ UPLIFT		
A	5	0	8	0	10-8-14	10-8-14
C	5	0	8	0	10-8-14	10-8-14
D	1500	0	1500	0	10-8-14	10-8-14

UNFACTORED REACTIONS

JT	1ST CASE COMBINED		MAX/MIN. COMPONENT REACTIONS		PERM. LIVE WIND	DEAD	SOIL
	SNOW	LIVE	SNOW	LIVE			
A	5	0	3/0	0/0	0/0	2/0	0/0
C	5	0	3/0	0/0	0/0	2/0	0/0
D	1119	625/0	219/0	0/0	0/0	275/0	0/0

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

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)		FACTORED VERT. LOAD (LBS)		MAX. UNBRACED LENGTH (FT)	WEBS MAX. FACTORED FORCE (LBS)	
	FR-TO	FROM TO	FR-TO	FROM TO		FR-TO	FROM TO
A-F	0/606	-102.1	-102.1	0.24 (1)	10.00	D-B	-1147/0
F-B	0/584	-102.1	-102.1	0.40 (1)	10.00	E-F	-331/31
B-H	0/584	-102.1	-102.1	0.40 (1)	10.00	G-H	-331/31
H-C	0/606	-102.1	-102.1	0.24 (1)	10.00		
A-E	-537/0	-38.5	-38.5	0.25 (1)	6.25		
E-D	-478/0	-38.5	-38.5	0.31 (1)	6.25		
D-G	-478/0	-38.5	-38.5	0.31 (1)	6.25		
G-C	-537/0	-38.5	-38.5	0.25 (1)	6.25		

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 NBC 2010, NBC 2012
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 37.5 P.S.F. G.S.I. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.40/1.00 (B-H:1), BC=0.31/1.00 (D-G:1), WB=0.28/1.00 (B-D:1), SI=0.20/1.00 (C-G: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.

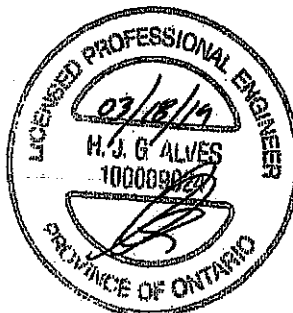
NAIL VALUES

PLATE	GRIP (DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	518	354	1687

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.82 (B) (INPUT = 0.50)
JSI METAL=0.28 (B) (INPUT = 1.00)

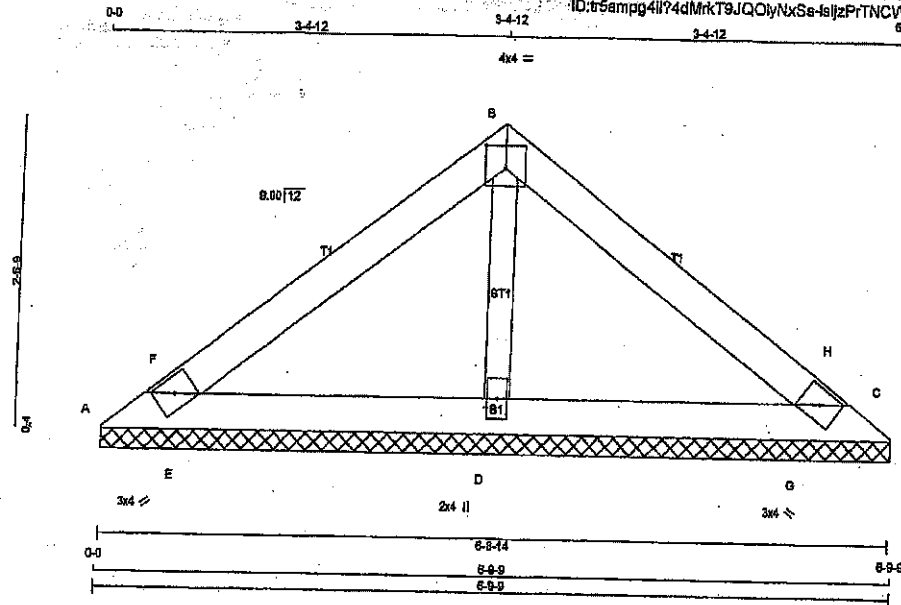


DESIGNER: TAM 71905548
STRUCTURAL
COURTESY ONLY

JOB NAME 200172-400371 Tamarack Roof Truss, Burlington	TRUSS NAME V2	QUANTITY 1	PLY 1	JOB DESC. Preston 11	TRUSS DESC.	DRWG NO.
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Version 8.230 5 Nov 17 2018 Mitek Industries, Inc. Mon Mar 18 20:53:26 2016 Page 1
ID:tr5ampg4ll74dMkt9JQOlyNxSe-IsIzPrtNCWVGjGnLM186Ql642H7I7EJL7LHSVzZbht

Scale = 1:17.5



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

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT		VERT	HORZ	UP/LIFT	IN-SX
A	94	0	0	0	8-8-14
C	94	0	0	0	8-8-14
D	760	0	0	0	8-8-14

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
A	68	40 / 0	13 / 0	0 / 0	0 / 0	17 / 0	0 / 0
C	68	40 / 0	13 / 0	0 / 0	0 / 0	17 / 0	0 / 0
D	588	312 / 0	116 / 0	0 / 0	0 / 0	142 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS	
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX (PLF)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FROM	TO	FR-TO	
A-F	0 / 205	-102.1	-102.1 0.05 (1)	D-B	-520 / 0
F-B	0 / 214	-102.1	-102.1 0.15 (1)	E-F	-168 / 13
B-H	0 / 214	-102.1	-102.1 0.15 (1)	G-H	-168 / 13
H-C	0 / 205	-102.1	-102.1 0.05 (1)		
A-E	-200 / 0	-38.5	-38.5 0.12 (1)		
E-D	-174 / 0	-38.5	-38.5 0.13 (1)		
D-G	-174 / 0	-38.5	-38.5 0.13 (1)		
G-C	-200 / 0	-38.5	-38.5 0.12 (1)		

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 = 62.5 PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NSCC 2016

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

(55 % OF 37.5 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.15/1.00 (B-H:1), BC=0.13/1.00 (D-E:1), WB=0.08/1.00 (B-D:1), SSI=0.10/1.00 (C-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

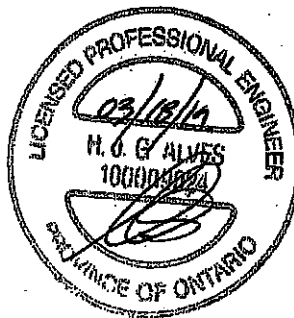
NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1867 788 1867 1836

PLATE PLACEMENT TOL. = 0.250 Inches

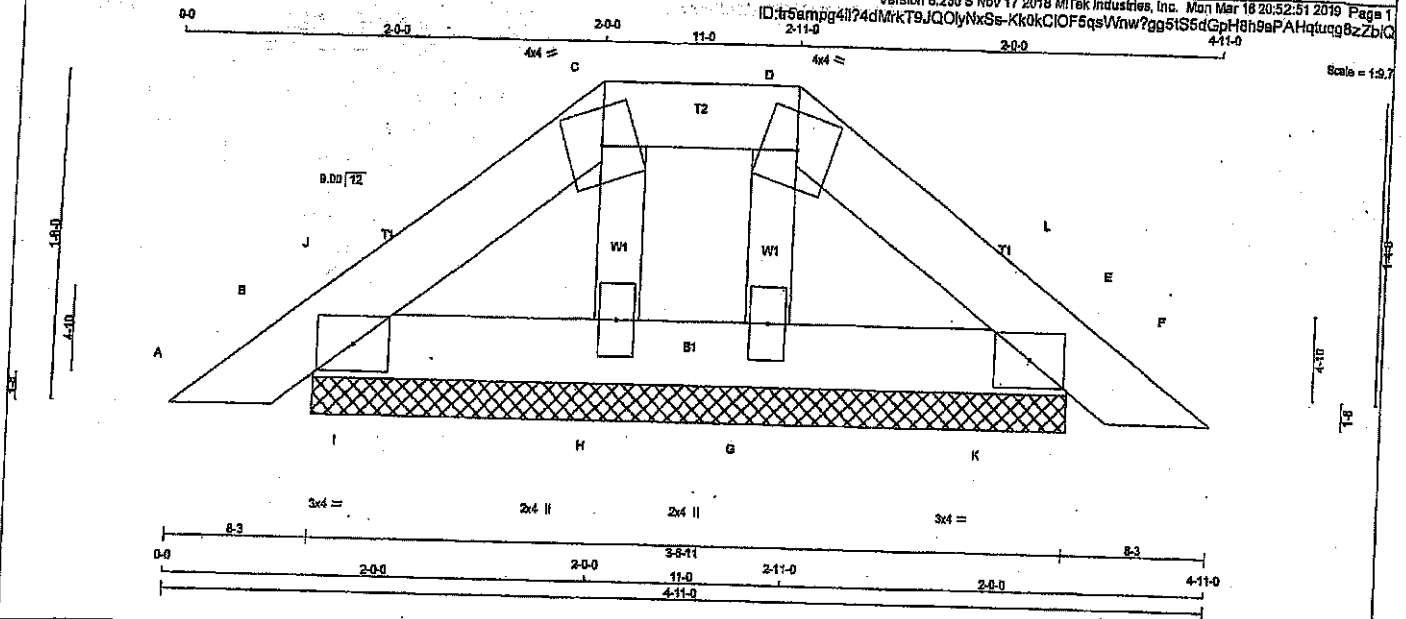
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.47 (B) (INPUT = 0.90)
JSI METAL= 0.15 (B) (INPUT = 1.00)



DRG NO. 1AM T1905549
STRUCTURAL
CONCRETE ONLY

JOB NAME 200172-400371	TRUSS NAME PB3	QUANTITY 1	PLY 1	JOB DESC. Preston 11	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.		Version 8.230 5 Nov 17 2018 Mitek Industries, Inc. Mon Mar 18 20:52:51 2019 Page 1 ID:tr5ampg4l174dMrkT9JQOlyNkSs-Kk0kC1OF5qsVWnw7gg5IS6dGpH8h9aPAHqung8zZbKQ	



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

PLATES (table is in inches)					
JT TYPE	PLATES	W	LEN	Y	X
B TMB1-I	MT20	3.0	4.0		
C TTW-m	MT20	4.0	4.0		
D TTW-m	MT20	4.0	4.0		
E TMB1-I	MT20	3.0	4.0		
G BMW1-w	MT20	2.0	4.0		
H BMW1-w	MT20	2.0	4.0		

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		RECORD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
B	172	0	172	0	0	3-6-11	3-6-11	3-6-11	
E	172	0	172	0	0	3-6-11	3-6-11	3-6-11	
H	138	0	138	0	0	3-6-11	3-6-11	3-6-11	
G	138	0	138	0	0	3-6-11	3-6-11	3-6-11	

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	124	83/0	14/0	0/0	0/0	27/0	0/0
E	124	83/0	14/0	0/0	0/0	27/0	0/0
H	104	54/0	23/0	0/0	0/0	27/0	0/0
G	104	54/0	23/0	0/0	0/0	27/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
A-B	0/17	FROM TO	10.00
B-J	-45/0	-102.1 -102.1	0.03 (1)
J-C	-35/0	-102.1 -102.1	0.01 (3)
C-D	-21/0	-102.1 -102.1	0.02 (1)
D-L	-35/0	-102.1 -102.1	0.01 (1)
L-E	-45/0	-102.1 -102.1	0.02 (1)
E-F	0/17	-102.1 -102.1	0.03 (1)
B-I	0/29	-38.5 -38.5	0.03 (1)
I-H	0/29	-38.5 -38.5	0.03 (1)
H-G	0/21	-38.5 -38.5	0.02 (1)
G-K	0/29	-38.5 -38.5	0.03 (1)
K-E	0/29	-38.5 -38.5	0.03 (1)

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 2018, OBC 2012
- CSA 085-09, CSA 088-14
- TFC 2011, TPG 2014

(55% OF 37.5 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 29.0 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.03/1.00 (E-F:1), BC=0.03/1.00 (G-K:1), WB=0.01/1.00 (D-G:1), SSI=0.05/1.00 (E-K:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

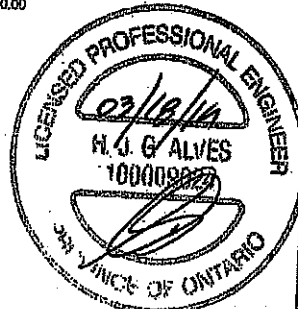
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1857 763 1857 1858

PLATE PLACEMENT TOL = 0.250 inches

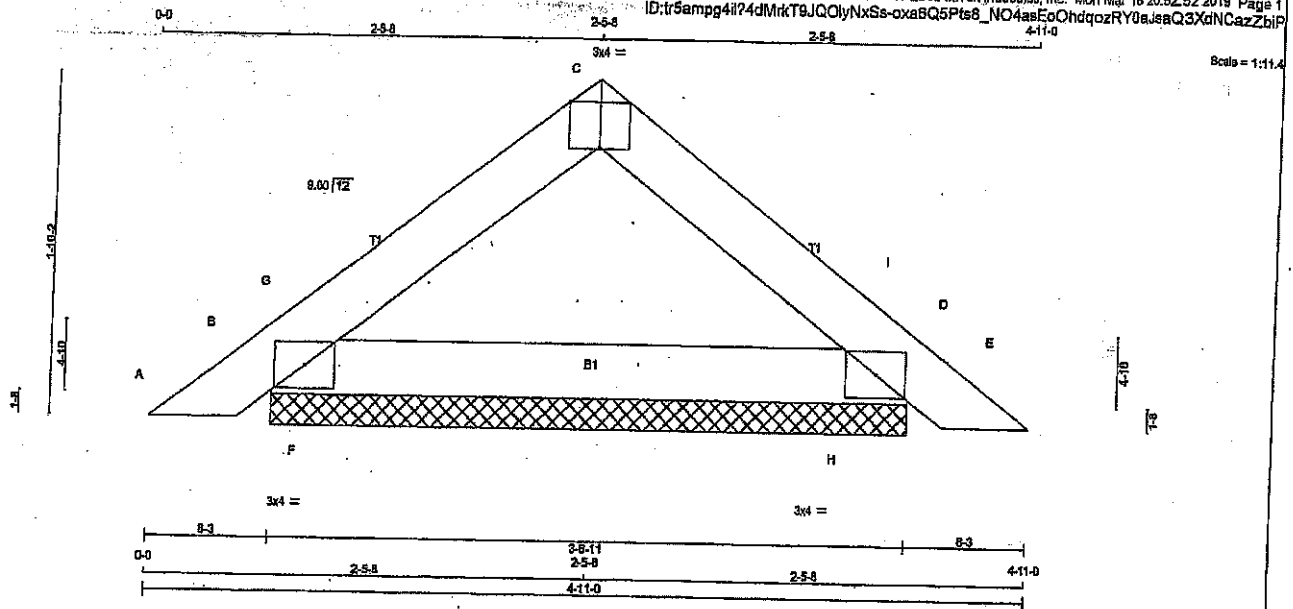
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP=0.12 (E) (INPUT = 0.00)
JSI METAL=0.03 (E) (INPUT = 1.00)



BWS KLA TAM T7705544
STRUCTURAL
CROSS-SECTION (mm)

JOB NAME 200172-400371	TRUSS NAME PB4	QUANTITY 6	PLY 1	JOB DESC. Preston 11	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.		Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Mon Mar 18 20:52:52 2019 Page 1 ID:tr5ampg4il74dMikT9JQOlyNxSs-oxa8Q5Pts8_NO4asEoOndqozRY0aJeaQ3XdNCazZbiP	



TOTAL WEIGHT = 6 X 11 = 66 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB1-I	MT20	3.0	4.0		
C	TT-p	MT20	3.0	4.0	Edge	2.00
D	TMB1-I	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	REQD BRG
JT		VERT	HORZ	DOWN	UP
B	311	0	311	0	3-8-11
D	311	0	311	0	3-8-11

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
B	228	138 / 0	37 / 0	0 / 0	53 / 0	0 / 0
D	228	138 / 0	37 / 0	0 / 0	53 / 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)	MAX. CS (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS (LC)	
FR-TO		FROM	TO	FR-TO			
A-B	0 / 17	-102.1	-102.1	0.03 (1)	10.00	F-G	0 / 148
B-G	-262 / 0	-102.1	-102.1	0.05 (3)	6.25	H-I	0 / 148
G-C	-151 / 0	-102.1	-102.1	0.06 (1)	6.25		
C-I	-151 / 0	-102.1	-102.1	0.06 (1)	6.25		
I-D	-262 / 0	-102.1	-102.1	0.05 (3)	6.25		
D-E	0 / 17	-102.1	-102.1	0.03 (1)	10.00		
B-F	0 / 130	-38.5	-38.5	0.04 (3)	10.00		
F-H	0 / 130	-38.5	-38.5	0.08 (2)	10.00		
H-D	0 / 130	-38.5	-38.5	0.04 (3)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 20.0 PSF
DL = 6.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.0 PSF
TOTAL LOAD = 52.5 PSF

SPACING = 24.0 IN. G/G

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 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

CSF TO=0.08/1.00 (C-G-1), SC=0.08/1.00 (F-H-2),
WB=0.00/1.00 (F-G-1), SB=0.08/1.00 (D-I-2)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

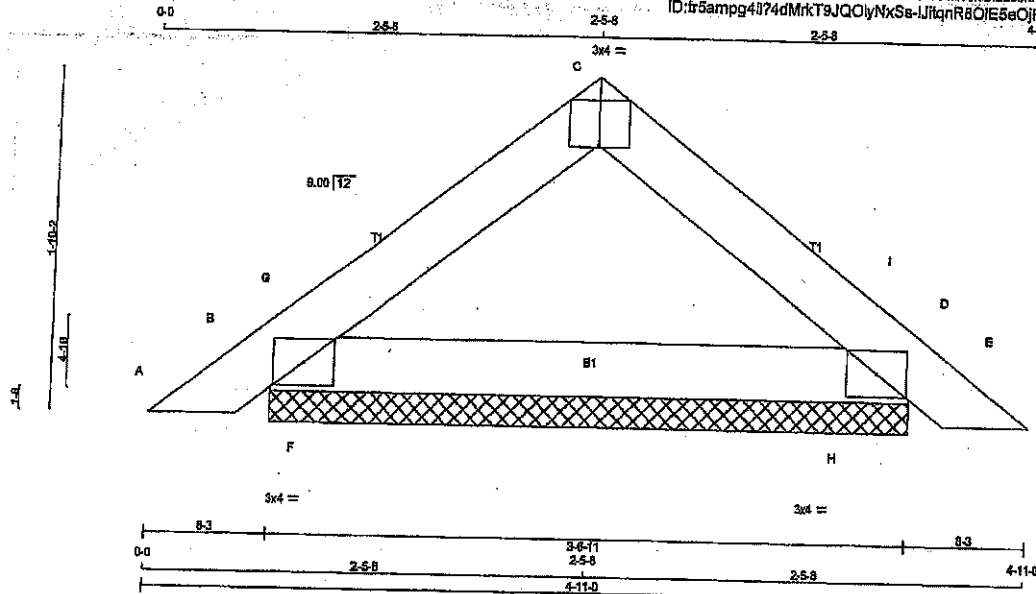
JSI GRIP= 0.19 (B) (INPUT = 0.80)
JSI METAL= 0.06 (B) (INPUT = 1.00)



DWG NO. TAM 17905545
STRUCTURAL
C.C. ENGINEERING

JOB NAME 200172-400371	TRUSS NAME PB4Z	QUANTITY 1	PLY 2	JOB DESC. Preston 11	ORWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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Scale = 1:11.4

TOTAL WEIGHT = 2 X 11 = 22 lb

LUMBER

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

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-C	12	TOP
C-E	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
B-D	12	TOP

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMB1-I	MT20	3.0	4.0		
C TT-P	MT20	3.0	4.0	Edge	2.00
D TMB1-I	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 IN-SX	REQD BRG IN-SX
JT	VERT. HORZ	DOWN HCRZ	UPLIFT	
B	311 0	311 0	0 0	3-8-11
D	311 0	311 0	0 0	3-8-11

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN. COMPONENT REACTIONS
JT	COMBINED SNOW LIVE PERM. LIVE WIND DEAD SOIL
B	228 138/0 97/0 0/0 0/0 53/0 0/0
D	228 138/0 97/0 0/0 0/0 53/0 0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MEMB. FORCE (LBS)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)
FR-TO								
A-B	0/17	-102.1	-102.1	0.01 (1)	10.00	F-G	0/147	0.00 (1)
B-G	-281/0	-102.1	-102.1	0.03 (3)	6.25	H-I	0/147	0.00 (1)
G-C	-150/0	-102.1	-102.1	0.03 (1)	6.25			
C-I	-150/0	-102.1	-102.1	0.03 (1)	6.25			
I-D	-281/0	-102.1	-102.1	0.03 (3)	6.25			
D-E	0/17	-102.1	-102.1	0.01 (1)	10.00			
B-F	0/130	-38.5	-38.5	0.02 (3)	10.00			
F-H	0/130	-38.5	-38.5	0.04 (2)	10.00			
H-D	0/130	-38.5	-38.5	0.02 (3)	10.00			

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. GIC

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

CSI: TC=0.08/H.00 (C-I:1), BC=0.04/H.00 (F-H:2), WB=0.00/H.00 (F-G:1), SS=0.04/H.00 (D-L:2)

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.

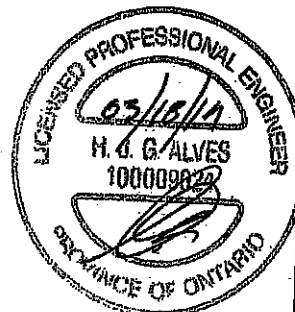
NAIL VALUES

PLATE GRIP(DRY)	SHEAR SECTION (PLI)	PLI	PLI
MT20	618	354	1867
	788	1987	1856

PLATE PLACEMENT TOL. = 0.250 inches

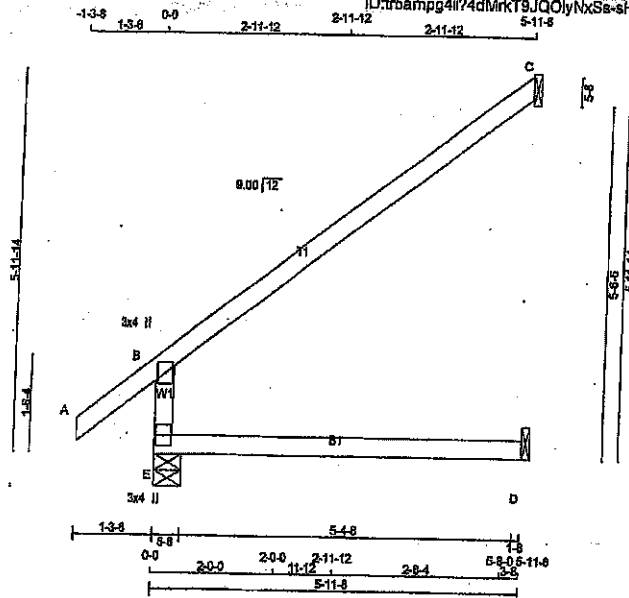
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.10 (D) (INPUT = 0.50)
JSI METAL= 0.03 (D) (INPUT = 1.00)



ENGR NO. TAM **T1705546**
STRUCTURAL
CONSULTANT ONLY

JOB NAME 200172-400371	TRUSS NAME J1	QUANTITY 15	PLY 1	JOB DESC. Preston 11	TRUSS DESC.	DRWG NO.
Tamarack Roof Truss, Burlington						



Scale = 1/32"

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 is in inches)

JT. TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0	
E	BMV+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
E	581	581	0	5-8
C	228	228	0	1-8
D	44	49	0	1-8

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

UNFACTORED REACTIONS

JT	1ST CASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	406	296/0	0/0	0/0	0/0	109/0	0/0
C	157	130/0	0/0	0/0	0/0	27/0	0/0
D	35	0/0	0/0	0/0	0/0	35/0	0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 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			MAX. UNBRACED LENGTH	WEBS MAX. FACTORED FORCE (LBS)
		FROM	TO	CS1 (LC)		
FR-TO						
E-B	-521/0	0.0	0.0	0.11 (4)	7.81	
A-B	0/42	-102.1	-102.1	0.14 (1)	10.00	
B-C	-48/0	-102.1	-102.1	0.82 (1)	6.25	
E-D	0/0	-17.5	-17.5	0.13 (4)	10.00	

TOTAL WEIGHT = 15 X 19 = 279 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 20.0 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 42.0 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 NBCC 2010, OBC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

(65% OF 37.5 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 (0.00")
ALLOWABLE DEFL. (TL) = L/360 (0.20")
CALCULATED VERT. DEFL. (TL) = L/999 (0.03")

CS1: TC=0.62/1.08 (B-C-1), BC=0.13/1.00 (D-E-4), WB=0.00/1.00 (W-B-0), SS=0.24/1.00 (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 (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 615 354 1687 788 1987 1856

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

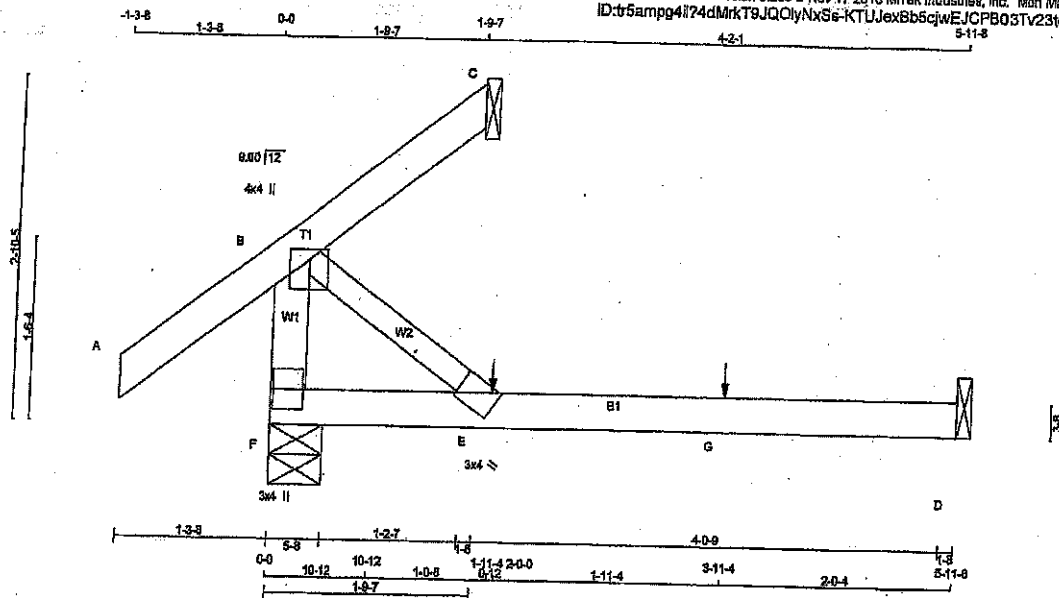
JSI GRIP= 0.24 (B) (INPUT = 0.90)
JSI METAL= 0.18 (B) (INPUT = 1.00)



ENGINEER TAM 71905590
STRUCTURAL
CALCULATIONS ONLY

JOB NAME 200172-400371 Tamarack Roof Truss, Burlington	TRUSS NAME J2	QUANTITY 2	PLY 1	JOB DESC. Preston 11	TRUSS DESC.	DRWG NO.
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Scale = 1:17.7

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

DESCR.
SPF
SPF
SPF

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

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
	VERT	DOWN	IN-SX	IN-SX
F	401	0	5-8	5-8
C	37	0	1-8	1-8
D	115	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST CASE COMBINED	MAX/MIN COMPONENT REACTIONS	LIVE	PERM.LIVE	WIND	DEAD	SOIL
		SNOW	DOWN	UP	DOWN	UP	DOWN
F	301	163 / 0	63 / 0	0 / 0	0 / 0	75 / 0	0 / 0
C	25	21 / 0	0 / 0	0 / 0	0 / 0	4 / 0	0 / 0
D	104	0 / 0	63 / 0	0 / 0	0 / 0	42 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. FURLIN 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.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LCH (PLF)	MAX. CSI (LC)	MAX. UNBRACED LENGTH FR-TO	MEMB. B-E	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
F-B	-288 / 0	0.0	0.0	0.03 (1)	7.81	0 / 0	0 / 0	0.00 (1)
A-B	0 / 42	-102.1	-102.1	0.15 (1)	10.00			
B-C	-33 / 0	-102.1	-102.1	0.15 (1)	8.25			
F-E	0 / 0	-38.5	-38.5	0.28 (2)	10.00			
E-G	0 / 0	-38.5	-38.5	0.33 (2)	10.00			
G-D	0 / 0	-38.5	-38.5	0.33 (2)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LCI	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	1-11-4	1	1	—	FRONT	VERT	TOTAL	—	—
G	3-11-4	1	1	—	FRONT	VERT	TOTAL	—	—

TOTAL WEIGHT = 2 X 14 = 28 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 = 62.5 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 NBCC 2010, NBCC 2012
- CSA 088-09, CSA 088-14
- TRC 2011, TRC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(65 % OF 37.5 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/887 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/532 (0.13")

CSI: TC=0.157/0.00 (A-S-1), BC=0.33/1.00 (D-E-2), WB=0.00/1.00 (B-E-1), SS=0.13/1.00 (E-F-2)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

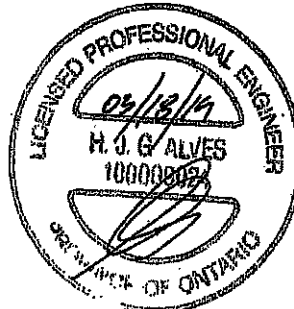
NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.23 (B) (INPUT = 0.80)
JSI METAL = 0.08 (B) (INPUT = 1.00)



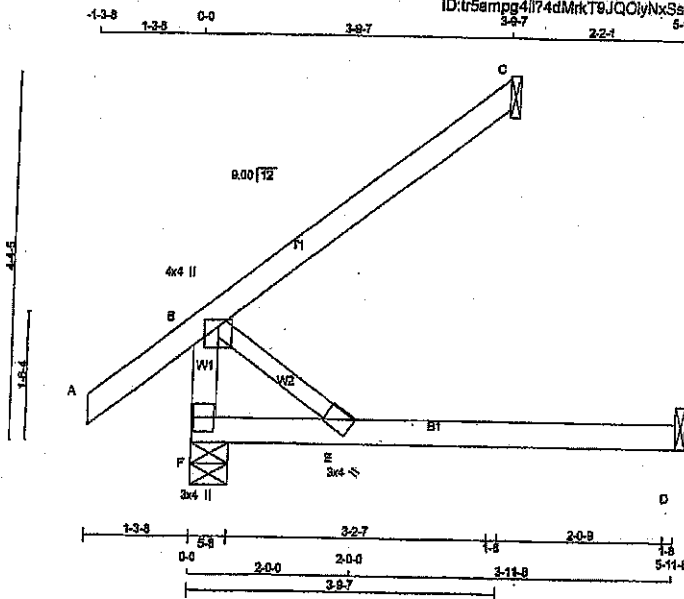
ENGINEER: TAM 7705551
STRUCTURAL
CHECKED BY ONLY

JOB NAME 200172-400371	TRUSS NAME J3	QUANTITY 2	PLY 1	JOB DESC. Preston 11	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

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



LUMBER

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

PLATES (table in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW+p	MT20	4.0	4.0	1.00	2.00
E BMVW+w	MT20	3.0	4.0		
F 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	REORD BRG
	VERT	DOWN	IN-SX	IN-SX
F	449	0	5-8	5-8
C	193	0	1-8	1-8
D	115	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX MIN. COMPONENT REACTIONS	WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE	
F	334	180/0	63/0	0/0	81/0
C	133	-110/0	0/0	0/0	23/0
D	104	0/0	63/0	0/0	42/0

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

BRACING

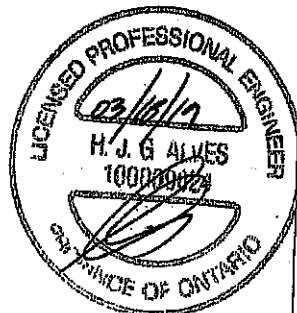
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	MEMB.	FORCE (LBS)
FR-TO		FROM TO		
F-B	-334/0	0.0	B-E	0/0
A-B	0/42	-102.1		
B-C	0/0	-102.1		
F-E	0/0	-38.5		
E-D	0/0	-38.5		



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, NBC 2010, NBC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBC 2018, CBC 2012
- CSA 088-08, 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 28.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = 1/360 (0.20")
CALCULATED VERT. DEFL. (LL) = 1/887 (0.09")
ALLOWABLE DEFL. (TL) = 1/360 (0.20")
CALCULATED VERT. DEFL. (TL) = 1/532 (0.13")

CSI: TC=0.25/1.00 (B-C-1), BC=0.31/1.00 (D-E-3),
WB=0.00/1.00 (B-E-1), SS=0.12/1.00 (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 (PS) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1667 1656

PLATE PLACEMENT TOL. = 0.250 inches

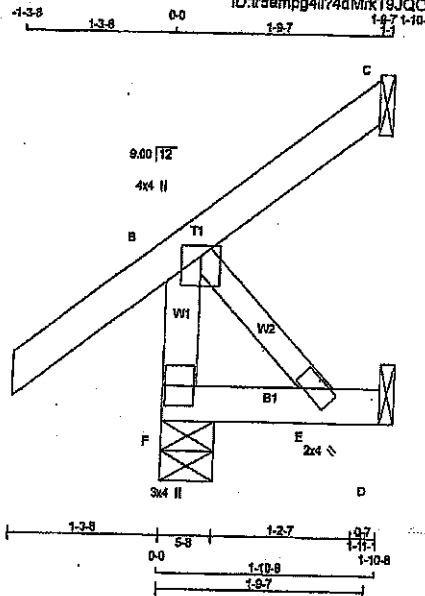
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.27 (B) (INPUT = 0.60)
JSI METAL= 0.07 (B) (INPUT = 1.00)

DRG. NO. TAM 17905552
STRUCTURAL
CALCULATED ONLY

TOTAL WEIGHT = 2 X 17 = 34 lb

JOB NAME 200172-400371 Tamarack Roof Truss, Burlington	TRUSS NAME J4	QUANTITY 4	PLY 1	JOB DESC. Preston 11	DRWG NO.
TRUSS DESC.				Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Mon Mar 19 20:52:37 2019 Page 1	



Scale = 1/172

LUMBER

N.L.G.A. RULES

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

ALL WEBS 2x3 DRY No.2

DRY; SEASONED LUMBER.

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	RECORD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
F	322	0	322	0	5-8	5-8
C	37	0	37	0	1-8	1-8
D	36	0	48	0	1-8	1-8

SEE MITEK STANDARD DETAIL B37B21H FOR CONNECTION TO JOINT(S) C, D

PROVIDE ANCHORAGE AT BEARING JOINT C FOR 150 LBS FACTORED UPLIFT

UNFACTORED REACTIONS

JT	1ST LOASE COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	226	163 / 0	20 / 0	0 / 0	0 / 0	47 / 0	0 / 0
C	25	21 / -31	0 / 0	0 / 0	0 / 0	4 / 0	0 / 0
D	33	0 / 0	20 / 0	0 / 0	0 / 0	13 / 0	0 / 0

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

MEMB.	CHORDS MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1		MAX. CSI (LC)	MAX. UNBRAC LENGTH	FR-TO	WEBS MEMB. MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
		FROM	TO					
F-B	-288 / 0	0.0	0.0	0.03 (1)	7.81	B-E	0 / 0	0.00 (1)
A-B	0 / 42	-102.1	-102.1	0.14 (1)	10.00			
B-C	-33 / 0	-102.1	-102.1	0.13 (1)	6.25			
F-E	0 / 0	-38.5	-38.5	0.03 (3)	10.00			
E-D	0 / 0	-38.5	-38.5	0.03 (3)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 4 X 8 = 37 lb

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. CIC

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, CBC 2012
- CSA 089-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

(55 % OF 37.5 P.S.F. G.S.L. PLUS 6.4 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')

CSI: TC=0.14/1.00 (A-B:1), BC=0.03/1.00 (E-F:3), WB=0.00/1.00 (B-E:1), SS=0.09/1.00 (B-C: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

AUTOSOLVE RIGHT HEEL ONLY

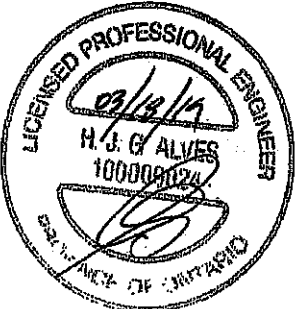
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

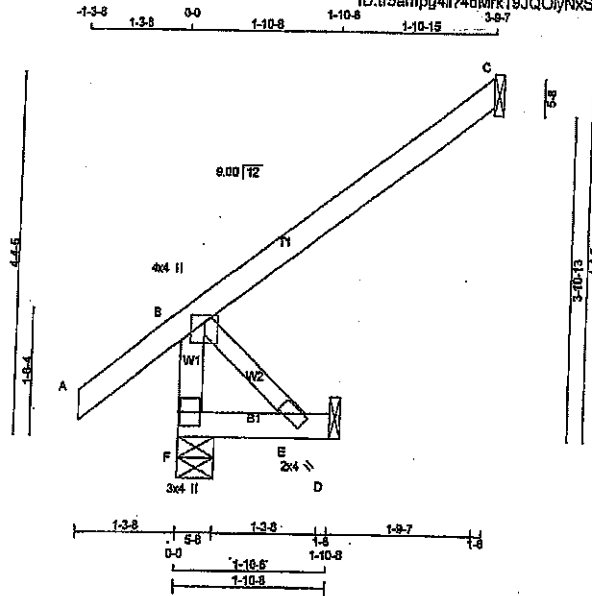
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.23 (B) (INPUT = 0.00)
JSI METAL= 0.08 (B) (INPUT = 1.00)



DATE: 03/18/19
77905753
STRUCTURAL
QUALITY ONLY

JOB NAME 200472-400371	TRUSS NAME J5	QUANTITY 4	PLY 1	JOB DESC. Preston 11	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Mon Mar 18 20:52:39 2019 Page 1	
ID:tr5ampg4i74dMkT8JQOlyNxSs-hQICheKw8LDL44Mzafe5mjrbbm_MV37_BErzZbic				Scale = 1/25.0	



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
F - B	2x4	DRY	No.2
A - C	2x4	DRY	No.2
F - D	2x4	DRY	No.2
ALL WEBS 2x8 DRY No.2			
DRY: SEASONED LUMBER.			

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMVW+p	MT20	4.0	4.0 1.00 2.00
E	BMVW+p	MT20	2.0	4.0
F	BMV1+p	MT20	3.0	4.0

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	RECORD
JT	GROSS REACTION	GROSS REACTION	GROSS REACTION	BRG	BRG
F	370	0	370	0	5-8
C	193	0	193	0	1-8
D	36	0	46	0	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
F	282	190/0	20/0	0/0
C	133	110/0	0/0	0/0
D	33	0/0	20/0	0/0

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

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

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

LOADING
TOTAL LOAD CASES: (5)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
F-B	-334/0	B-E	0/0
A-B	0/42		
B-C	0/0		
F-E	0/0		
E-D	0/0		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 4 X 12 = 48 lb

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. G/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBCO 2018, CBC 2012
- CSA 086-D8, 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 (0.19')
CALCULATED VERT. DEFL.(LL) = L/889 (0.00')
ALLOWABLE DEFL.(TL) = L/360 (0.19')
CALCULATED VERT. DEFL.(TL) = L/999 (0.00')

CSI: TC=0.25/1.00 (B-C:1), BC=0.04/1.00 (E-F:3), WB=0.00/1.00 (B-E:1), SB=0.12/1.00 (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.

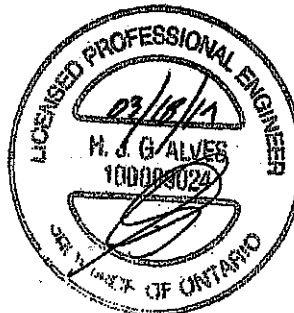
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PL)	(PL)	(PL)
MT20	618	354	1057

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.27 (B) (INPUT = 0.90)
JSI METAL= 0.07 (B) (INPUT = 1.00)



ENGINEER TAM 7405554
STRUCTURAL
CONSTRUCTION ONLY



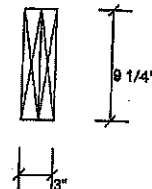
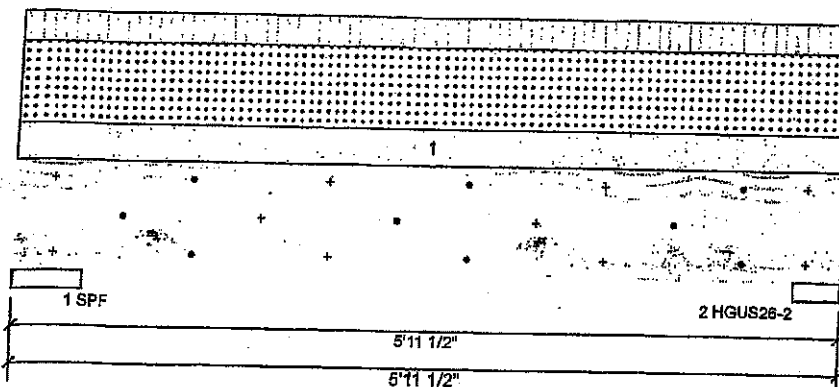
isDesign™

Client:
Project:
Address:Date: 3/18/2019
Designer:
Job Name: 200172
Project #:

Page 3 of 4

BM3 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED

Level: Level

**Member Information**Type: Girder
Plies: 2
Moisture Condition: Dry
Deflection LL: 360
Deflection TL: 360
Importance: NormalApplication: Roof (Residential)
Slope: 0/12
Design Method: LSD
Building Code: NBCC 2015
Load Sharing: No
Deck: Not Checked
Vibration: Not Checked**Unfactored Reactions UNPATTERNED lb (Uplift)**

Brg	Live	Dead	Snow	Wind
1	214	265	592	0
2	205	254	587	0

Bearings and Factored Reactions

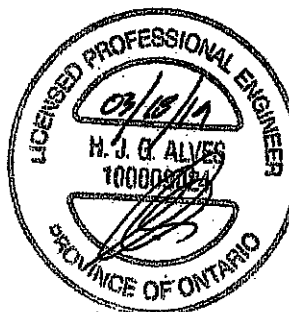
Bearing	Length	Cap. React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	5.500"	14%	392 / 1102	1433 L	1.25D+1.5S +L
2 - HGUS...	4.000"	19%	318 / 1057	1375 L	1.25D+1.5S +L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1650 ft-lb	3' 1/2"	6039 ft-lb	0.273 (27%)	1.25D+1.5S +L	L
Unbraced	1650 ft-lb	3' 1/2"	5210 ft-lb	0.317 (32%)	1.25D+1.5S +L	L
Shear	1247 lb	1'2"	3984 lb	0.313 (31%)	1.25D+1.5S +L	L
LL Defl Inch	0.016 (L/4270)	3' 1/2"	0.176 (L/360)	0.080 (8%)	S+0.5L	L
TL Defl Inch	0.021 (L/3095)	3' 1/2"	0.176 (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 Nail from opposite sides as indicated by + and • symbols.
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top braced at bearings.
- 6 Bottom braced at bearings.
- 7 Lateral slenderness ratio based on single ply width.

DWG NO. TAM 7405565
STRUCTURAL
COMPONENT ONLY 1/2

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Uniform		6-8-8	Near Face	13 PSF	10.5 PSF	29 PSF	0 PSF	

Manufacturer InfoTamarack Roof Trusses
3288 North Service Rd., ON
Canada
L7N3G2
(800) 335-1115

This design is valid until 12/11/2021





isDesign™

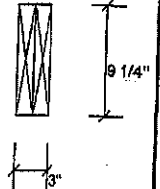
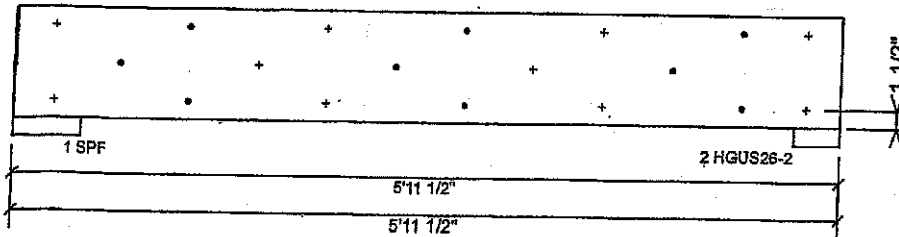
Client:
Project:
Address:

Date: 3/18/2019

Page 4 of 4

Design:
Job Name: 200172
Project #:**BM3 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	89.3 %
Load	235.8 PLF
Yield Limit per Foot	340.0 PLF
Yield Limit per Fastener	113.3 lb.
Yield Mode	g
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	1.25D+1.58+L
Duration Factor	1.00

DWG NO. TAM 7705565
STRUCTURAL
COMPONENT ONLY 72

Manufacturer Info	Tamarack Roof Trusses 3289 North Service Rd., ON Canada L7N3G2 (805) 335-1115
	TAMARACK LUMBER INC. ALUMINUM GROUP

This design is valid until 12/11/2021



TECHNICAL BULLETIN

HGUS – Double Shear Joist Hangers

SIMPSON
Strong-Tie

All HGUS hangers have double shear nailing. This patented innovation distributes the load through two points on each joist nail for greater strength. It also allows the use of fewer nails, faster installation and the use of common nails for all connections. Do not bend or remove tabs.

MATERIAL: 12 gauge

FINISH: G90 galvanized

DESIGN:

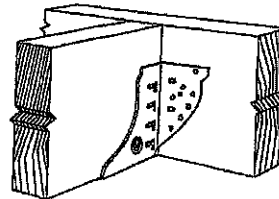
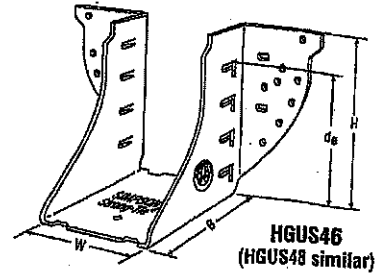
- Factored resistances are in accordance with CSA Q86-14
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

INSTALLATION:

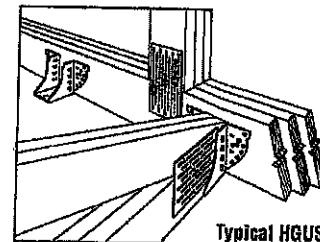
- Use all specified fasteners
- Nails: 16d = 0.162" dia x 3 1/2" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

OPTIONS:

- See current catalogue for options



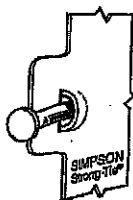
Typical HGUS Installation



Typical HGUS Installation
(Truss Designer to provide fastener quantity for connecting multiple members together)

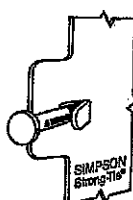
Model No.	Ga	Dimensions (In)				Fasteners		Factored Resistance (lbs)			
		W	H	B	d ₁ ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift (K ₁ =1.15)	Normal (K ₂ =1.00)	Uplift (K ₁ =1.15)	Normal (K ₂ =1.00)
HGUS46	12	3 3/4	7 1/4	4	6 1/8	36-16d	12-16d	6070	12980	4310	9215
HGUS410	12	3 3/4	9	4	8 1/8	46-16d	16-16d	6840	14645	4855	10400
HGUS412	12	3 3/4	10 1/8	4	10 1/8	56-16d	20-16d	7640	14995	5425	10645
HGUS414	12	3 3/4	12 1/8	4	11 1/8	66-16d	22-16d	10130	16400	7195	11645
HGUS5.50/8	12	5 1/2	6 1/8	4	6 1/8	36-16d	12-16d	6070	12980	4310	9215
HGUS5.50/10	12	5 1/2	8 1/8	4	8 1/8	46-16d	16-16d	6840	14645	4855	10400
HGUS5.50/12	12	5 1/2	10 1/8	4	10 1/8	56-16d	20-16d	7640	14995	5425	10645
HGUS5.50/14	12	5 1/2	12 1/8	4	11 1/8	66-16d	22-16d	10130	16400	7195	11645
HGUS7.25/8	12	7 1/4	7 1/8	4	6 1/8	36-16d	12-16d	6070	12980	4310	9215
HGUS7.25/10	12	7 1/4	8 1/8	4	8 1/8	46-16d	16-16d	6840	15760	4855	11190
HGUS7.25/12	12	7 1/4	10 1/8	4	10 1/8	56-16d	20-16d	7640	16110	5425	11435
HGUS7.25/14	12	7 1/4	12 1/8	4	11 1/8	66-16d	22-16d	10130	18200	7195	12920

1. d₁ is the distance from the seat of the hanger to the highest joist nail.

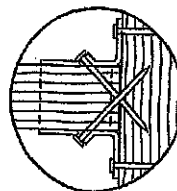


Dome Double Shear Nailing prevents tabs breaking off (available on some models).

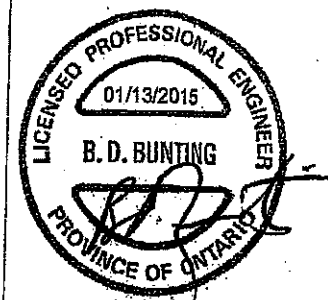
U.S. Patent
5,603,580



Double Shear Nailing Side View. Do not bend tab back.



Double Shear Nailing Top View.



This technical bulletin is effective until December 31, 2016, and reflects information available as of January 1, 2015. This information is updated periodically and should not be relied upon after December 31, 2016. Contact Simpson Strong-Tie for current information and limited warranty or see www.strongtie.com.

© 2015 Simpson Strong-Tie Company Inc.

T-SPECUSHGUS15 1/15 exp: 12/16

800-999-5099
www.strongtie.com

TECHNICAL BULLETIN

HUS/LJS - Double Shear Joist Hangers

SIMPSON
Strong-Tie

All hangers have double shear nailing. This patented innovation distributes the load through two points on each joist nail for greater strength. It also allows the use of fewer nails, faster installation and the use of common nails for all connections. Do not bend or remove tabs.

MATERIAL: See table

FINISH: G90 galvanized

DESIGN:

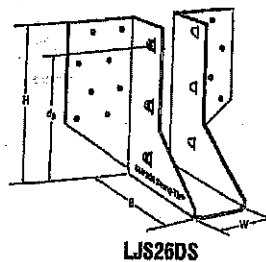
- Factored resistances are in accordance with CSA 086-14
- Uplift resistances have been increased 15%. No further increase is permitted
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

INSTALLATION:

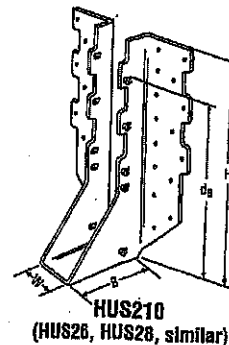
- Use all specified fasteners
- Nails: 16d = 0.162" dia. x 3 1/2" long common wire
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads
- Not designed for welded or nailer applications

OPTIONS:

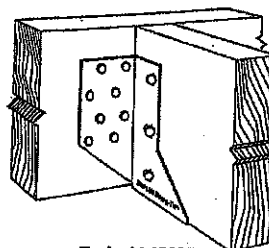
- See current catalogue for options



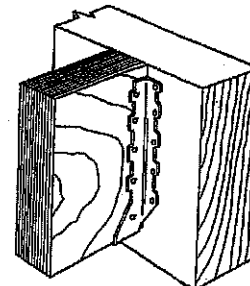
LJS26DS



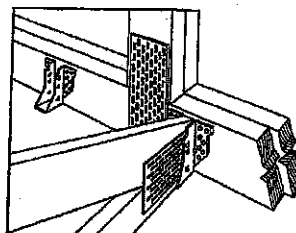
HUS210
(HUS26, HUS28, similar)



Typical LJS26DS
Installation



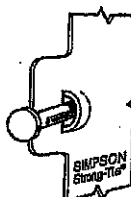
Typical HUS
Installation



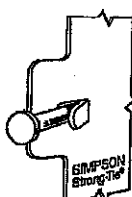
Typical HUS Installation
(Truss Designer to provide fastener
quantity for connecting multiple
members together)

Model No.	Ga	Dimensions (In)			Fasteners			Factored Resistance (lbs)			
		W	H	B	d _g ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift	Normal	Uplift	Normal
								(K _p =1.15)	(K _p =1.00)	(K _p =1.15)	(K _p =1.00)
LJS26DS	18	1 1/4	5	3 1/2	4 1/2	18-18d	6-16d	2055	4285	1480	4115
HUS26	16	1 1/4	5 1/4	3	3 1/4	14-16d	6-16d	2705	4940	2065	3875
HUS28	18	1 1/4	7 1/2	3	6 1/2	22-16d	8-16d	3605	5365	2675	4345
HUS210	18	1 1/4	8 1/2	3	7 3/4	30-16d	10-16d	4505	5795	4010	4740
HUS1.81/10	16	1 1/4	8	3	8	30-16d	10-16d	4505	6450	4010	5200

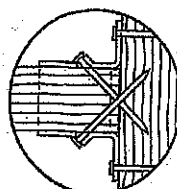
1. d_g is the distance from the seat of the hanger to the highest joist nail.



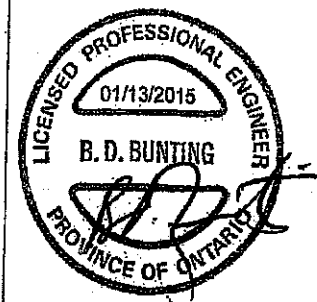
Dome Double
Shear Nailing
prevents tabs
breaking off
(available on
some models).
U.S. Patent
5,603,580



Double
Shear
Nailing
Side
View. Do
not bend
tab back.



Double
Shear
Nailing
Top View.



LIMIT
STATES
DESIGN

This technical bulletin is effective until December 31, 2016, and reflects information available as of January 1, 2015. This information is updated periodically and should not be relied upon after December 31, 2016. Contact Simpson Strong-Tie for current information and limited warranty or see www.strongtie.com.

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SPEC-HUS15 1/15 exp. 12/16

800-999-5099
www.strongtie.com

LUS - Double Shear Joist Hangers

SIMPSON
Strong-Tie

All LUS hangers have double shear nailing. This patented innovation distributes the load through two points on each joist nail for greater strength. It also allows the use of fewer nails, faster installation and the use of common nails for all connections.

Material: 18 gauge

Finish: G90 galvanized

Design:

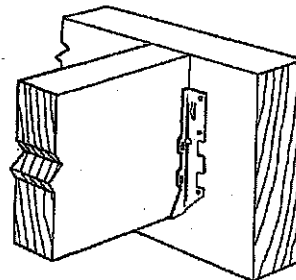
- Factored resistances are in accordance with CSA O86-14.
- Uplift resistances have been increased 15%. No further increase is permitted.
- Wood shear is not considered in the factored resistances given. The specifier must ensure that the joist and header capacities are capable of withstanding these loads.

Installation:

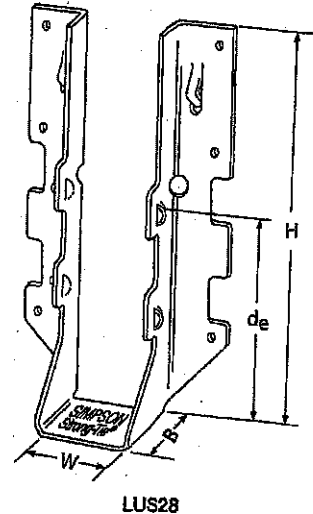
- Use all specified fasteners.
- Nails: 16d = 0.162" dia. x 3 1/2" long common wire,
10d = 0.148" x 3" long common wire.
- Double shear nails must be driven at an angle through the joist or truss into the header to achieve the table loads.
- Not designed for welded or nailer applications.

Options:

- These hangers cannot be modified

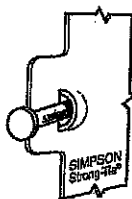


Typical LUS
Installation



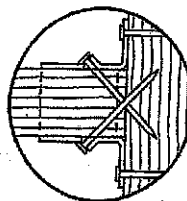
Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance (lb.)			
		W	H	B	d _e ¹	Face	Joist	D.Fir-L		S-P-F	
								Uplift (K _o =1.15)	Normal (K _o =1.00)	Uplift (K _o =1.15)	Normal (K _o =1.00)
LUS24	18	1 1/8	3 1/4	1 1/4	1 15/16	(4) 10d	(2) 10d	710	1630	645	1155
LUS24-2	18	3 1/4	3 1/4	2	1 15/16	(4) 16d	(2) 16d	835	2020	590	1435
LUS26	18	1 9/16	4 3/4	1 3/4	3 3/4	(4) 10d	(4) 10d	1420	2170	1290	1630
LUS26-2	18	3 1/4	4 3/4	2	4	(4) 16d	(4) 16d	1720	2595	1545	1920
LUS26-3	18	4 3/4	4 3/4	2	3 3/4	(4) 16d	(4) 16d	1720	2595	1545	2340
LUS28	18	1 9/16	6 3/4	1 3/4	3 3/4	(6) 10d	(6) 10d	1420	2520	1290	1790
LUS28-2	18	3 1/4	7	2	4	(6) 16d	(4) 16d	1720	3325	1545	2575
LUS28-3	18	4 3/4	6 3/4	2	3 3/4	(6) 16d	(4) 16d	1720	3325	1545	2375
LUS210	18	1 9/16	7 15/16	1 3/4	3 3/4	(8) 10d	(4) 10d	1420	2785	1290	2210
LUS210-2	18	3 1/4	9	2	6	(8) 16d	(6) 16d	2580	4500	2320	3195
LUS210-3	18	4 3/4	8 3/4	2	5 1/4	(8) 16d	(6) 16d	2580	3345	2320	2375

1. d_e is the distance from the seat of the hanger to the highest joist nail.



Double Shear Nailing prevents tabs breaking off (available on some models).

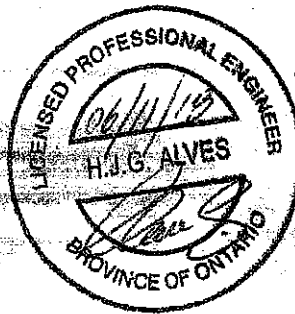
U.S. Patent
5,603,680



Double Shear Nailing
Top View.



(800) 999-5099
strongtie.com



Alves Engineering Services Inc.

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

RESPONSABILITIES

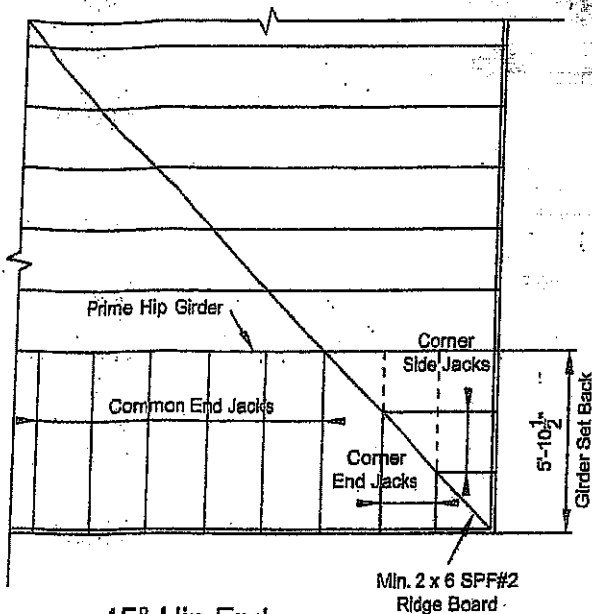
- 1-Alves Engineering Services Inc. is responsible for the design of trusses as individual components
- 2-It is the responsibility of others to ascertain that the design loads utilized on this drawing meet or exceed the actual dead load imposed by the structure and the live load imposed by the local 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-1800218

Feb 09, 2018



45° Hip End

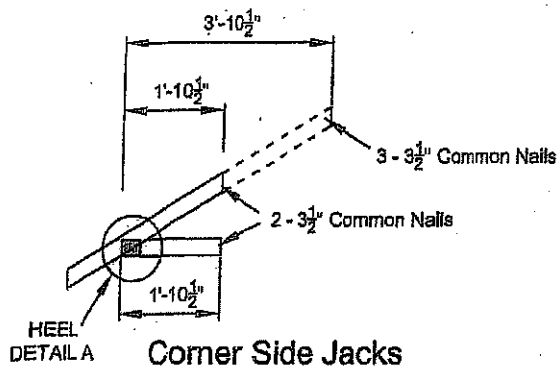
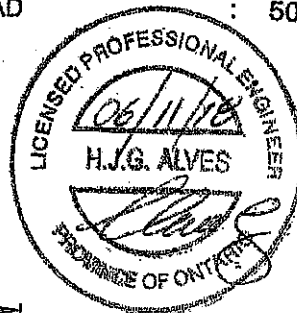
LUMBER SPECIFICATION

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

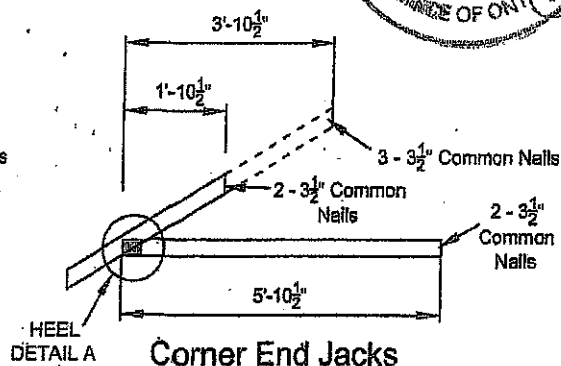
DESIGN LOAD

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.

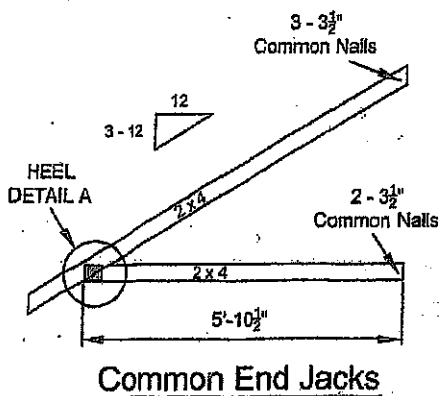
TOTAL LOAD : 50.5 P.S.F.



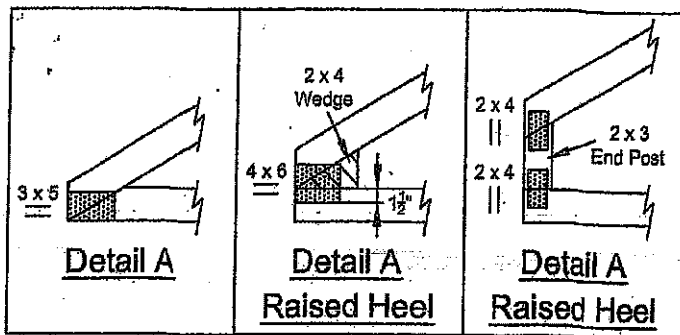
Corner Side Jacks



Corner End Jacks



Common End Jacks



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

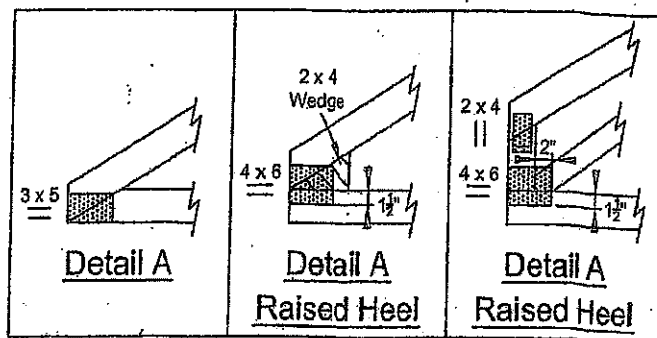
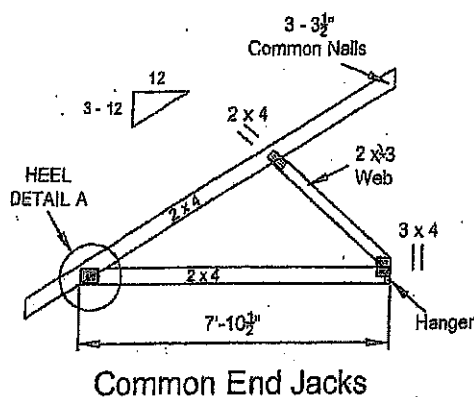
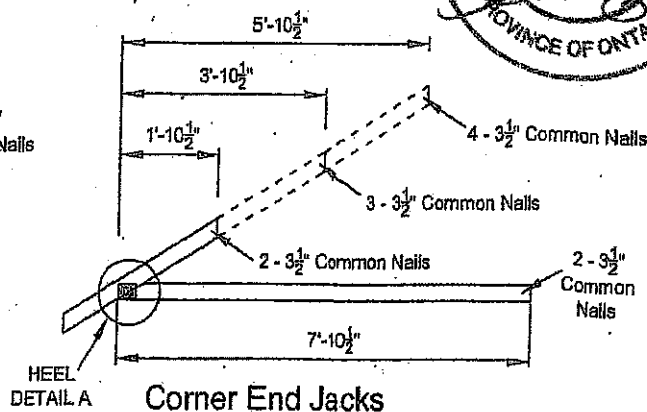
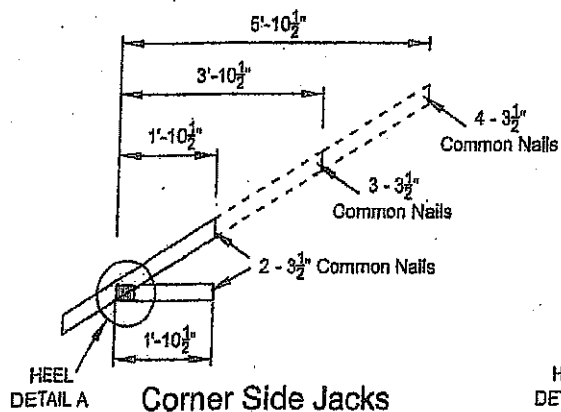
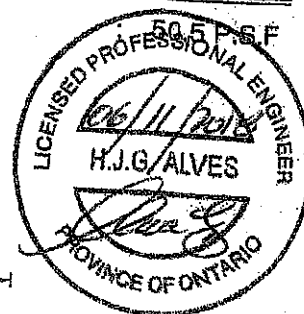
T-1800216



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

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



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

T-1800217