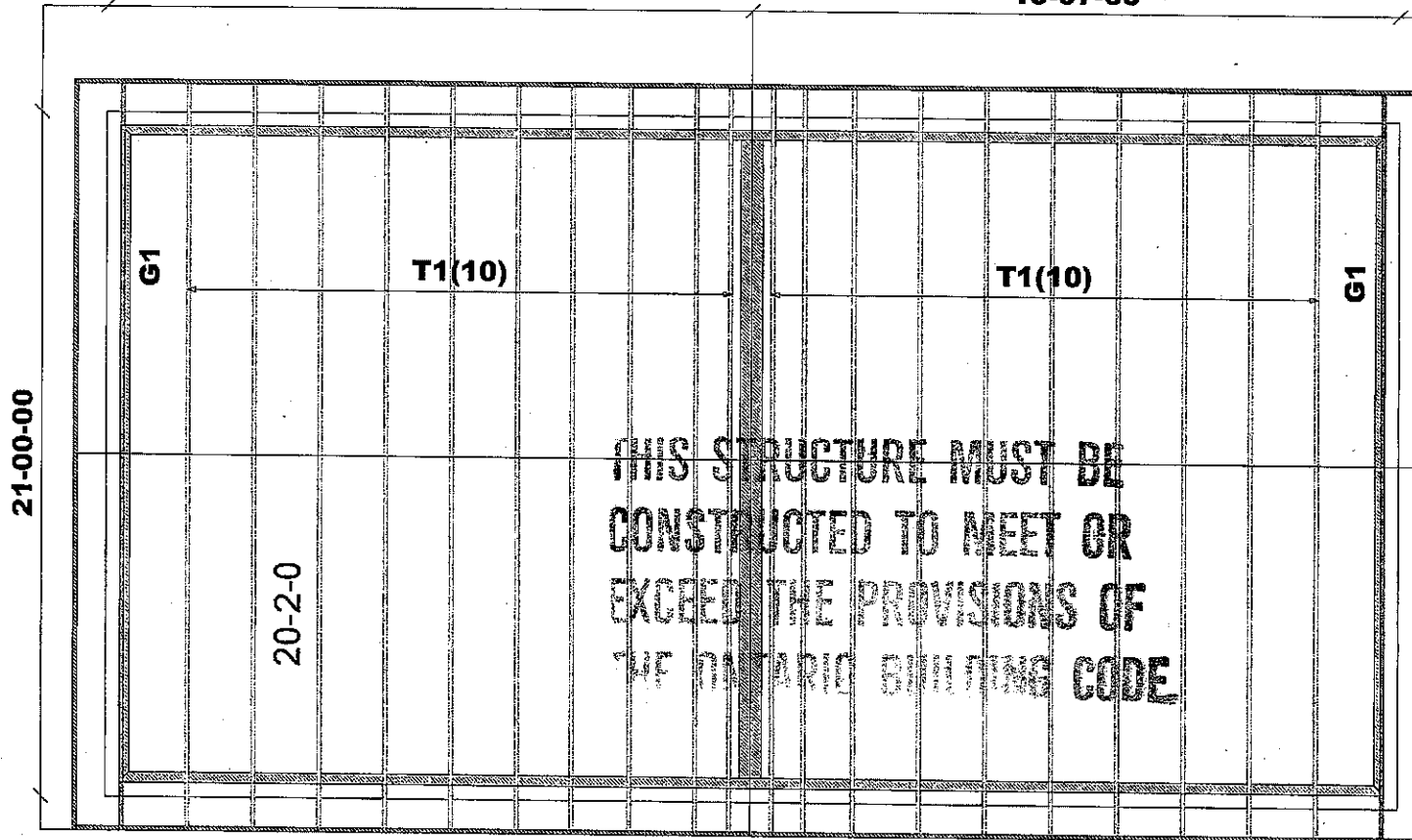


GALE 1B
TH 95-2 / 1
TH 96-3 / 1
401786
19-07-00

GALE 1B
TH 95-1 / 1
TH 96-2 / 1
401787
19-07-00

ASPHALT SHINGLES
12" FINISHED OH.
STD HEEL
2X4 EXTERIOR WALLS
2X6 FASCIA BOARD

DESIGN CONFORMS
WITH O.B.C.2012 PART 9
DESIGN LOADS:
SNOW LOAD 29.02 PSF
TC DEAD 6 PSF
BC LIVE 10.5 PSF
BC DEAD 7 PSF



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

TOWN OF CALEDON
BUILDING SECTION
FILE NO.

RECEIVED
AUG 15 2019

8/12



Job Track: 50033
Plan Log: 200645
Layout ID: 401785

Builder / Location:

GREEN PARK HOMES / CALEDON

Project: LAMBERT LANE PH.2

Date: 3/8/2019 Sales: Mario DiCano Designer: AC

Model / Elevation:

GALE 1B / 1 Block 95-3

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.

Milek ver 9.2.3.225

GALE 1B
TH 95-4 / 4
TH 96-5 / 3
401789

GALE 1B
TH 95-3 / 5
TH 96-4 / 2
401790

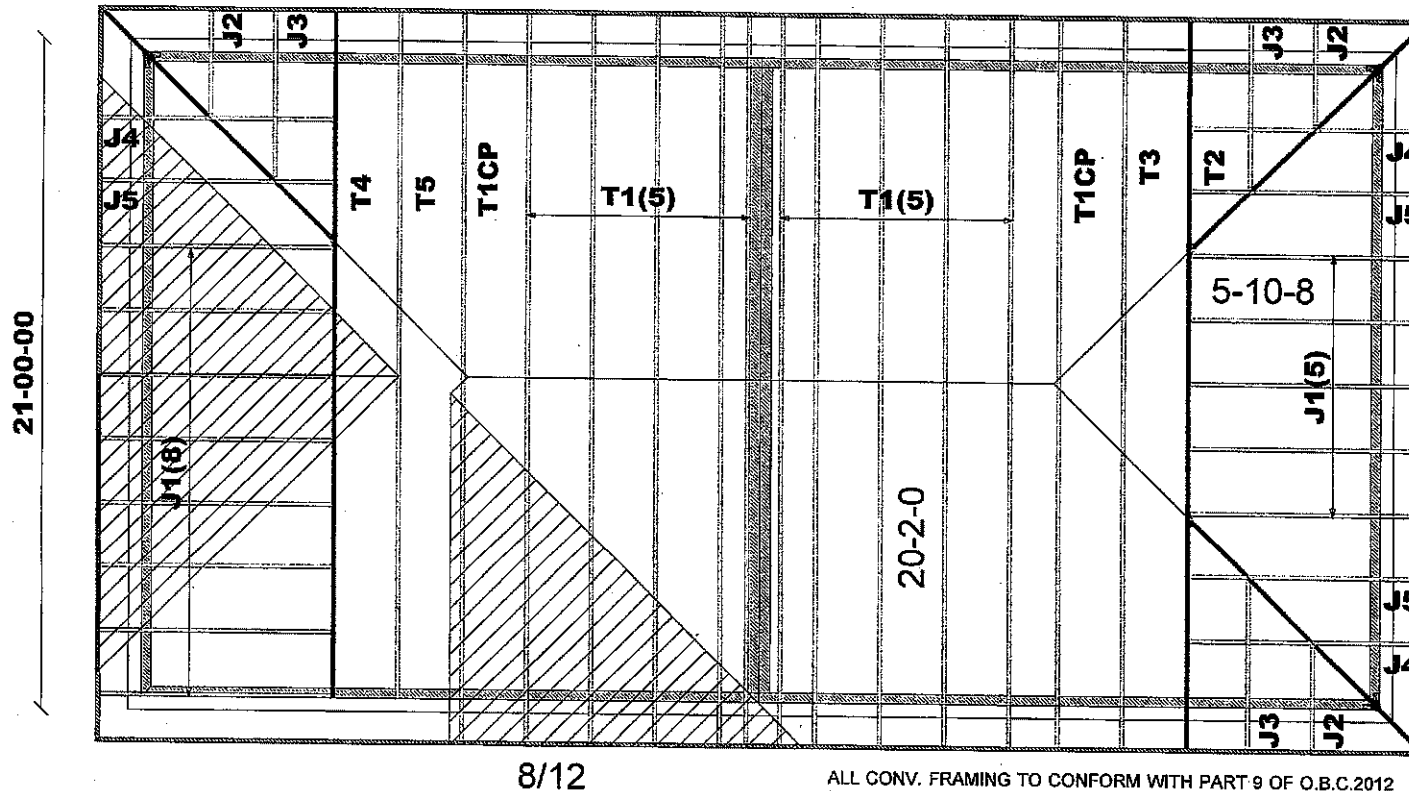
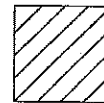
ASPHALT SHINGLES
12" FINISHED OH.
STD HEEL
2X4 EXTERIOR WALLS
2X6 FASCIA BOARD

19-07-00

19-07-00

DESIGN CONFORMS
WITH O.B.C.2012 PART 9
DESIGN LOADS:
SNOW LOAD 29.02 PSF
TC DEAD 6 PSF
BC LIVE 10.5 PSF
BC DEAD 7 PSF

DENOTES
CONV.
FRAMING



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



Job Track: **50033**
Plan Log: **200646**
Layout ID: **401788**

Builder / Location:

GREEN PARK HOMES / CALEDON

Project: **LAMBERT LANE PH.2**

Date: 3/8/2019 Sales: Mario DiCano Designer: AC

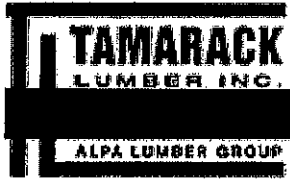
Model / Elevation:

GALE 1B / 2, 3, 4, 5

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OR REDISTRIBUTED IN ANY MANNER OR UTILIZED FOR ANY PURPOSE OTHER THAN THE MANUFACTURE OF TRUSSES BY
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PURPOSE.

Mitek ver 8.2.3.229

DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: LAMBERT LANE PH.2
 Location: CALEDON
 Model: GALE 1B
 Lot #:
 Elevation: TH95-1 / 1

Job Track: 50033
 PlanLog: 200645
 Layout ID: 401786
 Ref #
 Page: 1 of 1
 Date: 03/09/2019
 Designer: Andrew Conway
 Sales Rep: Mario DiCano

Roof Trusses

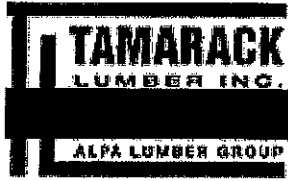
PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	10	T1 Common	8/12	20-02-00	7-11-03	2 x 4	1-03-08 1-03-08	4-07 4-07	722.64 446.67		
	1	G1 GABLE	8/12	20-02-00	7-11-03	2 x 4	1-03-08 1-03-08	4-07 4-07	80.64 51.17		

TOTAL # TRUSS= 11 TOTAL BFT OF ALL TRUSSES= 497.84 BFT. TOTAL WEIGHT OF ALL TRSSES 803.28 LBS

RECEIVED
 AUG 15 2019

TOWN OF CALEDON
 BUILDING SECTION
 FILE NO _____

DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: LAMBERT LANE PH.2
 Location: CALEDON
 Model: GALE 1B
 Lot #:
 Elevation: TH95-2 / 1

Job Track: 50033
 PlanLog: 200645
 Layout ID: 401787
 Ref #
 Page: 1 of 1
 Date: 03/09/2019
 Designer: Andrew Conway
 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
	10	T1 Common	8 / 12	20-02-00	7-11-03	2 x 4	1-03-08 1-03-08	4-07 4-07	722.64 446.67		
	1	G1 GABLE	8 / 12	20-02-00	7-11-03	2 x 4	1-03-08 1-03-08	4-07 4-07	80.64 51.17		

TOTAL # TRUSS= 11

TOTAL BFT OF ALL TRUSSES= 497.84

BFT. TOTAL WEIGHT OF ALL TRSSES 803.28 LBS



DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: LAMBERT LANE PH.2
 Location: CALEDON
 Model: GALE 1B
 Lot #:
 Elevation:

Job Track: 50033
 Plan Log: 200646
 Layout ID: 401789
 Ref #
 Page: 1 of 1
 Date: 03/09/2019
 Designer: Andrew Conway
 Sales Rep: Mario DiCano

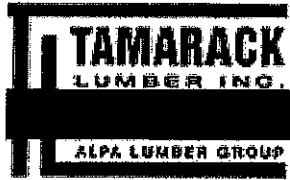
Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	5	T1 Common	8/12	20-02-00	7-11-03	2 x 4	1-03-08 1-03-08	4-07 4-07	361.32 223.33		
	1	T1CP Hip	8/12	20-02-00	7-09-09	2 x 4	1-03-08 1-03-08	4-07 4-07	72.09 44.67		
	1	T4 Half Hip Girder	8/12	20-02-00	5-01-09	2 x 4	1-03-08	4-07 4-03-07	79.99 50.33		
	1	T5 Half Hip	8/12	20-02-00	6-05-09	2 x 4	1-03-08	4-07 5-07-07	79.94 51.17		
	8	J1 Jack-Open	8/12	5-10-08	5-01-09	2 x 4	1-03-08	4-07 4-03-07	133.94 80.00		
	1	J2 Jack-Open	8/12	1-10-15	2-05-13	2 x 4	1-03-08 1-01	4-07 1-07-12	6.89 4.67		
	1	J3 Jack-Open	8/12	2-00-00	3-09-13	2 x 4	1-03-08 1-10-15	4-07 1-08-07	9.63 6.00		
	1	J4 Jack-Open	8/12	1-10-15	2-05-13	2 x 4	1-03-08 3-11-09	4-07 1-07-12	11.31 7.33		
	1	J5 Jack-Open	8/12	3-10-15	3-09-13	2 x 4	1-03-08 1-11-09	4-07 2-11-12	14.05 8.67		

TOTAL # TRUSS= 20 TOTAL BFT OF ALL TRUSSES= 476.17 BFT. TOTAL WEIGHT OF ALL TRSSES 769.17 LBS

RECEIVED
 AUG 15 2019

TOWN OF CALEDON
 BUILDING SECTION
 FILE NO. _____



DELIVERY SHIPLIST

Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: LAMBERT LANE PH.2
 Location: CALEDON
 Model: GALE 1B
 Lot #:
 Elevation:

Job Track: 50033
 PlanLog: 200646
 Layout ID: 401790
 Ref #
 Page: 1 of 1
 Date: 03/09/2019
 Designer: Andrew Conway
 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
	5	T1 Common	8/12	20-02-00	7-11-03	2 x 4	1-03-08 1-03-08	4-07 4-07	361.32 223.33		
	1	T1CP Hip	8/12	20-02-00	7-09-09	2 x 4	1-03-08 1-03-08	4-07 4-07	72.09 44.67		
	1	T2 Hip Girder	8/12	20-02-00	5-01-09	2 x 4	1-03-08 1-03-08	4-07 4-07	76.91 49.33		
	1	T3 Hip	8/12	20-02-00	6-05-09	2 x 4	1-03-08 1-03-08	4-07 4-07	74.43 47.83		
	5	J1 Jack-Open	8/12	5-10-08	5-01-09	2 x 4	1-03-08	4-07 4-03-07	83.71 50.00		
	2	J2 Jack-Open	8/12	1-10-15	2-05-13	2 x 4	1-03-08 1-01	4-07 1-07-12	13.78 9.33		
	2	J3 Jack-Open	8/12	2-00-00	3-09-13	2 x 4	1-03-08 1-10-15	4-07 1-08-07	19.27 12.00		
	2	J4 Jack-Open	8/12	1-10-15	2-05-13	2 x 4	1-03-08 3-11-09	4-07 1-07-12	22.62 14.67		
	2	J5 Jack-Open	8/12	3-10-15	3-09-13	2 x 4	1-03-08 1-11-09	4-07 2-11-12	28.1 17.33		

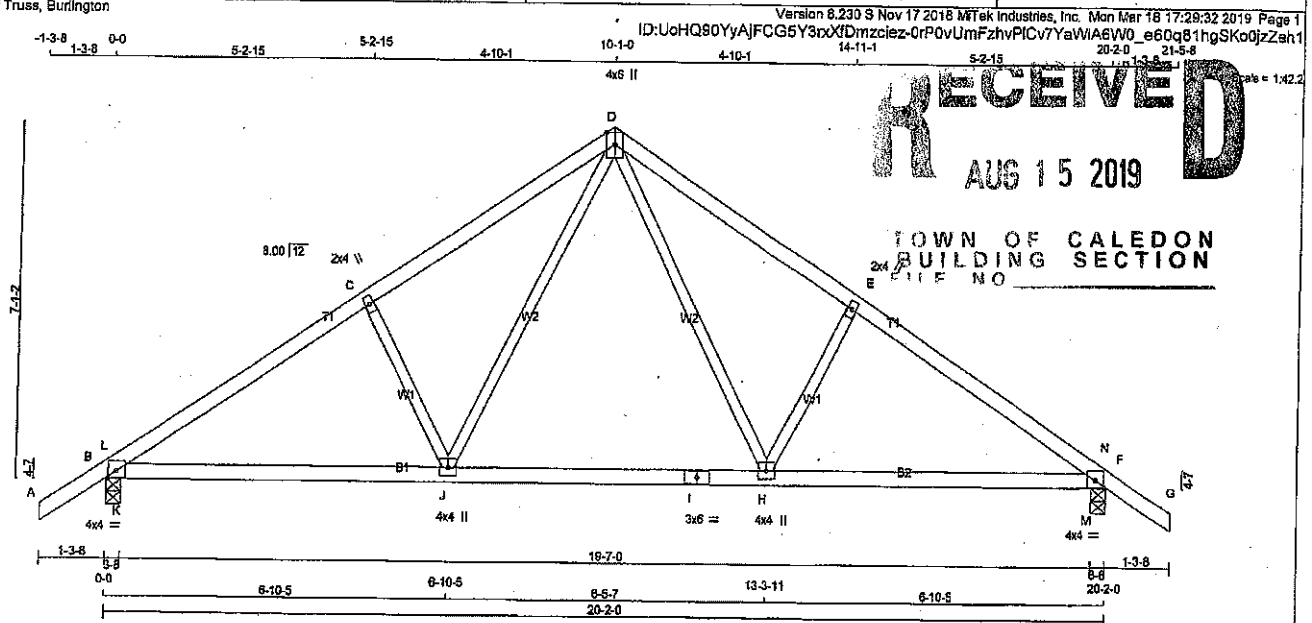
TOTAL # TRUSS= 21

TOTAL BFT OF ALL TRUSSES= 468.49

BFT.

TOTAL WEIGHT OF ALL TRSSES 752.24 LBS

JOB NAME 401788	TRUSS NAME T1	QUANTITY 10	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



TOTAL WEIGHT = 10 X 72 = 723 lb

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

PLATES (table is in inches)	W	LEN	Y	X
JT TYPE				
B TMB1-I	MT20	4.0	4.0	1.75 2.00
C TMW+w	MT20	2.0	4.0	
D TTWW+p	MT20	4.0	6.0	Edge
E TMW+w	MT20	2.0	4.0	
F TMB1-I	MT20	4.0	4.0	1.75 2.00
H BMWW+H	MT20	4.0	4.0	
I BS-I	MT20	3.0	6.0	
J BMWW+H	MT20	4.0	4.0	

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

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	DOWN	HORIZ	UPLIFT
B	1355	0	0	3-8
F	1355	0	0	3-8

UNFACTORED REACTIONS	1ST LCASE	MAX/MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW LIVE PERM LIVE WIND DEAD SOIL
B	552	665 / 0 0 / 0 0 / 0 287 / 0 0 / 0
F	552	665 / 0 0 / 0 0 / 0 287 / 0 0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.80 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED MAX. CSI (LC)	MAX. UNBRACED LENGTH (FT)	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO						FR-TO			
A-B	D / 37	-102.1	-102.1	0.14 (1)	10.00	D-H	0 / 681	0.15 (1)	
B-L	-1747 / 0	-102.1	-102.1	0.07 (1)	5.00	H-E	-508 / 0	0.13 (1)	
L-C	-1686 / 0	-102.1	-102.1	0.34 (1)	4.80	J-D	0 / 681	0.15 (1)	
C-D	-1458 / 0	-102.1	-102.1	0.33 (1)	5.07	C-J	-508 / 0	0.13 (1)	
D-E	-1458 / 0	-102.1	-102.1	0.33 (1)	5.07	K-L	-117 / 132	0.00 (1)	
E-N	-1666 / 0	-102.1	-102.1	0.34 (1)	4.80	M-N	-117 / 132	0.00 (1)	
N-F	-1747 / 0	-102.1	-102.1	0.07 (1)	5.00				
F-G	0 / 37	-102.1	-102.1	0.14 (1)	10.00				
B-K	0 / 1409	-18.5	-18.5	0.29 (1)	10.00				
K-J	0 / 1409	-18.5	-18.5	0.35 (1)	10.00				
J-I	0 / 803	-18.5	-18.5	0.25 (1)	10.00				
I-H	0 / 803	-18.5	-18.5	0.25 (1)	10.00				
H-M	0 / 1409	-18.5	-18.5	0.35 (1)	10.00				
M-F	0 / 1409	-18.5	-18.5	0.29 (1)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 28.0 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 42.4 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 CBC 2018, OSC 2012
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

ALLOWABLE DEFL.(LL) = L/380 (0.67")
CALCULATED VERT. DEFL.(LL) = L/698 (0.65")
ALLOWABLE DEFL.(TL) = L/380 (0.67")
CALCULATED VERT. DEFL.(TL) = L/999 (0.12")

CSI: TC=0.34/1.00 (C-L:1), BC=0.35/1.00 (J-K:1), WS=0.15/1.00 (D-J:1), SSI=0.20/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

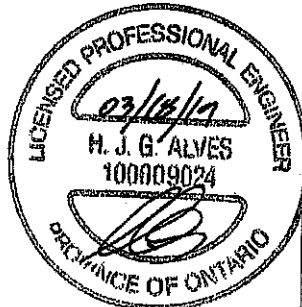
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES	PLATE GRIP (DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
	MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1667 738	1587 1656

PLATE PLACEMENT TOL. = 0.250 inches

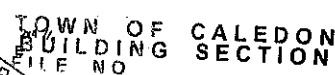
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.80 (F) (INPUT = 0.90)
JSI METAL= 0.68 (B) (INPUT = 1.00)



DRWG NO. TAM 7905975
STRUCTURAL
COMPONENT ONLY

Version 8.230 S Nov 17 2018 MTek Industries, Inc. Mon Mar 18 17:29:33 2019 Page 1
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-1-3-8 0-0 5-2-15 5-2-15 4-10-1 10-1-0 4-10-1 14-11-1 5-2-15 20-2-0 1-3-8
4x5 II Scale = 1:42.4



DWG NO. TAM 11905476
STRUCTURAL
COMPLEMENT ONLY

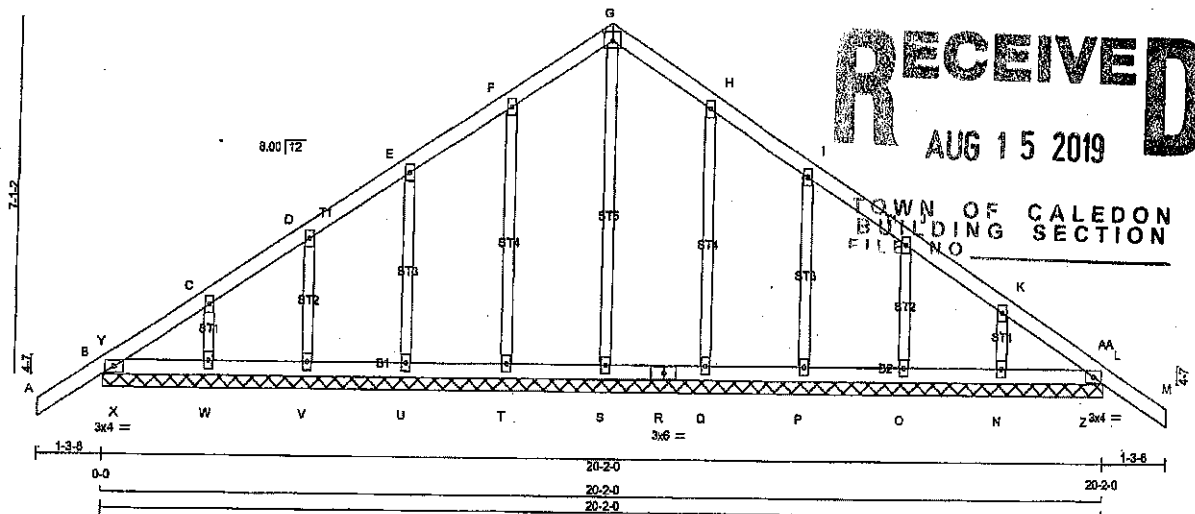
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401785	G1	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 Mittek Industries, Inc. Mon Mar 16 17:27:35 2019 Page 1

1-3-8 0-0 10-1-0 10-1-0 10-1-0 20-2-0 21-5-8 1-3-8

Scale = 1/4" = 1'-0"



TOTAL WEIGHT = 2 X B1 = 161 lb

LUMBER	CHORDS	SIZE	DRY	LUMBER	DESCR.
A - G	2x4	DRY	No.2	SPF	
G - M	2x4	DRY	No.2	SPF	
B - R	2x4	DRY	No.2	SPF	
R - L	2x4	DRY	No.2	SPF	
ALL WEBS	2x3	DRY	No.2	SPF	
ALL GABLE WEBS	2x3	DRY	No.2	SPF	
DRY: SEASONED LUMBER.					

GABLE STUDS SPACED AT 2-0-0 O.C.

PLATES (table in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMB1-I	MT20	3.0	4.0		
C, D, E, F, H, I, J, K					
C TTMW+w	MT20	2.0	4.0		
G TTMW-p	MT20	4.0	4.0	2.25	2.00
L TMB1-I	MT20	3.0	4.0		
N, O, P, Q, S, T, U, V, W					
N BMW1+w	MT20	2.0	4.0		
R BS+	MT20	3.0	6.0		

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

BEARINGS
THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.
THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	UNBRACED LENGTH FR-TO	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO	A-B	0/37	-102.1	-102.1	0.14 (1)	10.00	S-G	-138/0	0.12 (1)
	B-Y	-67/0	-102.1	-102.1	0.01 (4)	8.25	T-F	-232/0	0.12 (1)
	Y-C	-48/0	-102.1	-102.1	0.05 (1)	8.25	U-E	-198/0	0.05 (1)
	C-D	-47/0	-102.1	-102.1	0.05 (1)	8.25	V-D	-199/0	0.04 (1)
	D-E	-39/0	-102.1	-102.1	0.05 (1)	8.25	W-C	-205/0	0.03 (1)
	E-F	-31/0	-102.1	-102.1	0.05 (1)	8.25	Q-H	-232/0	0.12 (1)
	F-G	-41/0	-102.1	-102.1	0.06 (1)	8.25	P-I	-198/0	0.06 (1)
	G-H	-41/0	-102.1	-102.1	0.06 (1)	8.25	O-J	-199/0	0.04 (1)
	H-I	-31/0	-102.1	-102.1	0.05 (1)	8.25	N-K	-205/0	0.03 (1)
	I-J	-39/0	-102.1	-102.1	0.05 (1)	8.25	X-Y	-68/2	0.00 (1)
	J-K	-47/0	-102.1	-102.1	0.05 (1)	8.25	Z-AA	-68/2	0.00 (1)
	K-AA	-48/0	-102.1	-102.1	0.01 (4)	8.25			
	AA-L	-67/0	-102.1	-102.1	0.01 (4)	8.25			
	L-M	0/37	-102.1	-102.1	0.14 (1)	10.00			
	B-X	0/50	-18.5	-18.5	0.04 (1)	10.00			
	X-W	0/50	-18.5	-18.5	0.04 (1)	10.00			
	W-V	0/38	-18.5	-18.5	0.02 (1)	10.00			
	V-U	0/32	-18.5	-18.5	0.02 (4)	10.00			
	U-T	0/26	-18.5	-18.5	0.02 (4)	10.00			
	T-S	0/25	-18.5	-18.5	0.02 (4)	10.00			
	S-R	0/25	-18.5	-18.5	0.02 (4)	10.00			
	R-Q	0/25	-18.5	-18.5	0.02 (4)	10.00			
	Q-P	0/28	-18.5	-18.5	0.02 (4)	10.00			
	P-O	0/32	-18.5	-18.5	0.02 (4)	10.00			
	O-N	0/35	-18.5	-18.5	0.02 (1)	10.00			
	N-Z	0/50	-18.5	-18.5	0.04 (1)	10.00			
	Z-L	0/50	-18.5	-18.5	0.04 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
OL = 6.0 PSF
BOT CH. LL = 0.0 PSF
OL = 7.4 PSF
TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN. C/C

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

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

(55% OF 37.8 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: TO=0.14/1.00 (L-M:1), BC=0.04/1.00 (B-X:1), WS=0.12/1.00 (H-Q:1), SSI=0.08/1.00 (L-M:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

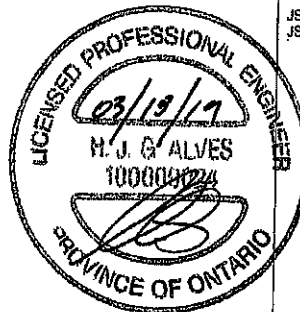
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
MT20	518	354	1857

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.47 (3) (INPUT = 0.90)
JSI METAL= 0.12 (H) (INPUT = 1.00)



DRWG NO. TAM1903473
STRUCTURAL
COMPONENT ONLY

JOB NAME 401788	TRUSS NAME T2	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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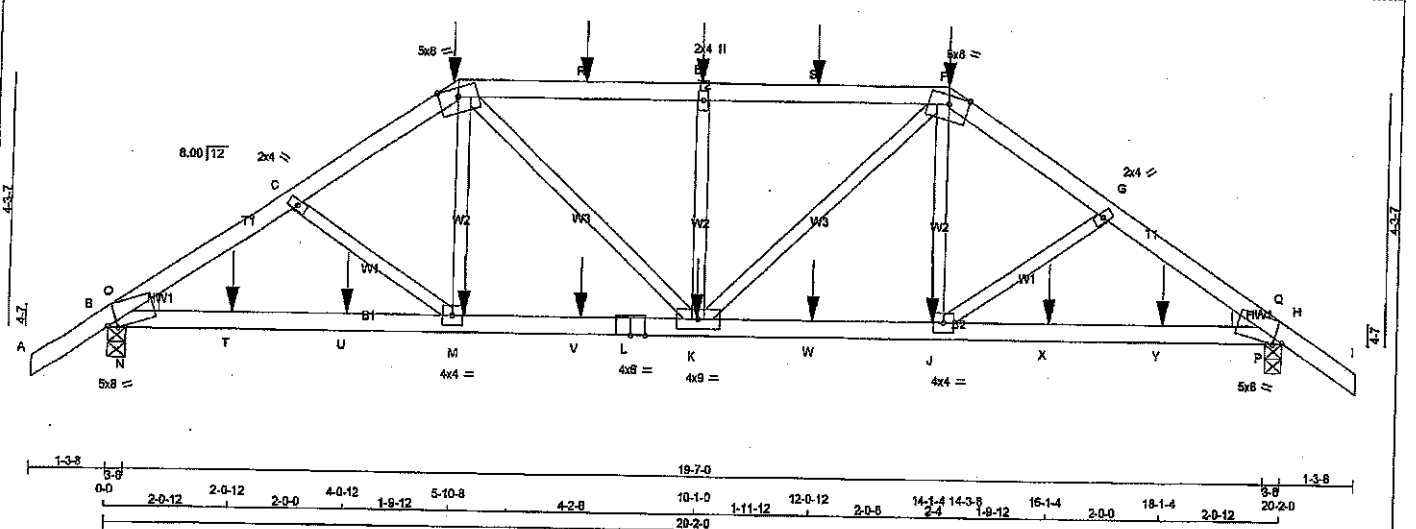
Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 Mitak Industries, Inc. Mon Mar 18 17:28:34 2019 Page 1

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1-3-8 0.0 3-1-11 3-1-11 2-8-13 5-10-8 2-2-4 8-0-12 2-0-0 10-0-12 10-1-0 12-0-12 2-2-12 14-3-8 2-8-13 17-0-5 2-1-11 20-2-0 1-3-8 21-8-8

Scale = 1:38.0



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
F - I	2x4	DRY	No.2	SPF
B - L	2x4	DRY	No.2	SPF
L - H	2x4	DRY	No.2	SPF

ALL WEBS 2x3 DRY
DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMB1-m	MT20	5.0	8.0	Edge	1.75
C, E, G					
D TMB1-m	MT20	2.0	4.0		
E TMB1-m	MT20	5.0	8.0	Edge	
F TMB1-m	MT20	5.0	8.0	Edge	
H TMB1-m	MT20	5.0	8.0	Edge	1.75
J BMWW4	MT20	4.0	4.0		
K BMWW4	MT20	4.0	4.0		
L BS-1	MT20	4.0	8.0		
M BMWW4	MT20	4.0	4.0		

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG	HEEL WEDGE
JT VERT					
B 2375	0	2375	0	3-8	2x4 L
H 2374	0	2374	0	3-8	2x4 R

UNFACTORED REACTIONS

	1ST LOASE	MAX/MIN COMPONENT REACTIONS					
JT COMBINED							
B 1670	1151 / 0	0 / 0	PERLIVE	WIND	DEAD	SOIL	
H 1668	1151 / 0	0 / 0	0 / 0	0 / 0	519 / 0	0 / 0	

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.02 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORZ. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORZ. LOAD (LC)	
FR-TO				FR-TO			
A-B	0 / 37	-102.1	-102.1 0.15 (1)	C-M	-281 / 0	0.07 (1)	
B-O	-3807 / 0	-102.1	-102.1 0.19 (1)	M-D	0 / 443	0.11 (1)	
O-C	-3530 / 0	-102.1	-102.1 0.28 (1)	D-K	0 / 783	0.19 (1)	
C-D	-3270 / 0	-102.1	-102.1 0.27 (1)	K-E	-898 / 0	0.26 (1)	
D-R	-3287 / 0	-102.1	-102.1 0.69 (1)	E-F	0 / 785	0.19 (1)	
R-E	-3287 / 0	-102.1	-102.1 0.69 (1)	F-G	0 / 442	0.11 (1)	
E-S	-3287 / 0	-102.1	-102.1 0.69 (1)	G-H	-291 / 0	0.07 (1)	
S-F	-3287 / 0	-102.1	-102.1 0.27 (1)	H-I	0 / 308	0.00 (1)	
F-G	-3268 / 0	-102.1	-102.1 0.27 (1)				
G-Q	-3529 / 0	-102.1	-102.1 0.28 (1)				
Q-H	-3805 / 0	-102.1	-102.1 0.19 (1)				
H-I	0 / 37	-102.1	-102.1 0.15 (1)				
B-N	0 / 2943	-18.5	-18.5 0.81 (1)				
N-T	0 / 2943	-18.5	-18.5 0.87 (1)				
T-U	0 / 2943	-18.5	-18.5 0.87 (1)				
U-M	0 / 2943	-18.5	-18.5 0.87 (1)				
M-V	0 / 2718	-18.5	-18.5 0.82 (1)				
V-L	0 / 2718	-18.5	-18.5 0.82 (1)				
L-K	0 / 2718	-18.5	-18.5 0.82 (1)				
K-W	0 / 2717	-18.5	-18.5 0.82 (1)				
W-J	0 / 2717	-18.5	-18.5 0.82 (1)				
J-X	0 / 2842	-18.5	-18.5 0.87 (1)				
X-Y	0 / 2842	-18.5	-18.5 0.87 (1)				
Y-P	0 / 2842	-18.5	-18.5 0.87 (1)				
P-H	0 / 2842	-18.5	-18.5 0.81 (1)				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
D	5-10-8	-483	-483		BACK	VERT	TOTAL		
E	10-0-12	-160	-160		BACK	VERT	TOTAL		
F	14-3-8	-483	-483		BACK	VERT	TOTAL		
J	14-1-4	-74	-74		BACK	VERT	TOTAL		
K	10-0-12	-74	-74		BACK	VERT	TOTAL		
M	6-0-12	-74	-74		BACK	VERT	TOTAL		
R	8-0-12	-160	-160		BACK	VERT	TOTAL		
S	12-0-12	-160	-160		BACK	VERT	TOTAL		
T	2-0-12	-67	-67		BACK	VERT	TOTAL		
U	4-0-12	-44	-44		BACK	VERT	TOTAL		
V	8-0-12	-74	-74		BACK	VERT	TOTAL		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
DL = 8.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM

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, CBC 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 (0.67")
CALCULATED VERT. DEFL. (LL) = L/989 (0.10")
ALLOWABLE DEFL. (TL) = L/360 (0.67")
CALCULATED VERT. DEFL. (TL) = L/989 (0.19")

CSI: TC=0.69/1.00 (D-E-1), SC=0.67/1.00 (M-N-1), WB=0.28/1.00 (E-K-1), SS=0.32/1.00 (E-F-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

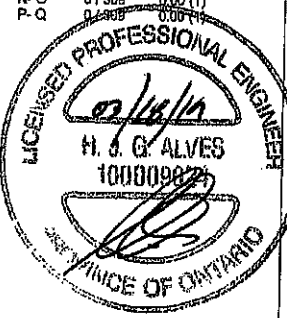
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 818 354 1687 788 1987 1858

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.78 (D) (INPUT = 0.90)
JSI METAL = 0.63 (L) (INPUT = 1.00)



DRWG NO. TAM 71905477
STRUCTURAL

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401788	T2	1	1	TRUSS DESC.		

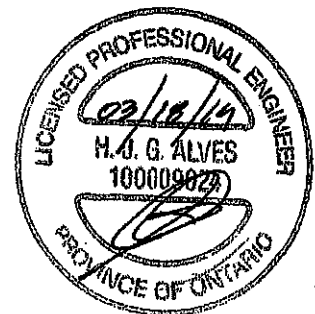
Tamarack Roof Truss, Burlington

Version 8.230 5 Nov 17 2018 M/Tek Industries, Inc. Mon Mar 18 17:29:35 2019 Page 2
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FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
W	12-0-12	-74	-74	—	BACK	VERT	TOTAL	—	—
X	16-1-4	-44	-44	—	BACK	VERT	TOTAL	—	—
Y	16-1-4	-67	-67	—	BACK	VERT	TOTAL	—	—

RECEIVED
AUG 15 2019

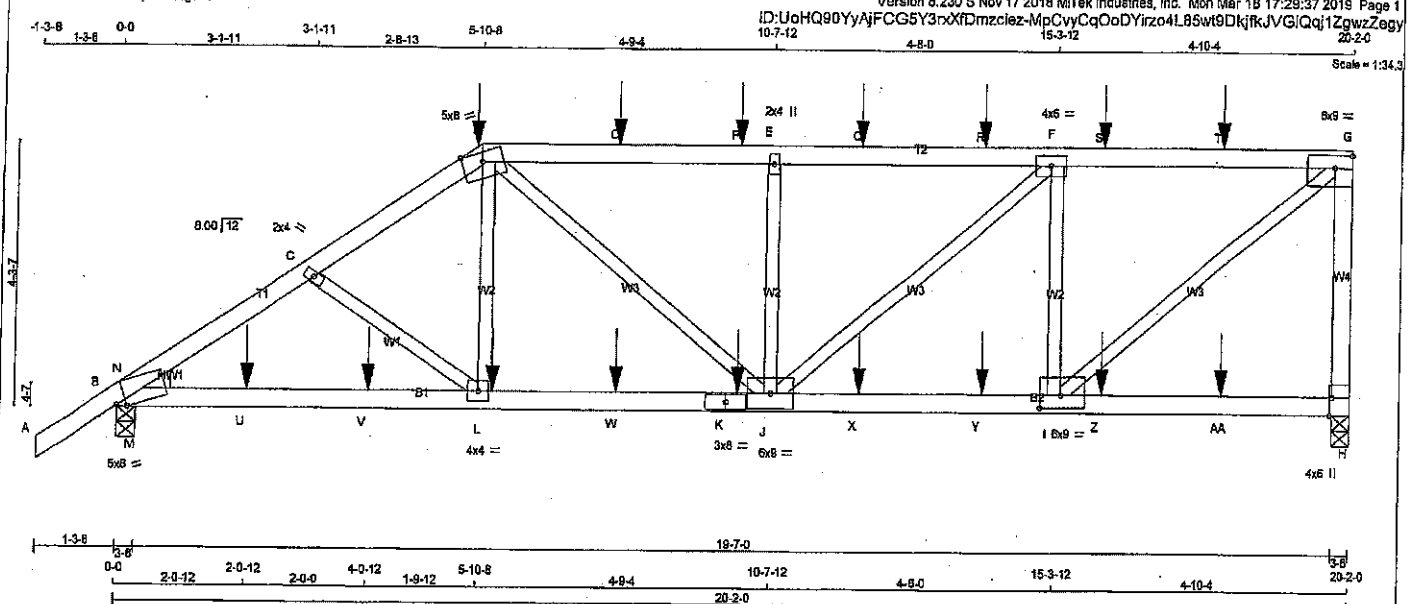
TOWN OF CALEDON
BUILDING SECTION
FILE NO. _____



DWG NO. TAM 77905477
STRUCTURAL
COMPONENT ONLY

3/2

Version 8.070 G Next 17 0040 1475-1480-1485-1490-1495-1500-1505-1510-1515-1520-1525-1530-1535-1540-1545-1550-1555-1560-1565-1570-1575-1580-1585-1590-1595-1600-1605-1610-1615-1620-1625-1630-1635-1640-1645-1650-1655-1660-1665-1670-1675-1680-1685-1690-1695-1700-1705-1710-1715-1720-1725-1730-1735-1740-1745-1750-1755-1760-1765-1770-1775-1780-1785-1790-1795-1800-1805-1810-1815-1820-1825-1830-1835-1840-1845-1850-1855-1860-1865-1870-1875-1880-1885-1890-1895-1900-1905-1910-1915-1920-1925-1930-1935-1940-1945-1950-1955-1960-1965-1970-1975-1980-1985-1990-1995-2000-2005-2010-2015-2020-2025-2030-2035-2040-2045-2050-2055-2060-2065-2070-2075-2080-2085-2090-2095-2100-2105-2110-2115-2120-2125-2130-2135-2140-2145-2150-2155-2160-2165-2170-2175-2180-2185-2190-2195-2200-2205-2210-2215-2220-2225-2230-2235-2240-2245-2250-2255-2260-2265-2270-2275-2280-2285-2290-2295-2300-2305-2310-2315-2320-2325-2330-2335-2340-2345-2350-2355-2360-2365-2370-2375-2380-2385-2390-2395-2400-2405-2410-2415-2420-2425-2430-2435-2440-2445-2450-2455-2460-2465-2470-2475-2480-2485-2490-2495-2500-2505-2510-2515-2520-2525-2530-2535-2540-2545-2550-2555-2560-2565-2570-2575-2580-2585-2590-2595-2600-2605-2610-2615-2620-2625-2630-2635-2640-2645-2650-2655-2660-2665-2670-2675-2680-2685-2690-2695-2700-2705-2710-2715-2720-2725-2730-2735-2740-2745-2750-2755-2760-2765-2770-2775-2780-2785-2790-2795-2800-2805-2810-2815-2820-2825-2830-2835-2840-2845-2850-2855-2860-2865-2870-2875-2880-2885-2890-2895-2900-2905-2910-2915-2920-2925-2930-2935-2940-2945-2950-2955-2960-2965-2970-2975-2980-2985-2990-2995-3000-3005-3010-3015-3020-3025-3030-3035-3040-3045-3050-3055-3060-3065-3070-3075-3080-3085-3090-3095-3100-3105-3110-3115-3120-3125-3130-3135-3140-3145-3150-3155-3160-3165-3170-3175-3180-3185-3190-3195-3200-3205-3210-3215-3220-3225-3230-3235-3240-3245-3250-3255-3260-3265-3270-3275-3280-3285-3290-3295-3300-3305-3310-3315-3320-3325-3330-3335-3340-3345-3350-3355-3360-3365-3370-3375-3380-3385-3390-3395-3400-3405-3410-3415-3420-3425-3430-3435-3440-3445-3450-3455-3460-3465-3470-3475-3480-3485-3490-3495-3500-3505-3510-3515-3520-3525-3530-3535-3540-3545-3550-3555-3560-3565-3570-3575-3580-3585-3590-3595-3600-3605-3610-3615-3620-3625-3630-3635-3640-3645-3650-3655-3660-3665-3670-3675-3680-3685-3690-3695-3700-3705-3710-3715-3720-3725-3730-3735-3740-3745-3750-3755-3760-3765-3770-3775-3780-3785-3790-3795-3800-3805-3810-3815-3820-3825-3830-3835-3840-3845-3850-3855-3860-3865-3870-3875-3880-3885-3890-3895-3900-3905-3910-3915-3920-3925-3930-3935-3940-3945-3950-3955-3960-3965-3970-3975-3980-3985-3990-3995-4000-4005-4010-4015-4020-4025-4030-4035-4040-4045-4050-4055-4060-4065-4070-4075-4080-4085-4090-4095-4100-4105-4110-4115-4120-4125-4130-4135-4140-4145-4150-4155-4160-4165-4170-4175-4180-4185-4190-4195-4200-4205-4210-4215-4220-4225-4230-4235-4240-4245-4250-4255-4260-4265-4270-4275-4280-4285-4290-4295-4300-4305-4310-4315-4320-4325-4330-4335-4340-4345-4350-4355-4360-4365-4370-4375-4380-4385-4390-4395-4400-4405-4410-4415-4420-4425-4430-4435-4440-4445-4450-4455-4460-4465-4470-4475-4480-4485-4490-4495-4500-4505-4510-4515-4520-4525-4530-4535-4540-4545-4550-4555-4560-4565-4570-4575-4580-4585-4590-4595-4600-4605-4610-4615-4620-4625-4630-4635-4640-4645-4650-4655-4660-4665-4670-4675-4680-4685-4690-4695-4700-4705-4710-4715-4720-4725-4730-4735-4740-4745-4750-4755-4760-4765-4770-4775-4780-4785-4790-4795-4800-4805-4810-4815-4820-4825-4830-4835-4840-4845-4850-4855-4860-4865-4870-4875-4880-4885-4890-4895-4900-4905-4910-4915-4920-4925-4930-4935-4940-4945-4950-4955-4960-4965-4970-4975-4980-4985-4990-4995-5000-5005-5010-5015-5020-5025-5030-5035-5040-5045-5050-5055-5060-5065-5070-5075-5080-5085-5090-5095-5100-5105-5110-5115-5120-5125-5130-5135-5140-5145-5150-5155-5160-5165-5170-5175-5180-5185-5190-5195-5200-5205-5210-5215-5220-5225-5230-5235-5240-5245-5250-5255-5260-5265-5270-5275-5280-5285-5290-5295-5300-5305-5310-5315-5320-5325-5330-5335-5340-5345-5350-5355-5360-5365-5370-5375-5380-5385-5390-5395-5400-5405-5410-5415-5420-5425-5430-5435-5440-5445-5450-5455-5460-5465-5470-5475-5480-5485-5490-5495-5500-5505-5510-5515-5520-5525-5530-5535-5540-5545-5



LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR
A - D	2x4	DRY	No.2
D - G	2x4	DRY	No.2
H - G	2x4	DRY	No.2
B - K	2x4	DRY	No.2
K - H	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-m	MT20	5.0	8.0	Edge	1.75
C	TMW+w	MT20	2.0	4.0		
D	TTWW-m	MT20	5.0	8.0	Edge	
E	TMW+w	MT20	2.0	4.0		
F	TMW-w	MT20	4.0	6.0		
G	TTWW-L	MT20	6.0	9.0	2.50	Edge
H	BMV1-H	MT20	4.0	6.0	Edge	0.50
I	BMWW-L	MT20	6.0	8.0	2.50	4.00
J	BMWW-L	MT20	6.0	9.0		
K	BS-L	MT20	3.0	8.0		
L	BMWW-L	MT20	4.0	4.0		

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

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

BEARINGS								
JT	FACTORED		MAXIMUM FACTORED			INPUT	REORD	HEEL
	VERT	HORZ	GROSS REACTION	HORZ	UPLIFT	BRG	BRG	
H	2305	0	2305	0	0	3-8	3-8	WEDGE
B	2337	0	2337	0	0	3-8	3-8	

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERMLIVE	WIND	DEAD	SOIL
B	1622	1111 / 0	0 / 0	0 / 0	0 / 0	511 / 0	0 / 0
H	1843	1132 / 0	0 / 0	0 / 0	0 / 0	512 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.76 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY
APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBB				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED MAX CSI (LC)		
FR-TO		FROM TO			FR-TO				
A-B	0 / 37	-102.1	-102.1	0.15 (1)	10.00	C-L	-290 / 0	0.07 (1)	
B-N	-3734 / 0	-102.1	-102.1	0.19 (1)	3.49	L-D	0 / 457	0.11 (1)	
N-C	-3406 / 0	-102.1	-102.1	0.27 (1)	3.53	D-G	0 / 3063	0.78 (1)	
C-D	-3285 / 0	-102.1	-102.1	0.27 (1)	3.88	I-J	0 / 882	0.17 (1)	
D-O	-3189 / 0	-102.1	-102.1	0.80 (1)	2.91	J-E	-1652 / 0	0.48 (1)	
O-P	-3189 / 0	-102.1	-102.1	0.80 (1)	2.91	I-F	-910 / 0	0.26 (1)	
P-E	-3189 / 0	-102.1	-102.1	0.80 (1)	2.91	J-F	0 / 1086	0.27 (1)	
E-Q	-3189 / 0	-102.1	-102.1	0.85 (1)	2.76	M-N	0 / 294	0.50 (1)	
Q-R	-3189 / 0	-102.1	-102.1	0.85 (1)	2.78				
R-F	-3189 / 0	-102.1	-102.1	0.85 (1)	2.76				
F-S	-2385 / 0	-102.1	-102.1	0.78 (1)	3.37				
S-T	-2385 / 0	-102.1	-102.1	0.78 (1)	3.37				
T-G	-2385 / 0	-102.1	-102.1	0.78 (1)	3.37				
H-G	-2229 / 0	0.0	0.0	0.88 (1)	5.85				
B-M	0 / 2890	-18.5	-18.5	0.60 (1)	10.00				
M-U	0 / 2890	-18.5	-18.5	0.67 (1)	10.00				
U-V	0 / 2890	-18.5	-18.5	0.67 (1)	10.00				
V-L	0 / 2890	-18.5	-18.5	0.87 (1)	10.00				
L-W	0 / 2866	-18.5	-18.5	0.83 (1)	10.00				
W-K	0 / 2866	-18.5	-18.5	0.63 (1)	10.00				
K-J	0 / 2866	-18.5	-18.5	0.63 (1)	10.00				
J-X	0 / 2365	-18.5	-18.5	0.59 (1)	10.00				
X-Y	0 / 2365	-18.5	-18.5	0.59 (1)	10.00				
Y-I	0 / 2365	-18.5	-18.5	0.59 (1)	10.00				
I-Z	0 / 0	-18.5	-18.5	0.22 (4)	10.00				
Z-AA	0 / 0	-18.5	-18.5	0.22 (4)	10.00				
AA-H	0 / 0	-18.5	-18.5	0.22 (4)	10.00				

03/18/14

H. J. G. ALVE

10009822

PROFESSIONAL ENGINEER

STATE OF OHIO

FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR	TYPE	HEEL	CONN.
D	5-10-8	-483	-483	—	FRONT	VERT	TOTAL	—	—
K	10-1-4	-74	-74	—	FRONT	VERT	TOTAL	—	—
L	6-1-4	-74	-74	—	FRONT	VERT	TOTAL	—	—
O	8-1-4	-180	-180	—	FRONT	VERT	TOTAL	—	—
P	10-1-4	-160	-160	—	FRONT	VERT	TOTAL	—	—
Q	12-1-4	-160	-160	—	FRONT	VERT	TOTAL	—	—
R	14-1-4	-160	-160	—	FRONT	VERT	TOTAL	—	—
S	16-1-4	-160	-160	—	FRONT	VERT	TOTAL	—	—
T	18-1-4	-160	-160	—	FRONT	VERT	TOTAL	—	—

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	29.0	PSF
	DL =	5.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.4	PSF
TOTAL LOAD	=	42.4	PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A
SLOPE OF 2.00/12 MINIMUM

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

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

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

ALLOWABLE DEFL(LL)= $L/360$ (0.87")
 CALCULATED VERT. DEFL(LL) = $L/999$ (0.11")
 ALLOWABLE DEFL(TL)= $L/360$ (0.87")
 CALCULATED VERT. DEFL(TL) = $L/999$ (0.20")

CSI: TC=0.85/1.00 (E-F:1), BC=0.67/1.00 (L-M:
WB=0.78/1.00 (G-I:1), SSI=0.46/1.00 (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	GRIP (DRY)		SHEAR		SECTION	
	(PSI)		(PLI)		(PLI)	
	MAX	MIN	MAX	MIN	MAX	MIN
M720	618	354	1667	786	1987	1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.76 (I) (INPUT = 0.90)
JSI METAL= 0.81 (K) (INPUT = 1.00)

DWG NO. TAM 11905479
STRUCTURAL
COMPONENTS ONLY 1/2

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
401788	T4	1	1	TRUSS DESC.		

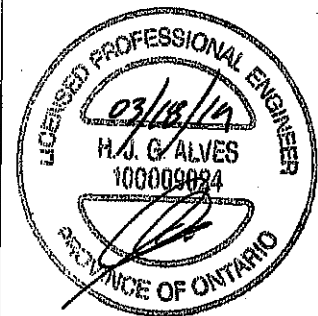
Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MiTek Industries, Inc. Mon Mar 18 17:28:38 2019 Page 2
ID:UoHQ80YyAIFCG5Y3pxfDmzciez-1?mH9Xg0ZxgZT7NHurd8QMmyT34YEI a2Nn7CMzZegx

FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
U	2-0-12	-67	-67	—	FRONT	VERT	TOTAL	—	—
V	4-0-12	-44	-44	—	FRONT	VERT	TOTAL	—	—
W	6-1-4	-74	-74	—	FRONT	VERT	TOTAL	—	—
X	12-1-4	-74	-74	—	FRONT	VERT	TOTAL	—	—
Y	14-1-4	-74	-74	—	FRONT	VERT	TOTAL	—	—
Z	16-1-4	-74	-74	—	FRONT	VERT	TOTAL	—	—
AA	18-1-4	-74	-74	—	FRONT	VERT	TOTAL	—	—

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TOWN OF CALEDON
BUILDING SECTION
FILE NO.



DWG NO. TAM 71705479
STRUCTURAL
COMPONENT ONLY
3/2

Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MTek Industries, Inc. Mon Mar 18 17:29:38 2019 Page 1
ID:UoHQ90YyAjFCG5Y3rxXfDmzciez-r?mH9Xq0ZXgZT7NHurd9QMmxg39SEp1a2Nn7CMzZegx



PLATES (table is in inches)

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

UNFACTORED REACTIONS

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

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)

DESIGN CRITERIA

SPECIFIED LOADS:			
TOP CH.	LL =	28.0	PSF
	DL =	6.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.4	PSF
TOTAL LOAD =		42.4	PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A
SLOPE OF 2.00/12 MINIMUM

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

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

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

ALLOWABLE DEFL(LL)= L/360 (0.67")
CALCULATED VERT. DEFL(LL)= L/999 (0.04")
ALLOWABLE DEFL(TL)= L/360 (0.67")
CALCULATED VERT. DEFL(TL)= L/999 (0.13")

CSI: TC=0.71/1.00 (E-F;1), BC=0.35/1.00 (J-K;1),
WB=0.37/1.00 (E-H;1), SSI=0.31/1.00 (E-F;1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES						
PLATE	GRIP(DRY)		SHEAR		SECTION	
	(PSI)		(PLI)		(PLI)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT2D	618	354	1667	788	1987	1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

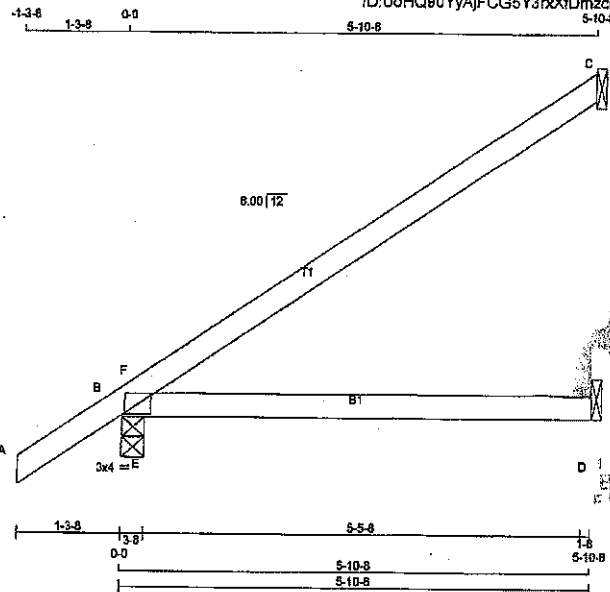
JSI GRIP= 0.80 (B) (INPUT = 0.90)
JSI METAL= 0.89 (B) (INPUT = 1.00)



JOB NAME 401788	TRUSS NAME J1	QUANTITY 13	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 Mitek Industries, Inc. Mon Mar 18 17:28:27 2019 Page 1
ID:UoHQ80YyAJFCG5Y3nxKIDmzciez-fuc7snl699H7FQ19l1waT2p7PeQT9w6yXAc2KVzZeh6



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

TOWN OF CALEDON
BUILDING SECTION
FILE NO.

TOTAL WEIGHT = 13 X 17 = 218 lb

LUMBER

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

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

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
C	262	0	262	0
B	494	0	494	0
D	92	0	92	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
C	180	145 / 0	0 / 0	0 / 0	0 / 0	35 / 0	0 / 0
B	345	250 / 0	0 / 0	0 / 0	0 / 0	95 / 0	0 / 0
D	69	26 / 0	0 / 0	0 / 0	0 / 0	43 / 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)

MEMB.	CHORDS	WEBS
	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO	0 / 37	0 / 0
A-B	-32 / 264	-102.1 / -102.1
B-F	-13 / 2	-102.1 / -102.1
F-C		-102.1 / -102.1
B-E	0 / 0	-18.5 / -18.5
E-D	0 / 0	-18.5 / -18.5

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN. C/C

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

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

(55 % OF 37.6 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/910 (0.08")
ALLOWABLE DEFL. (TL) = L/360 (0.20")
CALCULATED VERT. DEFL. (TL) = L/453 (0.16")

CSI TC=0.48/1.00 (C-F:1), BC=0.31/1.00 (D-E:1), WB=0.00/1.00 (E-F:1), SSI=0.59/1.00 (B-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

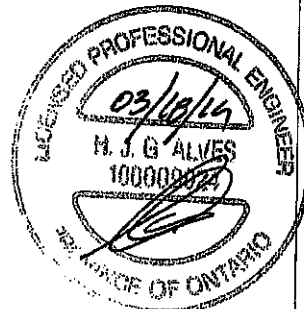
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1887 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.42 (B) (INPUT = 0.80)
JSI METAL= 0.10 (B) (INPUT = 1.00)



DWG NO. TAM 1905481
STRUCTURAL
COMPONENT ONLY

Version: 6.23a 31 Nov 17 2018 Miller Industries, Inc. Mon Mar 18 17:25:28 2019 Page 1
ID: UoHQ80YyAJFCG5Y3nxDmzclez-74AV37JkwSP_GacMJIRp0GLNA1qhuNM5qIMbsxzZeh5
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Scale = 1:13.1



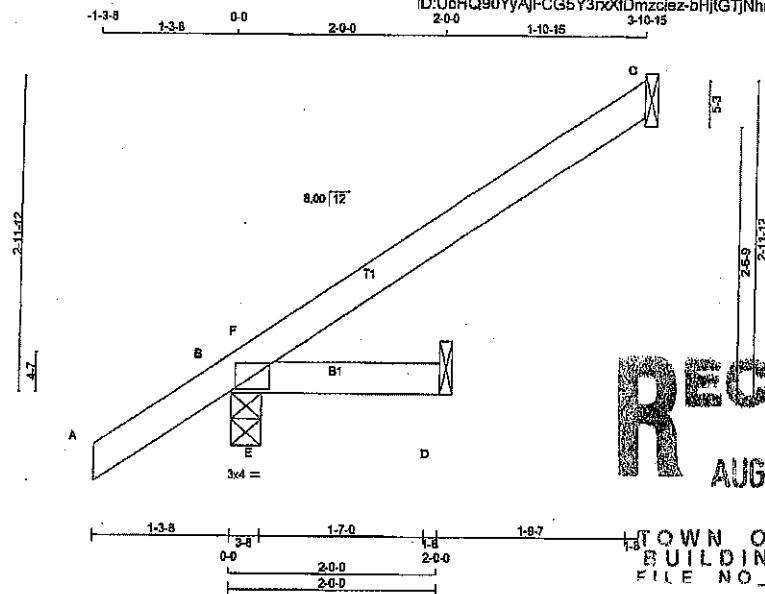
DWG NO. TAM 7705482
STRUCTURAL
COMPONENT ONLY

JOB NAME 401788	TRUSS NAME J3	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.230 S Nov 17 2018 MTEK Industries, Inc. Mon Mar 18 17:28:28 2018 Page 1
ID:UcHQ90YyAJFCG5Y3nxIDmzclez-bHjGTJNhmXrukBYISy2YTUyRR6rdqcF_U58PozZeh4

Scale = 1:20.1



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TOWN OF CALEDON
BUILDING SECTION
FILE NO

TOTAL WEIGHT = 3 X 10 = 29 lb

LUMBER

N. L. G. A. RULES

CHORDS SIZE

A - C 2x4 DRY

B - D 2x4 DRY

LUMBER

No.2

DESCR.

SPF

SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE PLATES

B TM20-MT20

W LEN Y X

3.0 4.0

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
C	159	0	159	0
B	319	0	319	0
D	99	0	99	0

SEE MITEK STANDARD DETAIL B37621H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
JT	COMBINED					
C	109	80/0	0/0	0/0	19/0	0/0
B	221	170/0	0/0	0/0	51/0	0/0
D	70	47/0	0/0	0/0	23/0	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: (5)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	W E B S. MAX. FACTORED FORCE (LBS)
FR-TO				
A-B	0/37	-102.1	10.00	0/0
B-F	0/194	-102.1	10.00	0/0
F-C	-14/0	-102.1	10.00	0/0
B-E	0/0	-18.5	10.00	0/0
E-D	0/0	-18.5	10.00	0/0

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN. C/C

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/899 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/998 (0.01")

CSI: TC=0.17/1.00 (C-F:1), BC=0.19/1.00 (D-E:1), WB=0.00/1.00 (E-F:1), SSI=0.38/1.00 (B-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

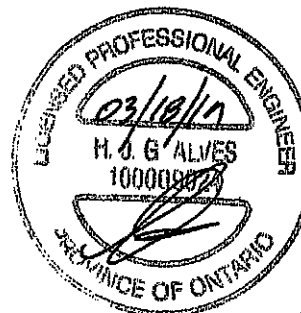
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 768 1987 1658

PLATE PLACEMENT TOL. = 0.260 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.28 (B) (INPUT = 0.90)
JSI METAL=0.05 (B) (INPUT = 1.00)



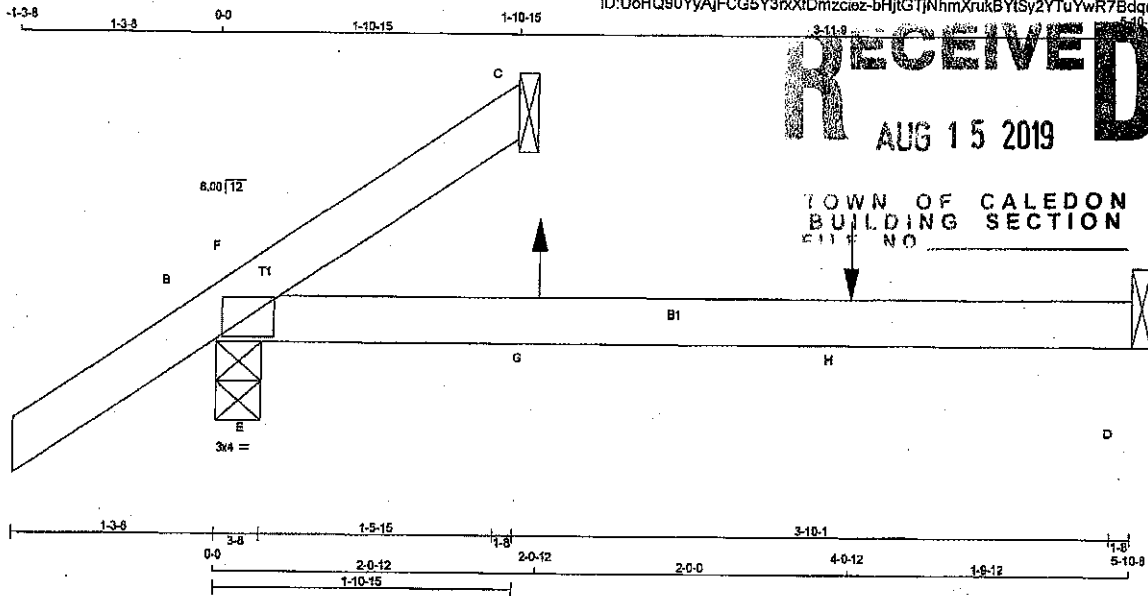
DWG NO. 1117905483
STRUCTURAL
COMPONENT ONLY

JOB NAME 401788	TRUSS NAME J4	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 6.230 S Nov 17 2018 Mitek Industries, Inc. Mon Mar 18 17:29:29 2019 Page 1
ID:UoHQ90YyAJFCGSY3rxXIDmzcioz-bHjGTjNhmXrukBYISy2YTuYwR7Bdqcf_U58PozZeh4

Scale = 1:13.4



TOTAL WEIGHT = 3 X 11 = 34 lb

LUMBER

CHORDS	SIZE	DRY	LUMBER
A - C	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	

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	REQ'D BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
C	112	0	112	0	1-8	1-8
B	318	0	318	0	3-8	3-8
D	88	0	88	0	1-8	1-8

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

UNFACTORED REACTIONS

JT	COMBINED	MAX/MIN COMPONENT REACTIONS				
		SNOW	LIVE	PERMIVE	WIND	DEAD
C	81	44/0	0/0	0/0	0/0	37/0
B	222	163/0	0/0	0/0	0/0	59/0
D	64	25/-4	0/0	0/0	0/0	39/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLINE 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: (7)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD		MAX. CSI (LC)	MAX. UNBRACED LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
		FROM	TO					
A-B	0/37	-102.1	-102.1	0.14 (1)	10.00	E-F	0/403	0.00 (1)
B-F	-301/0	-102.1	-102.1	0.13 (1)	6.25			
F-C	-1/21	-102.1	-102.1	0.13 (4)	10.00			
B-E	0/0	-18.5	-18.5	0.13 (1)	10.00			
E-G	0/0	-18.5	-18.5	0.17 (1)	10.00			
G-H	0/0	-18.5	-18.5	0.17 (1)	10.00			
H-D	0/0	-18.5	-18.5	0.17 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	2-0-12	9	1	23	BACK	VERT	TOTAL	-	-
H	4-0-12	-80	-80	-	BACK	VERT	TOTAL	-	-

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 29.0 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 42.4 PSF

SPACING = 24.0 IN/CIG

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

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

(55 % OF 37.6 P.S.F. G.S.L. PLUS 6.4 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) = $L/999$ (0.02")
ALLOWABLE DEFL. (TL) = $L/360$ (0.20")
CALCULATED VERT. DEFL. (TL) = $L/999$ (0.05")

CSI: TC=0.14/1.00 (A-B:1), BC=0.17/1.00 (D-E:1),
WB=0.00/1.00 (E-F:1), SS=0.28/1.00 (B-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PL)	(PL)	
MAX	MIN	MAX	MIN
MT20	818	354	1897

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

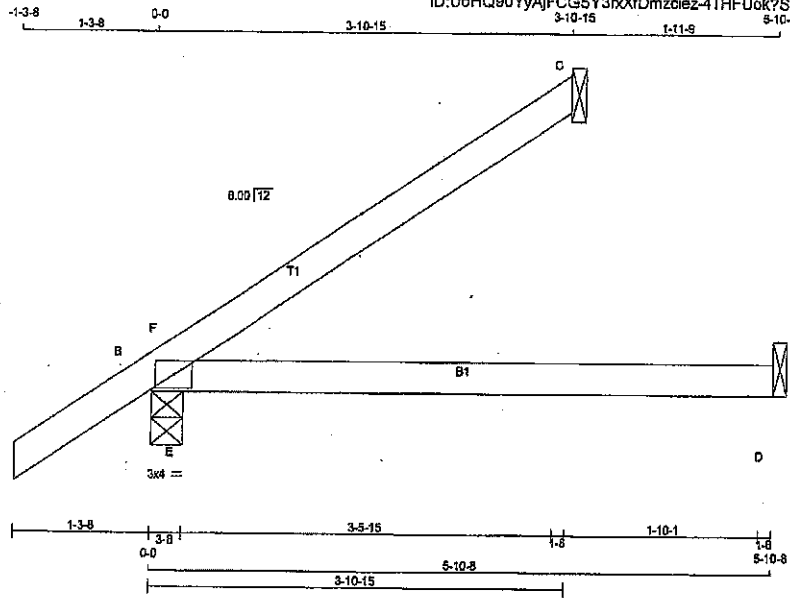
JSI GRIP= 0.21 (B) (INPUT = 0.90)

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



DWG NO. 1474 11905484
STRUCTURAL
COMPUTER FILE

JOB NAME 401788	TRUSS NAME J5	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



LUMBER

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMB1-I	MT20	3.0	4.0		

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
C	188	0	188	0
B	398	0	398	0
D	62	0	62	0

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

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
C	130	99/0	0/0	0/0	0/0	31/0	0/0
B	279	198/0	0/0	0/0	0/0	81/0	0/0
D	48	9/0	0/0	0/0	0/0	39/0	0/0

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

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	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE	VERT. LOAD LC1	MEMB.	FORCE
	(LBS)	(PLF)		(LBS)
FR-TO		FROM TO	FR-TO	
A-B	0/37	-102.1 -102.1 0.14 (1)	E-F	-155/130 0.00 (1)
B-F	-95/0	-102.1 -102.1 0.10 (4)		
F-C	0/7	-102.1 -102.1 0.23 (1)		
B-E	0/0	-18.5 -18.5 0.08 (1)		
E-D	0/0	-18.5 -18.5 0.15 (4)		

DESIGN CRITERIA

SPECIFIED LOADS:	TOP CH.	LL	=	28.0	PSF
	DL	=	6.0	PSF	
	BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF	
	TOTAL LOAD	=	42.4	PSF	

SPACING = 24.0 IN/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, OBC 2012
- CSA 086-09, 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/998 (0.03")
ALLOWABLE DEFL.(TL) = L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/920 (0.08")

CSI: TC=0.23/1.00 (C-F:1), BC=0.15/1.00 (D-E:4), WB=0.00/1.00 (E-F:1), SS=0.16/1.00 (B-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

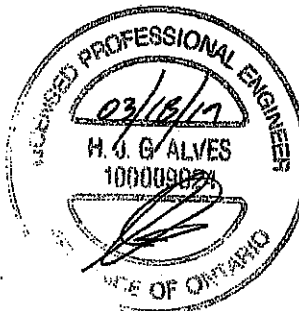
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
	MAX	MIN	MAX
MT20	618	354	1657

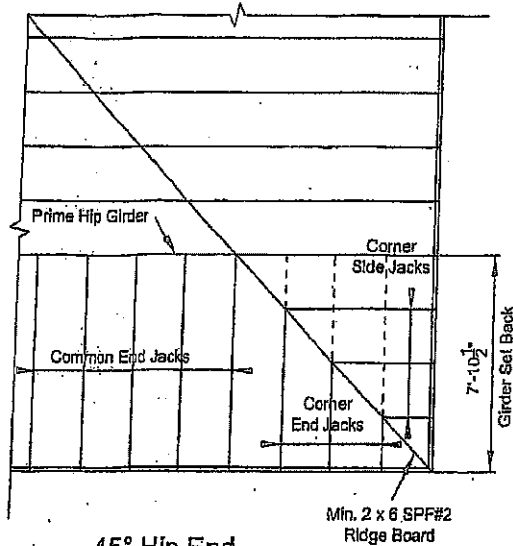
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.30 (B) (INPUT = 0.90)
JSI METAL= 0.07 (B) (INPUT = 1.00)



DRWG NO. 17905485
STRUCTURAL
COMPONENT ONLY



45° Hip End

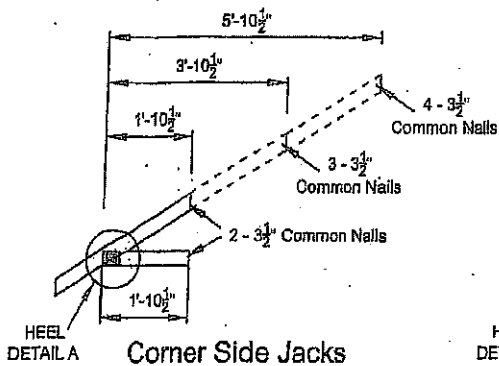
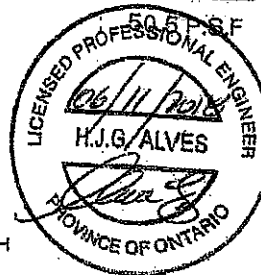
LUMBER SPECIFICATION

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

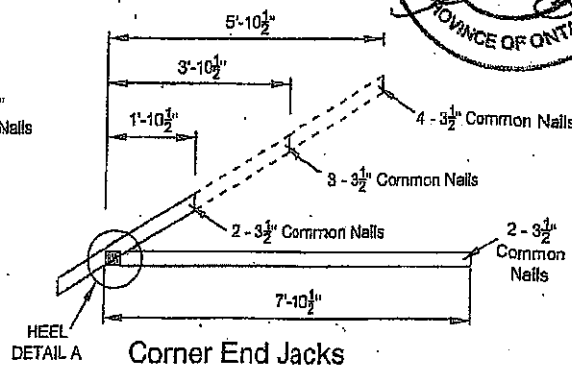
DESIGN LOAD

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

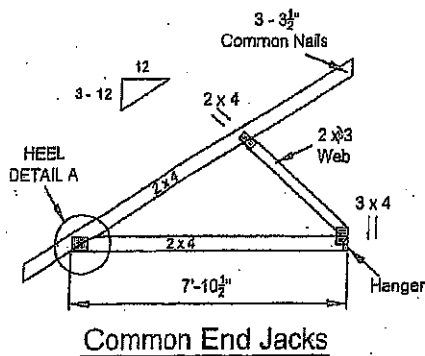
TOTAL LOAD



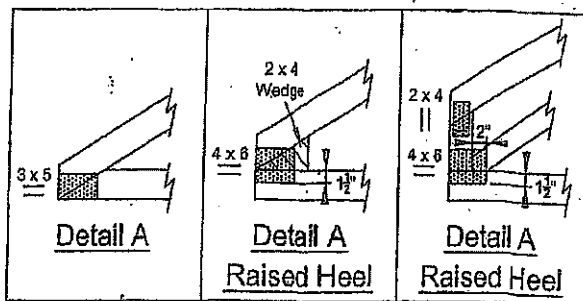
Corner Side Jacks



Corner End Jacks



Common End Jacks

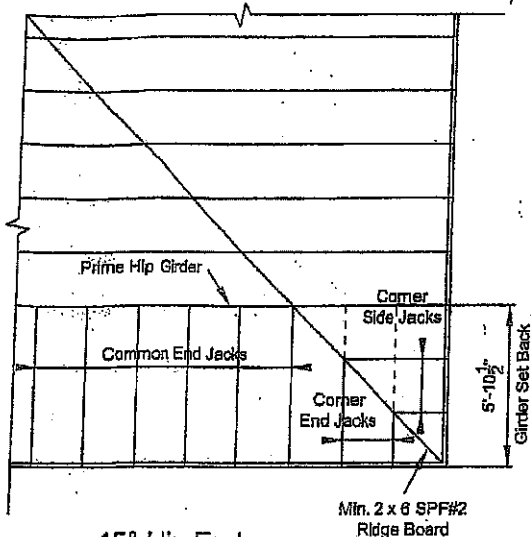


NOTE: DESIGN CONFORMS TO PART 9, O.B.C. 2012 (L.S.D. DESIGN)

T-1800217

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AUG 15 2019

TOWN OF CALEDON
BUILDING SECTION
FILE NO.



45° Hip End

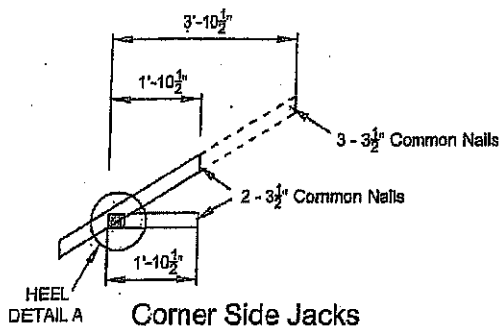
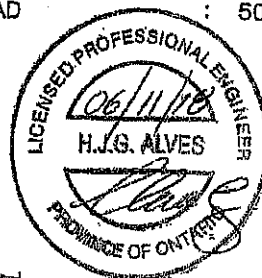
LUMBER SPECIFICATION

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

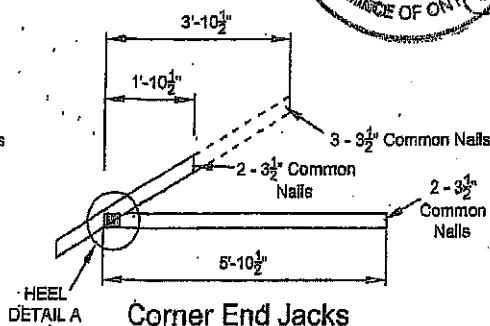
DESIGN LOAD

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.

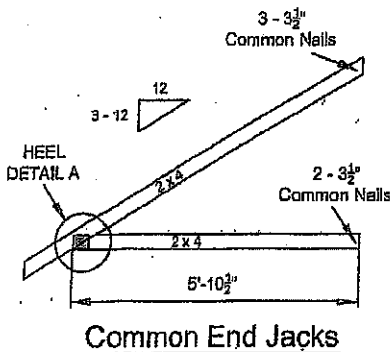
TOTAL LOAD : 50.5 P.S.F



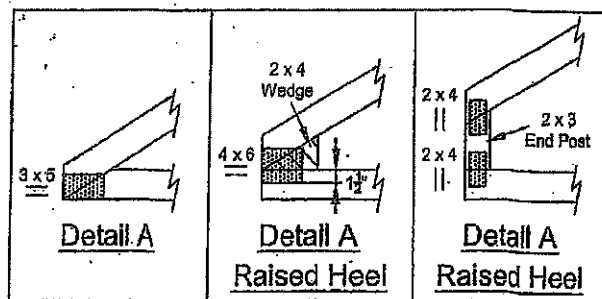
Corner Side Jacks



Corner End Jacks



Common End Jacks

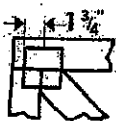


NOTE: DESIGN CONFORMS TO PART 9, O.B.C. 2012 (L.S.D. DESIGN)

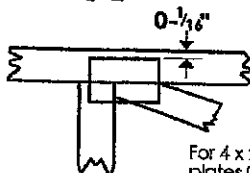
T-1800216

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0 1/8" from outside edge of truss.



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

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

PLATE SIZE

4 x 4

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

LATERAL BRACING LOCATION



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

BEARING

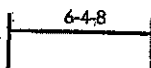


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

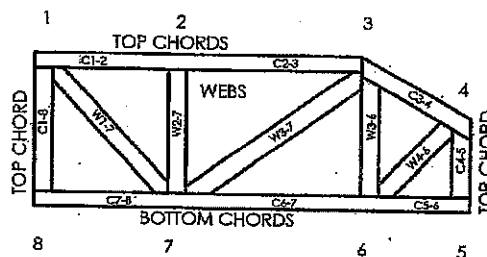
Industry Standards:

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

Numbering System



dimensions shown in ft-in-sixteenths or mm (Drawings not to scale)



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

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

PRODUCT CODE APPROVALS

CCMC Reports:

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

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MiTek
POWER TO PERFORM.™

MiTek Engineering Reference Sheet: Mil-7473C rev. 10-'08

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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



Alves Engineering Services Inc.

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

RESPONSABILITIES

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

SPECIFICATIONS

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

F-1900218

Feb 09, 2018