

FEB 04 2021

REC BY _____ DATE _____
REF'D TO _____ DATE _____

8/12 roof pitch unless noted

ASPHALT SHINGLES
FINISHED OVERHANG: 12"
2x6 EXTERIOR WALLS
2x6 FASCIA BOARD
HEEL: R.T.M.C.

All conventional framing to conform with
Part 9 of O.B.C. 2012 (2019 amendment).
Roof rafters that cross over or meet trusses
to be min. 2x4 SPF #2 @ 24" o/c with a
vertical post to the truss at each cross
point. Vertical posts longer than 6' to have
lateral bracing so that the distance between
the post end points and lateral bracing does
not exceed 6'.

DESIGN CONFORMS WITH OBC 2012
(2019 amendment) OCCUPANCY:

RESIDENTIAL | PART: 9

Ss = 31.35 psf | Sr = 8.4 psf

DESIGN LOADS:

TCSL = 25.6 psf

TCDL = 6.0 psf

BCLL = 0.0 psf

BCDL = 7.4 psf

HARDWARE:

HGUS26-2 - (XX)

LJS26DS - (V)

THGQ2-SDS3(MAX) - (TT)

LUS26-2-(VV)

BEAMS:

B1= B2 = B3 =

2 - 2x10 SPF #2



DENOTES:
CONVENTIONAL
FRAMING

CITY OF HAMILTON
Building Division

Permit No. 21-106033

THESE STAMPED DRAWINGS SHALL BE AVAILABLE ON SITE

THE OWNER AND/OR CONTRACTOR SHALL COMPLY WITH
THE ONTARIO BUILDING CODE AND ALL OTHER APPLICABLE LAW

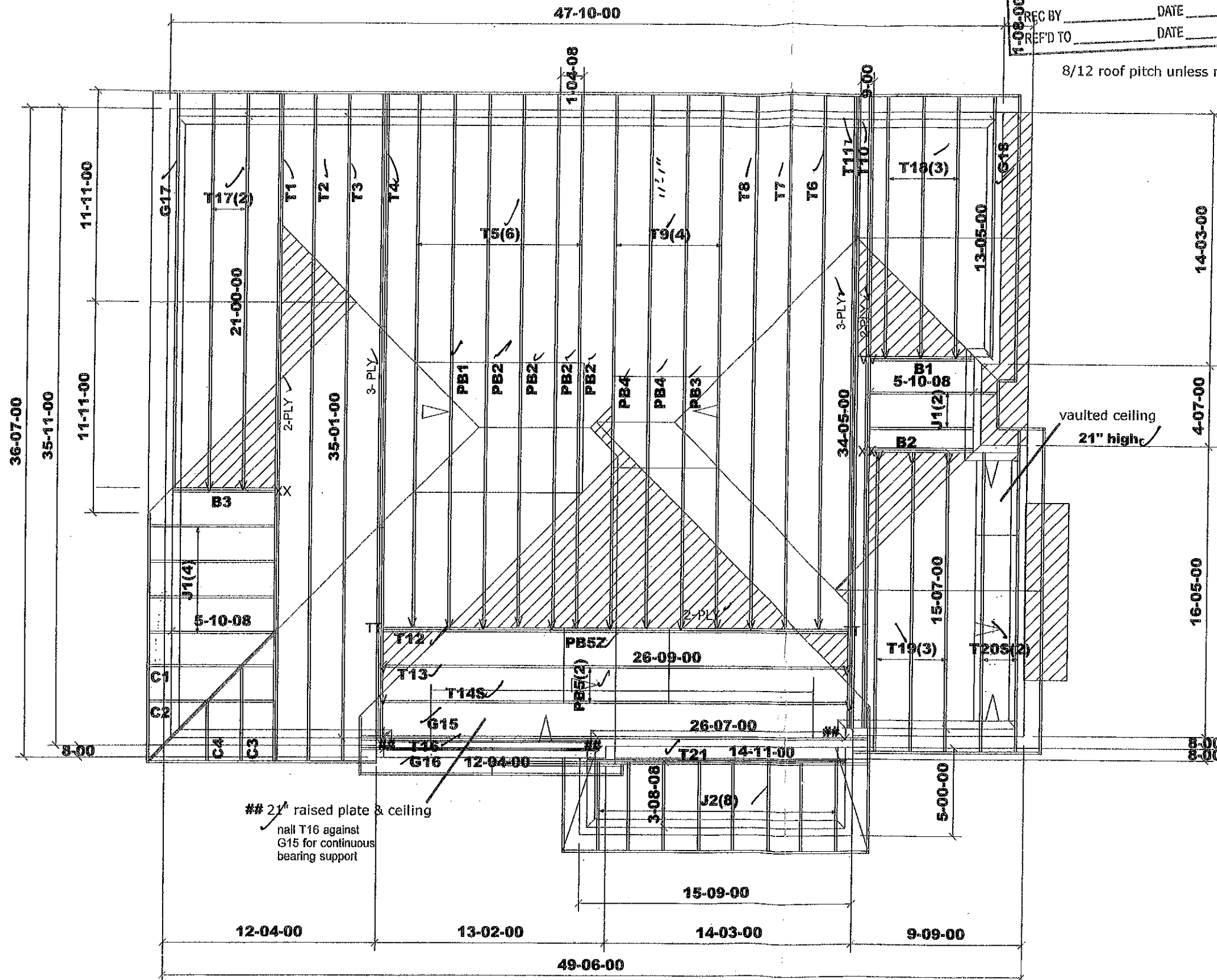
These drawings and/or specifications have been reviewed by

JDC

FEB 25 2021

FOR CHIEF BUILDING OFFICIAL

DATE



M1340



Job Track: 51225

Plan Log: 202439

Layout ID: 408315

Builder / Location:

GREEN PARK HOMES / WATERDOWN

Project: RUSSELL GARDENS PH.3

Date: 2020-04-29

Sales: Mario DiCano

Designer: JG

Model / Elevation:

MOUNTAINASH 12/1

LOT 236

File: ver 8.3.1.215

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



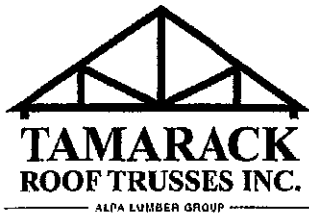
Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: RUSSELL GARDENS PH.3
 Location: WATERDOWN
 Model: MOUNTAINASH 12
 Lot #: 236
 Elevation: 1

Job Track: 51225
 PlanLog: 202439
 Layout ID: 408315
 Ref #
 Page: 1 of 3
 Date: 04-29-2020
 Designer:
 Sales Rep: Mario DiCano

Roof Trusses

PROFILE	QTY PLY	MARK TYPE	PITCH	SPAN	HEIGHT	LUMBER	OVERHANG LEFT RIGHT	HEEL HEIGHT LEFT RIGHT	LBS. BFT.	BUNDLE # STACK #	LOAD BY REMARKS
	1 2-ply	T1 Hip Girder	8/12	35-01-00	5-03-13	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	350.17 212.00		
	1	T2 Hip	8/12	35-01-00	6-07-13	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	150.61 96.17		
	1	T3 Hip	8/12	35-01-00	7-11-13	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	157.43 98.33		
	1 3-ply	T4 Hip Girder	8/12	35-01-00	9-03-15	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	637.96 389.00		
	6	T5 Hip	8/12	28-10-00	10-07-13	2 x 4	1-03-08	1-04-13 5-06-13	945.98 588.00		
	1	T6 Hip	8/12	28-10-00	7-01-13	2 x 4	1-03-08	1-04-13 5-01-08	134.72 84.67		
	1	T7 Hip	8/12	28-10-00	8-05-13	2 x 4	1-03-08	1-04-13 5-01-08	139.02 86.60		
	1	T8 Hip	8/12	28-10-00	9-09-13	2 x 4	1-03-08	1-04-13 5-01-08	152.74 95.50		
	4	T9 Hip	8/12	28-10-00	11-01-13	2 x 4	1-03-08	1-04-13 5-01-08	604.67 375.33		
	1 2-ply	T10 Hip Girder	8/12	34-05-00	5-03-13	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	356.89 218.00		
	1 3-ply	T11 Hip Girder	8/12	34-05-00	5-09-15	2 x 4 2 x 6	1-03-08 1-03-08	1-04-13 1-04-13	574.28 357.00		
	1 2-ply	T12 Piggyback Base Girder	8/12	26-09-00	10-00-00	2 x 6		3-01-02 3-01-02	368.54 232.00		
	1	T13 Piggyback Base	8/12	26-09-00	10-00-00	2 x 4		3-01-02 3-01-02	131.75 82.33		
	1	T14S Piggyback Base	8/12	26-09-00	10-00-00	2 x 4		3-01-02 3-01-02	136.95 88.17		

DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: RUSSELL GARDENS PH.3
 Location: WATERDOWN
 Model: MOUNTAINASH 12
 Lot #: 236
 Elevation: 1

Job Track: 51225
 PlanLog: 202439
 Layout ID: 408315
 Ref #
 Page: 2 of 3
 Date: 04-29-2020
 Designer:
 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	G15 GABLE	8 /12	26-07-00	10-03-02	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	131.96 84.33		
	1	T16 Common	8 /12	12-04-00	5-06-02	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	54.25 34.83		
	1	G16 GABLE	8 /12	12-04-00	5-06-02	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	53.94 35.83		
	2	T17 Common	8 /12	21-00-00	8-04-13	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	190.54 118.67		
	1	G17 GABLE	8 /12	21-00-00	8-04-13	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	98.26 63.00		
	3	T18 Common	8 /12	13-05-00	5-10-08	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	174.92 111.00		
	1	G18 GABLE	8 /12	13-05-00	5-10-08	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	58.93 37.00		
	3	T19 Common	8 /12	15-07-00	6-07-02	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	199.36 126.00		
	2	T20S Roof Special	8 /12 5 /12	15-07-00	6-07-02	2 x 4	1-03-08 1-03-08	1-04-13 1-04-13	132.03 90.67		
	1	T21 Hip Girder	0 /12	14-11-00	1-06-12	2 x 4		1-03-04 1-03-04	50.44 30.50		
	1	PB1 Piggyback	8 /12	7-04-00	1-04-00	2 x 4			19.39 13.17		
	4	PB2 Piggyback	8 /12	7-04-00	2-05-05	2 x 4			72.32 46.67		
	1	PB3 Piggyback	8 /12	5-02-00	1-04-00	2 x 4			12.02 9.00		
	2	PB4 Piggyback	8 /12	5-02-00	1-08-11	2 x 4			24.1 17.00		

DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: RUSSELL GARDENS PH.3
 Location: WATERDOWN
 Model: MOUNTAINASH 12
 Lot #: 236
 Elevation: 1

Job Track: 51225
 PlanLog: 202439
 Layout ID: 408315
 Ref #
 Page: 3 of 3
 Date: 04-29-2020
 Designer:
 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	PB5 Piggyback	8/12	6-00-07	2-00-02	2 x 4			28.94 19.33		
	1 2-ply	PB5Z Piggyback	8/12	6-00-07	2-00-02	2 x 4			28.94 19.33		
	6	J1 Jack-Open	8/12	5-10-08	5-03-13	2 x 4	1-03-08	1-04-13 5-03-13	115.14 70.00		
	8	J2 Jack-Open	4/12	3-08-08	1-11-11	2 x 4	1-03-08	3-15 1-06-12	82.8 53.33		
	1	C1 Jack-Open	8/12	3-10-15	4-00-02	2 x 4	1-03-08 1-11-09	1-04-13 4-00-02	16.5 10.33		
	1	C2 Jack-Open	8/12	1-10-15	2-08-02	2 x 4	1-03-08 3-11-09	1-04-13 2-08-02	13.73 9.00		
	1	C3 Jack-Open	8/12	2-00-00	4-00-02	2 x 4	1-03-08 1-10-15	1-04-13 2-08-13	12.31 7.67		
	1	C4 Jack-Open	8/12	1-10-15	2-08-02	2 x 4	1-03-08 1-01	1-04-13 2-08-02	9.57 6.33		

TOTAL # TRUSS= 75

TOTAL BFT OF ALL TRUSSES= 4015.99

BFT.

TOTAL WEIGHT OF ALL TRSSES 6422.08 LBS

HARDWARE

QTY	TYPE	MODEL	LENGTH
2	Hardware	HGUS26-2	
25	Hardware	LJS26DS	
1	Hardware	LUS26-2	
2		THGQ2-SDS3(MAX)	

TOTAL NUMBER OF
ITEMS=

30

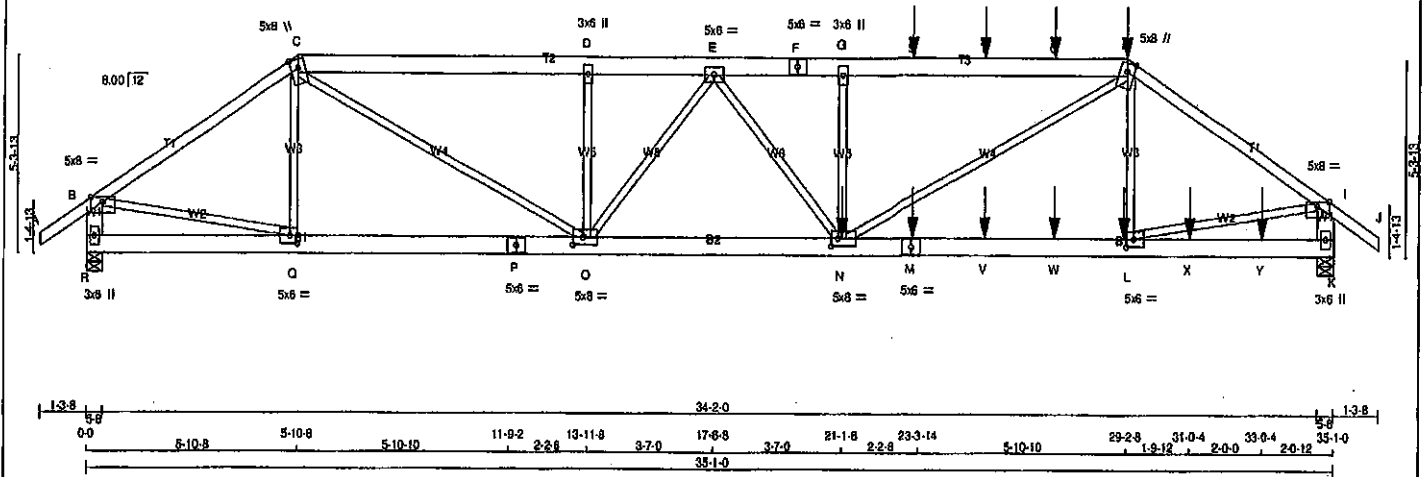
JOB NAME 408315	TRUSS NAME T1	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 09:31:31 2020 Page 1

ID:DMCubINVRBtstFos31v6l_zns1-lpwC7aEiXum?YiAgletJIBTresjhyC01QXp2d_zLafA

1-3-8 0-0 5-10-8 5-10-8 5-10-10 11-9-2 13-11-8 3-7-0 17-6-8 3-7-0 21-1-8 22-3-14 5-10-10 29-2-8 5-10-8 35-1-0 35-1-8
Scale = 1:57.6



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

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-C 1	12	TOP
H-J 1	12	SIDE(61.0)
C-F 2	12	TOP
F-H 2	12	SIDE(61.0)
R-B 2	12	TOP
K-I 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
R-P 2	12	TOP
P-M 2	12	SIDE(183.1)
M-K 2	12	SIDE(183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
L-H 1	6	SIDE(18.3)
N-G 1	6	SIDE(240.7)
2x3 1	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-8 INCH NAILS.

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

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

BEARINGS

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX
R	2990	0	2990	0	0	5-8
K	4041	0	4041	0	0	5-8

UNFACTORED REACTIONS

	1ST LCASE	MAX MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
R	2109	1413 / 0	0 / 0	0 / 0	0 / 0	898 / 0	0 / 0
K	2883	1899 / 0	0 / 0	0 / 0	0 / 0	953 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.84 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	CS1 (LC)	UNBRAC LENGTH	FR-TO	WEBS	MAX. FACTORED FORCE (LBS)	CS1 (LC)
FR-TO										
A-B	0 / 35	-91.8	-91.8	0.07 (1)	10.00	Q-C	-371 / 0	0.07 (1)		
B-C	-3876 / 0	-91.8	-91.8	0.46 (1)	4.50	C-O	0 / 3550	0.44 (1)		
C-D	-6111 / 0	-91.8	-91.8	0.30 (1)	4.56	N-H	0 / 3802	0.47 (1)		
D-E	-6111 / 0	-91.8	-91.8	0.23 (1)	4.60	L-H	-434 / 84	0.09 (1)		
E-F	-7562 / 0	-91.8	-91.8	0.41 (1)	3.98	B-Q	0 / 3110	0.38 (1)		
F-G	-7562 / 0	-91.8	-91.8	0.41 (1)	3.98	L-I	0 / 4363	0.54 (1)		
G-S	-7563 / 0	-91.8	-91.8	0.58 (1)	3.88	O-D	-798 / 0	0.15 (1)		
S-T	-7563 / 0	-91.8	-91.8	0.58 (1)	3.88	N-G	-1225 / 0	0.23 (1)		
T-U	-7563 / 0	-91.8	-91.8	0.58 (1)	3.88	O-E	-1131 / 0	0.35 (1)		
U-H	-7563 / 0	-91.8	-91.8	0.58 (1)	3.88	E-N	0 / 1314	0.18 (1)		
H-I	-5157 / 0	-91.8	-91.8	0.58 (1)	3.84					
I-J	0 / 35	-91.8	-91.8	0.11 (1)	10.00					
R-B	-2954 / 0	0.0	0.0	0.11 (1)	7.81					
K-I	-3985 / 0	0.0	0.0	0.14 (1)	7.11					
R-Q	0 / 0	-18.5	-18.5	0.08 (4)	10.00					
Q-P	0 / 3073	-18.5	-18.5	0.24 (1)	10.00					
P-O	0 / 3073	-18.5	-18.5	0.24 (1)	10.00					
O-N	0 / 6782	-18.5	-18.5	0.48 (1)	10.00					
N-M	0 / 4309	-18.5	-18.5	0.36 (1)	10.00					
M-V	0 / 4309	-18.5	-18.5	0.36 (1)	10.00					
V-W	0 / 4309	-18.5	-18.5	0.36 (1)	10.00					
W-L	0 / 4309	-18.5	-18.5	0.36 (1)	10.00					
L-X	0 / 0	-18.5	-18.5	0.12 (4)	10.00					
X-Y	0 / 0	-18.5	-18.5	0.12 (4)	10.00					
Y-K	0 / 0	-18.5	-18.5	0.12 (4)	10.00					

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX	FACE	D/R	TYPE	HEEL	CONN.
H	29-2-8	-538	-538	---	FRONT	VERT	TOTAL	C1
L	29-1-12	-38	-38	---	FRONT	VERT	TOTAL	C1
M	23-1-12	-38	-38	---	FRONT	VERT	TOTAL	C1
N	21-1-8	-1624	-1624	---	FRONT	VERT	TOTAL	C1
S	23-1-12	-178	-178	---	FRONT	VERT	TOTAL	C1
T	25-1-12	-178	-178	---	FRONT	VERT	TOTAL	C1
U	27-1-12	-178	-178	---	FRONT	VERT	TOTAL	C1
V	25-1-12	-38	-38	---	FRONT	VERT	TOTAL	C1
W	27-1-12	-38	-38	---	FRONT	VERT	TOTAL	C1
X	31-0-4	-38	-38	---	FRONT	VERT	TOTAL	C1
Y	33-0-4	-38	-38	---	FRONT	VERT	TOTAL	C1

TOTAL WEIGHT = 2 X 175 = 350 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	= 25.6 PSF
DL	= 6.0 PSF
BOT CH. LL	= 0.0 PSF
DL	= 7.4 PSF
TOTAL LOAD	= 38.0 PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-08, CSA 088-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = $L/360$ (1.17)
CALCULATED VERT. DEFL. (LL) = $U/999$ (0.17)
ALLOWABLE DEFL. (TL) = $L/360$ (1.17)
CALCULATED VERT. DEFL. (TL) = $U/999$ (0.30)
CSI: TC=0.56/1.00 (H-I), BC=0.48/1.00 (N-O), WB=0.54/1.00 (L-I), SS=0.25/1.00 (G-I)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

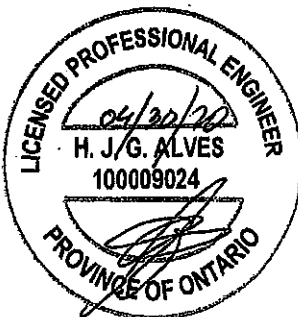
NAIL VALUES

PLATE GRIP (DRY)	SHEAR (PSI)	SECTION (PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1687 768

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (L) (INPUT = 0.80)
JSI METAL= 0.54 (L) (INPUT = 1.00)



Structural component only
DWG# T-2008005 1/2

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408315	T1	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2018 Mtek Industries, Inc. Thu Apr 30 09:31:32 2020 Page 2

ID:DMCubINVR6TsIFoe31v6I_zns1-VsUakwFKIBus9rICMDYrO00NF3whIGaEBZc9QzLat9

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWV-p	MT20	5.0	8.0	Edge	
C	TTWW+m	MT20	5.0	8.0	Edge	
D	TMWV-w	MT20	3.0	6.0		
E	TMWW-l	MT20	5.0	6.0		
F	TS-l	MT20	5.0	6.0		
G	TMWV-w	MT20	3.0	6.0		
H	TTWW+m	MT20	5.0	8.0	Edge	
I	TMWV-p	MT20	5.0	8.0	Edge	
K	BMV1+p	MT20	3.0	6.0		
L	BMWW-l	MT20	5.0	8.0	2.50	2.50
M	BS-l	MT20	5.0	6.0		
N	BMWW-l	MT20	5.0	8.0	2.50	2.25
O	BMWW-l	MT20	5.0	8.0	2.50	3.25
P	BS-l	MT20	5.0	6.0		
Q	BMWW-l	MT20	5.0	8.0	2.50	2.50
R	BMV1+p	MT20	3.0	6.0		

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

CONNECTION REQUIREMENTS

- 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



Structural component only ,
DWG# T-2008005 4/2

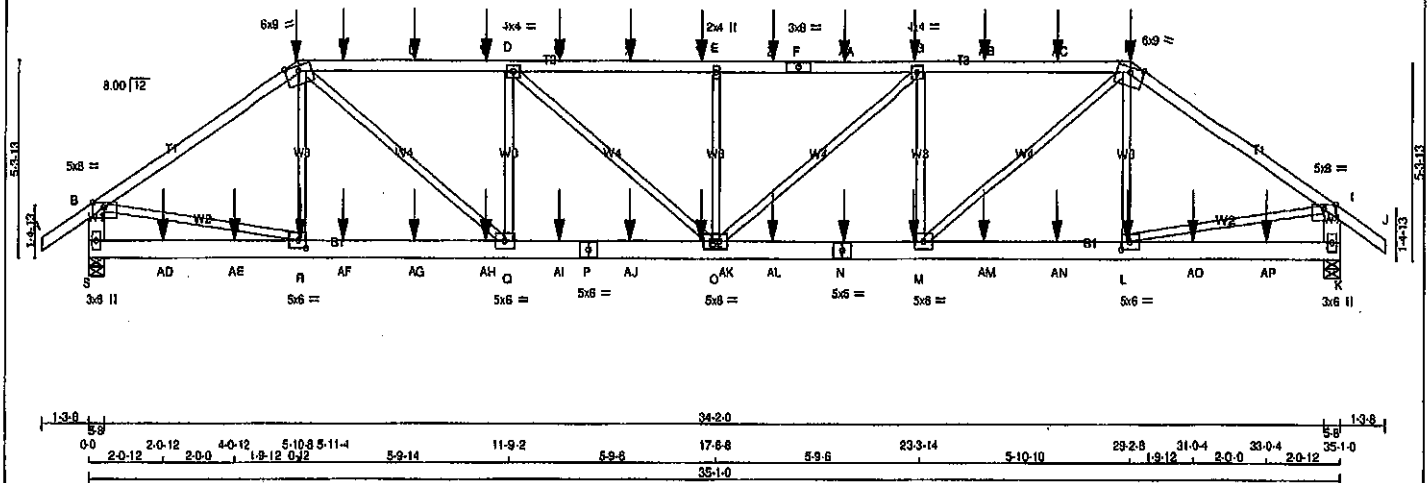
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408316	T100	1	2	GREEN PARK HOMES		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MTEK Industries, Inc. Thu Apr 30 10:05:38 2020 Page 1

ID:DMCubINVR6TstFoe31v6l_zns11-bU63W0TqgZdH95325Lmslax0Me479K7VAIzqzLa9B

1-3-8 0-0 5-10-8 5-10-10 11-9-2 5-9-6 17-6-8 5-9-6 23-3-14 5-10-10 29-2-8 5-10-8 35-1-0 38-4-8 1-3-8
Scale = 1:57.6



LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF	
C - F	2x4	DRY	No.2	SPF	
F - H	2x4	DRY	No.2	SPF	
H - J	2x4	DRY	No.2	SPF	
S - B	2x8	DRY	No.2	SPF	
K - I	2x8	DRY	No.2	SPF	
S - P	2x8	DRY	No.2	SPF	
P - N	2x8	DRY	No.2	SPF	
N - K	2x8	DRY	No.2	SPF	
ALL WEBS	2x3	DRY	No.2	SPF	
EXCEPT					

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-C	12	SIDE(01.0)
C-F	12	SIDE(01.0)
F-H	12	SIDE(01.0)
H-J	12	SIDE(01.0)
S-B	12	TOP
K-I	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
S-P	12	SIDE(183.1)
P-N	12	SIDE(183.1)
N-K	12	SIDE(183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
R-C	6	SIDE(19.3)
L-H	6	SIDE(19.3)
2x3	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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
S	3809	0	3909	0
K	3859	0	3859	0

UNFACTORED REACTIONS

	1ST LCASE	MAX/MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
S	2783	1823 / 0	0 / 0	0 / 0	0 / 0	940 / 0	0 / 0	
K	2727	1799 / 0	0 / 0	0 / 0	0 / 0	928 / 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 = 2.84 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 GSI (LC)	WEBS	MAX. FACTORED FORCE (LBS)	MAX. FACTORED GSI (LC)
FR-TO				FR-TO		
A-B	0 / 35	-91.8	-91.8 0.07 (1)	R-C	-431 / 54	0.09 (1)
B-C	-4949 / 0	-91.8	-91.8 0.55 (1)	C-Q	0 / 3051	0.38 (1)
C-T	-6443 / 0	-91.8	-91.8 0.84 (1)	Q-D	-1748 / 0	0.35 (1)
T-U	-6443 / 0	-91.8	-91.8 0.84 (1)	D-O	0 / 857	0.11 (1)
U-V	-6443 / 0	-91.8	-91.8 0.84 (1)	O-G	-957 / 0	0.19 (1)
V-D	-6443 / 0	-91.8	-91.8 0.84 (1)	G-H	0 / 907	0.11 (1)
D-W	-7094 / 0	-91.8	-91.8 0.89 (1)	M-G	-1789 / 0	0.38 (1)
W-X	-7094 / 0	-91.8	-91.8 0.89 (1)	M-H	0 / 3081	0.38 (1)
X-Y	-7094 / 0	-91.8	-91.8 0.89 (1)	L-H	-433 / 44	0.09 (1)
Y-E	-7094 / 0	-91.8	-91.8 0.89 (1)	B-R	0 / 4170	0.52 (1)
E-Z	-7094 / 0	-91.8	-91.8 0.84 (1)	L-I	0 / 4108	0.51 (1)
Z-F	-7094 / 0	-91.8	-91.8 0.84 (1)			
F-AA	-7094 / 0	-91.8	-91.8 0.84 (1)			
AA-G	-7094 / 0	-91.8	-91.8 0.84 (1)			
G-AB	-6405 / 0	-91.8	-91.8 0.79 (1)			
AB-AC	-6405 / 0	-91.8	-91.8 0.79 (1)			
AC-H	-6405 / 0	-91.8	-91.8 0.79 (1)			
H-I	-4875 / 0	-91.8	-91.8 0.54 (1)			
I-J	0 / 35	-91.8	-91.8 0.07 (1)			
S-B	-3833 / 0	0.0	0.0 0.14 (1)			
K-I	-3782 / 0	0.0	0.0 0.14 (1)			

S-AD	0 / 0	-18.5	-18.5 0.07 (4)	10.00
AD-AE	0 / 0	-18.5	-18.5 0.07 (4)	10.00
AE-R	0 / 0	-18.5	-18.5 0.07 (4)	10.00
R-AF	0 / 4104	-18.5	-18.5 0.31 (1)	10.00
AF-AG	0 / 4104	-18.5	-18.5 0.31 (1)	10.00
AG-AH	0 / 4104	-18.5	-18.5 0.31 (1)	10.00
AH-Q	0 / 4104	-18.5	-18.5 0.31 (1)	10.00
Q-AI	0 / 6443	-18.5	-18.5 0.48 (1)	10.00
AI-P	0 / 6443	-18.5	-18.5 0.48 (1)	10.00
P-AJ	0 / 6443	-18.5	-18.5 0.48 (1)	10.00
AJ-AK	0 / 6443	-18.5	-18.5 0.48 (1)	10.00
AK-O	0 / 6443	-18.5	-18.5 0.48 (1)	10.00
O-AL	0 / 6405	-18.5	-18.5 0.48 (1)	10.00
AL-N	0 / 6405	-18.5	-18.5 0.48 (1)	10.00
N-M	0 / 4043	-18.5	-18.5 0.30 (1)	10.00
M-AM	0 / 4043	-18.5	-18.5 0.30 (1)	10.00
AM-AN	0 / 4043	-18.5	-18.5 0.30 (1)	10.00
AN-L	0 / 4043	-18.5	-18.5 0.30 (1)	10.00
L-AO	0 / 0	-18.5	-18.5 0.07 (4)	10.00
AO-AP	0 / 0	-18.5	-18.5 0.07 (4)	10.00
AP-K	0 / 0	-18.5	-18.5 0.07 (4)	10.00

TOTAL WEIGHT = 2 X 184 = 368 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 8.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 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, NBC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(65% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17')
CALCULATED VERT. DEFL.(LL) = L/999 (0.19')
ALLOWABLE DEFL.(TL) = L/360 (1.17')
CALCULATED VERT. DEFL.(TL) = L/999 (0.35')

CSI: TC=0.89/1.00 (D-E:1), BC=0.48/1.00 (C-Q:1),
WB=0.52/1.00 (B-R:1), SI=0.29/1.00 (C-D: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 SECTION
(PS) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1887 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (R) (INPUT = 0.90)
JSI METAL = 0.61 (P) (INPUT = 1.00)



Structural component only
DWG# T-2008047

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408316	T100	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Thu Apr 30 10:05:38 2020 Page 2

ID:DMCubINVR6TstF0e31v6I zns1I-bU63IW0ITopZdH95325Lmslax0Me479K7VAIzqzLa9B

PLATES (Labels in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	8.0	Edge	
C	TTWW-m	MT20	8.0	9.0	Edge	
D	TMWW-l	MT20	4.0	4.0		
E	TMW-w	MT20	2.0	4.0		
F	TS-l	MT20	3.0	8.0		
G	TMWW-t	MT20	4.0	4.0		
H	TTWW-m	MT20	8.0	9.0	Edge	
I	TMVW-p	MT20	5.0	8.0	Edge	
K	BMV1-p	MT20	3.0	6.0		
L	BMWW-t	MT20	5.0	6.0	2.50	2.75
M	BMWW-t	MT20	5.0	6.0		
N	BS-l	MT20	5.0	6.0		
O	BMWWW-l	MT20	5.0	6.0		
P	BS-l	MT20	5.0	6.0		
Q	BMWW-t	MT20	5.0	6.0		
R	BMWW-t	MT20	5.0	6.0	2.50	2.75
S	BMV1-p	MT20	3.0	6.0		

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

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	5-10-8	-542	-542	---	FRONT	VERT	TOTAL	---	C1
G	23-1-12	-178	-178	---	FRONT	VERT	TOTAL	---	C1
H	28-2-8	-542	-542	---	FRONT	VERT	TOTAL	---	C1
L	29-1-12	-36	-36	---	FRONT	VERT	TOTAL	---	C1
M	23-1-12	-36	-36	---	FRONT	VERT	TOTAL	---	C1
N	21-1-12	-36	-36	---	FRONT	VERT	TOTAL	---	C1
R	5-11-4	-36	-36	---	FRONT	VERT	TOTAL	---	C1
T	7-1-12	-178	-178	---	FRONT	VERT	TOTAL	---	C1
U	9-1-12	-178	-178	---	FRONT	VERT	TOTAL	---	C1
V	11-1-12	-178	-178	---	FRONT	VERT	TOTAL	---	C1
W	13-1-12	-178	-178	---	FRONT	VERT	TOTAL	---	C1
X	15-1-12	-178	-178	---	FRONT	VERT	TOTAL	---	C1
Y	17-1-12	-178	-178	---	FRONT	VERT	TOTAL	---	C1
Z	19-1-12	-178	-178	---	FRONT	VERT	TOTAL	---	C1
AA	21-1-12	-178	-178	---	FRONT	VERT	TOTAL	---	C1
AB	25-1-12	-178	-178	---	FRONT	VERT	TOTAL	---	C1
AC	27-1-12	-178	-178	---	FRONT	VERT	TOTAL	---	C1
AD	2-0-12	-36	-36	---	FRONT	VERT	TOTAL	---	C1
AE	4-0-12	-36	-36	---	FRONT	VERT	TOTAL	---	C1
AF	7-1-12	-36	-36	---	FRONT	VERT	TOTAL	---	C1
AG	9-1-12	-36	-36	---	FRONT	VERT	TOTAL	---	C1
AH	11-1-12	-36	-36	---	FRONT	VERT	TOTAL	---	C1
AI	13-1-12	-36	-36	---	FRONT	VERT	TOTAL	---	C1
AJ	15-1-12	-36	-36	---	FRONT	VERT	TOTAL	---	C1
AK	17-1-12	-36	-36	---	FRONT	VERT	TOTAL	---	C1
AL	19-1-12	-36	-36	---	FRONT	VERT	TOTAL	---	C1
AM	25-1-12	-36	-36	---	FRONT	VERT	TOTAL	---	C1
AN	27-1-12	-36	-36	---	FRONT	VERT	TOTAL	---	C1
AO	31-0-4	-36	-36	---	FRONT	VERT	TOTAL	---	C1
AP	33-0-4	-36	-36	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

- 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



Structural component only
DWG# T-2008047 3/2

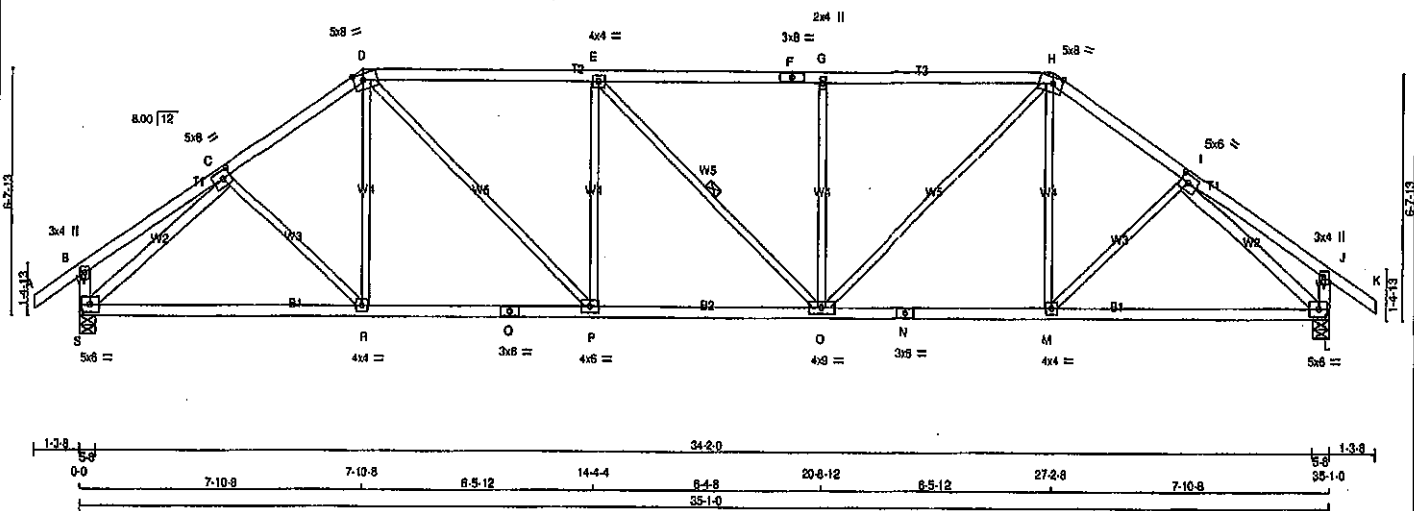
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408315	T2	1	1	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Thu Apr 30 09:31:33 2020 Page 1

ID:DMCubINVR6TstFoe31v6t_zns1l-z32zYGGy3V0jn?K3m3mNcZ7IP?Q1YKri9szLaf8

1-3-8 0-0 1-3-8 1-0-8 1-0-8 2-10-0 7-10-8 6-5-12 14-4-4 6-4-8 20-8-12 8-5-12 27-2-8 3-10-0 31-0-8 1-0-8 1-3-8
Scale = 1:57.5



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

DRY: SEASONED LUMBER.

PLATES (tablets in inches)

PLATE TYPE	PLATES	W	LEN	Y	X
B TMV+p	MT20	3.0	4.0		
C TMWV-1	MT20	5.0	8.0	2.50	2.75
D TTWV-m	MT20	5.0	8.0	2.00	3.25
E TMWV-1	MT20	4.0	4.0		
F TS-1	MT20	3.0	8.0		
G TMWV-w	MT20	2.0	4.0		
H TTWV-m	MT20	5.0	8.0	2.00	3.25
I TMWV-1	MT20	5.0	8.0	2.50	2.75
J TMV+p	MT20	3.0	4.0		
L BMWV-1	MT20	5.0	8.0	2.50	2.75
M BMWV-1	MT20	4.0	4.0		
N BS-1	MT20	3.0	8.0		
O BMWV-w	MT20	4.0	9.0		
P BMWV-1	MT20	4.0	8.0		
Q BS-1	MT20	3.0	8.0		
R BMWV-1	MT20	4.0	4.0		
S BMWV-1	MT20	5.0	8.0	2.50	2.75

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
S	2060	0	2060	0
L	2080	0	2060	0

UNFACTORED REACTIONS

	1ST LOASE	MAX/MIN	COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
S	1454	988 / 0	0 / 0
L	1454	988 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.47 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-O.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED PERM. LIVE (LBS)	MAX. FACTORED WIND (LBS)	MAX. FACTORED DEAD (LBS)	MAX. FACTORED SOIL (LBS)
FR-TO	FROM	TO	TO	TO	TO	TO	TO	TO
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00	C-R	0 / 72	0.02 (4)
B-C	0 / 22	-91.8	-91.8	0.21 (1)	10.00	R-D	0 / 126	0.04 (4)
C-D	-2282 / 0	-91.8	-91.8	0.30 (1)	4.25	D-P	0 / 1071	0.24 (1)
D-E	-2844 / 0	-91.8	-91.8	0.78 (1)	3.47	P-E	-640 / 0	0.47 (1)
E-F	-2843 / 0	-91.8	-91.8	0.77 (1)	3.47	E-O	-2 / 0	0.00 (1)
F-G	-2843 / 0	-91.8	-91.8	0.77 (1)	3.47	O-G	-640 / 0	0.47 (1)
G-H	-2843 / 0	-91.8	-91.8	0.77 (1)	3.49	O-H	0 / 1069	0.24 (1)
H-I	-2282 / 0	-91.8	-91.8	0.30 (1)	4.25	M-H	0 / 126	0.04 (4)
I-J	0 / 22	-91.8	-91.8	0.21 (1)	10.00	M-I	0 / 72	0.02 (4)
J-K	0 / 35	-91.8	-91.8	0.12 (1)	10.00	S-C	-2527 / 0	0.88 (1)
S-B	-287 / 0	0.0	0.0	0.03 (1)	7.81	I-L	-2527 / 0	0.88 (1)
L-J	-287 / 0	0.0	0.0	0.03 (1)	7.81			
S-R	0 / 1840	-18.5	-18.5	0.44 (1)	10.00			
R-Q	0 / 1879	-18.5	-18.5	0.45 (1)	10.00			
Q-P	0 / 1879	-18.5	-18.5	0.45 (1)	10.00			
P-O	0 / 2645	-18.5	-18.5	0.49 (1)	10.00			
O-N	0 / 1880	-18.5	-18.5	0.45 (1)	10.00			
N-M	0 / 1880	-18.5	-18.5	0.45 (1)	10.00			
M-L	0 / 1840	-18.5	-18.5	0.44 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	= 25.6 PSF
DL	= 8.0 PSF
BOT CH. LL	= 0.0 PSF
DL	= 7.4 PSF
TOTAL LOAD	= 39.0 PSF

SPACING = 24.0 IN. C/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 BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17')
CALCULATED VERT. DEFL.(LL) = L/999 (0.13')
ALLOWABLE DEFL.(TL) = L/360 (1.17')
CALCULATED VERT. DEFL.(TL) = L/999 (0.27')

CSI: TC=0.78/1.00 (D-E:1), SC=0.49/1.00 (C-P:1), WB=0.89/1.00 (I-L:1), SS=0.28/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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
MT20	818	354
	1667	788
	1987	1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (1) (INPUT = 0.90)
JSI METAL = 0.63 (1) (INPUT = 1.00)



Structural component only
DWG# T-2008006

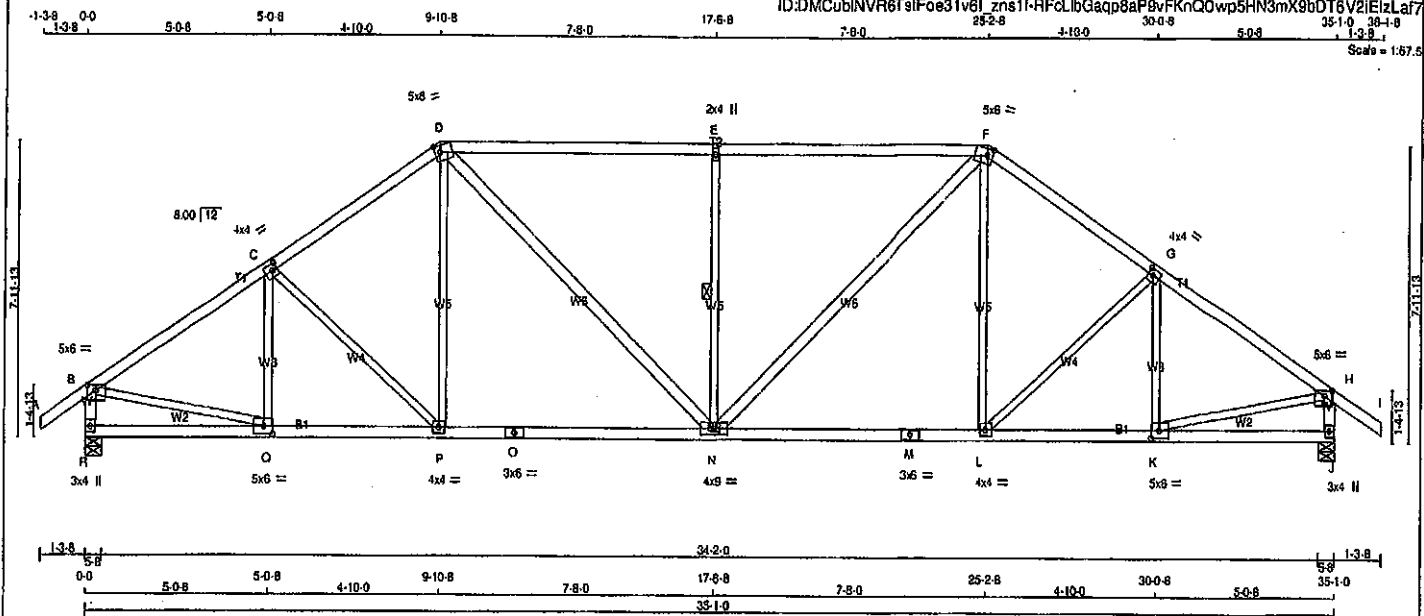
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408315	T3	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MTEK Industries, Inc. Thu Apr 30 09:31:34 2020 Page 1

ID:DMCubINVR6T9IFoe31v6l_zns1f-RFclbGagp8aP9vFknQOwp5HN3mX9bDT6V2IElZLaf7

Scale = 1:67.5



CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY No.2	SPF
D - F	2x4	DRY No.2	SPF
F - I	2x4	DRY No.2	SPF
R - B	2x4	DRY No.2	SPF
J - H	2x4	DRY No.2	SPF
R - O	2x4	DRY No.2	SPF
O - M	2x4	DRY No.2	SPF
M - J	2x4	DRY No.2	SPF
ALL WEBS	2x3	DRY No.2	SPF
EXCEPT			
D - N	2x4	DRY No.2	SPF
N - F	2x4	DRY No.2	SPF

DRY: SEASONED LUMBER.

PLATES (tablets in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	8.0	1.75	2.75
C	TMVW-l	MT20	4.0	4.0	2.00	1.50
D	TTWV-m	MT20	5.0	8.0	2.25	1.75
E	TMVW-m	MT20	2.0	4.0		
F	TMVW-l	MT20	5.0	8.0	2.25	1.75
G	TMVW-l	MT20	4.0	4.0	2.00	1.50
H	TMVW-p	MT20	5.0	8.0	1.75	2.75
J	BMV1+p	MT20	3.0	4.0		
K	BMVW-l	MT20	5.0	8.0	2.50	2.75
L	BMVW-l	MT20	4.0	4.0		
M	BS-l	MT20	3.0	6.0		
N	BMVWV-l	MT20	4.0	4.0		
O	BS-l	MT20	3.0	6.0		
P	BMVW-l	MT20	4.0	4.0		
Q	BMVW-l	MT20	5.0	8.0	2.50	2.75
R	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	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
R	2080	0	2080	0
J	2080	0	2080	0

UNFACTORED REACTIONS

1ST CASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
R	1454	988 / 0	0 / 0	0 / 0	0 / 0	487 / 0	0 / 0
J	1454	988 / 0	0 / 0	0 / 0	0 / 0	487 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.38 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

ALL PITCH BREAKS AND PERMETER 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	VERT. LOAD	MAX. FACTORED	MEMB.	MAX. FACTORED	VERT. LOAD	MAX. FACTORED
	(LBS)	(PLF)	(LBS)		(LBS)	(PLF)	(LBS)
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 35	-91.8	-91.8 0.12 (1)	10.00	Q-C	-329 / 0	0.11 (1)
B-C	-2307 / 0	-91.8	-91.8 0.37 (1)	4.19	P-D	-202 / 0	0.16 (1)
C-D	-2188 / 0	-91.8	-91.8 0.35 (1)	4.29	P-D	0 / 257	0.08 (4)
D-E	-2302 / 0	-91.8	-91.8 0.85 (1)	3.36	D-N	0 / 716	0.12 (1)
E-F	-2302 / 0	-91.8	-91.8 0.85 (1)	3.36	N-E	-867 / 0	0.35 (1)
F-G	-2188 / 0	-91.8	-91.8 0.35 (1)	4.29	N-F	0 / 716	0.12 (1)
G-H	-2307 / 0	-91.8	-91.8 0.37 (1)	4.19	L-F	0 / 257	0.08 (4)
H-I	0 / 35	-91.8	-91.8 0.12 (1)	10.00	L-G	-202 / 0	0.16 (1)
R-B	-2017 / 0	0.0	0.0 0.21 (1)	5.94	K-G	-329 / 0	0.11 (1)
J-H	-2017 / 0	0.0	0.0 0.21 (1)	5.94	B-Q	0 / 1988	0.45 (1)
					K-H	0 / 1988	0.45 (1)
R-Q	0 / 0	-18.5	-18.5 0.10 (4)	10.00			
Q-P	0 / 1944	-18.5	-18.5 0.40 (1)	10.00			
P-O	0 / 1797	-18.5	-18.5 0.41 (1)	10.00			
O-N	0 / 1797	-18.5	-18.5 0.41 (1)	10.00			
N-M	0 / 1797	-18.5	-18.5 0.41 (1)	10.00			
M-L	0 / 1797	-18.5	-18.5 0.41 (1)	10.00			
L-K	0 / 1944	-18.5	-18.5 0.40 (1)	10.00			
K-J	0 / 0	-18.5	-18.5 0.10 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.6	PSF
	DL = 6.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.4	PSF
TOTAL LOAD	= 39.0	PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2010, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(85 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17")
CALCULATED VERT. DEFL.(LL) = L/999 (0.11")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/999 (0.22")

CS: TC=0.85/1.00 (E-F:1), SC=0.41/1.00 (N-P:1),
WB=0.45/1.00 (B-Q:1), SS=0.34/1.00 (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.

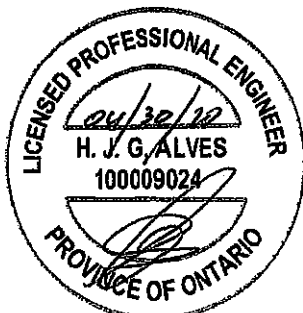
MAX. VALUES

PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 818 354 1867 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (B) (INPUT = 0.90)
JSI METAL= 0.59 (B) (INPUT = 1.00)



Structural component only
DWG# T-2008007

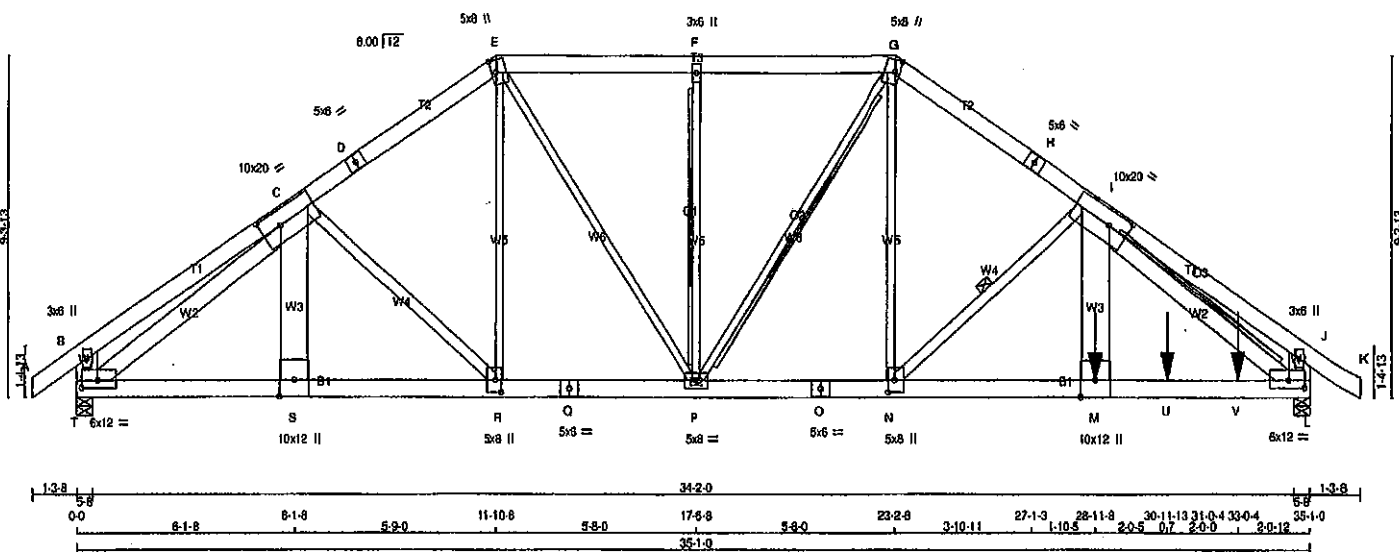
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408315	T4	1	3	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.310 9 Oct 2019 MTEK Industries, Inc. Thu Apr 30 11:19:20 2020 Page 1

ID:DMCubINVRtstFoe31v6l_zns11-7CJqYXU4Uo78/Dz6IQJ_MvRGYVC9phCYTLtAXzLZ45

1-3.8 0.0 6-1.8 6-1.8 5-9.0 11-10.8 5-9.0 17-6.8 5-9.0 23-2.8 3-10-11 27-1-3 28-11-8 30-11-13 33-0-4 35-4-0 38-1-8 1-3.8 Scale = 1:58.2



TOTAL WEIGHT = 3 X 250 = 750 lb

LUMBER	CHORDS	SIZE	DRY	No.2	DESCR.
N. L. G. A. RULES					
A - D	2x8	DRY	No.2	SPF	
D - E	2x8	DRY	No.2	SPF	
E - G	2x8	DRY	No.2	SPF	
G - H	2x8	DRY	No.2	SPF	
H - K	2x8	DRY	No.2	SPF	
T - B	2x8	DRY	No.2	SPF	
L - J	2x8	DRY	No.2	SPF	
T - Q	2x8	DRY	1850F 1.5E	SPF	
Q - O	2x8	DRY	1850F 1.5E	SPF	
O - L	2x8	DRY	1850F 1.5E	SPF	
ALL WEBS	2x3	DRY	No.2	SPF	
EXCEPT					
S - C	2x10	DRY	No.2	SPF	
C - R	2x4	DRY	No.2	SPF	
N - I	2x4	DRY	No.2	SPF	
T - C	2x8	DRY	No.2	SPF	
M - I	2x10	DRY	No.2	SPF	
I - L	2x8	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

DESIGN CONSISTS OF 3 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS: (0.122"x3") SPIRAL NAILS		
A-D 2	12	TOP
D-E 2	12	TOP
E-G 2	12	TOP
G-H 2	12	TOP
H-K 2	12	TOP
T-B 2	12	TOP
L-J 2	12	TOP
BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS		
T-Q 2	7	TOP
Q-O 2	12	TOP
O-L 2	7	SIDE (649.3)
WEBS: (0.122"x3") SPIRAL NAILS		
2x3 1	6	
2x4 1	8	
2x8 2	4	SIDE (3345.0)
I-M 5	4	
2x10 5	4	

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
T	4365	0	4365	0
L	14398	0	14398	0

UNFACTORED REACTIONS	1ST CASE	MAX/MIN	COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
T	3082	2051 / 0	0 / 0
L	10186	6764 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.71 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.

1 LATERAL BRACE(S) AT 1/2 LENGTH OF I-N
2x8 DRY SPF No.2 T-BRACE AT F-P, G-P, I-L

FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 80% OF WEB LENGTH.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. MEMB. FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO		
A-B	0 / 36	-91.8 -91.8 0.02 (1)	10.00	S-C 0 / 128 0.01 (4)
B-C	0 / 20	-91.8 -91.8 0.07 (1)	10.00	C-R -33 / 0 0.01 (1)
C-D	-5831 / 0	-91.8 -91.8 0.10 (1)	5.69	R-E 0 / 122 0.01 (4)
D-E	-5831 / 0	-91.8 -91.8 0.10 (1)	5.69	E-P 0 / 3162 0.24 (1)
E-F	-5827 / 0	-91.8 -91.8 0.09 (1)	5.48	P-F -589 / 0 0.09 (1)
F-G	-5827 / 0	-91.8 -91.8 0.09 (1)	5.48	G-P -2201 / 0 0.52 (1)
G-H	-9190 / 0	-91.8 -91.8 0.17 (1)	4.71	H-G 0 / 8460 0.48 (1)
H-I	-9190 / 0	-91.8 -91.8 0.17 (1)	4.71	I-N -10507 / 0 0.94 (1)
I-J	-8 / 0	-91.8 -91.8 0.10 (1)	10.00	T-C -6246 / 0 0.87 (1)
J-K	0 / 36	-91.8 -91.8 0.02 (1)	10.00	M-I 0 / 13739 0.38 (1)
T-B	-358 / 0	0.0 0.0 0.01 (1)	7.81	I-L -20028 / 0 0.98 (1)
L-J	-421 / 0	0.0 0.0 0.01 (1)	7.81	
T-S	0 / 4843	-18.5 -18.5 0.14 (1)	10.00	
S-R	0 / 4844	-18.5 -18.5 0.13 (1)	10.00	
R-Q	0 / 4820	-18.5 -18.5 0.15 (1)	10.00	
Q-P	0 / 4820	-18.5 -18.5 0.15 (1)	10.00	
P-O	0 / 7715	-18.5 -18.5 0.25 (1)	10.00	
O-N	0 / 7715	-18.5 -18.5 0.25 (1)	10.00	
N-M	0 / 15707	-18.5 -18.5 0.56 (1)	10.00	
M-U	0 / 15528	-18.5 -18.5 0.80 (1)	10.00	
U-V	0 / 15528	-18.5 -18.5 0.80 (1)	10.00	
V-L	0 / 15528	-18.5 -18.5 0.80 (1)	10.00	

FACTORED CONCENTRATED LOADS (LBS)	JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
U	28-11-8	-11723	-11723	---	BACK	VERT	TOTAL	---	C1
M	31-0-4	-1458	-1458	---	BACK	VERT	TOTAL	---	C1
V	33-0-4	-1458	-1458	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 8.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/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 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17")
CALCULATED VERT. DEFL.(LL) = L/999 (0.15")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/999 (0.28")

CSI: TC=0.17/1.00 (G-I), BC=0.80/1.00 (L-M), WB=0.98/1.00 (I-L), SS=0.34/1.00 (L-M)

DCL 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 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.90 (R) (INPUT = 0.90)
JSI METAL = 0.98 (R) (INPUT = 1.00)



Structural component only
DWG# T-2008008 1/2

CONTINUED ON PAGE 2

JOB NAME 408315	TRUSS NAME T4	QUANTITY 1	PLY 3	JOB DESC. GREEN PARK HOMES	DRWG NO.
--------------------	------------------	---------------	----------	-------------------------------	----------

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitak Industries, Inc. Thu Apr 30 11:19:20 2020 Page 2
ID:DMCubINVR8TsF0931v6I zns1I-7CJlqYXU4Uo78rDz8QJ MvRGyVC9phCytLtaXzLZ45

STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.

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

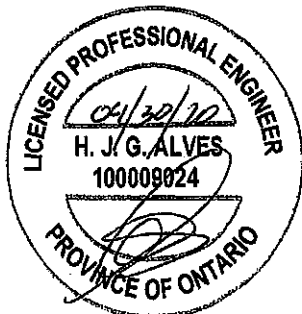
PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	8.0		
C	TMWWW-t	MT20	10.0	20.0	4.75	6.75
D	TS-l	MT20	5.0	8.0		
E	TTWW+m	MT20	5.0	8.0	4.00	1.50
F	TMW+w	MT20	3.0	6.0		
G	TTWW+m	MT20	5.0	8.0	4.00	1.50
H	TS-l	MT20	5.0	6.0		
I	TMWWW-t	MT20	10.0	20.0	4.75	6.75
J	TMV+p	MT20	3.0	6.0		
L	BMWW1-t	MT20	6.0	12.0	2.50	5.50
M	BMW+w	MT20	10.0	12.0	Edge	
N	BMWW-t	MT20	5.0	8.0	4.00	2.00
O	BS-l	MT20	5.0	6.0		
P	BMWWW-t	MT20	5.0	8.0		
Q	BS-l	MT20	5.0	6.0		
R	BMWW-t	MT20	5.0	8.0	4.00	2.00
S	BMW+w	MT20	10.0	12.0	Edge	
T	BMVW1-t	MT20	6.0	12.0	2.50	5.50

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

CONNECTION REQUIREMENTS

- 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



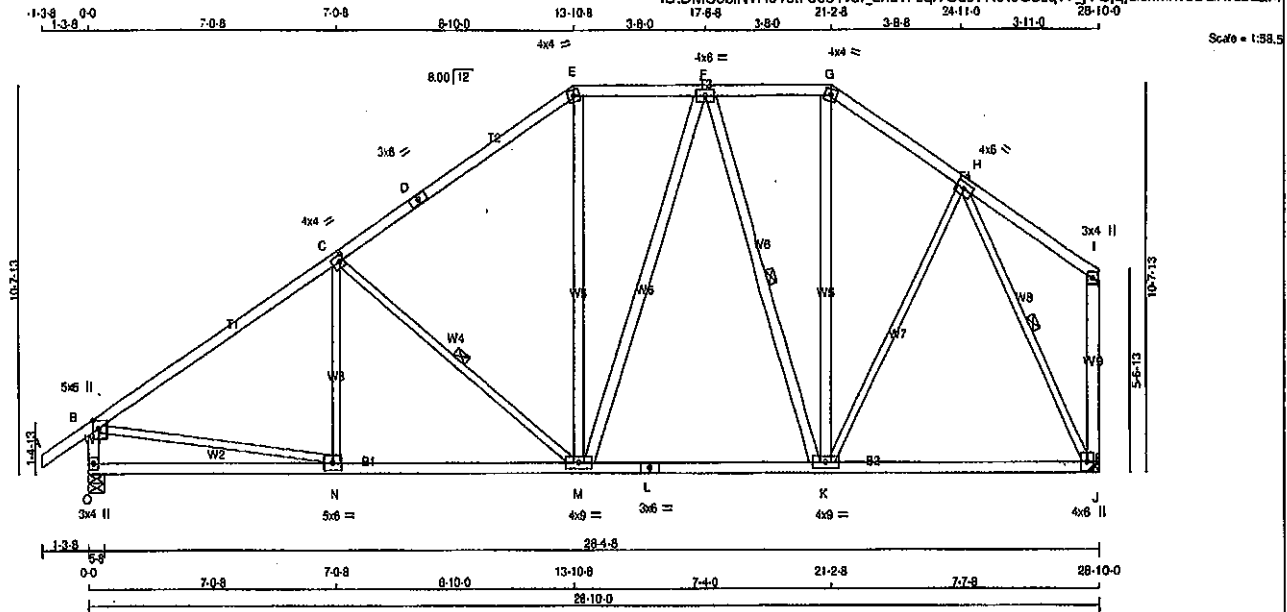
Structural component only
DWG# T-2008008

4/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408315	T5	6	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 09:31:37 2020 Page 1
ID:DMCubINVR6TstF0e31v8f_zns11-sqlT0dJT7kX9Gddq?_jYSqjGoxMrhoSGNrdzLa14



TOTAL WEIGHT = 6 X 158 = 948 lb

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

DRY: SEASONED LUMBER.

PLATES (table in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMVW+p	MT20	5.0	8.0 2.75 2.00
C	TMVW-1	MT20	4.0	4.0 2.00 1.50
D	TS-1	MT20	3.0	8.0
E	TTW-m	MT20	4.0	4.0
F	TMVW-1	MT20	4.0	6.0
G	TTW-m	MT20	4.0	4.0
H	TMVW-1	MT20	4.0	6.0
I	TMV+p	MT20	3.0	4.0
J	BMVW1+p	MT20	4.0	6.0
K	BMVW-1	MT20	4.0	9.0
L	BS-1	MT20	3.0	6.0
M	BMVW-1	MT20	4.0	9.0
N	BMVW-1	MT20	5.0	6.0
O	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 IN-SX
	VERT	HORZ	DOWN	HORZ		
O	1715	0	1715	0	5-8	5-8
J	1589	0	1589	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	1ST CASE		MAX. MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
O	1211	808/0	0/0	0/0	0/0	403/0	0/0
J	1124	738/0	0/0	0/0	0/0	398/0	0/0

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

BRACING

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

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-M, F-K, H-J.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	0/35	-91.8 -91.8	0.12 (1)	10.00	N-C	-97/84	0.08 (1)
B-C	-1848/0	-91.8 -91.8	0.72 (1)	4.08	C-M	-607/0	0.34 (1)
C-D	-1374/0	-91.8 -91.8	0.64 (1)	4.68	M-E	0/372	0.08 (1)
D-E	-1374/0	-91.8 -91.8	0.64 (1)	4.68	M-F	0/143	0.02 (1)
E-F	-1111/0	-91.8 -91.8	0.18 (1)	5.83	F-K	-572/0	0.37 (1)
F-G	-881/0	-91.8 -91.8	0.16 (1)	6.25	K-G	0/322	0.05 (1)
G-H	-1078/0	-91.8 -91.8	0.17 (1)	5.89	K-H	0/422	0.09 (1)
H-I	0/22	-91.8 -91.8	0.21 (1)	10.00	B-N	0/1592	0.38 (1)
O-B	-1862/0	0.0 0.0	0.17 (1)	8.43	H-J	-1555/0	0.79 (1)
J-I	-137/0	0.0 0.0	0.08 (1)	7.81			
O-N	0/0	-18.5 -18.5	0.22 (4)	10.00			
N-M	0/1573	-18.5 -18.5	0.37 (1)	10.00			
M-L	0/1085	-18.5 -18.5	0.35 (4)	10.00			
L-K	0/1085	-18.5 -18.5	0.35 (4)	10.00			
K-J	0/687	-18.5 -18.5	0.32 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	=	25.6	PSF
DL	=	8.0	PSF
BOT CH. LL	=	0.0	PSF
DL	=	7.4	PSF
TOTAL LOAD	=	39.0	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, NBC 2010, NBC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2019, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.86")
CALCULATED VERT. DEFL.(LL) = L/999 (0.06")
ALLOWABLE DEFL.(TL) = L/360 (0.86")
CALCULATED VERT. DEFL.(TL) = L/999 (0.12")

CSI: TC=0.72/1.00 (B-C:1), BC=0.37/1.00 (M-N:1),
WB=0.79/1.00 (H-J:1), SSI=0.28/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR	SECTION
(PSI)	(PLI)
MAX MIN MAX MIN MAX MIN	
MT20	918 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

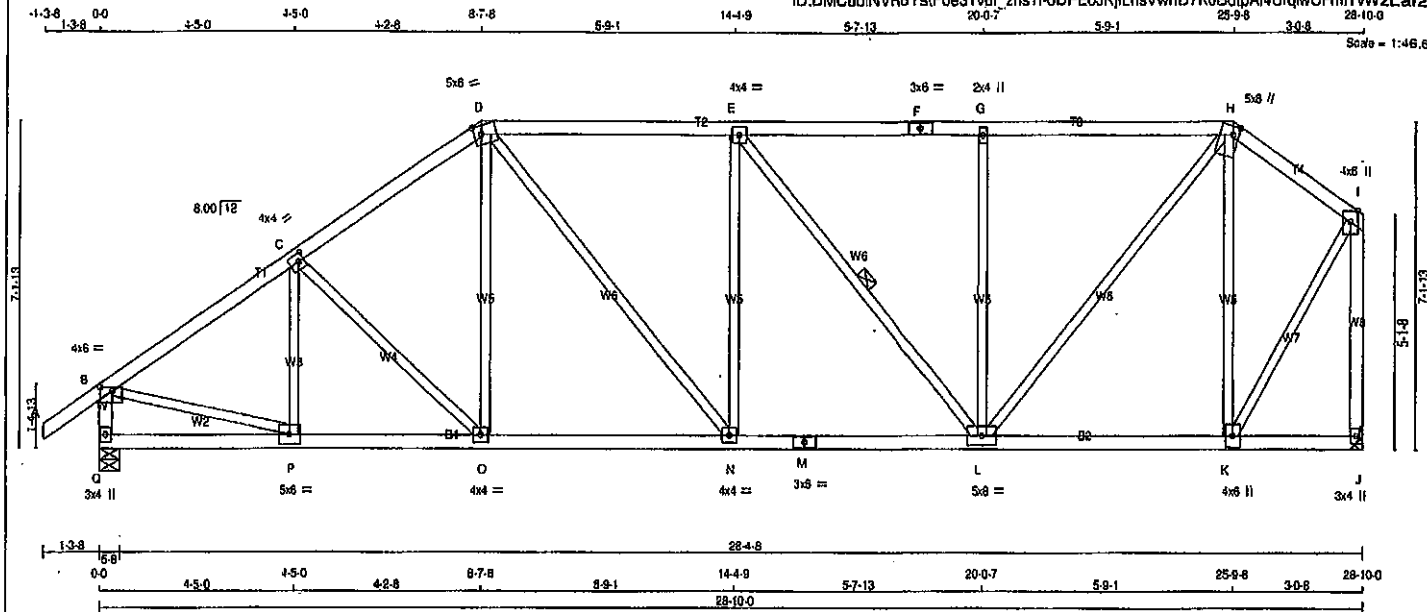
JSI GRIP= 0.90 (B) (INPUT = 0.90)
JSI METAL= 0.77 (B) (INPUT = 1.00)



Structural component only
DWG# T-2008009

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408315	T6	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 MTek Industries, Inc. Thu Apr 30 09:31:39 2020 Page 1
ID:DMCubINVR6TsFoe31v6l_zns11-oDPEoKJfLnsVwnD7K0BdtpAI4UrqwCFmTtVWzLaf2



TOTAL WEIGHT = 135 lb

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
H - I	2x4	DRY	No.2
O - B	2x4	DRY	No.2
J - I	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	TMWV-p	MT20	4.0	6.0	1.00	3.25
C	TMWV-l	MT20	4.0	4.0	2.00	1.50
D	TTWV-m	MT20	5.0	6.0	2.25	2.00
E	TMWV-l	MT20	4.0	4.0		
F	TS-l	MT20	3.0	6.0		
G	TMWV-w	MT20	2.0	4.0		
H	TTWV+m	MT20	5.0	6.0	2.25	1.50
I	TMWV-p	MT20	4.0	6.0	Edge	
J	BMV1+p	MT20	3.0	4.0		
K	BMV1+p	MT20	4.0	6.0		
L	BMV1+p	MT20	5.0	6.0		
M	BS-l	MT20	3.0	6.0		
N	BMV1+p	MT20	4.0	4.0		
O	BMV1+p	MT20	4.0	4.0		
P	BMV1+p	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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	RECORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
Q	1715	0	1715	0
J	1589	0	1589	0

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS					
Q	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
J	1211	808 / 0	0 / 0	0 / 0	0 / 0	403 - 0	0 / 0
Q	1124	738 / 0	0 / 0	0 / 0	0 / 0	388 - 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.50 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-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				WEBS			
MEMB.	MAX. FACTORED	FACTORED	MAX	MEMB.	MAX. FACTORED	FACTORED	MAX
	FORCE	VERT. LOAD	CS1 (LC)		FORCE	VERT. LOAD	CS1 (LC)
FR-TO	(LBS)	(PLF)	CS1 (LC)	FR-TO	(LBS)	(PLF)	CS1 (LC)
A-B	0 / 35	-91.8	-91.8 0.12 (1)	10.00	P-C	-285 / 0	0.08 (1)
B-C	-1814 / 0	-91.8	-91.8 0.35 (1)	4.61	C-O	-168 / 0	0.10 (1)
C-D	-1720 / 0	-91.8	-91.8 0.33 (1)	4.72	O-D	0 / 211	0.05 (1)
D-E	-1720 / 0	-91.8	-91.8 0.50 (1)	4.50	D-N	0 / 481	0.11 (1)
E-F	-1484 / 0	-91.8	-91.8 0.47 (1)	4.02	N-E	-261 / 2	0.23 (1)
F-G	-1484 / 0	-91.8	-91.8 0.47 (1)	4.02	E-L	-402 / 0	0.22 (1)
G-H	-1484 / 0	-91.8	-91.8 0.47 (1)	4.03	L-G	-569 / 0	0.51 (1)
H-I	-786 / 0	-91.8	-91.8 0.15 (1)	6.25	L-H	0 / 1282	0.29 (1)
Q-B	-1678 / 0	0.0	0.0 0.17 (1)	8.41	K-H	-900 / 0	0.80 (1)
J-I	-1574 / 0	0.0	0.0 0.75 (1)	6.58	B-P	0 / 1575	0.35 (1)
Q-P	0 / 0	-18.5	-18.5 0.07 (4)	10.00	K-I	0 / 1191	0.27 (1)
P-O	0 / 1530	-18.5	-18.5 0.30 (1)	10.00			
O-N	0 / 1410	-18.5	-18.5 0.29 (1)	10.00			
N-M	0 / 1720	-18.5	-18.5 0.34 (1)	10.00			
M-L	0 / 1720	-18.5	-18.5 0.34 (1)	10.00			
L-K	0 / 639	-18.5	-18.5 0.17 (4)	10.00			
K-J	0 / 0	-18.5	-18.5 0.09 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	= 25.6 PSF
DL	= 6.0 PSF
BOT CH. LL	= 0.0 PSF
DL	= 7.4 PSF
TOTAL LOAD	= 39.0 PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(65 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/860 (0.88")
CALCULATED VERT. DEFL. (LL) = L/999 (0.07")
ALLOWABLE DEFL. (TL) = L/860 (0.88")
CALCULATED VERT. DEFL. (TL) = L/999 (0.13")

CS1: TC=0.75/1.00 (N-I), BC=0.34/1.00 (L-N-I), WB=0.80/1.00 (H-K-I), SS1=0.25/1.00 (D-E-I)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

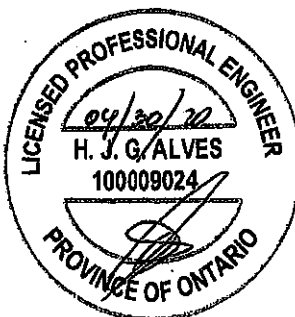
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

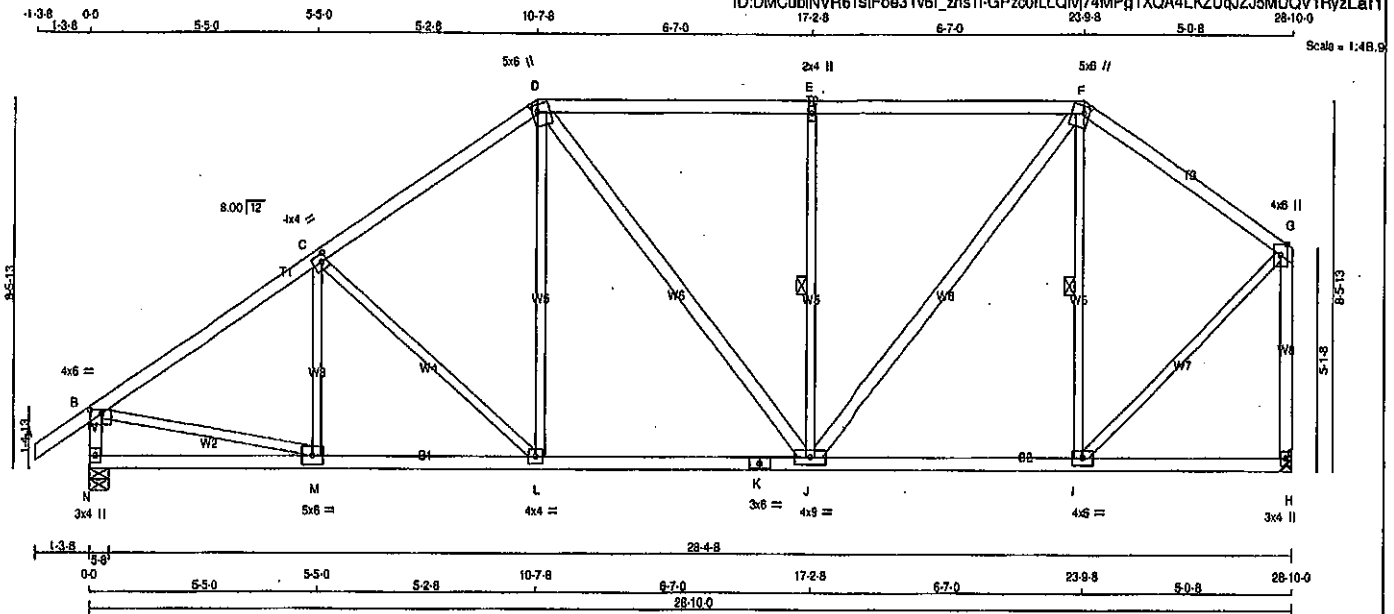
JSI GRIP = 0.88 (H) (INPUT = 0.90)
JSI METAL = 0.53 (M) (INPUT = 1.00)



Structural component only
DWG# T-2008010

JOB NAME 408315	TRUSS NAME T7	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Thu Apr 30 08:31:40 2020 Page 1
ID:DMCubINVR6TslFoe31v6L_zns1L-GPzo0ILLQV74MPg1XQA4LKZUqJZJ5MUQV1RyzLaf1



TOTAL WEIGHT = 189 lb (M/F)

LUMBER				
N. L. G. A. RULE	CHORDS	SIZE	DRY	LUMBER
A - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	No.2	SPF
F - G	2x4	DRY	No.2	SPF
N - B	2x4	DRY	No.2	SPF
H - G	2x4	DRY	No.2	SPF
N - K	2x4	DRY	No.2	SPF
K - H	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				
D - J	2x4	DRY	No.2	SPF
J - F	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (Tables in inches)				
JT TYPE	PLATES	W	LEN	Y X
B TMVW-p	MT20	4.0	8.0	1.00 3.25
C TMWW-t	MT20	4.0	4.0	2.00 1.50
D TTWW+m	MT20	5.0	6.0	2.00 1.50
E TMVW-w	MT20	2.0	4.0	
F TTWW+m	MT20	5.0	6.0	2.00 1.50
G TMVW+p	MT20	4.0	8.0	Edge
H BMVJ+p	MT20	3.0	4.0	
I BMWW-t	MT20	4.0	6.0	
J BMWW-t	MT20	4.0	9.0	
K BS-t	MT20	3.0	6.0	
L BMWW-t	MT20	4.0	4.0	
M BMWW-t	MT20	5.0	6.0	
N BMVJ+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
JT	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG
N	1715	0	1715	0	5-8
H	1589	0	1589	0	MECHANICAL

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

UNFACTORED REACTIONS

JT	1ST LOSE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERMIVE	WIND	DEAD	SOIL
N	1211	808 / 0	0 / 0	0 / 0	0 / 0	0 / 0	403 / 0	0 / 0
H	1124	738 / 0	0 / 0	0 / 0	0 / 0	0 / 0	388 / 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 = 4.54 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO			FR-TO		
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00	M-C	-209 / 15
B-C	-1848 / 0	-91.8	-91.8	0.39 (1)	4.54	C-L	-343 / 0
C-D	-1808 / 0	-91.8	-91.8	0.37 (1)	4.83	L-D	0 / 338
D-E	-1412 / 0	-91.8	-91.8	0.55 (1)	4.77	D-J	0 / 162
E-F	-1412 / 0	-91.8	-91.8	0.55 (1)	4.77	J-E	-745 / 0
F-G	-993 / 0	-91.8	-91.8	0.31 (1)	5.87	J-F	0 / 950
N-B	-1672 / 0	0.0	0.0	0.17 (1)	8.42	I-F	-650 / 0
H-G	-1554 / 0	0.0	0.0	0.74 (1)	8.81	B-M	0 / 1595
						I-G	0 / 1129
N-M	0 / 0	-18.5	-18.5	0.11 (4)	10.00		
M-L	0 / 1564	-18.5	-18.5	0.32 (1)	10.00		
L-K	0 / 1311	-18.5	-18.5	0.29 (1)	10.00		
K-J	0 / 1311	-18.5	-18.5	0.29 (1)	10.00		
J-I	0 / 817	-18.5	-18.5	0.23 (4)	10.00		
I-H	0 / 0	-18.5	-18.5	0.14 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	= 25.8 PSF
DL	= 6.0 PSF
BOT CH. LL	= 0.0 PSF
DL	= 7.4 PSF
TOTAL LOAD	= 39.0 PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2010, CBC 2012, ABC 2018
- PART 9 OF CBC 2012 (2018 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.96")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.06")
ALLOWABLE DEFL.(TL) = $L/360$ (0.96")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.13")

CSI: TC=0.74/1.00 (3-H:1), BC=0.32/1.00 (L-M:1), WB=0.38/1.00 (B-M:1), SS=0.29/1.00 (D-E: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

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

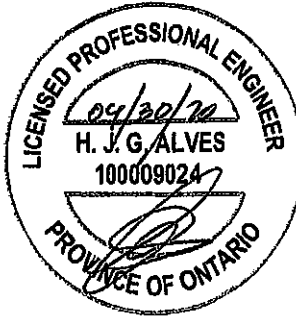
NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	818	354	1887
	788	1887	1856

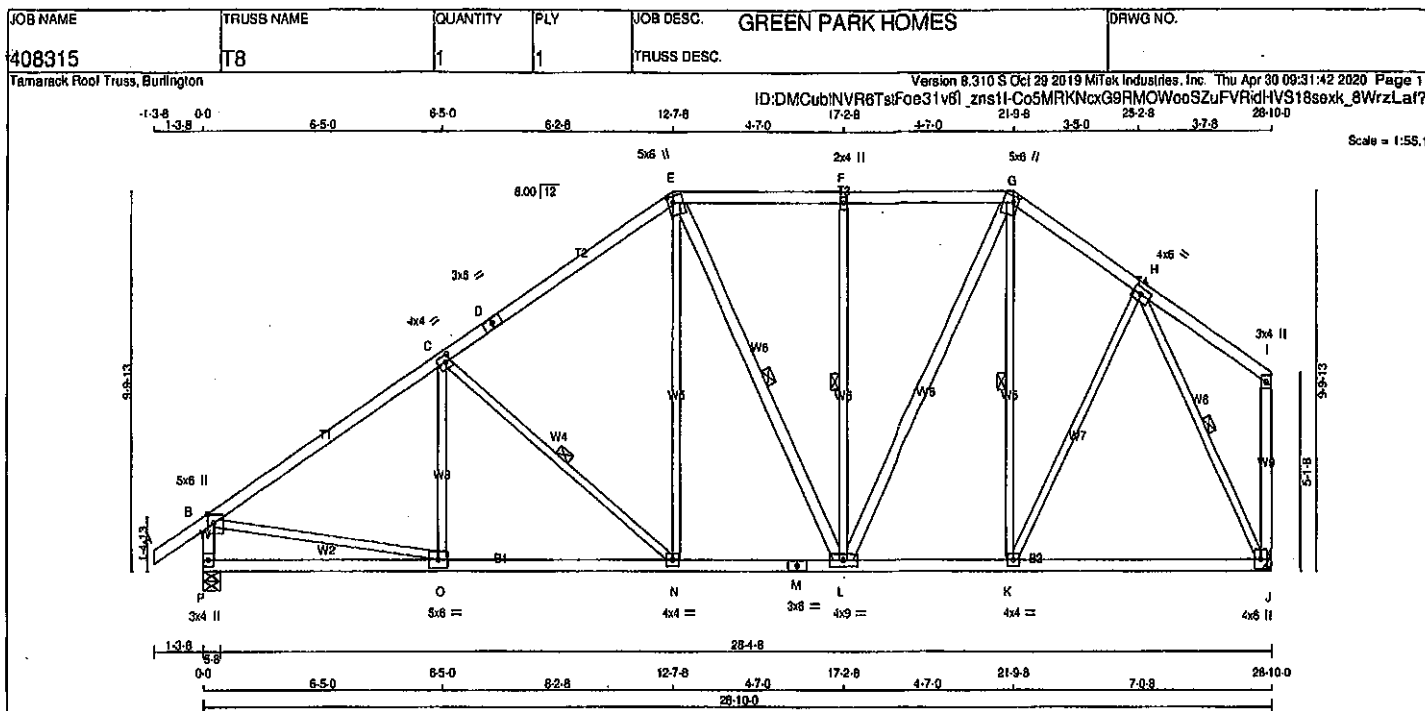
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (8) (INPUT = 0.90)
JSI METAL= 0.52 (3) (INPUT = 1.00)



Structural component only
DWG# T-2008011



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN	X
B TMVW+p	MT20	5.0	6.0	2.75
C TMVW-l	MT20	4.0	4.0	2.00
D TS-l	MT20	3.0	6.0	
E TTWW+m	MT20	5.0	6.0	2.00
F TMVW+w	MT20	2.0	4.0	
G TTWW+m	MT20	5.0	6.0	2.00
H TMVW-l	MT20	4.0	6.0	
I TMVW+p	MT20	3.0	4.0	
J BMVW1+p	MT20	4.0	6.0	
K BMVW-l	MT20	4.0	4.0	
L BMVW-l	MT20	4.0	6.0	
M BS-l	MT20	3.0	6.0	
N BMVW-l	MT20	4.0	4.0	
O BMVW-l	MT20	5.0	6.0	
P 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	REQD
JT	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG
P	1715	0	1715	0	5-8
J	1589	0	1589	0	MECHANICAL

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

UNFACTORED REACTIONS

JT	1ST CASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
P	1211	808 / 0	0 / 0	0 / 0	0 / 0	403.0	0 / 0
J	1124	738 / 0	0 / 0	0 / 0	0 / 0	386.0	0 / 0

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

BRACING

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

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF G-N, E-L, F-L, G-K, H-J.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CS1 (LC)	MEMB.	FORCE (LBS)	MAX. CS1 (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0.35	-91.8	-91.8 0.12 (1)	10.00	O-C	-134 / 61	0.07 (1)
B-C	-1855 / 0	-91.8	-91.8 0.58 (1)	4.29	C-N	-510 / 0	0.24 (1)
C-D	-1467 / 0	-91.8	-91.8 0.52 (1)	4.77	N-E	0 / 435	0.10 (1)
D-E	-1467 / 0	-91.8	-91.8 0.52 (1)	4.77	E-L	-23 / 0	0.01 (4)
E-F	-1182 / 0	-91.8	-91.8 0.26 (1)	5.58	L-F	-512 / 0	0.33 (1)
F-G	-1182 / 0	-91.8	-91.8 0.26 (1)	5.58	L-G	0 / 653	0.10 (1)
G-H	-1107 / 0	-91.8	-91.8 0.15 (1)	5.85	K-G	-269 / 0	0.17 (1)
H-I	0 / 21	-91.8	-91.8 0.18 (1)	10.00	K-H	0 / 454	0.10 (1)
P-B	-1686 / 0	0.0	0.0 0.17 (1)	6.42	B-O	0 / 1588	0.36 (1)
J-I	-126 / 0	0.0	0.0 0.06 (1)	7.81	H-J	-1573 / 0	0.68 (1)
P-O	0 / 0	-18.5	-18.5 0.18 (4)	10.00			
O-N	0 / 1578	-18.5	-18.5 0.34 (1)	10.00			
N-M	0 / 1191	-18.5	-18.5 0.25 (1)	10.00			
M-L	0 / 1191	-18.5	-18.5 0.26 (1)	10.00			
L-K	0 / 899	-18.5	-18.5 0.28 (4)	10.00			
K-J	0 / 699	-18.5	-18.5 0.26 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.8 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 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, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.96")
CALCULATED VERT. DEFL. (LL) = L/999 (0.08")
ALLOWABLE DEFL. (TL) = L/360 (0.96")
CALCULATED VERT. DEFL. (TL) = L/999 (0.12")

CS1: TC=0.58/1.00 (B-C:1), BC=0.34/1.00 (N-O:1), WB=0.68/1.00 (H-J:1), 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

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 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (B) (INPUT = 0.90)
JSI METAL = 0.77 (B) (INPUT = 1.00)

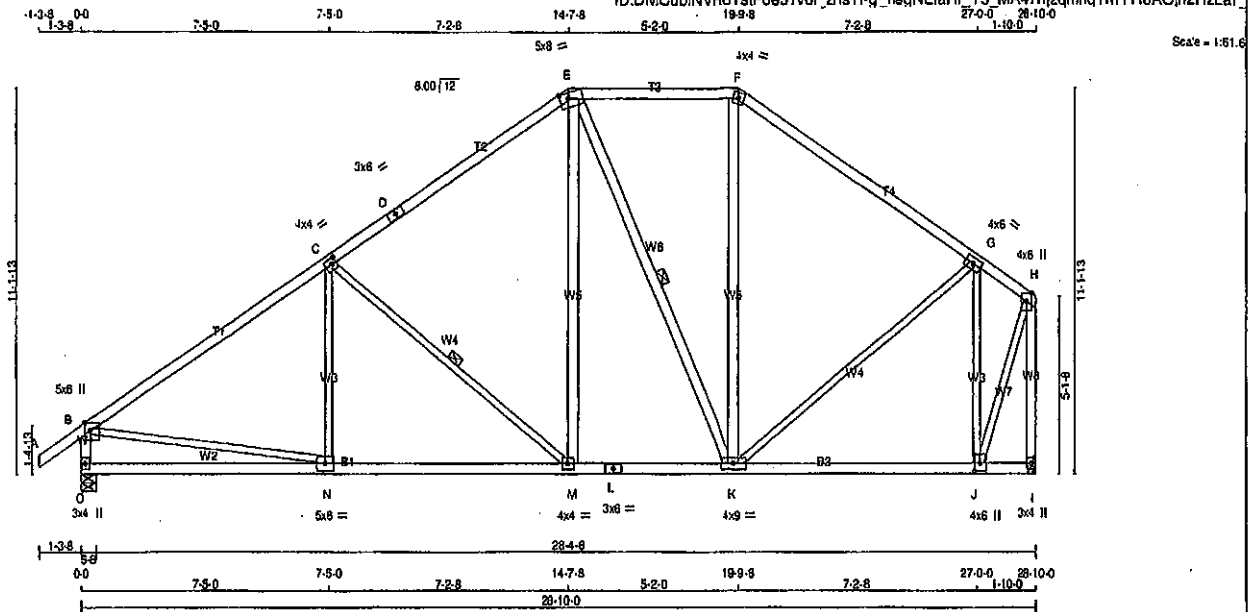


Structural component only
DWG# T-2008012

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408315	T9	4	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 09:31:43 2020 Page 1
ID:DMCubINVR6TstFoe31v6l_zns11-g_flagNEIahI_Y5_MA47nzqmhq?mYHoAOjh2HzLaf_



TOTAL WEIGHT = 4 X 151 = 605 lb

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
O - B	2x4	DRY	No.2
I - H	2x4	DRY	No.2
O - L	2x4	DRY	No.2
L - I	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			
M - E	2x4	DRY	No.2
E - K	2x4	DRY	No.2
K - F	2x4	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table in inches)				
JT TYPE	PLATES	W	LEN	Y X
B TMVW+p	MT20	5.0	6.0	2.75 2.00
C TMVW-l	MT20	4.0	4.0	2.00 1.50
D TS-l	MT20	3.0	6.0	
E TTW-m	MT20	5.0	6.0	2.00 3.00
F TTW-m	MT20	4.0	4.0	
G TMVW-l	MT20	4.0	6.0	
H TMVW+p	MT20	4.0	6.0	Edge
I BMVl+p	MT20	3.0	4.0	
J BMVW+l	MT20	4.0	6.0	2.75 2.00
K BMVW+l	MT20	4.0	6.0	
L BS-l	MT20	3.0	6.0	
M BMVW+l	MT20	4.0	4.0	
N BMVW+l	MT20	5.0	6.0	
O BMVl+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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
O	1715	0	1715	0	5-8	5-8
I	1589	0	1589	0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	1ST LOOSE		MAX. MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
O	1211	808 / 0	0 / 0	0 / 0	0 / 0	403 / 0	0 / 0
I	1124	738 / 0	0 / 0	0 / 0	0 / 0	388 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.91 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-M, E-K.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF)	MAX. CSI(LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI(LC)
FR-TO		FROM TO		LENGTH	FR-TO		
A-B	0 / 35	-91.8	-91.8 0.12 (1)	10.00	N-C	-72 / 101	0.05 (1)
B-C	-1842 / 0	-91.8	-91.8 0.81 (1)	3.91	C-M	-687 / 0	0.42 (1)
C-D	-1314 / 0	-91.8	-91.8 0.72 (1)	4.58	M-E	0 / 525	0.06 (1)
D-E	-1314 / 0	-91.8	-91.8 0.72 (1)	4.68	E-K	-335 / 0	0.27 (1)
E-F	-921 / 0	-91.8	-91.8 0.32 (1)	8.02	K-F	0 / 119	0.03 (4)
F-G	-1141 / 0	-91.8	-91.8 0.82 (1)	5.07	K-G	0 / 490	0.11 (1)
G-H	-509 / 0	-91.8	-91.8 0.49 (1)	6.25	J-G	-1297 / 0	0.84 (1)
O-B	-1660 / 0	0.0	0.0 0.17 (1)	8.44	B-N	0 / 1587	0.38 (1)
I-H	-1808 / 0	0.0	0.0 0.77 (1)	6.52	J-H	0 / 1514	0.34 (1)
O-N	0 / 0	-18.5	-18.5 0.26 (4)	10.00			
N-M	0 / 1570	-18.5	-18.5 0.39 (1)	10.00			
M-L	0 / 1081	-18.5	-18.5 0.28 (1)	10.00			
L-K	0 / 1061	-18.5	-18.5 0.28 (1)	10.00			
K-J	0 / 540	-18.5	-18.5 0.21 (4)	10.00			
J-I	0 / 0	-18.5	-18.5 0.17 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.6 PSF
	DL = 6.0 PSF
BOT CH.	LL = 0.0 PSF
	DL = 7.4 PSF
TOTAL LOAD	= 39.0 PSF

SPACING = 24.0 IN. C/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, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = $L/360$ (0.98")
CALCULATED VERT. DEFL. (LL) = $L/999$ (0.06")
ALLOWABLE DEFL. (TL) = $L/360$ (0.98")
CALCULATED VERT. DEFL. (TL) = $L/999$ (0.14")

CSI: TC=0.81/1.00 (B-C:1), BC=0.39/1.00 (M-N:1), WB=0.84/1.00 (G-J:1), SS=0.27/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.80 (B) (INPUT = 0.80)
JSI METAL = 0.77 (B) (INPUT = 1.00)



Structural component only
DWG# T-2008013

DRWG NO.

Scale = 1:56.5



1) G1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408315	T10	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 09:31:45 2020 Page 2	ID:DMCubINVR6TsFoe31v6I zns1I-dMmV3MPUEBX0DfEMTa7b183EvVR3EWa5eiCq6AzLasy

PLATES (table is in inches)

PLATE TYPE	PLATES	W	LEN	Y	X
B TMVW-p	MT20	5.0	8.0	Edge	
C TTWW+rm	MT20	5.0	8.0	Edge	
D TMVW+I	MT20	5.0	8.0		
E, F, H					
E TMVW-t	MT20	5.0	6.0		
G TS-I	MT20	5.0	8.0		
I TMVW+I	MT20	5.0	6.0		
J TTWW+rm	MT20	5.0	8.0	Edge	
K TMVW-p	MT20	5.0	8.0	Edge	
M BMV1+p	MT20	3.0	8.0		
N BMVW-t	MT20	5.0	6.0	2.50	2.50
O BMVW+I	MT20	5.0	6.0	3.00	2.00
P BS-I	MT20	5.0	6.0		
Q BMVW+I	MT20	5.0	6.0		
R BMVW-t	MT20	5.0	6.0		
S BMVW-t	MT20	5.0	6.0		
T BMVW+I	MT20	5.0	6.0		
U BS-I	MT20	5.0	8.0		
V BMVW+I	MT20	5.0	6.0	3.00	2.00
W BMVW-t	MT20	5.0	6.0	2.50	2.50
X BMV1+p	MT20	3.0	6.0		

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



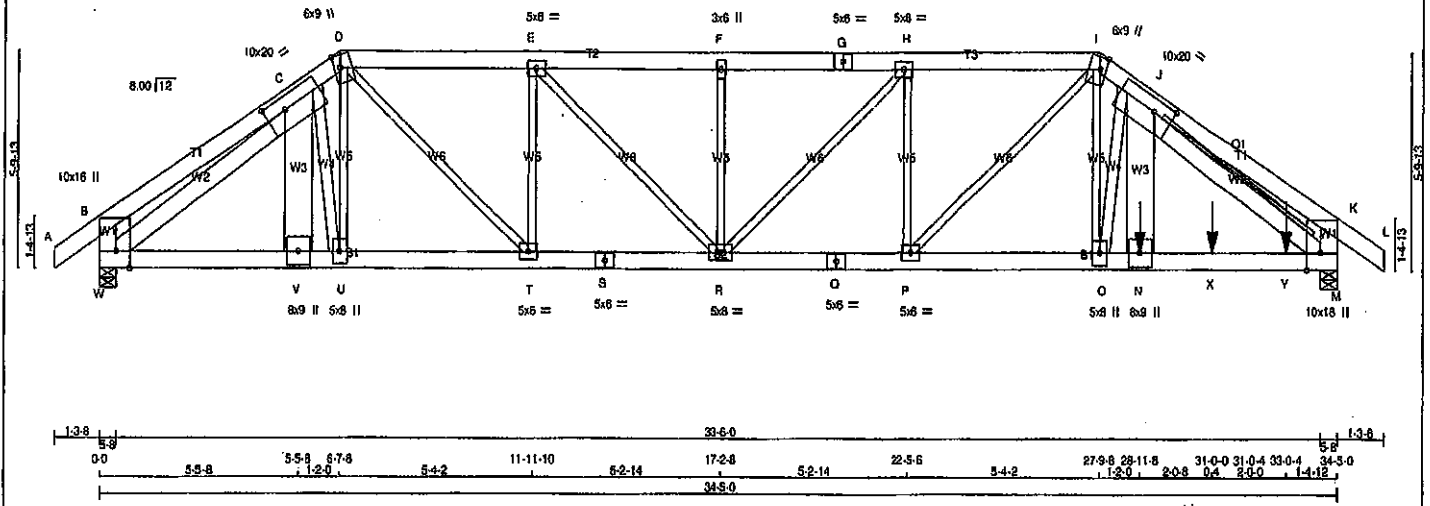
Structural component only
DWG# T-2008014

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408315	T11	1	3	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 09:31:46 2020 Page 1

ID:DMCubNVR6TstF0e31v6I_zns11-5ZKIGQ6?Vlr7pZ1eqPLbSCvnXzWesMyLacZLaex

1-3.8 0-0 5-5.8 6-7.6 5-4.2 11-11.10 5-2.14 17-2.6 5-2.14 22-5.6 5-4.2 27-9.8 28-11.6 31-0-0 33-0-1 34-5-0 35-8-8 1-2-0 2-0-8 2-0-1 1-1-12 1-3-8
Scale = 1:57.0



TOTAL WEIGHT = 3 X 238 = 713 lb

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.	SPF
A - D	2x6 DRY	No.2	SPF			
D - G	2x6 DRY	No.2	SPF			
G - I	2x6 DRY	No.2	SPF			
I - L	2x6 DRY	No.2	SPF			
L - M	2x6 DRY	No.2	SPF			
M - K	2x6 DRY	No.2	SPF			
K - S	2x6 DRY	1650F 1.5E	SPF			
S - Q	2x6 DRY	1650F 1.5E	SPF			
Q - M	2x6 DRY	1650F 1.5E	SPF			
ALL WEBS EXCEPT	2x3 DRY	No.2	SPF			
V - C	2x10 DRY	No.2	SPF			
C - U	2x4 DRY	No.2	SPF			
U - N	2x6 DRY	No.2	SPF			
N - J	2x10 DRY	No.2	SPF			
J - O	2x4 DRY	No.2	SPF			
O - M	2x4 DRY	No.2	SPF			

DRY: SEASONED LUMBER.

DESIGN CONSISTS OF 3 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - D 2	12	TOP
D - G 2	12	TOP
G - I 2	12	TOP
I - L 2	12	TOP
L - M 2	12	TOP
M - K 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
W - S 2	5	TOP
S - Q 2	12	TOP
Q - M 2	5	SIDE(824.0)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3 1	6	
2x4 1	6	
2x6 2	6	
J - N 5	4	SIDE(2340.4)
2x10 5	4	

STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.

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		
W	4072	0	4072	0	0	5-8	5-8		
M	14508	0	14508	0	0	5-8	5-8		

UNFACTORED REACTIONS

JT	1ST CASE	MAX/MIN	COMPONENT REACTIONS						
W	2875	1913 / 0	0 / 0	0 / 0	0 / 0	0 / 0	962 / 0	0 / 0	0 / 0
M	10243	6815 / 0	0 / 0	0 / 0	0 / 0	0 / 0	3428 / 0	0 / 0	0 / 0

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

BEARING SIZE FACTOR = 1.15 AT JNT(S) M (BASED ON SUPPORT DEPTH = 1-8)

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.59 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.

2x6 DRY SPF No.2 T-BRACE AT J-M

FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 8" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		VERT. LOAD		MAX		WEBS		FACTORED	
MEMB.	FORCE (LBS)	FROM	TO	CS1 (LC)	UNBRACED LENGTH	FR-TO	MEMB.	FORCE (LBS)	CS1 (LC)	MEMB.	FORCE (LBS)
A-B	0 / 38	-91.8	-91.8	0.02 (1)	10.00	V-C	-150 / 21	0.00 (1)			
B-C	0 / 15	-91.8	-91.8	0.08 (1)	10.00	C-U	0 / 321	0.02 (1)			
C-D	-5481 / 0	-91.8	-91.8	0.04 (1)	5.37	U-D	-14 / 14	0.00 (1)			
D-E	-7359 / 0	-91.8	-91.8	0.09 (1)	6.22	D-T	0 / 4079	0.31 (1)			
E-F	-9618 / 0	-91.8	-91.8	0.10 (1)	4.69	T-E	-2816 / 0	0.42 (1)			
F-G	-9618 / 0	-91.8	-91.8	0.10 (1)	4.69	E-R	0 / 3233	0.24 (1)			
G-H	-9618 / 0	-91.8	-91.8	0.10 (1)	4.69	R-F	-447 / 0	0.07 (1)			
H-I	-11353 / 0	-91.8	-91.8	0.14 (1)	4.35	F-H	-2481 / 0	0.87 (1)			
I-J	-15043 / 0	-91.8	-91.8	0.35 (1)	3.59	P-H	0 / 1284	0.10 (1)			
J-K	-114 / 0	-91.8	-91.8	0.25 (1)	6.25	P-I	-1775 / 0	0.83 (1)			
K-L	0 / 38	-91.8	-91.8	0.02 (1)	10.00	O-I	0 / 8859	0.66 (1)			
W-B	-349 / 0	0.0	0.0	0.01 (1)	7.81	W-C	-5708 / 0	0.60 (1)			
M-K	-580 / 0	0.0	0.0	0.01 (1)	7.81	N-J	0 / 13281	0.37 (1)			
						O-J	-9338 / 0	0.85 (1)			
						J-M	-19292 / 0	0.79 (1)			
W-V	0 / 4381	-18.5	-18.5	0.13 (1)	10.00						
V-U	0 / 4377	-18.5	-18.5	0.13 (1)	10.00						
U-T	0 / 4472	-18.5	-18.5	0.14 (1)	10.00						
T-S	0 / 7359	-18.5	-18.5	0.20 (1)	10.00						
S-R	0 / 7359	-18.5	-18.5	0.20 (1)	10.00						
R-Q	0 / 11353	-18.5	-18.5	0.30 (1)	10.00						
Q-P	0 / 11353	-18.5	-18.5	0.30 (1)	10.00						
P-O	0 / 12609	-18.5	-18.5	0.38 (1)	10.00						
O-N	0 / 15181	-18.5	-18.5	0.48 (1)	10.00						
N-X	0 / 14810	-18.5	-18.5	0.72 (1)	10.00						
X-Y	0 / 14810	-18.5	-18.5	0.72 (1)	10.00						
Y-M	0 / 14810	-18.5	-18.5	0.72 (1)	10.00						

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX	MAX	FACE	DIR.	TYPE	HEEL	CONN.
N	28-11-8	-11612	-11612	---	FRONT	VERT	TOTAL	---	C1
X	31-0-4	-1458	-1458	---	FRONT	VERT	TOTAL	---	C1
Y	33-0-4	-1458	-1458	---	FRONT	VERT	TOTAL	---	C1

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 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, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. HAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/380 (1.15")
CALCULATED VERT. DEFL.(LL) = L/999 (0.13")
ALLOWABLE DEFL.(TL) = L/380 (1.15")
CALCULATED VERT. DEFL.(TL) = L/999 (0.24")

CSI: TC=0.35/1.00 (H-I), BC=0.72/1.00 (M-N), WB=0.87/1.00 (H-R), SS=0.31/1.00 (M-N)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

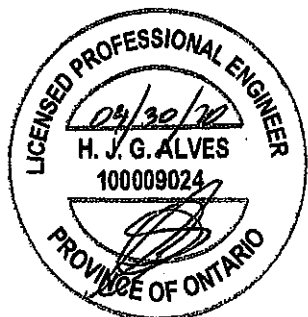
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 818 354 1687 788 1987 1686

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (I) (INPUT = 0.90)

JSI METAL= 0.92 (N) (INPUT = 1.00)



Structural component only
DWG# T-2008015

JOB NAME 408315	TRUSS NAME T11	QUANTITY 1	PLY 3	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 08:31:46 2020 Page 2 ID:DMCubINVR6TstFos31v6I zps11-5ZKIGiQ87Vitr7pZ1teqPLbSCvnXzvWEsMyLacZLaax	

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

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B, K, M, W					
B					
B	TMSMVW1*+pMT20	10.0	16.0	Edge	4.50
C	TMWVWV-1	MT20	10.0	20.0	4.00 6.75
D	TTWVW+m	MT20	8.0	9.0	4.00 2.00
E	TMWVW-1	MT20	5.0	6.0	
F	TMW+w	MT20	3.0	6.0	
G	TS-1	MT20	5.0	6.0	
H	TMWVW-1	MT20	5.0	6.0	
I	TTWVW+m	MT20	6.0	9.0	4.00 2.00
J	TMWVWV-1	MT20	10.0	20.0	4.00 6.75
M	TMSMVW1*+pMT20	10.0	16.0	Edge	4.50
N	BMW+w	MT20	8.0	9.0	
O	BMWVW-1	MT20	5.0	6.0	
P	BMWVW-1	MT20	5.0	6.0	
Q	BS-1	MT20	5.0	6.0	
R	BMWVWV-1	MT20	5.0	8.0	
S	BS-1	MT20	5.0	6.0	
T	BMWVW-1	MT20	5.0	6.0	
U	BMWVW-1	MT20	5.0	8.0	
V	BMW+w	MT20	8.0	9.0	

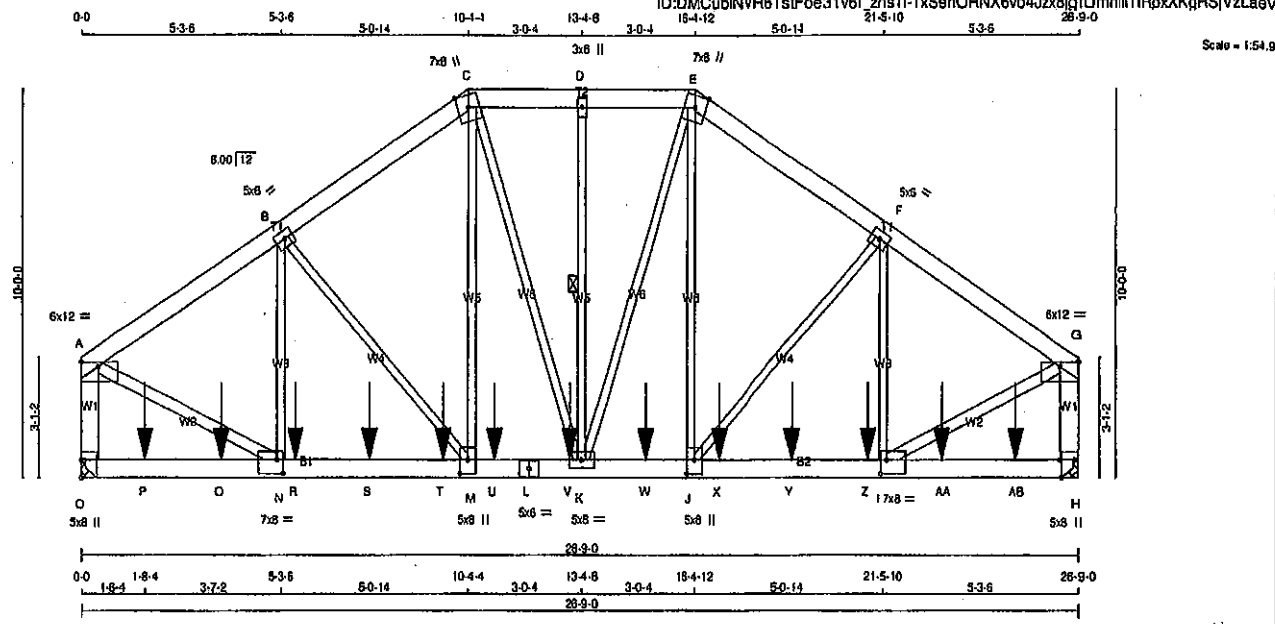
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



Structural component only
DWG# T-2008016



TOTAL WEIGHT = 2 X 154 = 308 lb

LUMBER					
N. L. G. A. RULES					
CHORDS		SIZE	LUMBER		DESCR.
A - C	2x6	DRY	No.2	SPF	
G - E	2x6	DRY	No.2	SPF	
E - G	2x6	DRY	No.2	SPF	
O - A	2x6	DRY	No.2	SPF	
H - G	2x6	DRY	No.2	SPF	
O - L	2x6	DRY	2100F 1.8E	SPF	
L - H	2x6	DRY	2100F 1.8E	SPF	
ALL WEBS		2x3	DRY	No.2	SPF
EXCEPT					
A - N	2x4	DRY	No.2	SPF	
I - G	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	2	12	TOP
C - E	2	12	TOP
E - G	2	12	TOP
O - A	2	12	TOP
H - G	2	12	TOP
BOTTOM CHORDS: (0.122'X3") SPIRAL NAILS			
O - L	2	12	SIDE(0.0)
L - H	2	12	SIDE(197.8)
WEBS: (0.122'X3") SPIRAL NAILS			
D - K	1	8	SIDE(212.1)
2x3	1	8	
2x4	1	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

BEARINGS

FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT VERT	DOWN	IN-SX	IN-SX
O	11741	0	0
H	11631	0	0

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT O, H. MINIMUM BEARING LENGTH AT JOINT O = 5-0, JOINT H = 5-0.

UNFACTORED REACTIONS

1ST LOASE	MAX MIN. COMPONENT REACTIONS	WIND	DEAD	SOIL
JT COMBINED	SNOW	LIVE	PERM. LIVE	
O	8292	5505 / 0	0 / 0	0 / 0
H	8214	5453 / 0	0 / 0	0 / 0

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.58 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF D-K.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH		
FR-TO		FROM TO			FR-TO				
A-B	-10728 / 0	-91.8	-91.8	0.30 (1)	3.58	N-B	0 / 489	0.08 (1)	
B-C	-10099 / 0	-91.8	-91.8	0.26 (1)	3.69	B-M	-858 / 0	0.55 (1)	
C-D	-8728 / 0	-91.8	-91.8	0.16 (1)	4.02	M-C	0 / 4208	0.52 (1)	
D-E	-8728 / 0	-91.8	-91.8	0.16 (1)	4.02	C-K	0 / 1003	0.12 (1)	
E-F	-9982 / 0	-91.8	-91.8	0.26 (1)	3.72	K-D	-70 / 24	0.02 (1)	
F-G	-10612 / 0	-91.8	-91.8	0.29 (1)	3.59	K-E	0 / 1399	0.17 (1)	
O-A	-10565 / 0	0.0	0.0	0.54 (1)	4.84	J-E	0 / 3755	0.46 (1)	
H-G	-10453 / 0	0.0	0.0	0.53 (1)	4.66	J-F	-687 / 0	0.57 (1)	
						I-F	0 / 515	0.06 (1)	
O-P	0 / 0	-18.5	-18.5	0.44 (1)	10.00	A-N	0 / 9949	0.88 (1)	
P-Q	0 / 0	-18.5	-18.5	0.44 (1)	10.00	I-G	0 / 9843	0.87 (1)	
Q-N	0 / 0	-18.5	-18.5	0.44 (1)	10.00				
N-R	0 / 8933	-18.5	-18.5	0.67 (1)	10.00				
R-S	0 / 8933	-18.5	-18.5	0.67 (1)	10.00				
S-T	0 / 8933	-18.5	-18.5	0.67 (1)	10.00				
T-M	0 / 8933	-18.5	-18.5	0.67 (1)	10.00				
M-U	0 / 8425	-18.5	-18.5	0.42 (1)	10.00				
U-L	0 / 8425	-18.5	-18.5	0.42 (1)	10.00				
L-V	0 / 8425	-18.5	-18.5	0.42 (1)	10.00				
V-K	0 / 8425	-18.5	-18.5	0.42 (1)	10.00				
K-W	0 / 8305	-18.5	-18.5	0.43 (1)	10.00				
W-J	0 / 8305	-18.5	-18.5	0.43 (1)	10.00				
J-X	0 / 8837	-18.5	-18.5	0.87 (1)	10.00				
X-Y	0 / 8837	-18.5	-18.5	0.87 (1)	10.00				
Y-Z	0 / 8837	-18.5	-18.5	0.87 (1)	10.00				
Z-I	0 / 8837	-18.5	-18.5	0.87 (1)	10.00				
I-AA	0 / 0	-18.5	-18.5	0.44 (1)	10.00				
AA-AB	0 / 0	-18.5	-18.5	0.44 (1)	10.00				
AB-H	0 / 0	-18.5	-18.5	0.44 (1)	10.00				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
P	1-8-4	-1571	-1571	---	BACK	VERT	TOTAL	C1
Q	3-8-4	-1571	-1571	---	BACK	VERT	TOTAL	C1
R	5-8-4	-1571	-1571	---	BACK	VERT	TOTAL	C1
S	7-8-4	-1571	-1571	---	BACK	VERT	TOTAL	C1

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	PSF
DL	25.0	PSF
BOT CH.	LL	PSF
DL	6.0	PSF
DL	0.0	PSF
DL	7.4	PSF
TOTAL LOAD	39.0	PSF

SPACING = 24.0 IN. GC

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, NBCG 2010, NBCG 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(68 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.89")
CALCULATED VERT. DEFL.(LL) = L/999 (0.12")
ALLOWABLE DEFL.(TL) = L/360 (0.89")
CALCULATED VERT. DEFL.(TL) = L/999 (0.22")

CSI: TC=0.54/1.00 (A-O:1), SC=0.87/1.00 (M-N:1), WB=0.88/1.00 (A-N:1), SS=0.93/1.00 (M-N: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.

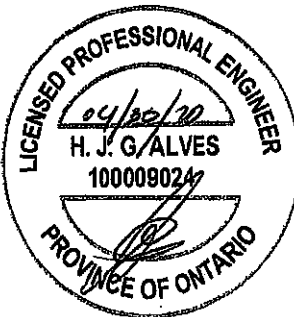
NAIL VALUES

PLATE GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)
MAX	MIN	MAX
MT20	616	354
	1687	788
	1987	1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (I) (INPUT = 0.90)
JSI METAL = 0.84 (N) (INPUT = 1.00)



Structural component only
DWG# T-2008017 1/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408315	T12	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 Mtek Industries, Inc. Thu Apr 30 09:31:48 2020 Page 2
ID:DMCubINVR6TsF0e31v8I zns11-1xSehORNX8vb4Jzx8iglUmbil1T1BpxXKcRSivZLaay

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMWV-p	MT20	6.0	12.0	1.50	Edge
B	TMWW-t	MT20	5.0	8.0		
C	TTWW+m	MT20	7.0	8.0		Edge
D	TMW-w	MT20	3.0	6.0		
E	TTWW+m	MT20	7.0	8.0		Edge
F	TMWW-t	MT20	5.0	6.0		
G	TMWV-p	MT20	6.0	12.0	1.50	Edge
H	BMV1-t	MT20	5.0	8.0		Edge 0.50
I	BMWW-t	MT20	7.0	8.0	4.25	2.00
J	BMWW-t	MT20	5.0	8.0	4.25	2.50
K	BMWWW-t	MT20	5.0	8.0		
L	BS-t	MT20	5.0	6.0		
M	BMWW-t	MT20	5.0	8.0	4.25	2.50
N	BMWW-t	MT20	7.0	8.0	4.25	2.00
O	BMV1-t	MT20	5.0	8.0		5.50

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

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
T	9-8-4	-1571	-1571	---	BACK	VERT	TOTAL	---	C1
U	11-0-12	-1571	-1571	---	BACK	VERT	TOTAL	---	C1
V	13-0-12	-1571	-1571	---	BACK	VERT	TOTAL	---	C1
W	15-0-12	-1571	-1571	---	BACK	VERT	TOTAL	---	C1
X	17-0-12	-1571	-1571	---	BACK	VERT	TOTAL	---	C1
Y	19-0-12	-1571	-1571	---	BACK	VERT	TOTAL	---	C1
Z	21-0-12	-1571	-1571	---	BACK	VERT	TOTAL	---	C1
AA	23-0-12	-1571	-1571	---	BACK	VERT	TOTAL	---	C1
AB	25-0-12	-1571	-1571	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

- 1) C1: A SUITABLE HANGER MECHANICAL CONNECTION IS REQUIRED.



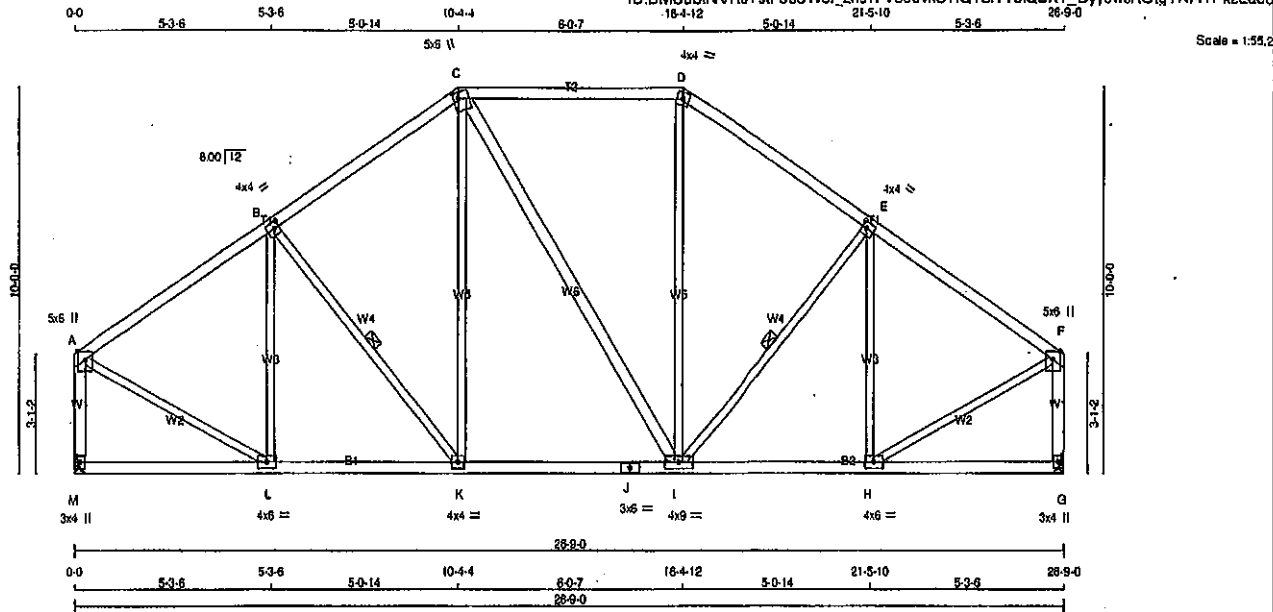
Structural component only
DWG# T-2008017 42

JOB NAME 408315	TRUSS NAME T13	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
--------------------	-------------------	---------------	----------	-------------------------------	----------

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MTek Industries, Inc. Thu Apr 30 09:31:49 2020 Page 1

ID:DMCubINVR8TstFos31v6l_zns11-V800vkS7IQ1SITY8QBx1_Dyy6wsAOtgYKA?FzLaseu



TOTAL WEIGHT = 132 lb

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

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW+p	MT20	5.0	8.0	Edge	
B	TMWW-l	MT20	4.0	4.0	2.00	1.50
C	TTWW+m	MT20	5.0	8.0	2.00	1.50
D	TTW-m	MT20	4.0	4.0		
E	TMWW-l	MT20	4.0	4.0	2.00	1.50
F	TMVW+p	MT20	5.0	8.0	Edge	
G	BMVl+p	MT20	3.0	4.0		
H	BMWW-l	MT20	4.0	8.0		
I	BMWWW-l	MT20	4.0	9.0		
J	BS-l	MT20	3.0	8.0		
K	BMWW-l	MT20	4.0	4.0		
L	BMWW-l	MT20	4.0	8.0		
M	BMVl+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	REQRD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
M	1475	0	1475	0
G	1475	0	1475	0

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT M. G. MINIMUM BEARING LENGTH AT JOINT M = 3'-8", JOINT G = 3'-8".

UNFACTORED REACTIONS

JT	1ST CASE	MAX/MIN	COMPONENT REACTIONS
	COMBINED	SNOW	LIVE
M	1043	884 / 0	0 / 0
G	1043	884 / 0	0 / 0

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.39 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 B-K, E-I.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)
FR-TO				FR-TO			
A-B	-1227 / 0	-91.8	91.8 0.34 (1)	5.39	L-B	-445 / 0	0.32 (1)
B-C	-1198 / 0	-91.8	91.8 0.34 (1)	5.44	B-K	-124 / 0	0.06 (1)
C-D	-971 / 0	-91.8	91.8 0.44 (1)	5.70	K-C	0 / 197	0.05 (4)
D-E	-1199 / 0	-91.8	91.8 0.34 (1)	5.44	C-I	0 / 0	0.00 (1)
E-F	-1227 / 0	-91.8	91.8 0.34 (1)	5.39	I-D	0 / 198	0.05 (4)
M-A	-1434 / 0	0.0	0.0 0.24 (1)	6.82	I-E	-124 / 0	0.06 (1)
G-F	-1434 / 0	0.0	0.0 0.24 (1)	6.82	H-E	-445 / 0	0.32 (1)
					A-L	0 / 1183	0.27 (1)
M-L	0 / 0	-18.5	-18.5 0.12 (4)	10.00	H-F	0 / 1183	0.27 (1)
L-K	0 / 1047	-18.5	-18.5 0.23 (1)	10.00			
K-J	0 / 971	-18.5	-18.5 0.22 (1)	10.00			
J-I	0 / 971	-18.5	-18.5 0.22 (1)	10.00			
I-H	0 / 1047	-18.5	-18.5 0.23 (1)	10.00			
H-G	0 / 0	-18.5	-18.5 0.11 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.6 PSF
	DL = 6.0 PSF
BOT CH.	LL = 0.0 PSF
	DL = 7.4 PSF
TOTAL LOAD	= 39.0 PSF

SPACING = 24.0 IN./C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2010, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-08, CSA 088-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.89")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.04")
ALLOWABLE DEFL.(TL) = $L/360$ (0.89")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.08")

CS: TC=0.44/1.00 (C-D:1), BC=0.23/1.00 (H-I:1), WB=0.32/1.00 (E-H:1), SS=0.22/1.00 (C-D:1)

DOL LUMBER=1.00 NAIL=1.00 L.S BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10
COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (A) (INPUT = 0.80)
JSI METAL= 0.50 (A) (INPUT = 1.00)

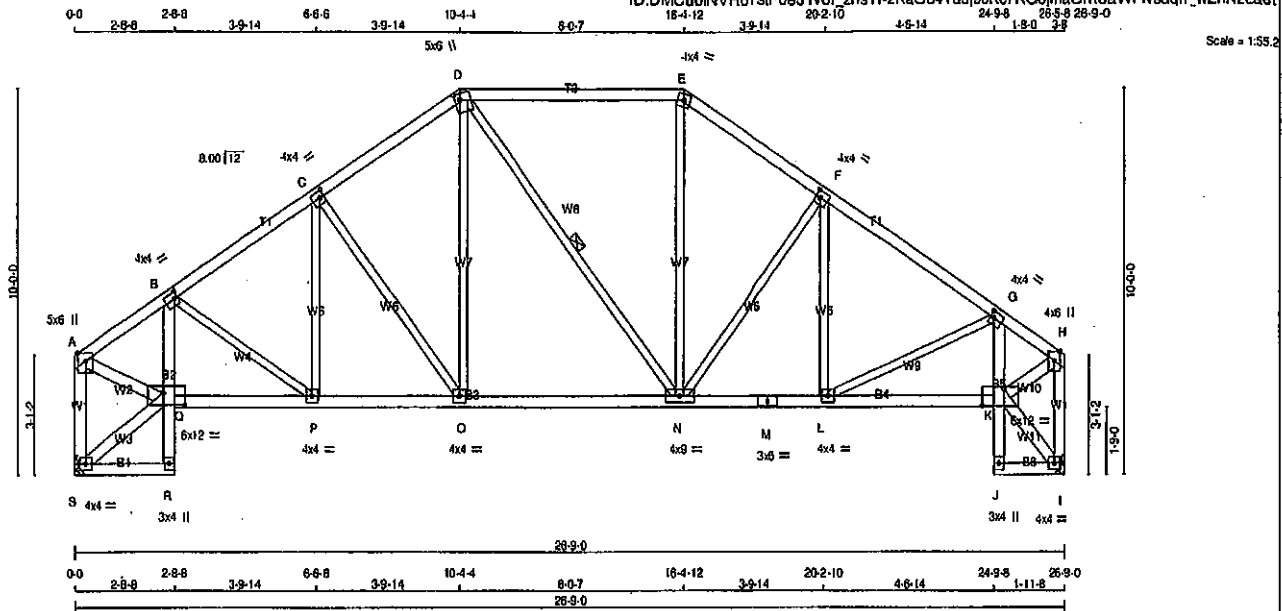


Structural component only
DWG# T-2008018

JOB NAME 408315	TRUSS NAME T14S	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
--------------------	--------------------	---------------	----------	-------------------------------	----------

Tamareck Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mtek Industries, Inc. Thu Apr 30 09:31:50 2020 Page 1
ID:DMCubINVR6TslFoe31v61_zns11-zKa064Td39JkC7KGBjmaBm6aWFlvsdqn_wZnNzLaet



TOTAL WEIGHT = 138 lb (M/F)

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 - H	2x4 DRY	No.2	SPF
S - A	2x4 DRY	No.2	SPF
I - H	2x4 DRY	No.2	SPF
S - R	2x4 DRY	No.2	SPF
R - B	2x4 DRY	No.2	SPF
Q - M	2x4 DRY	No.2	SPF
M - K	2x4 DRY	No.2	SPF
J - G	2x4 DRY	No.2	SPF
J - I	2x4 DRY	No.2	SPF
ALL WEBS	2x3 DRY	No.2	SPF
EXCEPT			
S - Q	2x4 DRY	No.2	SPF
A - Q	2x4 DRY	No.2	SPF
K - I	2x4 DRY	No.2	SPF
K - H	2x4 DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (tables in inches)

JT TYPE	PLATES	W	LEN	Y	X
A - TMVW-p	MT20	5.0	6.0	Edge	
B - TMVW-l	MT20	4.0	4.0	2.00	1.00
C - TMVW-l	MT20	4.0	4.0	2.00	1.50
D - TTWW-m	MT20	5.0	6.0	2.00	1.50
E - TTW-m	MT20	4.0	4.0		
F - TMVW-l	MT20	4.0	4.0	2.00	1.50
G - TMVW-l	MT20	4.0	4.0	2.00	1.00
H - TMVW-p	MT20	4.0	6.0	Edge	
I - BMVW-l	MT20	4.0	4.0		
J - BMV-p	MT20	3.0	4.0		
K - BMVW-l	MT20	6.0	12.0	5.25	7.25
L, O, P					
L - BMVW-l	MT20	4.0	4.0		
M - BS-l	MT20	3.0	6.0		
N - BMVW-l	MT20	4.0	9.0		
Q - BMVW-l	MT20	6.0	12.0	3.75	7.00
R - BMV-p	MT20	3.0	4.0		
S - BMVW-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 GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORIZ	DOWN	HORIZ		
S	1475	0	1475	0	0	MECHANICAL
I	1475	0	1475	0	0	MECHANICAL

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
S	1043	684 / 0	0 / 0	0 / 0	0 / 0	0 / 0	358 / 0	0 / 0
I	1043	684 / 0	0 / 0	0 / 0	0 / 0	0 / 0	358 / 0	0 / 0

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.94 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF D-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)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	MAX. FACTORED CSI (LC)
FR-TO				FR-TO			
A-B	-1511 / 0	-91.8	-91.8 0.11 (1)	B-P	0 / 124	0.03 (1)	
B-C	-1853 / 0	-91.8	-91.8 0.19 (1)	P-C	0 / 55	0.02 (4)	
C-D	-1440 / 0	-91.8	-91.8 0.18 (1)	C-O	-345 / 0	0.28 (1)	
D-E	-1184 / 0	-91.8	-91.8 0.45 (1)	O-D	0 / 375	0.08 (1)	
E-F	-1445 / 0	-91.8	-91.8 0.21 (1)	D-N	0 / 0	0.00 (1)	
F-G	-1884 / 0	-91.8	-91.8 0.22 (1)	N-E	0 / 383	0.09 (1)	
G-H	-1355 / 0	-91.8	-91.8 0.14 (1)	E-F	-357 / 0	0.29 (1)	
S-A	-1442 / 0	0.0	0.0 0.24 (1)	L-F	-24 / 54	0.02 (4)	
I-H	-1444 / 0	0.0	0.0 0.24 (1)	L-G	0 / 244	0.05 (1)	
S-R	0 / 13	-18.5	-18.5 0.04 (4)	S-Q	-16 / 0	0.00 (1)	
R-Q	0 / 27	0.0	0.0 0.03 (1)	A-Q	0 / 1370	0.22 (1)	
Q-B	-460 / 0	0.0	0.0 0.03 (1)	K-I	-20 / 0	0.00 (1)	
Q-P	0 / 1280	-18.5	-18.5 0.25 (1)	K-H	0 / 1330	0.21 (1)	
P-O	0 / 1383	-18.5	-18.5 0.28 (1)				
O-N	0 / 1184	-18.5	-18.5 0.25 (1)				
N-M	0 / 1390	-18.5	-18.5 0.28 (1)				
M-L	0 / 1390	-18.5	-18.5 0.28 (1)				
L-K	0 / 1169	-18.5	-18.5 0.24 (1)				
J-K	0 / 19	0.0	0.0 0.04 (1)				
K-G	-613 / 0	0.0	0.0 0.03 (1)				
J-I	0 / 15	-18.5	-18.5 0.02 (4)				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	= 25.6	PSF
DL	= 6.0	PSF
BOT CH. LL	= 0.0	PSF
DL	= 7.4	PSF
TOTAL LOAD	= 39.0	PSF

SPACING = 24.0 IN./C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2010, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.89")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL) = L/360 (0.89")
CALCULATED VERT. DEFL.(TL) = L/999 (0.10")

CSI: TC=0.45/1.00 (D-E:1), BC=0.28/1.00 (L-N:1),
W8=0.29/1.00 (F-H:1), GS=0.22/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.260 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.89 (3) (INPUT = 0.90)
JSI METAL=0.64 (1) (INPUT = 1.00)

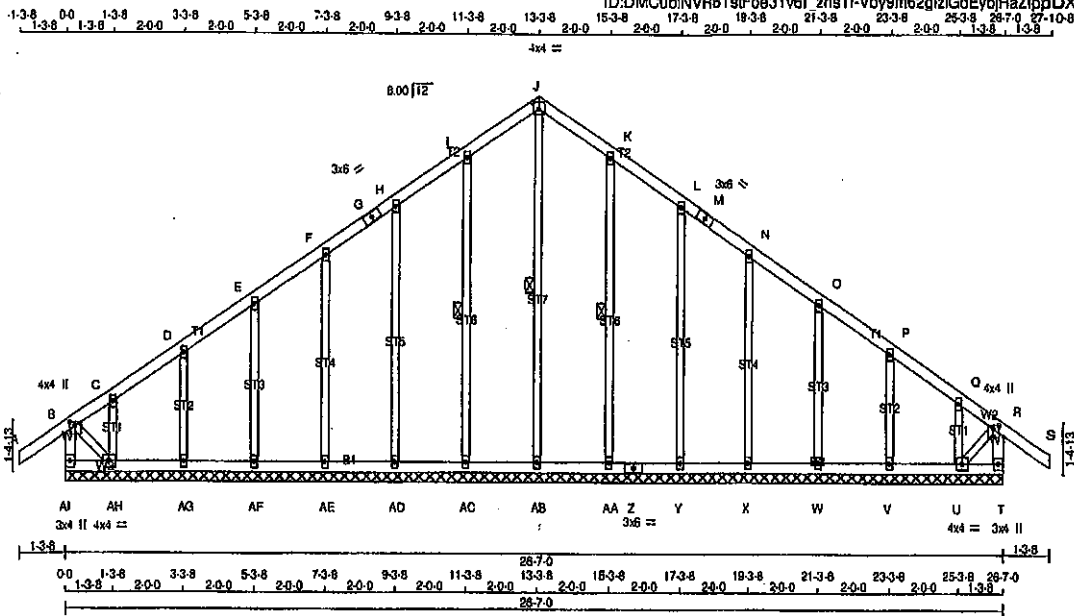


Structural component only
DWG# T-2008019

JOB NAME 408315	TRUSS NAME G15	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
--------------------	-------------------	---------------	----------	-------------------------------	-------------	----------

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MText Industries, Inc. Thu Apr 30 09:31:15 2020 Page 1



TOTAL WEIGHT = 132 lb (M)

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - G	2x4	DRY	No.2	SPF
G - J	2x4	DRY	No.2	SPF
J - M	2x4	DRY	No.2	SPF
M - S	2x4	DRY	No.2	SPF
AI - B	2x4	DRY	No.2	SPF
T - R	2x4	DRY	No.2	SPF
AI - Z	2x4	DRY	No.2	SPF
Z - T	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" OC.

PLATES (table in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW+p	MT20	4.0	4.0	1.25	2.00
C, D, E, F, H, I, K, L, M, O, P, Q					
C TMVW+w	MT20	2.0	4.0		
G TS-t	MT20	3.0	8.0		
J TTW+p	MT20	4.0	4.0	2.25	2.00
M TS-t	MT20	3.0	8.0		
R TMVW+p	MT20	4.0	4.0	1.25	2.00
Y BMVt+p	MT20	3.0	4.0		
U BMWWt-t	MT20	4.0	4.0		
V, W, X, Y, AA, AB, AC, AD, AE, AF, AG					
V BMWt+w	MT20	2.0	4.0		
Z BS-t	MT20	3.0	8.0		
AH BMWWt-t	MT20	4.0	4.0		
AI BMVt+p	MT20	3.0	4.0		

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

BEARINGS

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

BRACING

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

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF J-AB, I-AC, K-AA.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB.	FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	MAX. FACTORED (LBS)
FR-TO				FR-TO			
A-B	0/35	-91.8	-91.8 0.12 (1)	10.00	AB-J	-139/0	0.10 (1)
B-C	-70/0	-91.8	-91.8 0.12 (1)	6.25	AC-I	-208/0	0.11 (1)
C-D	-24/0	-91.8	-91.8 0.05 (1)	6.25	AD-H	-177/0	0.19 (1)
D-E	-27/0	-91.8	-91.8 0.05 (1)	6.25	AE-F	-183/0	0.11 (1)
E-F	-21/0	-91.8	-91.8 0.04 (1)	6.25	AF-E	-178/0	0.06 (1)
F-G	-19/0	-91.8	-91.8 0.04 (1)	6.25	AG-D	-195/0	0.04 (1)
G-H	-19/0	-91.8	-91.8 0.04 (1)	6.25	AH-C	-70/0	0.01 (1)
H-I	-14/0	-91.8	-91.8 0.05 (1)	6.25	AA-K	-208/0	0.11 (1)
I-J	-24/0	-91.8	-91.8 0.05 (1)	6.25	Y-L	-177/0	0.19 (1)
J-K	-24/0	-91.8	-91.8 0.05 (1)	6.25	X-N	-183/0	0.11 (1)
K-L	-14/0	-91.8	-91.8 0.05 (1)	6.25	W-O	-178/0	0.06 (1)
L-M	-19/0	-91.8	-91.8 0.04 (1)	6.25	V-P	-195/0	0.04 (1)
M-N	-19/0	-91.8	-91.8 0.04 (1)	6.25	U-Q	-70/0	0.01 (1)
N-O	-21/0	-91.8	-91.8 0.04 (1)	6.25	BAH	0/38	0.01 (1)
O-P	-27/0	-91.8	-91.8 0.05 (1)	6.25	U-R	0/38	0.01 (1)
P-Q	-24/0	-91.8	-91.8 0.05 (1)	6.25			
Q-R	-70/0	-91.8	-91.8 0.12 (1)	6.25			
R-S	0/35	-91.8	-91.8 0.12 (1)	10.00			
AF-B	-288/0	0.0	0.0 0.03 (1)	7.81			
T-R	-288/0	0.0	0.0 0.03 (1)	7.81			

AI-AH	0/0	-18.5	-18.5 0.01 (4)	10.00
AH-AG	0/28	-18.5	-18.5 0.02 (4)	10.00
AG-AF	0/21	-18.5	-18.5 0.02 (4)	10.00
AF-AE	0/18	-18.5	-18.5 0.02 (4)	10.00
AE-AD	0/15	-18.5	-18.5 0.02 (4)	10.00
AD-AC	0/13	-18.5	-18.5 0.02 (4)	10.00
AC-AB	0/11	-18.5	-18.5 0.01 (4)	10.00
AB-AA	0/11	-18.5	-18.5 0.01 (4)	10.00
AA-Z	0/13	-18.5	-18.5 0.02 (4)	10.00
Z-Y	0/13	-18.5	-18.5 0.02 (4)	10.00
Y-X	0/15	-18.5	-18.5 0.02 (4)	10.00
X-W	0/18	-18.5	-18.5 0.02 (4)	10.00
W-V	0/21	-18.5	-18.5 0.02 (4)	10.00
V-U	0/26	-18.5	-18.5 0.02 (4)	10.00
U-T	0/0	-18.5	-18.5 0.01 (4)	10.00

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF
DL = 8.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 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, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.12/1.00 (A-B:1), BC=0.02/1.00 (AG-AH:4), WB=0.19/1.00 (L-Y:1), SS1=0.08/1.00 (A-B: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 1887 788 1887 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.49 (U) (INPUT = 0.90)
JSI METAL= 0.11 (K) (INPUT = 1.00)

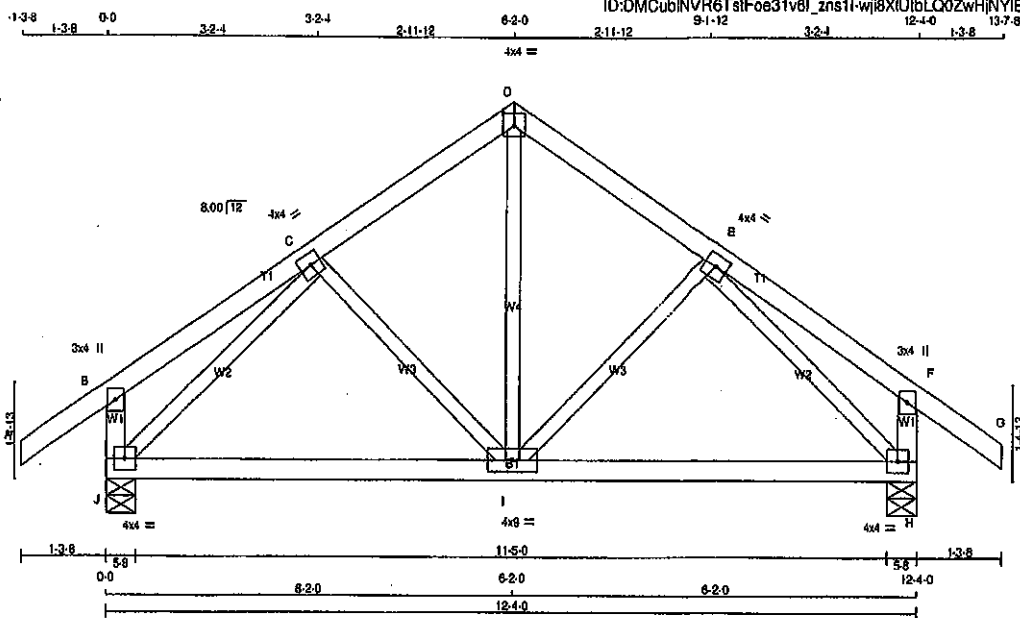


Structural component only
DWG# T-2007993

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408315	T16	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Version 9.310 S Oct 29 2018 MTek Industries, Inc. Thu Apr 30 09:31:52 2020 Page 1

ID:DMCubINVR6TstFos31v6I_zns11-wj8XUibLQ0ZwhINyIEIcrX1JyQNN77FIPisGzLa8e



Scale = 1:31.0

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

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG
J	806	0	806	0	5-8
H	806	0	806	0	5-8

UNFACTORED REACTIONS

JT	1ST LOASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
J	568	366 / 0	0 / 0	0 / 0	0 / 0	182 / 0	0 / 0	0 / 0
H	568	366 / 0	0 / 0	0 / 0	0 / 0	182 / 0	0 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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)	MEMB.	MAX. FACTORED FORCE (LBS)
A-B	0 / 35	I-D	0 / 337
B-C	0 / 17	I-E	-139 / 0
C-D	-521 / 0	C-I	-139 / 0
D-E	-521 / 0	J-C	-737 / 0
E-F	0 / 17	E-H	-737 / 0
F-G	0 / 35		
J-B	-236 / 0		
H-F	-236 / 0		
J-I	0 / 517		
I-H	0 / 517		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.8 PSF
DL = 8.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 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 CBC 2018, CBC 2012, ABC 2019
- PART 8 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPI 2011, TPI 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $\frac{1}{360}$ (0.41")
CALCULATED VERT. DEFL.(LL) = $\frac{1}{999}$ (0.01")
ALLOWABLE DEFL.(TL) = $\frac{1}{360}$ (0.41")
CALCULATED VERT. DEFL.(TL) = $\frac{1}{999}$ (0.04")

CSI: TC=0.13/1.00 (B-C:I), BC=0.24/1.00 (H-I:4),
WB=0.23/1.00 (C-J:I), SS=0.11/1.00 (C-D:I)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1857 785 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.66 (E) (INPUT = 0.90)
JSI METAL = 0.28 (E) (INPUT = 1.00)

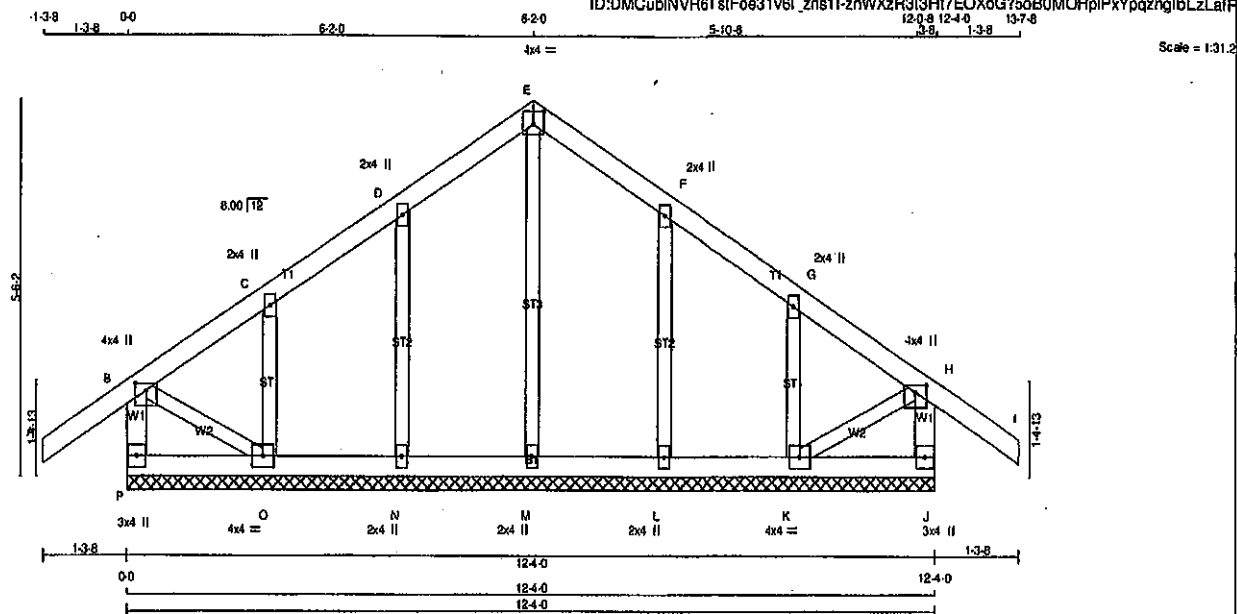


Structural component only
DWG# T-2008020

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408315	G16	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.310 5 Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 09:31:16 2020 Page 1
ID:DMCubINVR6TstFoe31v6l_znst11-znWxzR3i3H7EOXoG75oBOMOHpiPxYpqzghlbLzLaIf



TOTAL WEIGHT = 54 lb
(M)

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

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (tables in inches)				
JT TYPE	PLATES	W	LEN	Y X
B TMW+p	MT20	4.0	4.0	1.25 2.00
C, D, F, G				
C TMW+w	MT20	2.0	4.0	
E TTW+p	MT20	4.0	4.0	2.25 2.00
H TMW+p	MT20	4.0	4.0	1.25 2.00
J BMVt+p	MT20	3.0	4.0	
K BMWw+1	MT20	4.0	4.0	
L, M, N				
L BMWt+w	MT20	2.0	4.0	
O BMWw+1	MT20	4.0	4.0	
P BMVt+p	MT20	3.0	4.0	

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	CS (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS (LC)
FR-TO		FROM TO			FR-TO		
P-B	-232 / 0	0.0	0.0 0.02 (1)	7.81	M-E	-137 / 0	0.06 (1)
A-B	0 / 35	-91.8	-91.8 0.12 (1)	10.00	N-D	-202 / 0	0.05 (1)
B-C	-19 / 0	-91.8	-91.8 0.05 (1)	6.25	O-C	-202 / 0	0.03 (1)
C-D	-22 / 0	-91.8	-91.8 0.05 (1)	6.25	L-F	-202 / 0	0.05 (1)
D-E	-27 / 0	-91.8	-91.8 0.05 (1)	6.25	K-G	-202 / 0	0.03 (1)
E-F	-27 / 0	-91.8	-91.8 0.05 (1)	6.25	B-O	0 / 28	0.01 (1)
F-G	-22 / 0	-91.8	-91.8 0.05 (1)	6.25	K-H	0 / 28	0.01 (1)
G-H	-19 / 0	-91.8	-91.8 0.05 (1)	6.25			
H-I	0 / 35	-91.8	-91.8 0.12 (1)	10.00			
J-H	-232 / 0	0.0	0.0 0.02 (1)	7.81			
P-O	0 / 0	-18.5	-18.5 0.02 (4)	10.00			
O-N	0 / 18	-18.5	-18.5 0.02 (4)	10.00			
N-M	0 / 14	-18.5	-18.5 0.02 (4)	10.00			
M-L	0 / 14	-18.5	-18.5 0.02 (4)	10.00			
L-K	0 / 18	-18.5	-18.5 0.02 (4)	10.00			
K-J	0 / 0	-18.5	-18.5 0.02 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	25.6	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD	=	39.0	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 BCBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-08, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.12/1.00 (H-I:1), BC=0.02/1.00 (K-L:4), WB=0.08/1.00 (E-M:1), SSI=0.08/1.00 (H-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
	MAX	MIN	MAX MIN MAX MIN
MT20	618	354	1067 788 1067 1656

PLATE PLACEMENT TOL. = 0.250 inches

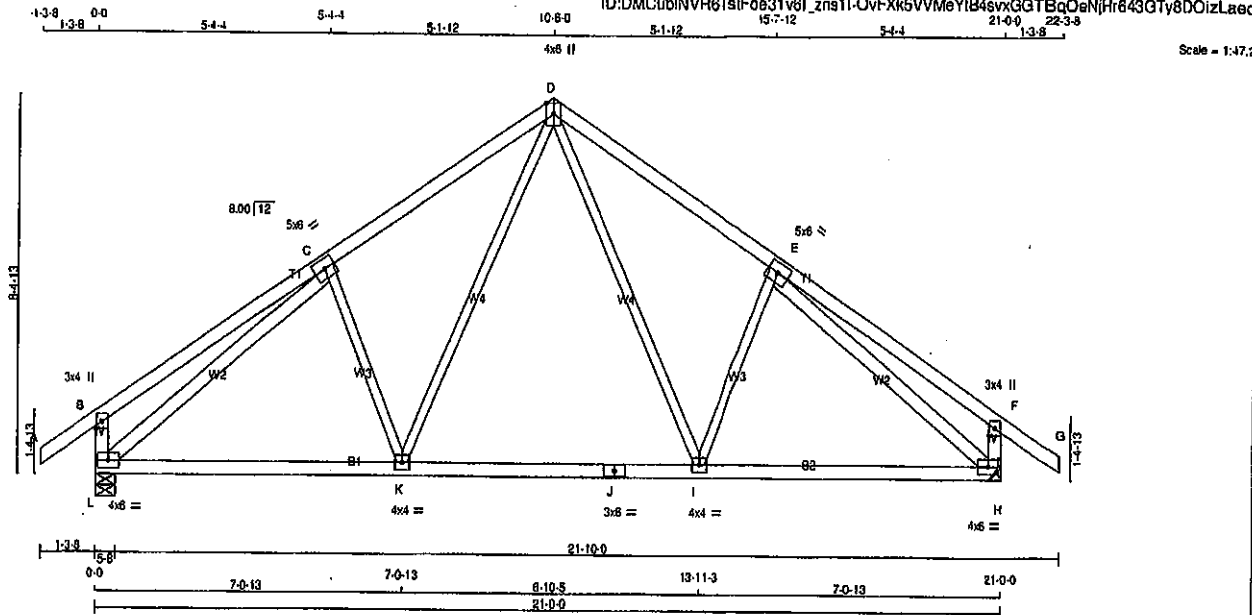
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (B) (INPUT = 0.90)
JSI METAL= 0.10 (C) (INPUT = 1.00)



Structural component only
DWG# T-2007994

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408315	T17	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	



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

DRY: SEASONED LUMBER.

PLATES (Tables in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TMWW-i	MT20	5.0	6.0		
D	TTWW+p	MT20	4.0	6.0		Edge
E	TMWW-i	MT20	5.0	6.0		
F	TMV+p	MT20	3.0	4.0		
H	BMVW-i	MT20	4.0	6.0		
I	BMVW-i	MT20	4.0	4.0		
J	BS-i	MT20	3.0	6.0		
K	BMVW-i	MT20	4.0	4.0		
L	BMVW-i	MT20	4.0	6.0		

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

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
JT	1284	0	1284	0	5-8
H	1284	0	1284	0	MECHANICAL

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	LIVE	PERM. LIVE	WIND	DEAD	SOIL
L	905	608/0	0/0	0/0	0/0	298/0	0/0
H	905	608/0	0/0	0/0	0/0	298/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.52 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD LC1 (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO				FR-TO			
A-B	0/35	-91.8	-91.8 0.12 (1)	10.00	D-I	0/475	0.11 (1)
B-C	0/32	-91.8	-91.8 0.42 (1)	10.00	I-E	-321/0	0.13 (1)
C-D	-1155/0	-91.8	-91.8 0.34 (1)	5.52	K-D	0/475	0.11 (1)
D-E	-1155/0	-91.8	-91.8 0.34 (1)	5.52	C-K	-321/0	0.13 (1)
E-F	0/32	-91.8	-91.8 0.42 (1)	10.00	L-C	-1403/0	0.89 (1)
F-G	0/35	-91.8	-91.8 0.12 (1)	10.00	E-H	-1403/0	0.89 (1)
L-B	-307/0	0.0	0.0 0.03 (1)	7.81			
H-F	-307/0	0.0	0.0 0.03 (1)	7.81			
L-K	0/1056	-18.5	-18.5 0.29 (4)	10.00			
K-J	0/749	-18.5	-18.5 0.27 (4)	10.00			
J-I	0/749	-18.5	-18.5 0.27 (4)	10.00			
I-H	0/1056	-18.5	-18.5 0.29 (4)	10.00			

TOTAL WEIGHT = 2 X 95 = 191 lb

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. CG

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, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.70")
CALCULATED VERT. DEFL.(LL) = L/998 (0.04")
ALLOWABLE DEFL.(TL) = L/360 (0.70")
CALCULATED VERT. DEFL.(TL) = L/999 (0.08")

CSI: TC=0.42/1.00 (B-C:1), BC=0.29/1.00 (K-L:4), WB=0.89/1.00 (C-L:1), SSI=0.19/1.00 (C-D: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

AUTOSOLVE HEELS OFF

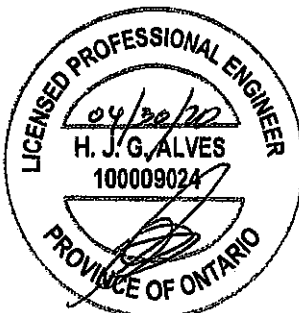
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 788 1987 1688

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.70 (E) (INPUT = 0.80)
JSI METAL=0.38 (E) (INPUT = 1.00)



Structural component only
DWG# T-2008021

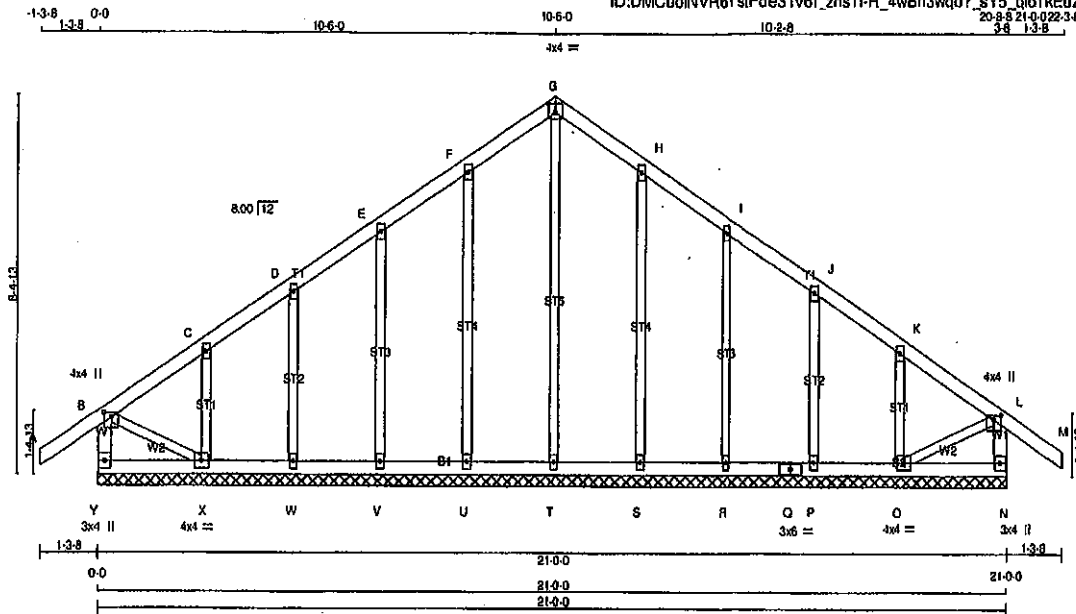
JOB NAME 408315	TRUSS NAME G17	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	ORWG NO.
Tamarack Roof Truss, Budington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 09:31:17 2020 Page 1

ID:DMCubINVR6TstFoe31v6l_zns11-R_4w8n3wqb7_sY5_qid1kEuZ1D2Yqz7zCLQJ7ozLafo

20-8-8 21-0-22-3-8

Scale = 1:47.2



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	DESCR.
Y - B	2x4	DRY	No.2
A - G	2x4	DRY	No.2
G - M	2x4	DRY	No.2
N - L	2x4	DRY	No.2
Y - Q	2x4	DRY	No.2
Q - N	2x4	DRY	No.2

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

GABLE STUDS SPACED AT 2'-0" OC.

PLATES (table in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMW+P	MT20	4.0	4.0 1.25 2.00
C, D, E, F, H, I, J, K				
C	TMW+P	MT20	2.0	4.0
G	TTW+P	MT20	4.0	4.0 2.25 2.00
L	TMW+P	MT20	4.0	4.0 1.25 2.00
N	BMV+P	MT20	3.0	4.0
O	BMW+P	MT20	4.0	4.0
P, R, S, T, U, V, W				
P	BMW+P	MT20	2.0	4.0
Q	BS-1	MT20	3.0	8.0
X	BMW+P	MT20	4.0	4.0
Y	BMV+P	MT20	3.0	4.0

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

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD LG1 (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
Y-B	-250 / 0	0.0	0.0 0.03 (1)	7.81	T-G	-133 / 0	0.18 (1)
A-B	0 / 35	-91.8	-91.8 0.12 (1)	10.00	U-F	-208 / 0	0.18 (1)
B-C	-26 / 0	-91.8	-91.8 0.07 (1)	8.25	V-E	-180 / 0	0.09 (1)
C-D	-38 / 0	-91.8	-91.8 0.07 (1)	8.25	W-D	-187 / 0	0.05 (1)
D-E	-24 / 0	-91.8	-91.8 0.04 (1)	8.25	X-C	-231 / 0	0.04 (1)
E-F	-20 / 0	-91.8	-91.8 0.05 (1)	8.25	S-H	-208 / 0	0.18 (1)
F-G	-29 / 0	-91.8	-91.8 0.05 (1)	8.25	R-I	-189 / 0	0.09 (1)
G-H	-29 / 0	-91.8	-91.8 0.05 (1)	8.25	P-J	-187 / 0	0.05 (1)
H-I	-20 / 0	-91.8	-91.8 0.05 (1)	8.25	C-K	-231 / 0	0.04 (1)
I-J	-24 / 0	-91.8	-91.8 0.04 (1)	8.25	B-X	0 / 34	0.01 (1)
J-K	-38 / 0	-91.8	-91.8 0.07 (1)	8.25	O-L	0 / 34	0.01 (1)
K-L	-26 / 0	-91.8	-91.8 0.07 (1)	8.25			
L-M	0 / 35	-91.8	-91.8 0.12 (1)	10.00			
N-L	-250 / 0	0.0	0.0 0.03 (1)	7.81			
Y-X	0 / 0	-18.5	-18.5 0.03 (4)	10.00			
X-W	0 / 24	-18.5	-18.5 0.03 (4)	10.00			
W-V	0 / 21	-18.5	-18.5 0.02 (4)	10.00			
V-U	0 / 18	-18.5	-18.5 0.02 (4)	10.00			
U-T	0 / 16	-18.5	-18.5 0.02 (4)	10.00			
T-S	0 / 18	-18.5	-18.5 0.02 (4)	10.00			
S-R	0 / 18	-18.5	-18.5 0.02 (4)	10.00			
R-Q	0 / 21	-18.5	-18.5 0.02 (4)	10.00			
Q-P	0 / 21	-18.5	-18.5 0.02 (4)	10.00			
P-O	0 / 24	-18.5	-18.5 0.03 (4)	10.00			
O-N	0 / 0	-18.5	-18.5 0.03 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 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 NBC 2010, NBC 2012, ABC 2019
- PART 9 OF NBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(5% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.12/1.00 (LM:1), 8C=0.03/1.00 (W-X:4), WB=0.18/1.00 (G-T:1), SSI=0.09/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.59 (X) (INPUT = 0.90)
JSI METAL= 0.12 (K) (INPUT = 1.00)

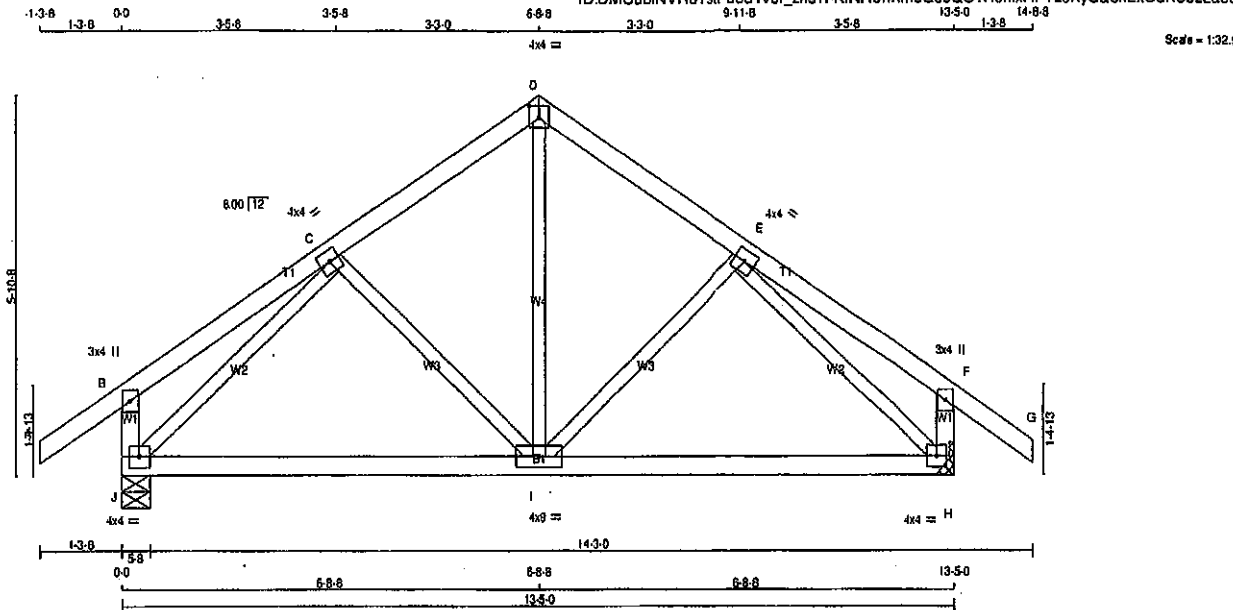


Structural component only
DWG# T-2007995

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408315	T18	3	1	GREEN PARK HOMES	
				TRUSS DESC.	

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 09:31:55 2020 Page 1
ID:DMCubINVR8TsF0e31v6I_zns11-KINH9nXmuGobQO7H3hxtHFT2sXySa6xZxGdKSbzLa0



Scale = 1:32.9

TOTAL WEIGHT = 3 X 58 = 176 lb

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

PLATES (table in inches)	W	LEN	Y	X
JT TYPE PLATES				
B TMV+p MT20	3.0	4.0		
C TMWW-1 MT20	4.0	4.0		
D TTW-p MT20	4.0	4.0	2.25	2.00
E TMWW-1 MT20	4.0	4.0		
F TMV+p MT20	3.0	4.0		
H BMWW-1 MT20	4.0	4.0		
I BMWW-1 MT20	4.0	4.0		
J BMWW-1 MT20	4.0	4.0		

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	UPLIFT
J	868	0	868	0
H	868	0	868	0

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT H. MINIMUM BEARING LENGTH AT JOINT H = 3'-6".

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN COMPONENT REACTIONS
JT COMBINED	SNOW LIVE PERM.LIVE WIND DEAD SOIL
J	610 413 / 0 0 / 0 0 / 0 198 / 0 0 / 0
H	610 413 / 0 0 / 0 0 / 0 198 / 0 0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MAX.	MEMB.	MAX. FACTORED
MEMB.	FORCE	VERT. LOAD	LC1	MAX	MAX.	MEMB.	FORCE	MAX
FR-TO	(LBS)	(PLF)	CSI (LC)	UNBRAC	LENGTH	FR-TO	(LBS)	CSI (LC)
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00	I-D	0 / 379	0.09 (1)
B-C	0 / 19	-91.8	-91.8	0.18 (1)	10.00	I-E	-161 / 0	0.08 (1)
C-D	-577 / 0	-91.8	-91.8	0.12 (1)	8.25	C-I	-161 / 0	0.08 (1)
D-E	-577 / 0	-91.8	-91.8	0.12 (1)	8.25	J-C	-815 / 0	0.29 (1)
E-F	0 / 19	-91.8	-91.8	0.18 (1)	10.00	E-H	-815 / 0	0.29 (1)
F-G	0 / 35	-91.8	-91.8	0.12 (1)	10.00			
J-B	-245 / 0	0.0	0.0	0.08 (1)	7.81			
H-F	-245 / 0	0.0	0.0	0.08 (1)	7.81			
J-I	0 / 579	-18.5	-18.5	0.28 (4)	10.00			
I-H	0 / 579	-18.5	-18.5	0.28 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 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 2018, NBC 2012, ABC 2019
- PART 9 OF NBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.45")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.45")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.16/1.00 (B-C:1), BC=0.28/1.00 (H-I:4),
WB=0.29/1.00 (C-J:1), SS=0.12/1.00 (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 616 354 1897 768 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

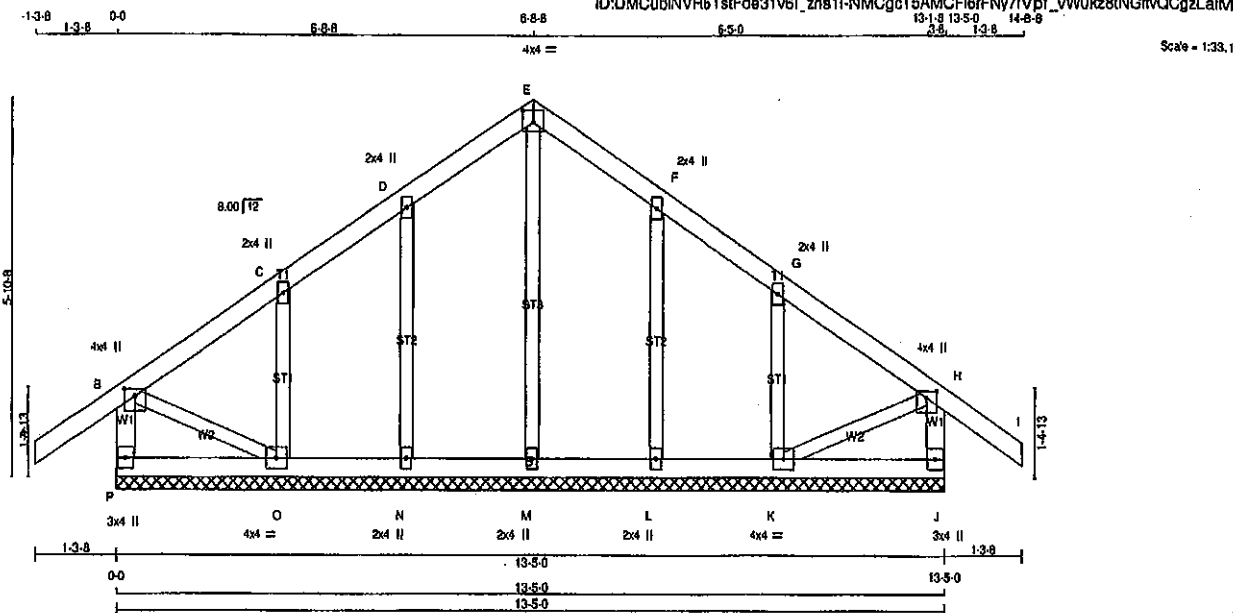
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.71 (E) (INPUT = 0.90)
JSI METAL= 0.28 (C) (INPUT = 1.00)



Structural component only
DWG# T-2008022

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408315	G18	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		Version 8.310 S Oct 29 2019 MTek Industries, Inc. Thu Apr 30 09:31:19 2020 Page 1		ID:DMCubINVR6TstFoa31v61_zns11-NMCGcTSAMCF8rFNy7Vpf_vW0kz8NGftvQCgzLafM	
		13-8 13-5-0 14-8-8		13-8 13-5-0 14-8-8	



TOTAL WEIGHT = 59 lb (M)

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

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

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table is in inches)	PLATES	W	LEN	Y	X
B, D, F, G	MT20	4.0	4.0	1.25	2.00
C	MT20	2.0	4.0		
E	MT20	4.0	4.0	2.25	2.00
H	MT20	4.0	4.0	1.25	2.00
J	MT20	3.0	4.0		
K	MT20	4.0	4.0		
L, M, N	MT20	2.0	4.0		
O	MT20	4.0	4.0		
P	MT20	3.0	4.0		

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

BEARINGS

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

BRACING

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	LC1 MAX. UNBRACED LENGTH (LC)	
P-B	-252 / 0	0.0	0.0 0.03 (1)	7.81	M-E	-138 / 0	0.07 (1)
A-B	0 / 35	-91.8	-91.8 0.12 (1)	10.00	N-D	-189 / 0	0.06 (1)
B-C	-19 / 0	-91.8	-91.8 0.08 (1)	8.25	O-C	-241 / 0	0.05 (1)
C-D	-29 / 0	-91.8	-91.8 0.08 (1)	6.25	L-F	-189 / 0	0.06 (1)
D-E	-27 / 0	-91.8	-91.8 0.05 (1)	6.25	K-G	-241 / 0	0.05 (1)
E-F	-27 / 0	-91.8	-91.8 0.05 (1)	6.25	B-O	0 / 28	0.01 (1)
F-G	-29 / 0	-91.8	-91.8 0.08 (1)	6.25	K-H	0 / 28	0.01 (1)
G-H	-19 / 0	-91.8	-91.8 0.08 (1)	8.25			
H-I	0 / 35	-91.8	-91.8 0.12 (1)	10.00			
J-H	-252 / 0	0.0	0.0 0.03 (1)	7.81			
P-O	0 / 0	-18.5	-18.5 0.03 (4)	10.00			
O-N	0 / 19	-18.5	-18.5 0.03 (4)	10.00			
N-M	0 / 15	-18.5	-18.5 0.02 (4)	10.00			
M-L	0 / 15	-18.5	-18.5 0.02 (4)	10.00			
L-K	0 / 19	-18.5	-18.5 0.03 (4)	10.00			
K-J	0 / 0	-18.5	-18.5 0.03 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	25.6	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD		=	39.0	PSF

SPACING = 24.0 IN. GC

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCG 2010, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.12/1.00 (H:1), BC=0.03/1.00 (N-C:1), WB=0.07/1.00 (E-M:1), SSI=0.03/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (H) (INPUT = 0.90)
JSI METAL= 0.12 (G) (INPUT = 1.00)

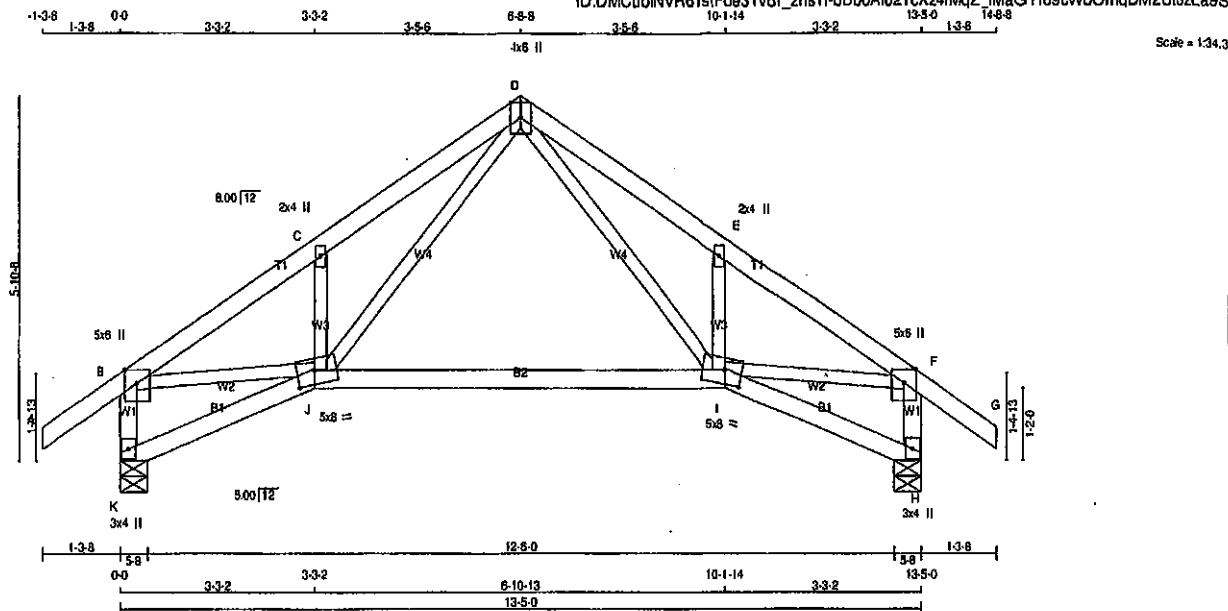


Structural component only
DWG# T-2007996

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408316	T18S	2	1	GREEN PARK HOMES	
				TRUSS DESC.	

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Thu Apr 30 10:05:21 2020 Page 1
ID:DMCubINVR6TstFoa31vGI_zns11-bDbdAio2TcXz4fMqZ_lMaGYr6scWbOmQDMZUljzLa9S



TOTAL WEIGHT = 2 X 57 = 115 lb
(M/F)

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

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWV+p	MT20	5.0	8.0	Edge	
C	TMWV+w	MT20	2.0	4.0		
D	TTWV+p	MT20	4.0	8.0	Edge	
E	TMWV+w	MT20	2.0	4.0		
F	TMWV+p	MT20	5.0	8.0	Edge	
H	BMVt+p	MT20	3.0	4.0		
I	BBWWV-m	MT20	5.0	8.0	2.75	3.50
J	BBWWV-m	MT20	5.0	8.0	2.75	3.50
K	BMVt+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	HORZ	DOWN	UP
K	888	0	888	0
H	888	0	888	0

UNFACTORED REACTIONS

JT	1ST CASE	MAX/MIN	COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	
K	610	413/0	0/0	0/0	0/0	198/0	0/0	
H	610	413/0	0/0	0/0	0/0	198/0	0/0	

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.84 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	VERT. LOAD	CS (LC)	MEMB.	MAX. FACTORED	VERT. LOAD	CS (LC)
FR-TO	0/35	FROM TO	CS (LC)	FR-TO	0/623	0.14 (1)	
A-B	-1092/0	-91.8 -91.8	0.12 (1)	D-I	-369/0	0.08 (1)	
B-C	-1092/0	-91.8 -91.8	0.12 (1)	J-D	0/623	0.14 (1)	
C-D	-1130/0	-91.8 -91.8	0.13 (1)	J-C	-369/0	0.08 (1)	
D-E	-1130/0	-91.8 -91.8	0.13 (1)	B-J	0/923	0.21 (1)	
E-F	-1092/0	-91.8 -91.8	0.12 (1)	I-F	0/923	0.21 (1)	
F-G	0/35	-91.8 -91.8	0.12 (1)				
K-B	-835/0	0.0 0.0	0.09 (1)				
H-F	-835/0	0.0 0.0	0.09 (1)				
K-J	0/0	-18.5 -18.5	0.08 (4)				
J-I	0/541	-18.5 -18.5	0.30 (4)				
I-H	0/0	-18.5 -18.5	0.08 (4)				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	25.6	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD		=	39.0	PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2010, NBCC 2012, ABC 2019
- PART 9 OF NBCC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 6.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.45")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL) = L/360 (0.45")
CALCULATED VERT. DEFL.(TL) = L/998 (0.15")

CS: TC=0.13/1.00 (C-D:1), BC=0.30/1.00 (H-J:4), WB=0.21/1.00 (F:1), SS=0.12/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PS)	(PLI)	(PLI)	(PLI)
MT20	618	354	1687

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.78 (F) (INPUT = 0.90)
JSI METAL= 0.46 (F) (INPUT = 1.00)

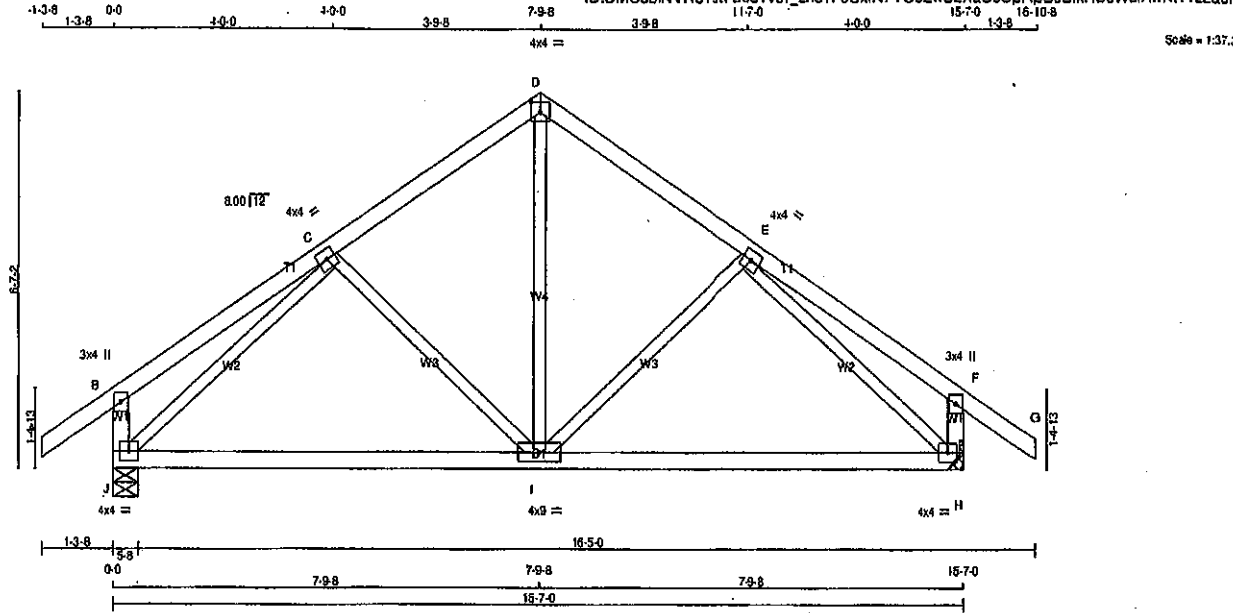


Structural component only
DWG# T-2008027

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408315	T19	3	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2018 M/Tek Industries, Inc. Thu Apr 30 09:31:56 2020 Page 1
ID:DMCubINVR6TstF0e31v6l_zns11-oUx/N7Y0eZwS2XaUcOpApS0BfxHDJWdIAwNt1zLaen



Scale = 1:37.3

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

DRY: SEASONED LUMBER.

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

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	GROSS REACTION	GROSS REACTION	BRG	BRG
J	VERT	DOWN	UP-LIFT	IN-SX
J	985	0	0	5-8
H	985	0	0	MECHANICAL

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

UNFACTORED REACTIONS

1ST CASE	MAX/MIN. COMPONENT REACTIONS
JT COMBINED	SNOW LIVE PERM. LIVE WIND DEAD SOIL
J	894 489 / 0 0 / 0 0 / 0 0 / 0 225 / 0 0 / 0
H	694 469 / 0 0 / 0 0 / 0 0 / 0 225 / 0 0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MAX.	MEMB.	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	CSI (LC)	UNBRAC	LENGTH	FR-TO	MEMB.	FORCE (LBS)
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00	I-D	0 / 483	0.10 (1)
B-C	0 / 23	-91.8	-91.8	0.22 (1)	10.00	I-E	-208 / 0	0.10 (1)
C-D	-889 / 0	-91.8	-91.8	0.17 (1)	6.25	C-I	-208 / 0	0.10 (1)
D-E	-889 / 0	-91.8	-91.8	0.17 (1)	6.25	J-C	-971 / 0	0.45 (1)
E-F	0 / 23	-91.8	-91.8	0.22 (1)	10.00	E-H	-971 / 0	0.45 (1)
F-G	0 / 35	-91.8	-91.8	0.12 (1)	10.00			
J-B	-283 / 0	0.0	0.0	0.03 (1)	7.81			
H-F	-283 / 0	0.0	0.0	0.03 (1)	7.81			
J-I	0 / 706	-18.5	-18.5	0.38 (4)	10.00			
I-H	0 / 706	-18.5	-18.5	0.38 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 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, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = $L/360$ (0.52")
CALCULATED VERT. DEFL. (LL) = $L/999$ (0.02")
ALLOWABLE DEFL. (TL) = $L/360$ (0.52")
CALCULATED VERT. DEFL. (TL) = $L/999$ (0.09")

CSI: TC=0.22/1.00 (B-C:1), SC=0.38/1.00 (I-J:4), WB=0.45/1.00 (C-J:1), SSI=0.14/1.00 (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 1687 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

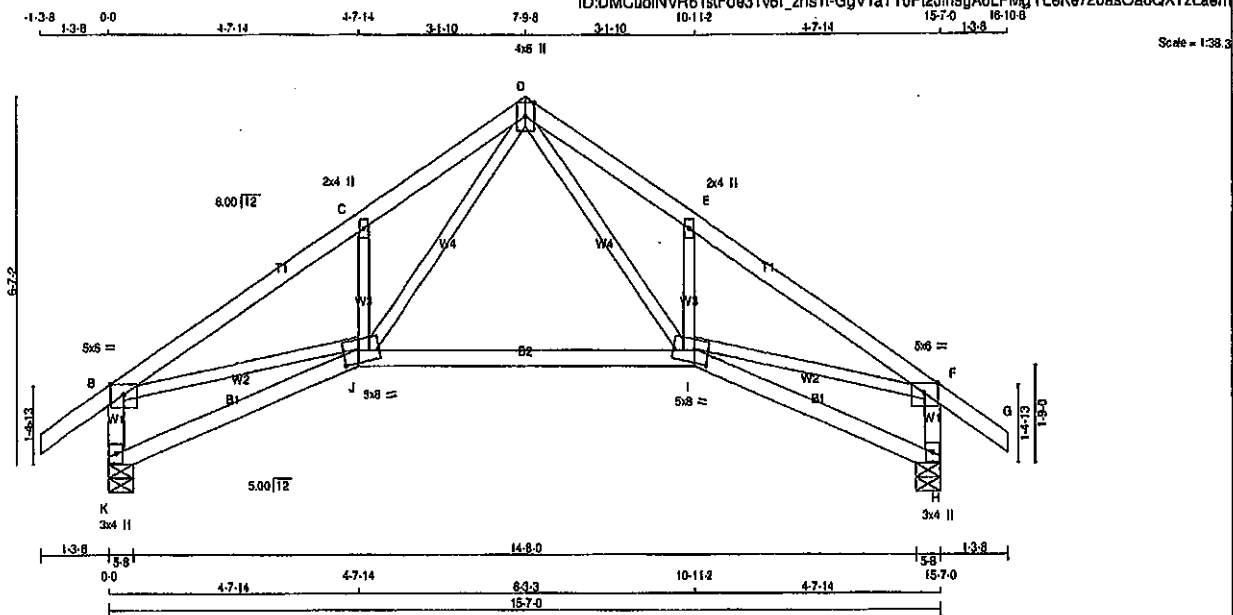
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.82 (J) (INPUT = 0.90)
JSI METAL = 0.34 (E) (INPUT = 1.00)



Structural component only
DWG# T-2008023

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408315	T20S	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		Version 8.310 S Oct 29 2019 MTek Industries, Inc. Thu Apr 30 09:31:57 2020 Page 1			



TOTAL WEIGHT = 2 X 65 = 132 lb (M/F)

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

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMW-p	MT20	5.0	8.0	Edge	
C	TMW-w	MT20	2.0	4.0		
D	TTWW-p	MT20	4.0	8.0	Edge	
E	TMW-w	MT20	2.0	4.0		
F	TMW-p	MT20	5.0	8.0	Edge	
H	BMV1-p	MT20	3.0	4.0		
I	BBWW-m	MT20	5.0	8.0	2.75	3.25
J	BBWW-m	MT20	5.0	8.0	2.75	3.25
K	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		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
K	985	0	985	0	0	5-8	5-8		
H	985	0	985	0	0	5-8	5-8		

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
K	694	469 / 0	0 / 0	0 / 0	0 / 0	225 / 0	0 / 0
H	694	469 / 0	0 / 0	0 / 0	0 / 0	225 / 0	0 / 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 = 5.16 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD	MAX	MEMB.	FORCE (LBS)	MAX	CS (LC)
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 35	-91.8	-91.8 0.12 (1)	10.00	D-I	0 / 880	0.20 (1)
B-C	-1445 / 0	-91.8	-91.8 0.27 (1)	5.18	E-E	-445 / 0	0.08 (1)
C-D	-1487 / 0	-91.8	-91.8 0.19 (1)	5.18	J-D	0 / 880	0.20 (1)
D-E	-1487 / 0	-91.8	-91.8 0.19 (1)	5.18	J-C	-445 / 0	0.08 (1)
E-F	-1445 / 0	-91.8	-91.8 0.27 (1)	5.18	B-J	0 / 1231	0.28 (1)
F-G	0 / 35	-91.8	-91.8 0.12 (1)	10.00	I-F	0 / 1231	0.28 (1)
K-B	-942 / 0	0.0	0.0 0.10 (1)	7.81			
H-F	-942 / 0	0.0	0.0 0.10 (1)	7.81			
K-J	0 / 0	-18.5	-18.5 0.12 (4)	10.00			
J-I	0 / 721	-18.5	-18.5 0.27 (4)	10.00			
I-H	0 / 0	-18.5	-18.5 0.12 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	25.8	PSF
DL	=	6.0	PSF	
BOT CH.	LL	=	0.0	PSF
DL	=	7.4	PSF	
TOTAL LOAD	=	39.0	PSF	

SPACING = 24.0 IN. CC

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, OBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.52")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL) = L/360 (0.52")
CALCULATED VERT. DEFL.(TL) = L/999 (0.16")

CS: TC=0.27/1.00 (B-C:1), BC=0.27/1.00 (I-J:4), WB=0.28/1.00 (F-I:1), SS=0.18/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE	GRIP(DRY)		SHEAR		SECTION	
	(PS)		(PL)		(PL)	
	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.

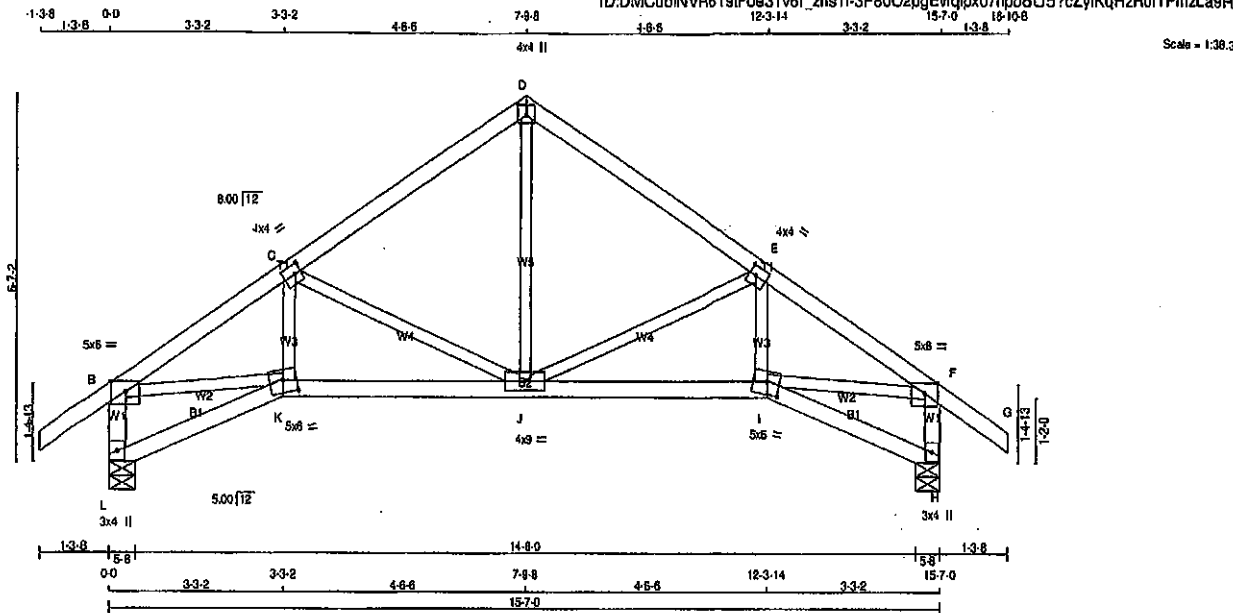
JSI GRIP= 0.69 (F) (INPUT = 0.90)
JSI METAL= 0.30 (I) (INPUT = 1.00)



Structural component only
DWG# T-2008024

JOB NAME 408316	TRUSS NAME T20S1	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
TAMARACK ROOF TRUSS, BURLINGTON				TRUSS DESC.	

Version 8.310 S Oct 29 2019 MTEK Industries, Inc. Thu Apr 30 10:05:22 2020 Page 1
ID:DMCubInVR8TslFoe31v6l_zns11-3P80C2pgEvgjpx07hpb6U57cZylKqHzR011PmzLa9R



TOTAL WEIGHT = 2 X 68 = 132 lb

LUMBER

N. L. G. A. RULES

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

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
L	985	0	985	0
H	985	0	985	0

UNFACTORED REACTIONS

JT	1ST LOSE	MAX./MIN. COMPONENT REACTIONS	WIND	DEAD	SOIL
L	COMBINED	SNOW	LIVE	PERM. LIVE	
L	694	469 / 0	0 / 0	0 / 0	225 / 0
H	694	469 / 0	0 / 0	0 / 0	225 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.41 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 MAX. CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	MAX. CS1 (LC)
FR-TO				FR-TO			
A-B	0 / 35	-91.8	-91.8 0.12 (1)	J-D	0 / 561	10.00	0.12 (1)
B-C	-1334 / 0	-91.8	-91.8 0.19 (1)	J-E	-516 / 0	5.41	0.21 (1)
C-D	-818 / 0	-91.8	-91.8 0.21 (1)	I-E	0 / 98	8.23	0.03 (4)
D-E	-818 / 0	-91.8	-91.8 0.21 (1)	C-J	-516 / 0	6.25	0.21 (1)
E-F	-1334 / 0	-91.8	-91.8 0.19 (1)	K-C	0 / 98	5.41	0.03 (4)
F-G	0 / 35	-91.8	-91.8 0.12 (1)	B-K	0 / 1132	10.00	0.25 (1)
L-B	-955 / 0	0.0	0.0 0.10 (1)	I-F	0 / 1132	7.81	0.25 (1)
H-F	-955 / 0	0.0	0.0 0.10 (1)				
L-K	0 / 0	-18.5	-18.5 0.08 (4)				
K-J	0 / 1127	-18.5	-18.5 0.24 (1)				
J-I	0 / 1127	-18.5	-18.5 0.24 (1)				
I-H	0 / 0	-18.5	-18.5 0.08 (4)				

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWV-p	MT20	5.0	6.0	Edge	
C	TMWV-i	MT20	4.0	4.0	2.00	1.50
D	TTW-p	MT20	4.0	4.0	2.25	2.00
E	TMWV-i	MT20	4.0	4.0	2.00	1.50
F	TMWV-p	MT20	5.0	6.0	Edge	
H	BMV1-p	MT20	3.0	4.0		
I	BBWV-m	MT20	5.0	6.0	2.75	3.00
J	BMWV-i	MT20	4.0	9.0		
K	BBWV-m	MT20	5.0	6.0	2.75	3.00
L	BMV1-p	MT20	3.0	4.0		

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

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	25.8	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD		=	39.0	PSF

SPACING = 24.0 IN. CG

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, OSO 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-08, CSA 088-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.52")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.03")
ALLOWABLE DEFL.(TL) = $L/360$ (0.52")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.08")

CS1: TC=0.21/1.00 (D-E:1), BC=0.24/1.00 (J-K:1), WB=0.25/1.00 (B-K:1), SS1=0.18/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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
MT20	618	354	1867

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.74 (D) (INPUT = 0.90)
JSI METAL= 0.27 (H) (INPUT = 1.00)



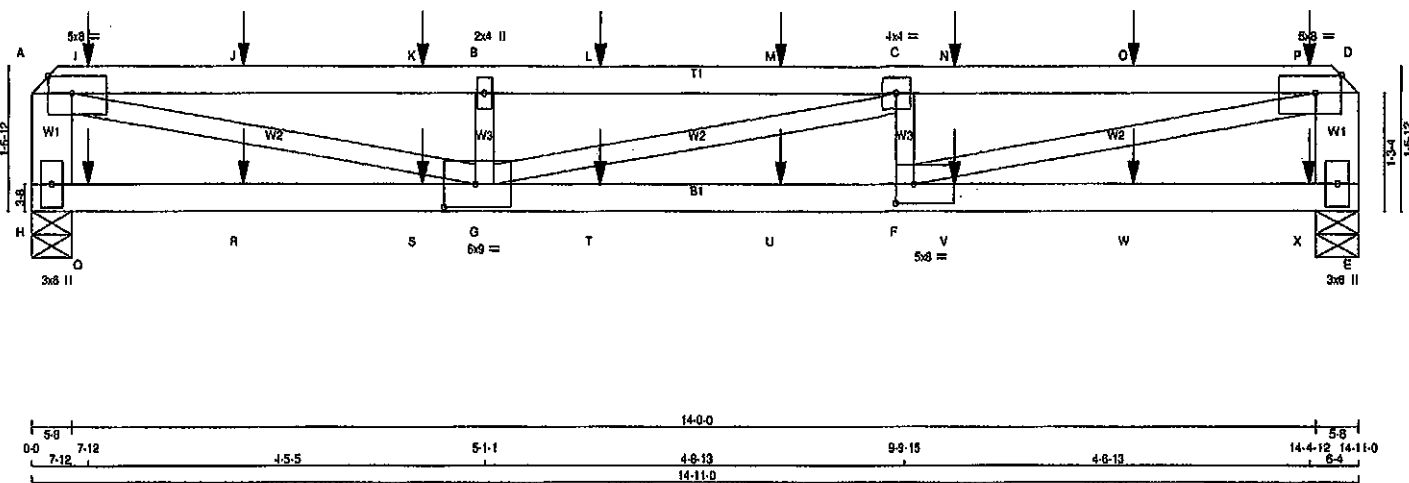
Structural component only
DWG# T-2008028

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408315	T21	1	1	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Thu Apr 30 09:31:59 2020 Page 1
ID:DMCubINVR6TslF0e31v6l_zns1l-D3do78aGxU11v7J3IXNIR5ea78DeWnG9stbXbMzLaek

0-0 3-8 7-12 4-5-5 5-1-1 4-8-13 9-9-15 4-6-13 14-4-12 14-7-8 14-11-0 2-12-3-8
Scale = 1:23.0



TOTAL WEIGHT = 50 lb

LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - D	2x4	DRY	No.2
H - A	2x6	DRY	No.2
E - D	2x6	DRY	No.2
H - 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
A	TMW-1	MT20	5.0	8.0	Edge 3.25
B	TMW-1	MT20	2.0	4.0	
C	TMW-1	MT20	4.0	4.0	
D	TMW-1	MT20	5.0	8.0	Edge 3.25
E	BMV-1	MT20	3.0	6.0	
F	BMW-1	MT20	5.0	8.0	2.50 2.50
G	BMW-1	MT20	6.0	9.0	3.00 4.25
H	BMV-1	MT20	3.0	6.0	

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS	REACTION	GROSS	REACTION	BRG	BRG	IN-SX	IN-SX
H	1220	0	1220	0	0	5-8	5-8		
E	1224	0	1224	0	0	5-8	5-8		

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	883	568 / 0	0 / 0	0 / 0	0 / 0	297 / 0	0 / 0
E	865	568 / 0	0 / 0	0 / 0	0 / 0	297 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.06 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		MAX		MAX		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT.	LOAD	LC1	MAX	UNBRAC	MEMB.	FORCE (LBS)	MAX	CS1 (LC)	CS1 (LC)
FR-TO						LENGTH	FR-TO				
A-I	-3296 / 0	-91.8	-91.8	0.73 (1)	3.06	F-D	0 / 3390	0.84 (1)			
I-J	-3296 / 0	-91.8	-91.8	0.73 (1)	3.06	A-G	0 / 3397	0.84 (1)			
J-K	-3296 / 0	-91.8	-91.8	0.73 (1)	3.06	F-C	-630 / 0	0.10 (1)			
K-B	-3296 / 0	-91.8	-91.8	0.73 (1)	3.06	G-B	-632 / 0	0.10 (1)			
B-L	-3296 / 0	-91.8	-91.8	0.55 (1)	3.31	G-C	0 / 7	0.00 (1)			
L-M	-3296 / 0	-91.8	-91.8	0.55 (1)	3.31						
M-C	-3296 / 0	-91.8	-91.8	0.55 (1)	3.31						
C-N	-3289 / 0	-91.8	-91.8	0.71 (1)	3.09						
N-O	-3289 / 0	-91.8	-91.8	0.71 (1)	3.09						
O-P	-3289 / 0	-91.8	-91.8	0.71 (1)	3.09						
P-D	-3289 / 0	-91.8	-91.8	0.71 (1)	3.09						
H-A	-1113 / 0	0.0	0.0	0.08 (1)	7.81						
E-D	-1118 / 0	0.0	0.0	0.08 (1)	7.81						

H-Q	0 / 0	-18.5	-18.5	0.19 (1)	10.00
O-R	0 / 0	-18.5	-18.5	0.19 (1)	10.00
R-S	0 / 0	-18.5	-18.5	0.19 (1)	10.00
S-G	0 / 0	-18.5	-18.5	0.19 (1)	10.00
G-T	0 / 3289	-18.5	-18.5	0.71 (1)	10.00
T-U	0 / 3289	-18.5	-18.5	0.71 (1)	10.00
U-F	0 / 3289	-18.5	-18.5	0.71 (1)	10.00
F-V	0 / 0	-18.5	-18.5	0.19 (1)	10.00
V-W	0 / 0	-18.5	-18.5	0.19 (1)	10.00
W-X	0 / 0	-18.5	-18.5	0.19 (1)	10.00
X-E	0 / 0	-18.5	-18.5	0.19 (1)	10.00

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
I	7-12	-54	-54	---	FRONT	VERT	TOTAL	---	C1
J	2-4-12	-54	-54	---	FRONT	VERT	TOTAL	---	C1
K	4-4-12	-54	-54	---	FRONT	VERT	TOTAL	---	C1
L	6-4-12	-54	-54	---	FRONT	VERT	TOTAL	---	C1
M	8-4-12	-54	-54	---	FRONT	VERT	TOTAL	---	C1
N	10-4-12	-54	-54	---	FRONT	VERT	TOTAL	---	C1
O	12-4-12	-54	-54	---	FRONT	VERT	TOTAL	---	C1
P	14-4-12	-78	-78	---	FRONT	VERT	TOTAL	---	C1
Q	7-12	-43	-43	---	FRONT	VERT	TOTAL	---	C1
R	2-4-12	-40	-40	---	FRONT	VERT	TOTAL	---	C1
S	4-4-12	-40	-40	---	FRONT	VERT	TOTAL	---	C1
T	6-4-12	-40	-40	---	FRONT	VERT	TOTAL	---	C1
U	8-4-12	-40	-40	---	FRONT	VERT	TOTAL	---	C1
V	10-4-12	-40	-40	---	FRONT	VERT	TOTAL	---	C1
W	12-4-12	-40	-40	---	FRONT	VERT	TOTAL	---	C1

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	25.8	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD = 39.0 PSF				

SPACING = 24.0 IN. GC

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, NSCC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.50")
CALCULATED VERT. DEFL.(LL) = 1/882 (0.20")
ALLOWABLE DEFL.(TL) = L/360 (0.50")
CALCULATED VERT. DEFL.(TL) = 1/477 (0.38")

CS1: TC=0.73/1.00 (A-B:1), BC=0.71/1.00 (F-G:1),
WB=0.84/1.00 (A-G:1), SS1=0.31/1.00 (C-D:1)

DOL LUMBER=1.00 NAIL=1.00 LS 8END=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		SECTION	
	(PSI)		(PLI)		(PLI)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	618	354	1667	768	1987	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (G) (INPUT = 0.90)
JSI METAL = 0.82 (A) (INPUT = 1.00)

CONTINUED ON PAGE 2



Structural component only
DWG# T-2008025 1/2

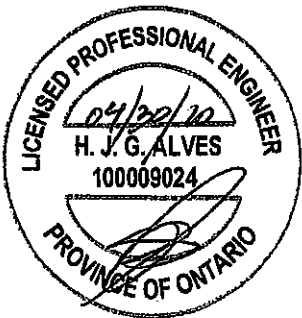
JOB NAME 408315	TRUSS NAME T21	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Thu Apr 30 09:31:59 2020 Page 2
 ID:DMCubINVR6TstFoe31v8I zns1I-D3do78aGxU11v7J3IXNIR5ea78DeWnG9sibXbmZLask

FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX.	MAX*	FACE	DIR.	TYPE	HEEL	CONN.
X	14-4-12	-44	-44	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

- I) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

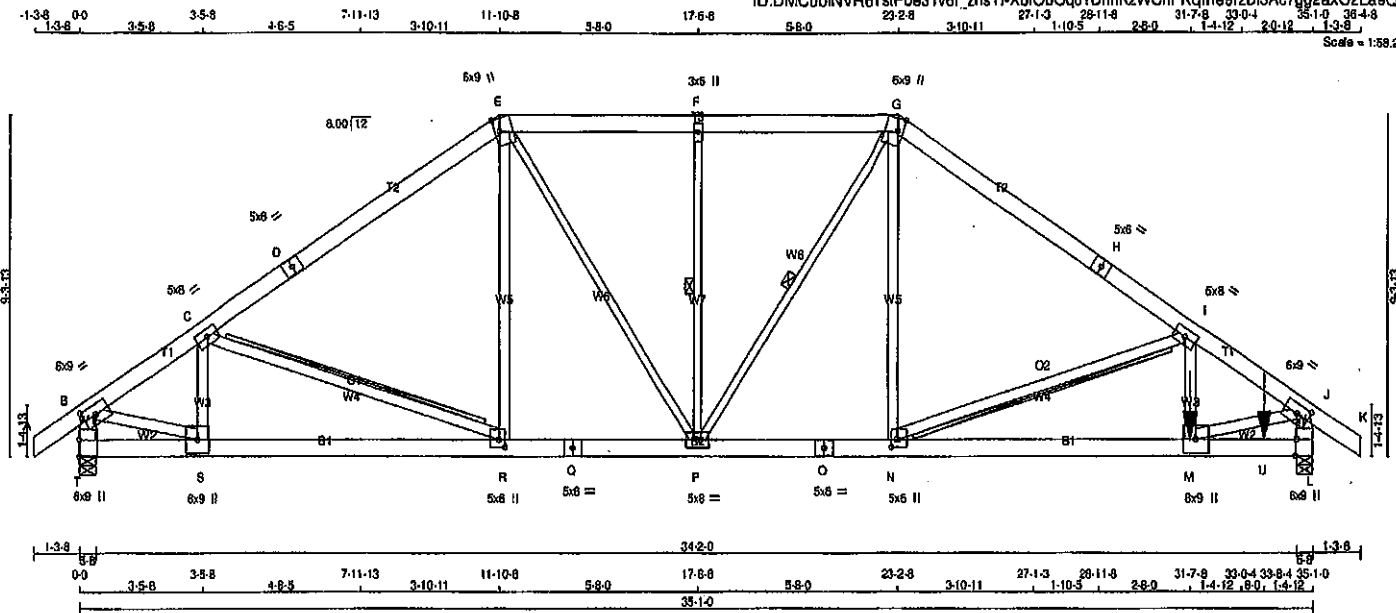


Structural component only
 DWG# T-2008025 7/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408316	T30	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 10:05:23 2020 Page 1
ID:DMCubINVR6TstFoe31v6l_zns11-XbiObQJ?DnhKzWChPKqfhe9rzDi3Ac7gg2axCzLa9Q



TOTAL WEIGHT = 2 X 219 = 437 lb

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	DRY	LUMBER	DESCR.
A - D	No. 2	2x6	DRY	No. 2	SPF	
D - E	No. 2	2x6	DRY	No. 2	SPF	
E - G	No. 2	2x6	DRY	No. 2	SPF	
G - H	No. 2	2x6	DRY	No. 2	SPF	
H - I	No. 2	2x6	DRY	No. 2	SPF	
I - J	No. 2	2x6	DRY	No. 2	SPF	
J - Q	No. 2	2x6	DRY	No. 2	SPF	
Q - O	No. 2	2x6	DRY	No. 2	SPF	
O - L	No. 2	2x6	DRY	No. 2	SPF	
ALL WEBS EXCEPT	No. 2	2x4	DRY	No. 2	SPF	
P - G	No. 2	2x3	DRY	No. 2	SPF	
E - P	No. 2	2x3	DRY	No. 2	SPF	
P - F	No. 2	2x3	DRY	No. 2	SPF	

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122'X3') SPIRAL NAILS		
A-D	2	12
D-E	2	12
E-G	2	12
G-H	2	12
H-I	2	12
I-K	2	12
K-L	2	12
L-J	2	12
BOTTOM CHORDS : (0.122'X3') SPIRAL NAILS		
T-Q	2	12
Q-O	2	12
O-L	2	12
WEBS : (0.122'X3') SPIRAL NAILS		
2x3	1	6
M-I	2	2
2x4	1	6
S-C	2	2

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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	DOWN	DOWN
T	2640	0	0	5-8
L	7741	0	0	5-8

UNFACTORED REACTIONS

1ST LOOSE	MAX./MIN. COMPONENT REACTIONS	1ST LOOSE	MAX./MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
T	1884	1241 / 0	0 / 0
L	5484	3843 / 0	0 / 0

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

BRACING

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

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF G-P, P-P, 2x4 DRY SPF No.2 T-BRACE AT C-R 2x6 DRY SPF No.2 T-BRACE AT I-W

FASTEN T AND I BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 8" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)
FR-TO									
A-B	0 / 36	-91.8	-91.8	0.04 (1)	10.00	C-R	-188 / 0	0.07 (1)	
B-C	-3133 / 0	-91.8	-91.8	0.22 (1)	5.86	R-E	0 / 238	0.03 (4)	
C-D	-3051 / 0	-91.8	-91.8	0.25 (1)	6.02	N-G	0 / 1853	0.18 (1)	
D-E	-3051 / 0	-91.8	-91.8	0.25 (1)	6.02	N-I	-4718 / 0	0.62 (1)	
E-F	-3089 / 0	-91.8	-91.8	0.13 (1)	6.12	P-G	-302 / 0	0.12 (1)	
F-G	-3089 / 0	-91.8	-91.8	0.13 (1)	6.12	E-P	0 / 1075	0.13 (1)	
G-H	-3902 / 0	-91.8	-91.8	0.31 (1)	5.43	P-F	-805 / 0	0.16 (1)	
H-I	-3902 / 0	-91.8	-91.8	0.31 (1)	5.43	S-C	-596 / 0	0.05 (1)	
I-J	-9121 / 0	-91.8	-91.8	0.28 (1)	3.85	B-S	0 / 2770	0.24 (1)	
J-K	0 / 36	-91.8	-91.8	0.04 (1)	10.00	M-I	0 / 3891	0.34 (1)	
T-B	-2810 / 0	0.0	0.0	0.09 (1)	7.81	M-J	0 / 7892	0.70 (1)	
L-J	-7284 / 0	0.0	0.0	0.28 (1)	5.55				
T-S	0 / 0	-18.5	-18.5	0.04 (4)	10.00				
S-R	0 / 2682	-18.5	-18.5	0.22 (1)	10.00				
R-Q	0 / 2509	-18.5	-18.5	0.21 (1)	10.00				
Q-P	0 / 2509	-18.5	-18.5	0.21 (1)	10.00				
P-O	0 / 3253	-18.5	-18.5	0.27 (1)	10.00				
O-N	0 / 3253	-18.5	-18.5	0.27 (1)	10.00				
N-M	0 / 7639	-18.5	-18.5	0.57 (1)	10.00				
M-U	0 / 0	-18.5	-18.5	0.24 (1)	10.00				
U-L	0 / 0	-18.5	-18.5	0.24 (1)	10.00				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
M	31-7-8	-5589	-5589	---	BACK	VERT	TOTAL	C1
U	33-8-4	-884	-884	---	BACK	VERT	TOTAL	C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	25.8	PSF
DL	=	6.0	PSF	
BOT CH.	LL	=	0.0	PSF
DL	=	7.4	PSF	
TOTAL LOAD	=	39.0	PSF	

SPACING = 24.0 IN. CD

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 BCBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17') CALCULATED VERT. DEFL.(LL) = U/999 (0.08") ALLOWABLE DEFL.(TL) = L/360 (1.17') CALCULATED VERT. DEFL.(TL) = U/999 (0.16")

CSI: TC=0.31/1.00 (G-I), BC=0.57/1.00 (M-N), WB=0.70/1.00 (J-M), SF=0.19/1.00 (L-M)

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

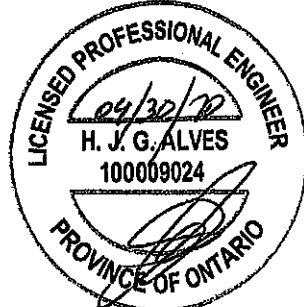
PLATE GRIP (DRY)	SHEAR (PSI)	SECTION (PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	818 354	1867 788

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.90 (R) (INPUT = 0.90)

JSI METAL = 0.88 (R) (INPUT = 1.00)



Structural component only
DWG# T-2008029 1/2

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408316	T30	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Version 8.310 S Oct 29 2019 MTek Industries, Inc. Thu Apr 30 16:05:23 2020 Page 2

ID:DMCubINVR6TstFoe31v6l zns1I-XbiObCqJ7DnhKzWChPKqlne9tzDi3Ag7gg2axCzLa9C

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWW-t	MT20	6.0	9.0	3.00	4.25
C	TMWW-t	MT20	5.0	8.0		
D	TS-t	MT20	5.0	6.0		
E	TTWW+m	MT20	6.0	9.0	4.25	1.50
F	TMWW-w	MT20	3.0	6.0		
G	TTWW+m	MT20	6.0	9.0	4.25	1.50
H	TS-t	MT20	5.0	6.0		
I	TMWW-t	MT20	5.0	8.0		
J	TMWW-t	MT20	6.0	9.0	3.00	4.25
L	BMV1-t	MT20	6.0	9.0	Edge	0.50
M	BMWW-t	MT20	6.0	9.0		
N	BMWW-t	MT20	5.0	6.0	2.50	2.00
O	BS-t	MT20	5.0	6.0		
P	BMWW-t	MT20	5.0	6.0		
Q	BS-t	MT20	5.0	6.0		
R	BMWW-t	MT20	5.0	6.0	2.50	2.00
S	BMWW-t	MT20	6.0	9.0		
T	BMV1-t	MT20	6.0	9.0	5.50	

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

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



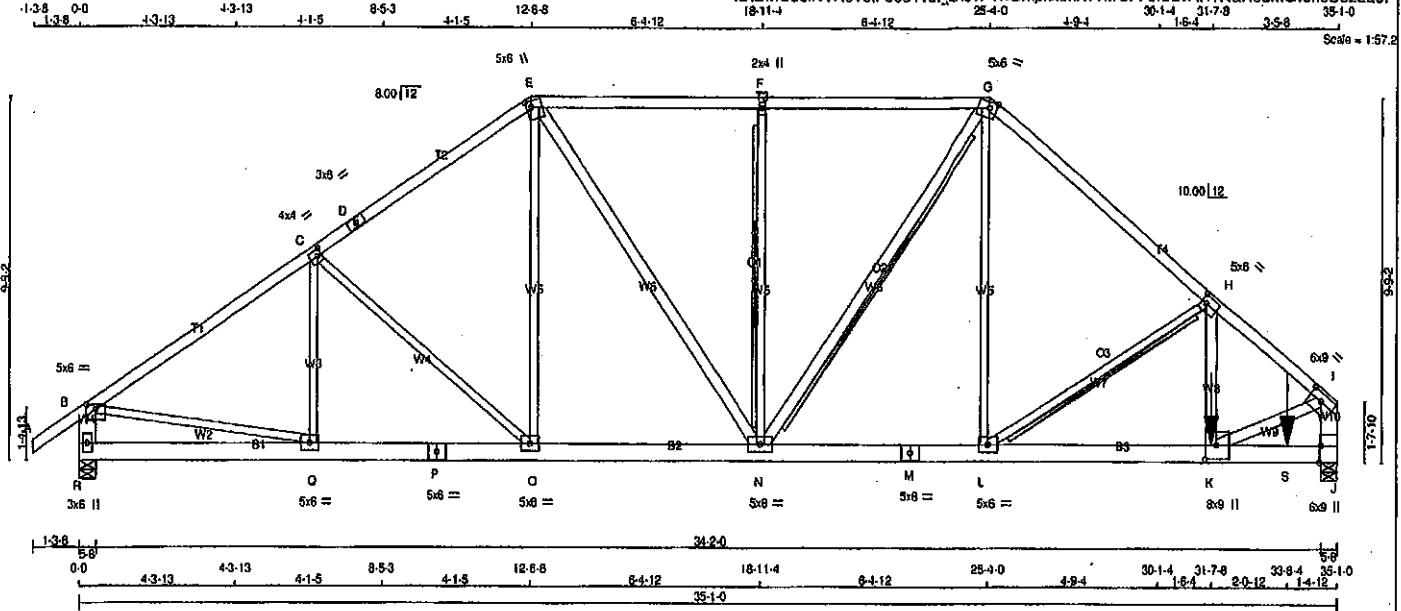
Structural component only
DWG# T-2008029 7/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408316	T31	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MTEK Industries, Inc. Thu Apr 30 10:05:24 2020 Page 1

ID:DMCubINVR6TstFoe31v6l_zns1I-?nGmpkxmXvYx75PF6r3CvAHTNaKodmGvJn6UezLa8P



TOTAL WEIGHT = 2 X 191 = 382 lb

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	DRY	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF		
D - E	2x4	DRY	No.2	SPF		
E - G	2x4	DRY	No.2	SPF		
G - I	2x4	DRY	No.2	SPF		
R - B	2x6	DRY	No.2	SPF		
J - I	2x6	DRY	No.2	SPF		
R - P	2x6	DRY	No.2	SPF		
P - M	2x6	DRY	No.2	SPF		
M - J	2x6	DRY	No.2	SPF		
ALL WEBS	2x3	DRY	No.2	SPF		
EXCEPT						
K - H	2x4	DRY	No.2	SPF		
K - I	2x4	DRY	No.2	SPF		
N - G	2x4	DRY	No.2	SPF		
E - N	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-D 1	12	TOP
D-E 1	12	TOP
E-G 1	12	TOP
G-I 1	12	TOP
R-B 2	12	TOP
J-I 2	12	TOP
BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS		
R-P 2	12	TOP
P-M 2	12	TOP
M-J 2	12	TOP
WEBS: (0.122"x3") SPIRAL NAILS		
2x3 1	6	SIDE (183.1)
H-K 2	3	SIDE (1410.3)
2x4 1	6	SIDE (1410.3)

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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	UPLIFT	IN-SX
R	2689	0	0	5-8
J	8097	0	0	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
R	1899	1284 / 0	0 / 0	0 / 0	0 / 0	635 / 0	0 / 0
J	5718	3798 / 0	0 / 0	0 / 0	0 / 0	1920 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.04 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

2x8 DRY SPF No.2 T-BRACE AT H-L, G-N
2x4 DRY SPF No.2 T-BRACE AT F-N

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MAX. UNBRACED LENGTH	WEBS	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO					FR-TO		
A-B	0 / 35	-91.8	-91.8	0.07 (1)	10.00	C-C	-321 / 0
B-C	-3291 / 0	-91.8	-91.8	0.49 (1)	4.88	C-O	-348 / 0
C-D	-3058 / 0	-91.8	-91.8	0.45 (1)	4.82	O-E	0 / 358
D-E	-3058 / 0	-91.8	-91.8	0.45 (1)	4.82	L-G	0 / 2223
E-F	-3118 / 0	-91.8	-91.8	0.44 (1)	4.78	L-H	-3808 / 0
F-G	-3118 / 0	-91.8	-91.8	0.44 (1)	4.78	B-Q	0 / 2801
G-H	-4128 / 0	-91.8	-91.8	0.49 (1)	4.38	K-H	0 / 4142
H-I	-8211 / 0	-91.8	-91.8	0.51 (1)	3.04	K-I	0 / 6730
I-B	-2828 / 0	0.0	0.0	0.08 (1)	7.61	N-G	-88 / 0
J-I	-7693 / 0	0.0	0.0	0.28 (1)	5.44	E-N	0 / 1075
					N-F	-711 / 0	0.34 (1)
R-Q	0 / 0	-18.5	-18.5	0.05 (4)	10.00		
Q-P	0 / 2769	-18.5	-18.5	0.20 (1)	10.00		
P-O	0 / 2769	-18.5	-18.5	0.20 (1)	10.00		
O-N	0 / 2512	-18.5	-18.5	0.19 (1)	10.00		
N-M	0 / 3167	-18.5	-18.5	0.24 (1)	10.00		
M-L	0 / 3167	-18.5	-18.5	0.24 (1)	10.00		
L-K	0 / 6348	-18.5	-18.5	0.48 (1)	10.00		
K-S	0 / 0	-18.5	-18.5	0.25 (1)	10.00		
S-J	0 / 0	-18.5	-18.5	0.25 (1)	10.00		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
K	31-7-8	-6108	-6108	---	FRONT	VERT	TOTAL	---	C1
S	33-8-4	-684	-684	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	= 25.8	PSF
DL	= 8.0	PSF	
BOT CH.	LL	= 0.0	PSF
DL	= 7.4	PSF	
TOTAL LOAD	= 39.0	PSF	

SPACING = 24.0 IN/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBC 2010, CBC 2012, ABC 2019
- PART 9 OF NBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 088-14
- TPIC 2011, TPIC 2014

(58 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. HAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/999 (0.14")

CSI: TC=0.51/1.00 (H-K:1), BC=0.48/1.00 (K-L:1), WB=0.70/1.00 (H-L:1), SS=0.18/1.00 (J-K: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.

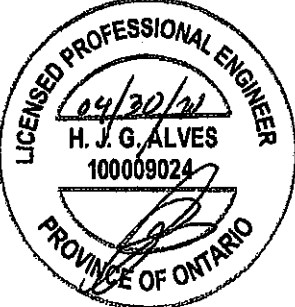
NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	618 354 1887 788 1987 1658	

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (E) (INPUT = 0.90)
JSI METAL = 0.72 (K) (INPUT = 1.00)



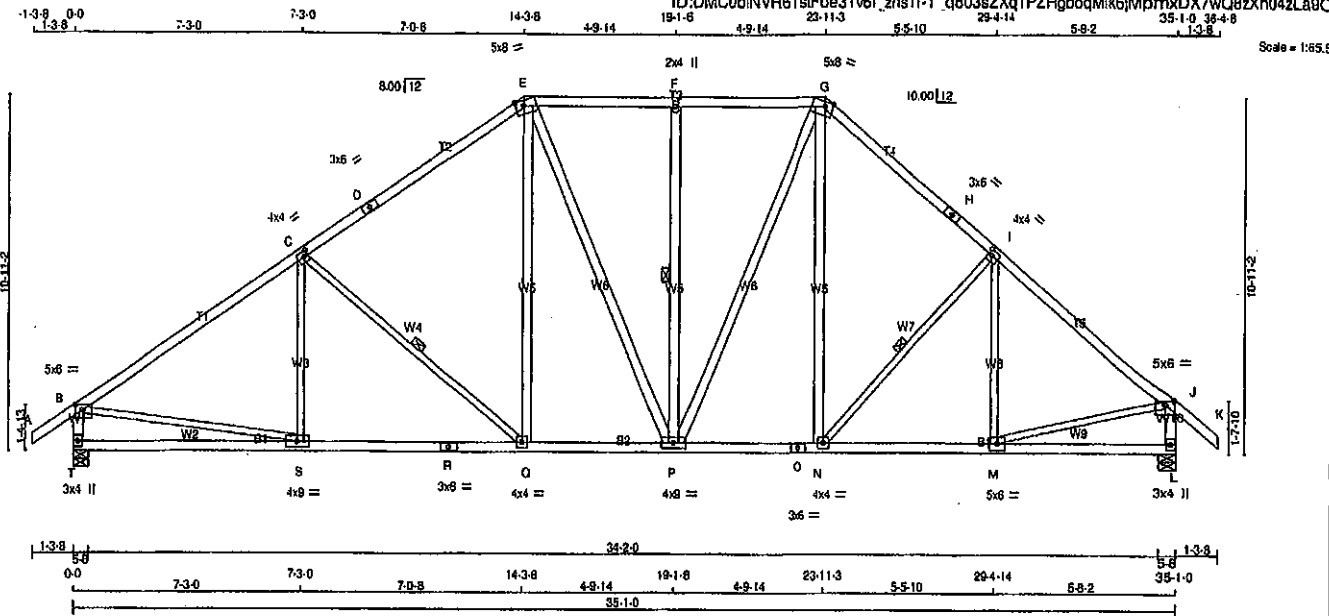
Structural component only
DWG#, T-2008030

CONTINUED ON PAGE 2

JOB NAME 408316	TRUSS NAME T32	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Version 8.310 8 Oct 2019 MTEK Industries, Inc. Thu Apr 30 10:05:25 2020 Page 1

ID:DMCub/NVR6TstFoe31v6l_zns11-T_q803sZxq1PZHqboqMik6jMpmxDX7wQ8zXh04zLa8C



Scale = 1/85.8

TOTAL WEIGHT = 188 lb
(M)(F)

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
E - G	2x4	DRY	No.2
G - H	2x4	DRY	No.2
H - K	2x4	DRY	No.2
T - B	2x4	DRY	No.2
L - J	2x4	DRY	No.2
T - R	2x4	DRY	No.2
R - O	2x4	DRY	No.2
O - L	2x4	DRY	No.2
ALL WEBS 2x4 DRY No.2			
EXCEPT			
S - C	2x3	DRY	No.2
C - O	2x3	DRY	No.2
N - I	2x3	DRY	No.2
M - I	2x3	DRY	No.2
B - S	2x3	DRY	No.2
M - J	2x3	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWW-p	MT20	5.0	8.0	1.75	2.75
C	TMWW-l	MT20	4.0	4.0	2.00	1.50
D	TS-l	MT20	3.0	8.0		
E	TTWW-m	MT20	5.0	8.0	2.00	3.00
F	TMWW-w	MT20	5.0	8.0		
G	TTWW-m	MT20	5.0	8.0	Edges	3.00
H	TS-l	MT20	3.0	8.0		
I	TMWW-l	MT20	4.0	4.0	2.00	1.25
J	TMWW-p	MT20	5.0	8.0	1.50	3.00
L	BMV1+p	MT20	3.0	4.0		
M	BMWW-l	MT20	5.0	6.0		
N	BMWW-l	MT20	4.0	4.0		
O	BS-l	MT20	3.0	8.0		
P	BMWWV-l	MT20	4.0	9.0		
Q	BMWW-l	MT20	4.0	4.0		
R	BS-l	MT20	3.0	6.0		
S	BMWW-l	MT20	4.0	9.0		
T	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	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
T	2060	0	2060	0
L	2061	0	2061	0

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
T	1454	988 / 0	0 / 0	0 / 0	0 / 0	487 / 0	0 / 0
L	1455	988 / 0	0 / 0	0 / 0	0 / 0	487 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.53 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-Q, F-P, I-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)	VERT. LOAD (PLF)	MAX. CSI (LG)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LG)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 35	-91.8 -91.8	0.12 (1)	10.00	S-C	-146 / 72	0.09 (1)
B-C	-2352 / 0	-91.8 -91.8	0.85 (1)	3.53	C-Q	-585 / 0	0.35 (1)
C-D	-1899 / 0	-91.8 -91.8	0.75 (1)	3.56	Q-E	0 / 484	0.08 (1)
D-E	-1899 / 0	-91.8 -91.8	0.75 (1)	3.56	E-P	0 / 145	0.02 (1)
E-F	-1608 / 0	-91.8 -91.8	0.30 (1)	4.80	P-F	-536 / 0	0.33 (1)
F-G	-1608 / 0	-91.8 -91.8	0.30 (1)	4.80	P-Q	0 / 526	0.08 (1)
G-H	-1848 / 0	-91.8 -91.8	0.45 (1)	4.49	N-G	0 / 318	0.05 (1)
H-I	-1848 / 0	-91.8 -91.8	0.45 (1)	4.49	N-I	-302 / 0	0.14 (1)
I-J	-2032 / 0	-91.8 -91.8	0.48 (1)	4.29	M-I	-250 / 9	0.18 (1)
J-K	0 / 41	-91.8 -91.8	0.13 (1)	10.00	B-S	0 / 2015	0.45 (1)
T-B	-2005 / 0	0.0 0.0	0.21 (1)	5.98	M-J	0 / 1633	0.37 (1)
L-J	-2017 / 0	0.0 0.0	0.21 (1)	5.94			
T-S	0 / 0	-18.5 -18.5	0.24 (4)	10.00			
S-R	0 / 1993	-18.5 -18.5	0.44 (1)	10.00			
R-Q	0 / 1993	-18.5 -18.5	0.44 (1)	10.00			
Q-P	0 / 1548	-18.5 -18.5	0.32 (1)	10.00			
P-O	0 / 1390	-18.5 -18.5	0.28 (1)	10.00			
O-N	0 / 1390	-18.5 -18.5	0.28 (1)	10.00			
N-M	0 / 1591	-18.5 -18.5	0.32 (1)	10.00			
M-L	0 / 0	-18.5 -18.5	0.14 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.6	PSF
	DL = 8.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.4	PSF
TOTAL LOAD	= 39.0	PSF

SPACING = 24.0 IN. C/C

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

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, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/999 (0.18")

CSI: TC=0.85/1.00 (B-C:1), BC=0.44/1.00 (Q-S:1),
WB=0.45/1.00 (B-S:1), SS=0.27/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

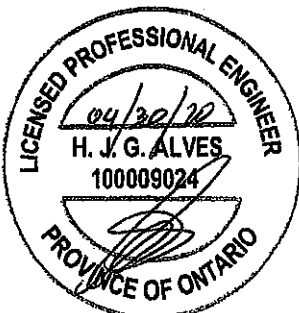
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (J) (INPUT = 0.90)
JSI METAL= 0.87 (R) (INPUT = 1.00)

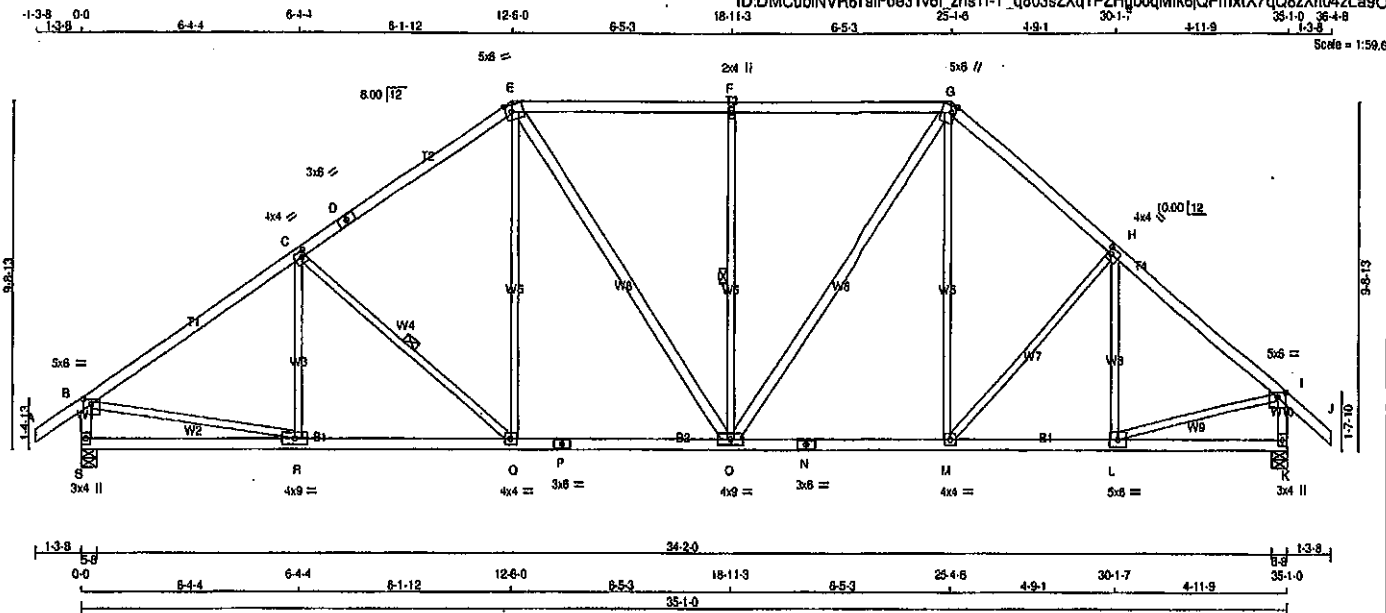


Structural component only
DWG# T-2008031

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408316	T33	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Version 8.310 S Oct 29 2019 MTek Industries, Inc. Thu Apr 30 10:05:25 2020 Page 1

ID:DMCubINVR6TafFoe31v6I_zns11-T_q803sZXq1PZHqboqMik6QPmX7qQ8zXh04zLa9C



TOTAL WEIGHT = 170 lb

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
A - D	2x4	DRY	No.2	SPF
D - E	2x4	DRY	No.2	SPF
E - G	2x4	DRY	No.2	SPF
G - J	2x4	DRY	No.2	SPF
S - B	2x4	DRY	No.2	SPF
K - I	2x4	DRY	No.2	SPF
S - P	2x4	DRY	No.2	SPF
P - N	2x4	DRY	No.2	SPF
N - K	2x4	DRY	No.2	SPF
ALL WEBS 2x3 DRY No.2 SPF				
EXCEPT				
E - O	2x4	DRY	No.2	SPF
O - G	2x4	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMVW-p	MT20	5.0	6.0 1.75 2.75
C	TMWW-I	MT20	4.0	4.0 2.00 1.50
D	TS-I	MT20	3.0	6.0
E	TTWW-m	MT20	5.0	8.0 2.25 2.00
F	TMW-w	MT20	2.0	4.0
G	TTWW-m	MT20	5.0	8.0 2.25 1.50
H	TMWW-I	MT20	4.0	4.0 2.00 1.25
I	TMVW-p	MT20	5.0	8.0 1.50 3.00
K	BMV1-p	MT20	3.0	4.0
L	BMWW-I	MT20	5.0	6.0
M	BMWW-I	MT20	4.0	4.0
N	BS-I	MT20	3.0	6.0
O	BMWW-I	MT20	4.0	9.0
P	BS-I	MT20	3.0	6.0
Q	BMWW-I	MT20	4.0	4.0
R	BMWW-I	MT20	4.0	9.0
S	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	GROSS REACTION	GROSS REACTION	DOWN	GROSS REACTION	UP	BRG	IN-SX	BRG	IN-SX
S	2060	0	0	2060	0	5-8	5-8	5-8	5-8
K	2061	0	0	2061	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
S	1454	968 / 0	0 / 0	0 / 0	0 / 0	487 / 0	0 / 0
K	1455	968 / 0	0 / 0	0 / 0	0 / 0	487 / 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 = 3.88 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	CSH (LC)	MEMB.	FORCE (LBS)	CSH (LC)	CSH (LC)
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 35	-91.8	-91.8 0.12 (1)	10.00	R-C	-211 / 32	0.10 (1)
B-C	-2349 / 0	-91.8	-91.8 0.62 (1)	3.86	C-Q	-437 / 0	0.20 (1)
C-D	-2028 / 0	-91.8	-91.8 0.58 (1)	4.18	Q-E	0 / 398	0.09 (1)
D-E	-2028 / 0	-91.8	-91.8 0.56 (1)	4.16	E-O	0 / 325	0.05 (1)
E-F	-1840 / 0	-91.8	-91.8 0.55 (1)	4.30	O-F	-723 / 0	0.46 (1)
F-G	-1840 / 0	-91.8	-91.8 0.55 (1)	4.30	O-G	0 / 696	0.11 (1)
G-H	-1921 / 0	-91.8	-91.8 0.34 (1)	4.55	M-G	0 / 243	0.05 (1)
H-I	-2008 / 0	-91.8	-91.8 0.36 (1)	4.46	M-H	-184 / 0	0.19 (1)
I-J	0 / 41	-91.8	-91.8 0.13 (1)	10.00	L-H	-319 / 0	0.16 (1)
S-B	-2011 / 0	0.0	0.0 0.21 (1)	5.95	B-R	0 / 2014	0.46 (1)
K-I	-2021 / 0	0.0	0.0 0.21 (1)	5.94	L-I	0 / 1621	0.36 (1)
S-R	0 / 0	-18.5	-18.5 0.17 (4)	10.00			
R-Q	0 / 1986	-18.5	-18.5 0.40 (1)	10.00			
Q-P	0 / 1857	-18.5	-18.5 0.35 (1)	10.00			
P-O	0 / 1657	-18.5	-18.5 0.35 (1)	10.00			
O-N	0 / 1448	-18.5	-18.5 0.32 (1)	10.00			
N-M	0 / 1448	-18.5	-18.5 0.32 (1)	10.00			
M-L	0 / 1568	-18.5	-18.5 0.32 (1)	10.00			
L-K	0 / 0	-18.5	-18.5 0.09 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN./C/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, NBC 2010, NBC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(65 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17")
CALCULATED VERT. DEFL.(LL) = L/999 (0.09")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/999 (0.17")

CSH: TC=0.62/1.00 (B-C:1), BC=0.40/1.00 (Q-R:1), WB=0.46/1.00 (F-O:1), SBI=0.29/1.00 (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
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (I) (INPUT = 0.90)
JSI METAL= 0.48 (P) (INPUT = 1.00)



Structural component only
DWG# T-2008032

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408316	T34	1	2	TRUSS DESC.		
Tamarack Roof Truss, Burlington				Version 8.310 S Oct 29 2019 MTek Industries, Inc. Thu Apr 30 11:34:38 2020 Page 2		
				ID:DMCubINVR6TsiFoe31v6l_zns11-IQI24mc3MwC91cE0m7s76XrxdpD6m81b_EKJRzLYrn		

PLATES (table is 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	TTWW+m	MT20	5.0	6.0	2.00	1.50
E	TMVW-l	MT20	4.0	4.0		
F	TS-l	MT20	3.0	6.0		
G	TMVW-w	MT20	2.0	4.0		
H	TTWW-m	MT20	5.0	6.0	2.00	2.25
I	TMVW-l	MT20	4.0	6.0	2.00	1.50
J	TMVW-p	MT20	6.0	9.0	Edge	
K	BMV1-l	MT20	6.0	9.0	Edge	0.50
L	BMVW+l	MT20	7.0	6.0	4.25	3.00
M, P, R, S						
M	BMVW-l	MT20	5.0	6.0		
N	BS-l	MT20	5.0	6.0		
O	BMVWW-l	MT20	5.0	6.0		
Q	BS-l	MT20	5.0	6.0		
T	BMV1-ep	MT20	3.0	6.0		

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



Structural component only
DWG# T-2008033 42

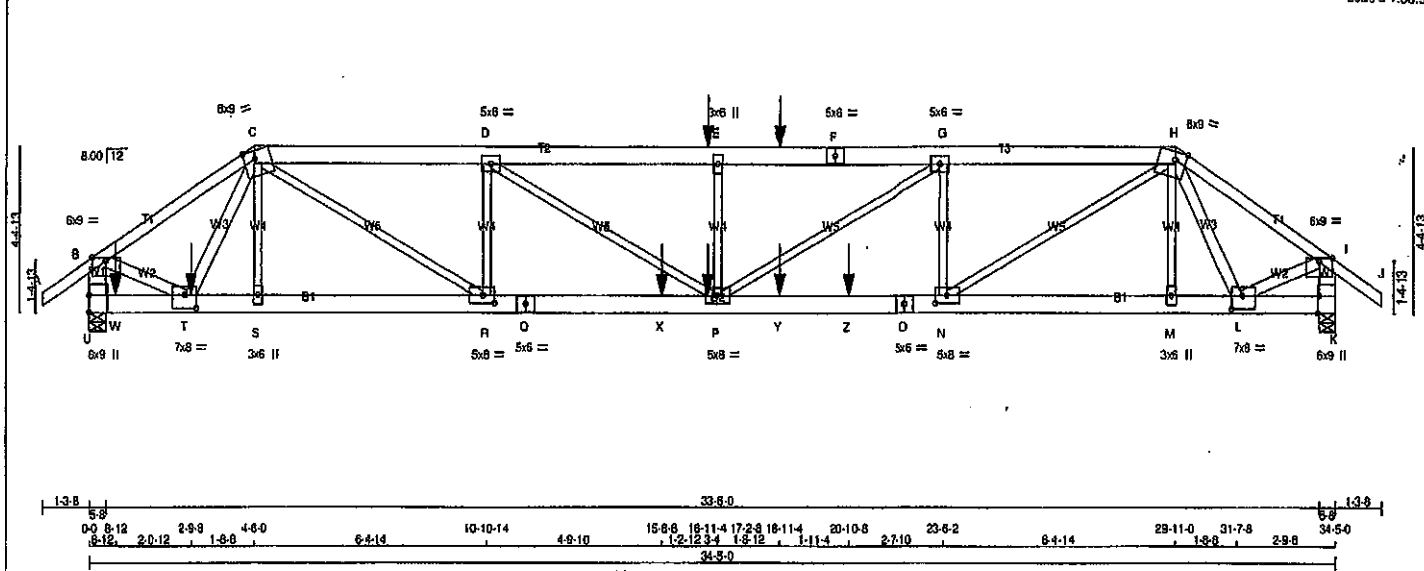
Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 10:05:28 2020 Page 1

ID:DMCubINVR6TsiFoe31v6L_zns11-uZWH5uRipzQkOAUjw7MLzQ_r3kRFsqxldPzLa9L

33-118 34-9 35-8 8

Scale = 1:50.5



LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2	SPF
C - F	2x6	DRY	No.2	SPF
F - H	2x6	DRY	No.2	SPF
H - J	2x4	DRY	No.2	SPF
U - B	2x6	DRY	No.2	SPF
K - I	2x6	DRY	No.2	SPF
U - Q	2x6	DRY	No.2	SPF
Q - O	2x6	DRY	No.2	SPF
O - K	2x6	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				
L - I	2x4	DRY	No.2	SPF
B - T	2x4	DRY	No.2	SPF
T - O	2x4	DRY	No.2	SPF
H - L	2x4	DRY	No.2	SPF

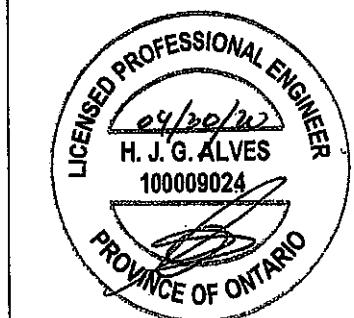
DRY: SEASONED LUMBER.

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
H-J	12	TOP
C-F	12	SIDE(189.1)
F-H	12	TOP
U-B	12	TOP
K-I	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
U-Q	12	SIDE(183.1)
Q-O	12	SIDE(183.1)
O-K	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	8	
2x4	8	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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



Structural component only
DWG# T-2008034 1/2

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT	REQD
JT	VERT	DOWN	BRG	BRG
U	7874	0	5-8	5-8
K	3710	0	5-8	5-8

UNFACTORED REACTIONS

1ST CASE	MAX/MIN. COMPONENT REACTIONS
JT COMBINED	SNOW LIVE PERM. LIVE WIND DEAD SOIL
U	5554 3728 / 0 0 / 0 0 / 0 1828 / 0 0 / 0
K	2815 1768 / 0 0 / 0 0 / 0 849 / 0 0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.14 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 LENGTH (L)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED LENGTH (L)	
FR-TO				FR-TO			
A-B	0 / 35	-91.8 -91.8 0.07 (1)	10.00	S-C	0 / 428	0.05 (1)	
B-C	-8031 / 0	-91.8 -91.8 0.51 (1)	3.14	M-H	0 / 134	0.02 (4)	
C-D	-9185 / 0	-91.8 -91.8 0.30 (1)	3.85	L-I	0 / 3411	0.30 (1)	
D-E	-10772 / 0	-91.8 -91.8 0.32 (1)	3.58	B-T	0 / 7148	0.63 (1)	
E-V	-10772 / 0	-91.8 -91.8 0.36 (1)	3.53	T-C	0 / 1764	0.16 (1)	
V-F	-10772 / 0	-91.8 -91.8 0.36 (1)	3.53	H-L	-1428 / 0	0.17 (1)	
F-G	-10772 / 0	-91.8 -91.8 0.36 (1)	3.53	N-H	0 / 5428	0.67 (1)	
G-H	-8408 / 0	-91.8 -91.8 0.27 (1)	4.02	C-R	0 / 3749	0.46 (1)	
H-I	-3832 / 0	-91.8 -91.8 0.28 (1)	4.60	N-Q	-2204 / 0	0.29 (1)	
I-J	0 / 35	-91.8 -91.8 0.07 (1)	10.00	R-D	-1890 / 0	0.22 (1)	
U-B	-7249 / 0	0.0 0.0 0.26 (1)	5.58	P-G	0 / 2789	0.35 (1)	
K-I	-3833 / 0	0.0 0.0 0.13 (1)	7.37	D-P	0 / 1896	0.23 (1)	
				P-E	-727 / 0	0.10 (1)	
U-W	0 / 0	-18.5 -18.5 0.10 (1)	10.00				
W-T	0 / 0	-18.5 -18.5 0.19 (1)	10.00				
T-S	0 / 5967	-18.5 -18.5 0.68 (1)	10.00				
S-R	0 / 5978	-18.5 -18.5 0.45 (1)	10.00				
R-Q	0 / 9185	-18.5 -18.5 0.93 (1)	10.00				
Q-X	0 / 9185	-18.5 -18.5 0.93 (1)	10.00				
X-P	0 / 9185	-18.5 -18.5 0.93 (1)	10.00				
P-Y	0 / 8408	-18.5 -18.5 0.84 (1)	10.00				
Y-Z	0 / 8408	-18.5 -18.5 0.84 (1)	10.00				
Z-O	0 / 8408	-18.5 -18.5 0.94 (1)	10.00				
O-N	0 / 8408	-18.5 -18.5 0.94 (1)	10.00				
N-M	0 / 3795	-18.5 -18.5 0.36 (1)	10.00				
M-L	0 / 3792	-18.5 -18.5 0.30 (1)	10.00				
L-K	0 / 0	-18.5 -18.5 0.05 (1)	10.00				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LOC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	18-11-4	-115	-115	---	FRONT	VERT	TOTAL	---	C1
P	18-11-4	-23	-23	---	FRONT	VERT	TOTAL	---	C1
T	2-9-8	-4435	-4435	---	BACK	VERT	TOTAL	---	C1
V	18-11-4	-115	-115	---	FRONT	VERT	TOTAL	---	C1
W	8-12	-583	-583	---	BACK	VERT	TOTAL	---	C1
X	15-8-8	-1259	-1259	---	FRONT	VERT	TOTAL	---	C1
Y	18-11-4	-23	-23	---	FRONT	VERT	TOTAL	---	C1
Z	20-10-8	-1008	-1008	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.8 PSF
DL = 8.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/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 BCBC 2018, CBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 088-14
- TPIC 2011, TPIC 2014

[55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD] EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.15")
CALCULATED VERT. DEFL.(LL) = U/999 (0.26")
ALLOWABLE DEFL.(TL) = L/360 (1.15")
CALCULATED VERT. DEFL.(TL) = U/881 (0.47")

CSI: TO=0.51/1.00 (B-C:1), BC=0.94/1.00 (N-P:1), WB=0.67/1.00 (H-N:1), SSI=0.38/1.00 (P-R:1)

DOL LUMBER=1.00 NAIL=1.00 LBS BENO=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 SECTION (PSI) (PLI) (PLG)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.90 (N) (INPUT = 0.80)

JSI METAL = 0.84 (Q) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408316	T35	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 10:05:28 2020 Page 2

ID:DMCubINVR6TsF0g31v6I zns11-uZWHe5uRp/PzQkOAUJw7MLzQ r3kRFsqxILdPzLa9L

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWW-p	MT20	6.0	9.0	Edge	
C	TTWWWW-m	MT20	8.0	9.0	2.50	3.50
D	TMWW-t	MT20	5.0	6.0		
E	TMWW-w	MT20	3.0	6.0		
F	TS-t	MT20	5.0	6.0		
G	TMWW-t	MT20	5.0	6.0		
H	TTWWWW-m	MT20	8.0	9.0	2.50	3.50
I	TMWW-p	MT20	6.0	9.0	Edge	
K	BMV1-t	MT20	6.0	9.0	Edge	0.50
L	BMWW-t	MT20	7.0	8.0	4.25	3.75
M	BMWW-w	MT20	3.0	6.0		
N	BMWW-t	MT20	5.0	8.0	2.50	3.75
O	BS-t	MT20	5.0	6.0		
P	BMWWWW-t	MT20	5.0	8.0		
Q	BS-t	MT20	5.0	6.0		
R	BMWW-t	MT20	5.0	8.0	2.50	3.75
S	BMWW-w	MT20	3.0	6.0		
T	BMWW-t	MT20	7.0	8.0	4.25	3.75
U	BMV1-t	MT20	6.0	9.0	5.50	

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

CONNECTION REQUIREMENTS

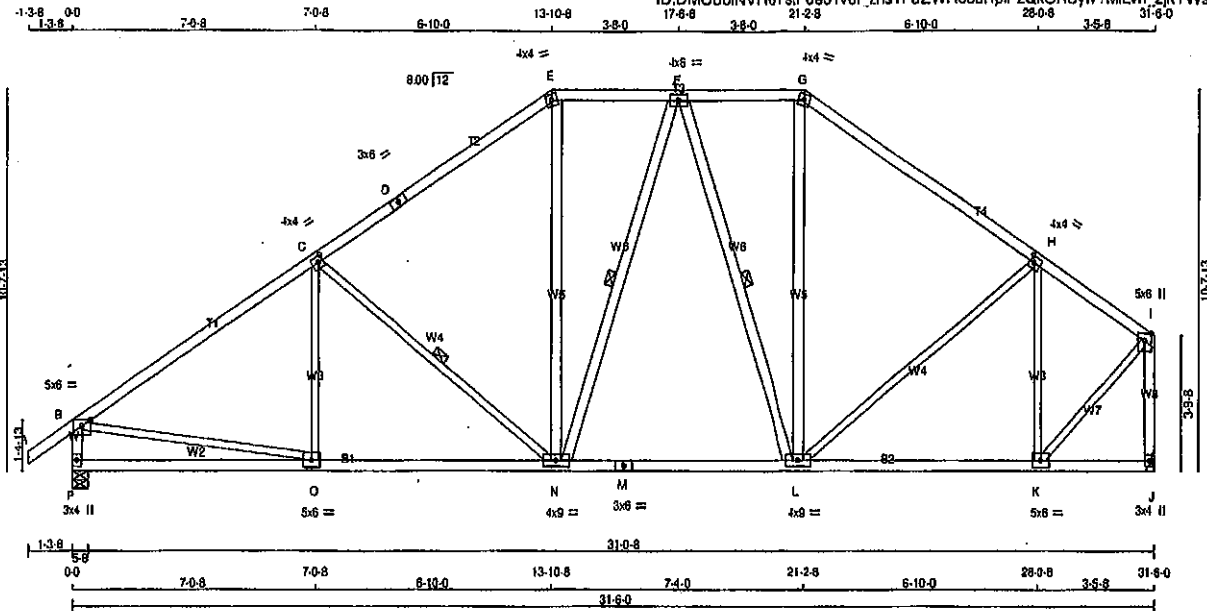
- 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



Structural component only
DWG# T-2008034 92

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408316	T36	6	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					

Version 8.310 S Oct 29 2019 Mtek Industries, Inc. Thu Apr 30 10:05:28 2020 Page 1
ID:DMCubINVR6TsF0e31v6I_zns1l-uZWHeSuRpiPzCkOAUyw?MLVh_zjKTVsqxLdPzLa9L



TOTAL WEIGHT = 6 X 164 = 984 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW-p	MT20	5.0	6.0	Edge	
C TMVW-l	MT20	4.0	4.0	2.00	1.50
D TS-l	MT20	3.0	6.0		
E TTW-m	MT20	4.0	4.0		
F TMVW-l	MT20	4.0	4.0		
G TTW-m	MT20	4.0	4.0		
H TMVW-l	MT20	4.0	4.0	2.00	1.50
I TMVW-p	MT20	5.0	6.0	Edge	
J BMVt+p	MT20	3.0	4.0		
K BMVW-l	MT20	5.0	6.0		
L BMVW-l	MT20	4.0	9.0		
M BS-l	MT20	3.0	6.0		
N BMVW-l	MT20	4.0	9.0		
O BMVW-l	MT20	5.0	6.0		
P BMVt+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	HORZ	UP/LIFT	IN-SX
P	1882	0	1882	0
J	1738	0	1738	0

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

UNFACTORED REACTIONS

JT	1ST LOASE	MAX/MIN	COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	
P	1315	878 / 0	0 / 0	0 / 0	0 / 0	439.0	0 / 0	
J	1228	808 / 0	0 / 0	0 / 0	0 / 0	422.0	0 / 0	

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

BRACING

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

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-N, P-N, F-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				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC1)	MAX. FACTORED VERT. LOAD (LC1)
FR-TO		FROM TO		FR-TO		FROM TO	
A-B	0 / 35	-91.8	-91.8 0.12 (1)	0-0	-128.72	0.07 (1)	
B-C	-2063 / 0	-91.8	-91.8 0.75 (1)	3-87	C-N	-581 / 0	0.33 (1)
C-D	-1812 / 0	-91.8	-91.8 0.67 (1)	4.38	N-E	0 / 503	0.08 (1)
D-E	-1812 / 0	-91.8	-91.8 0.67 (1)	4.38	N-F	-5 / 32	0.01 (4)
E-F	-1311 / 0	-91.8	-91.8 0.17 (1)	5.48	F-L	-420 / 0	0.27 (1)
F-G	-1177 / 0	-91.8	-91.8 0.16 (1)	5.71	L-G	0 / 393	0.08 (1)
G-H	-1442 / 0	-91.8	-91.8 0.58 (1)	4.73	L-H	0 / 220	0.05 (1)
H-I	-1142 / 0	-91.8	-91.8 0.43 (1)	5.38	K-H	-898 / 0	0.53 (1)
P-B	-1809 / 0	0.0	0.0 0.19 (1)	6.22	B-O	0 / 1772	0.40 (1)
J-I	-1719 / 0	0.0	0.0 0.41 (1)	6.35	K-I	0 / 1420	0.32 (1)
P-O	0 / 0	-18.5	-18.5 0.21 (4)	10.00			
O-N	0 / 1752	-18.5	-18.5 0.39 (1)	10.00			
N-M	0 / 1313	-18.5	-18.5 0.32 (1)	10.00			
M-L	0 / 1313	-18.5	-18.5 0.32 (1)	10.00			
L-K	0 / 1092	-18.5	-18.5 0.27 (4)	10.00			
K-J	0 / 0	-18.5	-18.5 0.13 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	25.6	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD		=	39.0	PSF

SPACING = 24.0 IN. OC

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCC 2010, OBC 2012, ARO 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = $L/360$ (1.05")
CALCULATED VERT. DEFL. (LL) = $L/999$ (0.07")
ALLOWABLE DEFL. (TL) = $L/360$ (1.05")
CALCULATED VERT. DEFL. (TL) = $L/999$ (0.14")

CSI: TC=0.75/1.00 (B-C:1), BC=0.39/1.00 (N-O:1), WB=0.53/1.00 (H-K:1), SS=0.28/1.00 (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)

MAX MIN MAX MIN MAX MIN
MT20 818 354 1687 788 1997 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (B) (INPUT = 0.90)
JSI METAL = 0.45 (I) (INPUT = 1.00)

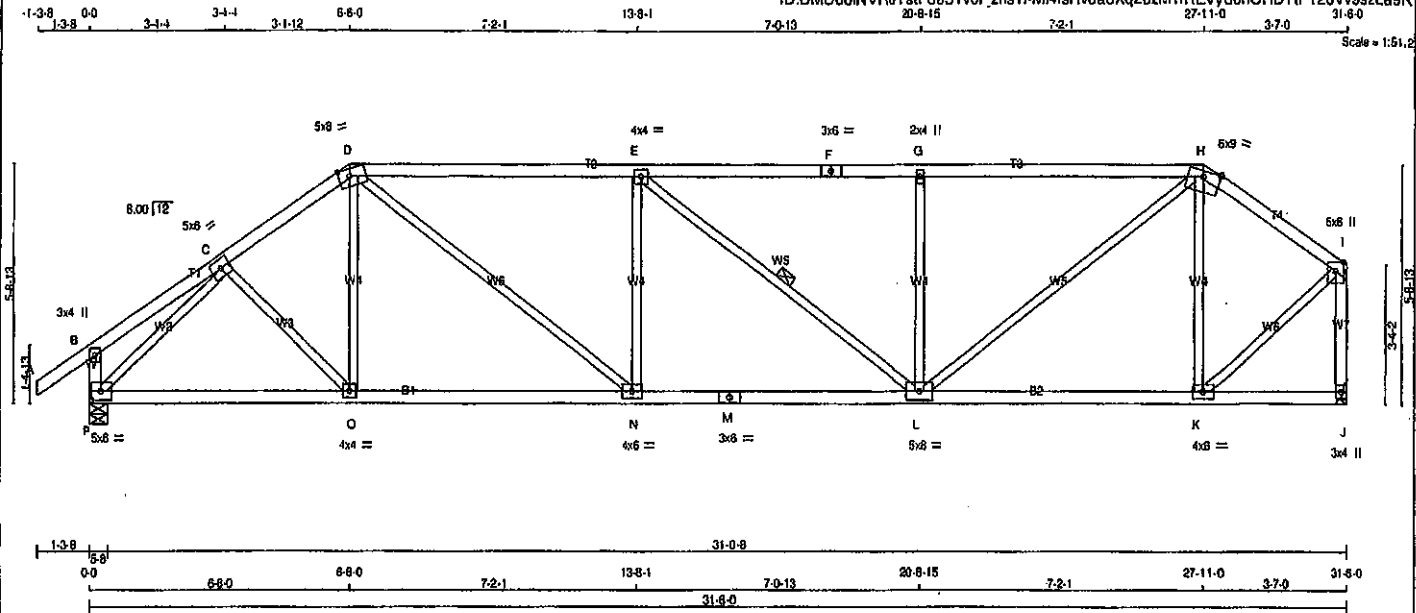


Structural component only
DWG# T-2008035

JOB NAME 408316	TRUSS NAME T37	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MTek Industries, Inc. Thu Apr 30 10:05:29 2020 Page 1
ID:DMCubINVR6TatFos31v6I_zns11-M4fsRv3a3Xq2uzM11REvyyu0hCHDTIP72bVv9szLa9K



TOTAL WEIGHT = 129 lb (M)

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)	W	LEN	Y	X
JT TYPE PLATES				
B TMW+p	MT20	3.0	4.0	
C TMWW-i	MT20	5.0	6.0	
D TTWW-m	MT20	5.0	8.0	2.00 3.25
E TMWW-i	MT20	4.0	4.0	
F TS-i	MT20	3.0	5.0	
G TMW+w	MT20	2.0	4.0	
H TTWW-m	MT20	6.0	9.0	Edge
I TMW+p	MT20	5.0	6.0	Edge
J BMV1+p	MT20	3.0	4.0	
K BMWW-i	MT20	4.0	6.0	
L BMWWW-i	MT20	5.0	8.0	
M BS-i	MT20	3.0	6.0	
N BMWW-i	MT20	4.0	6.0	
O BMWW-i	MT20	4.0	4.0	
P BMWW1-i	MT20	5.0	6.0	2.50 2.75

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	RECORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	DOWN	HORIZ	UPLIFT
P	1882	0	0	5-8
J	1738	0	0	MECHANICAL

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

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN	COMPONENT REACTIONS
JT COMBINED	SNOW	LIVE
P	1315	876 / 0
J	1228	808 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.25 FT.

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

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF 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	FACTORED	WEBS	FACTORED
MEMB.	FORCE (LBS)	MEMB.	FORCE (LBS)
FR-TO	FROM TO	FR-TO	FROM TO
A-B	0 / 35	C-O	0 / 136
B-C	0 / 16	D-N	0 / 97
C-D	-2023 / 0	E-L	0 / 1124
D-E	-2564 / 0	F-H	-551 / 0
E-F	-2355 / 0	G-I	-283 / 0
F-G	-2355 / 0	H-J	-711 / 0
G-H	-2355 / 0	I-K	0 / 1662
H-I	-1257 / 0	J-L	-799 / 0
I-J	-246 / 0	K-M	-2218 / 0
J-K	-1720 / 0	L-N	0 / 1350
K-L	0 / 1588	M-O	-18.5 / 0.37 (1)
L-M	0 / 1687	N-P	-18.5 / 0.38 (1)
M-N	0 / 2584	O-Q	-18.5 / 0.60 (1)
N-O	0 / 2664	P-R	-18.5 / 0.50 (1)
O-P	0 / 1029	Q-S	-18.5 / 0.27 (4)
P-Q	0 / 0	R-T	-18.5 / 0.14 (4)

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.8	PSF
DL	8.0	PSF
SOT CH.	LL = 0.0	PSF
DL	7.4	PSF
TOTAL LOAD	39.0	PSF

SPACING = 24.0 IN. CIC

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.05")
CALCULATED VERT. DEFL.(LL) = L/999 (0.12")
ALLOWABLE DEFL.(TL) = L/360 (1.05")
CALCULATED VERT. DEFL.(TL) = L/999 (0.26")

CSI: TC=0.99/1.00 (D-E:1), BC=0.50/1.00 (L-N:1),
WB=0.74/1.00 (C-P:1), SS=0.31/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

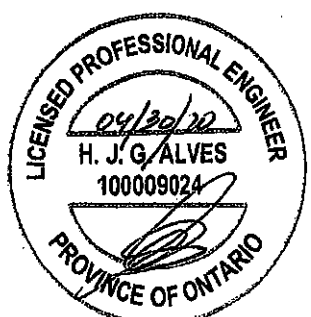
NAIL VALUES	PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
	MAX	MIN	MAX
MT20	618	354	1667
	788	1987	1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

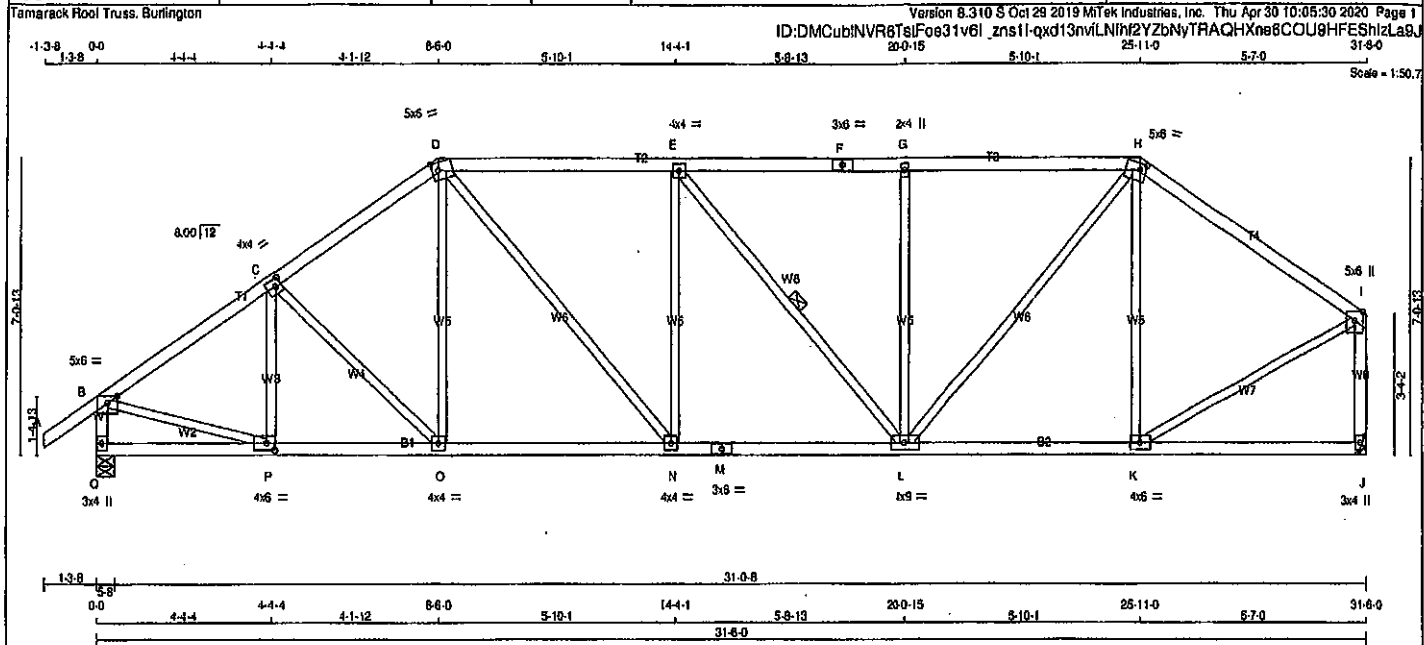
JSI GRIP= 0.90 (C) (INPUT = 0.90)

JSI METAL= 0.82 (M) (INPUT = 1.00)



Structural component only
DWG# T-2008036

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408316	T38	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 10:05:30 2020 Page 1			
		ID:DMCubINVR8TsIFoe31v6l_zns1l-qxd13nvlNlnH2YzBNyTRAQHxne8COU9HFESHlzLa9U			
		Scale = 1:50.7			



TOTAL WEIGHT = 139 lb (M)

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

DRY: SEASONED LUMBER.

PLATES (table in inches)	JT TYPE	PLATES	W	LEN	Y	X
B TMVW-p	MT20	5.0	6.0	Edge		
C TMVW-l	MT20	4.0	4.0	2.00	1.50	
D TTWW-m	MT20	5.0	6.0	2.25	1.75	
E TMVW-l	MT20	4.0	4.0			
F TS-l	MT20	3.0	6.0			
G TMVW-w	MT20	2.0	4.0			
H TTWW-m	MT20	5.0	6.0	1.75	1.75	
I TMVW-p	MT20	5.0	6.0	Edge		
J BMV1-p	MT20	3.0	4.0			
K BMVW-l	MT20	4.0	6.0			
L BMVW-l	MT20	4.0	6.0			
M BS-l	MT20	3.0	6.0			
N BMVW-l	MT20	4.0	4.0			
O BMVW-l	MT20	4.0	4.0			
P BMVW-l	MT20	4.0	6.0	2.00	2.25	
Q BMV1-p	MT20	3.0	4.0			

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

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	RECORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	UPLIFT	IN-SX
Q	1862	0	0	5-8
J	1736	0	0	MECHANICAL

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
Q	1315	878/0	0/0	0/0	0/0	439/0	0/0
J	1228	808/0	0/0	0/0	0/0	422/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.14 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-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				WEBS			
MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD	MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD
	(LBS)	(PLF)	LC1		(LBS)	(PLF)	LC1
FR-TO		FROM TO		FR-TO		FROM TO	
A-B	0/35	-91.8	-91.8	0.12 (1)	P-C	-342/0	0.09 (1)
B-C	-2003/0	-91.8	-91.8	0.35 (1)	C-O	-122/0	0.07 (1)
C-D	-1849/0	-91.8	-91.8	0.34 (1)	O-D	0/181	0.04 (4)
D-E	-2053/0	-91.8	-91.8	0.54 (1)	D-N	0/692	0.18 (1)
E-F	-1915/0	-91.8	-91.8	0.53 (1)	N-E	-414/0	0.36 (1)
F-G	-1915/0	-91.8	-91.8	0.53 (1)	E-L	-215/0	0.12 (1)
G-H	-1914/0	-91.8	-91.8	0.52 (1)	L-G	-576/0	0.50 (1)
H-I	-1442/0	-91.8	-91.8	0.60 (1)	I-H	0/1108	0.25 (1)
Q-B	-1825/0	0.0	0.0	0.19 (1)	K-H	-515/0	0.44 (1)
J-I	-1695/0	0.0	0.0	0.32 (1)	B-P	0/1738	0.39 (1)
					K-I	0/1357	0.31 (1)
Q-P	0/0	-18.5	-18.5	0.07 (4)			
P-O	0/1697	-18.5	-18.5	0.33 (1)			
O-N	0/1501	-18.5	-18.5	0.32 (1)			
N-M	0/2053	-18.5	-18.5	0.40 (1)			
M-L	0/2053	-18.5	-18.5	0.40 (1)			
L-K	0/1190	-18.5	-18.5	0.28 (1)			
K-J	0/0	-18.5	-18.5	0.15 (4)			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. GC

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.05")
CALCULATED VERT. DEFL.(LL) = L/999 (0.09")
ALLOWABLE DEFL.(TL) = L/360 (1.05")
CALCULATED VERT. DEFL.(TL) = L/999 (0.17")

CSI: TC=0.60/1.00 (H=1), BC=0.40/1.00 (L=N:1),
WB=0.50/1.00 (G=L:1), SS=0.25/1.00 (D=E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PS) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 818 354 1687 738 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.90 (B) (INPUT = 0.90)
JSI METAL = 0.59 (M) (INPUT = 1.00)

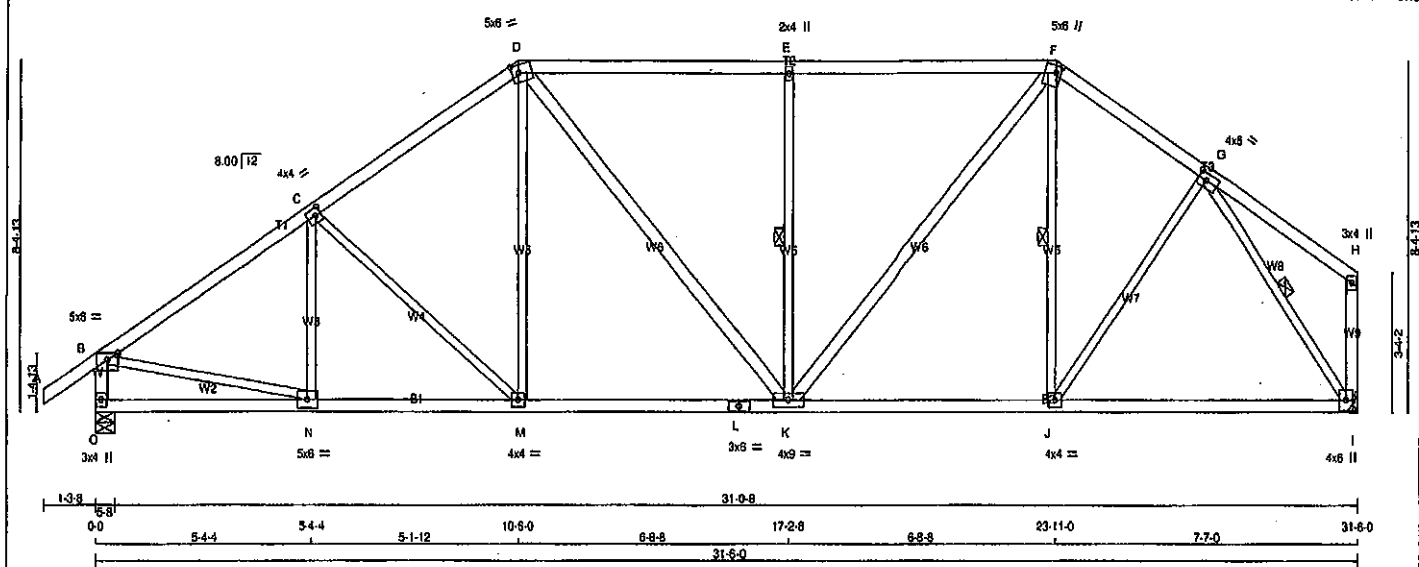


Structural component only
DWG# T-2008037

JOB NAME 408316	TRUSS NAME T39	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 10:05:31 2020 Page 1			

ID:DMCubINVR6Ts(Foe31v61_zns1H8BPH7wK6gnYHC7I94Ti_NzSNB7yxqIIWv_7DkzLa9)

Scale = 1:81.0



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT TYPE	PLATES	W	LEN	Y	X
B TMVW-p	MT20	5.0	6.0	Edge	
C TMVW-l	MT20	4.0	4.0	2.00	1.50
D TTWW-m	MT20	5.0	6.0	2.25	2.00
E TMVW-w	MT20	2.0	4.0		
F TTWW+m	MT20	5.0	6.0	2.00	1.50
G TMVW-l	MT20	4.0	6.0	2.00	2.50
H TMVW-p	MT20	3.0	4.0		
I BMVW1+p	MT20	4.0	6.0		
J BMVW1-l	MT20	4.0	4.0		
K BMVW1-t	MT20	4.0	9.0		
L BS-l	MT20	3.0	6.0		
M BMVW1-l	MT20	4.0	4.0		
N BMVW1-l	MT20	5.0	6.0		
O 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		RECORD	
JT	VERT	GROSS REACTION	HORZ	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
O	1862	0	1862	0	0	5.8	5.8		
I	1736	0	1736	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 LOOSE	MAX/MIN	COMPONENT REACTIONS	DEAD	SOIL
O	1315	876 / 0	0 / 0	0 / 0	0 / 0
I	1228	808 / 0	0 / 0	0 / 0	0 / 0

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

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-K, F-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)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FORCE (LBS)	MAX. CSI (LC)	
PR-TO		FROM	TO	FR-TO			
A-B	0 / 35	-91.8	-91.8 0.12 (1)	10.00	N-C	-250 / 0	0.09 (1)
B-C	-2050 / 0	-91.8	-91.8 0.40 (1)	4.36	C-M	-302 / 0	0.28 (1)
C-D	-1844 / 0	-91.8	-91.8 0.38 (1)	4.57	M-D	0 / 315	0.07 (1)
D-E	-1740 / 0	-91.8	-91.8 0.59 (1)	4.32	D-K	0 / 362	0.06 (1)
E-F	-1527 / 0	-91.8	-91.8 0.59 (1)	4.32	K-E	-758 / 0	0.34 (1)
F-G	-1527 / 0	-91.8	-91.8 0.19 (1)	5.15	K-F	0 / 771	0.12 (1)
G-H	0 / 22	-91.8	-91.8 0.21 (1)	10.00	J-F	-125 / 39	0.06 (1)
O-B	-1819 / 0	0.0	0.0 0.19 (1)	6.20	J-G	0 / 338	0.08 (1)
I-H	-136 / 0	0.0	0.0 0.03 (1)	7.81	B-N	0 / 1766	0.40 (1)
					G-I	-1870 / 0	0.57 (1)
O-N	0 / 0	-18.5	-18.5 0.11 (4)	10.00			
N-M	0 / 1731	-18.5	-18.5 0.36 (1)	10.00			
M-L	0 / 1510	-18.5	-18.5 0.32 (1)	10.00			
L-K	0 / 1510	-18.5	-18.5 0.32 (1)	10.00			
K-J	0 / 1249	-18.5	-18.5 0.35 (4)	10.00			
J-I	0 / 1057	-18.5	-18.5 0.33 (4)	10.00			

TOTAL WEIGHT = 148 lb [MIP]

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.8 PSF
DL = 8.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN./C

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

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

THIS DESIGN COMPLIES WITH:
- PART 8 OF CBC 2018, CBC 2012, ABC 2019
- PART 8 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.05")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL) = L/360 (1.05")
CALCULATED VERT. DEFL.(TL) = L/999 (0.15")

CSR: TC=0.59/1.00 (D-E:1), BC=0.38/1.00 (M-N:1),
WB=0.57/1.00 (G-I:1), SSI=0.30/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE LEFT 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
MT20	618	354	1687

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (B) (INPUT = 0.80)
JSI METAL= 0.48 (I) (INPUT = 1.00)



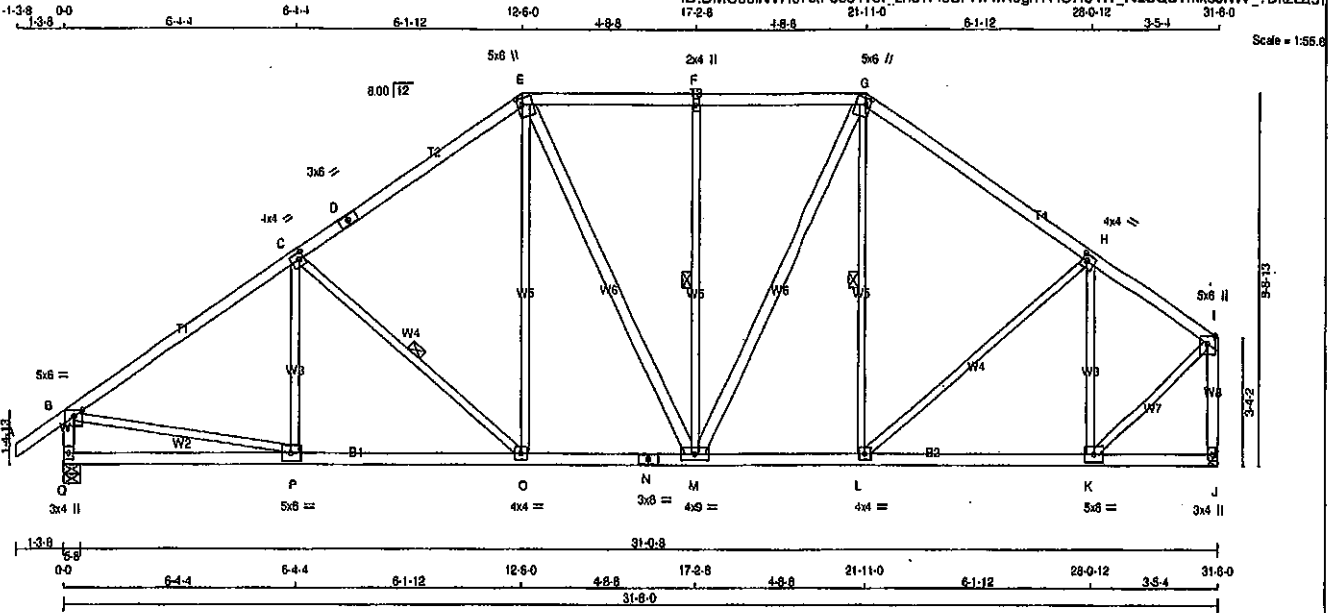
Structural component only
DWG# T-2008038

JOB NAME 408316	TRUSS NAME T40	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
--------------------	-------------------	---------------	----------	-------------------------------	----------

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MTek Industries, Inc. Thu Apr 30 10:05:31 2020 Page 1

ID:DMCubINVR6TsFoe31v6I_zns11-8BPH7wK6gnYHC7I94TI_NzSQB?mxs9IWv_?DkzLa9I



TOTAL WEIGHT = 158 lb

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF	
D - E	2x4	DRY	No.2	SPF	
E - G	2x4	DRY	No.2	SPF	
G - I	2x4	DRY	No.2	SPF	
I - J	2x4	DRY	No.2	SPF	
J - K	2x4	DRY	No.2	SPF	
K - L	2x4	DRY	No.2	SPF	
L - M	2x4	DRY	No.2	SPF	
M - N	2x4	DRY	No.2	SPF	
N - J	2x4	DRY	No.2	SPF	
ALL WEBS	2x3	DRY	No.2	SPF	
EXCEPT					
E - M	2x4	DRY	No.2	SPF	
M - G	2x4	DRY	No.2	SPF	
DRY: SEASONED LUMBER.					

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
B TMVW-p	MT20	5.0	6.0	Edge		
D TMVW-i	MT20	4.0	4.0	2.00	1.50	
C TS-i	MT20	3.0	8.0			
E TTVW+m	MT20	5.0	8.0	2.00	1.50	
F TMVW-w	MT20	2.0	4.0			
G TTVW+m	MT20	5.0	8.0	2.00	1.50	
H TMVW-i	MT20	4.0	4.0	2.00	1.50	
I TMVW-p	MT20	5.0	8.0	Edge		
J BMV1-p	MT20	3.0	4.0			
K BMVW-i	MT20	5.0	6.0			
L BMVW-i	MT20	4.0	4.0			
M BMVW-w	MT20	4.0	9.0			
N BS-i	MT20	3.0	6.0			
O BMVW-i	MT20	4.0	4.0			
P BMVW-i	MT20	5.0	8.0			
Q BMV1-p	MT20	3.0	4.0			

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

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT VERT	HORZ	DOWN	HORZ	UPLIFT
Q	1862	0	1862	0
J	1738	0	1738	0
A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT J. MINIMUM BEARING LENGTH AT JOINT J = 3.8.				

UNFACTORED REACTIONS

1ST CASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
JT COMBINED						
Q	1315	876 / 0	0 / 0	0 / 0	439 / 0	0 / 0
J	1228	806 / 0	0 / 0	0 / 0	422 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.11 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-C, F-M, G-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 HORIZ. LOAD (PLF)	MAX. FACTORED UNBRACED LENGTH (FT)	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORIZ. LOAD (PLF)
FR-TO						FR-TO			
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00	P-C	-189 / 49	0.03 (1)	
B-C	-2088 / 0	-91.8	-91.8	0.53 (1)	4.11	C-O	-474 / 0	0.22 (1)	
C-D	-1711 / 0	-91.8	-91.8	0.53 (1)	4.49	O-E	0 / 410	0.09 (1)	
D-E	-1711 / 0	-91.8	-91.8	0.53 (1)	4.49	E-M	0 / 155	0.02 (1)	
E-F	-1463 / 0	-91.8	-91.8	0.28 (1)	5.11	M-F	-525 / 0	0.33 (1)	
F-G	-1463 / 0	-91.8	-91.8	0.28 (1)	5.11	G-H	0 / 513	0.08 (1)	
G-H	-1514 / 0	-91.8	-91.8	0.46 (1)	4.82	H-I	-33 / 66	0.02 (4)	
H-I	-1232 / 0	-91.8	-91.8	0.35 (1)	5.35	I-H	0 / 219	0.05 (1)	
I-J	-1814 / 0	0.0	0.0	0.19 (1)	6.21	K-H	-839 / 0	0.41 (1)	
J-I	-1717 / 0	0.0	0.0	0.33 (1)	6.35	H-P	0 / 1776	0.40 (1)	
						K-I	0 / 1422	0.32 (1)	
Q-P	0 / 0	-18.5	-18.5	0.18 (4)	10.00				
P-O	0 / 1751	-18.5	-18.5	0.37 (1)	10.00				
O-N	0 / 1394	-18.5	-18.5	0.26 (1)	10.00				
N-M	0 / 1394	-18.5	-18.5	0.26 (1)	10.00				
M-L	0 / 1234	-18.5	-18.5	0.27 (1)	10.00				
L-K	0 / 1068	-18.5	-18.5	0.24 (1)	10.00				
K-J	0 / 0	-18.5	-18.5	0.11 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 240 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, NBC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.05')
CALCULATED VERT. DEFL.(LL) = L/999 (0.07')
ALLOWABLE DEFL.(TL) = L/360 (1.05')
CALCULATED VERT. DEFL.(TL) = L/999 (0.13')

CS: TC=0.59/1.00 (B-C:1), BC=0.37/1.00 (O-P:1), WB=0.41/1.00 (H-K:1), SS=0.23/1.00 (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

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 763 1987 1658

PLATE PLACEMENT TOL. = 0.250 Inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (E) (INPUT = 0.90)
JSI METAL= 0.49 (I) (INPUT = 1.00)

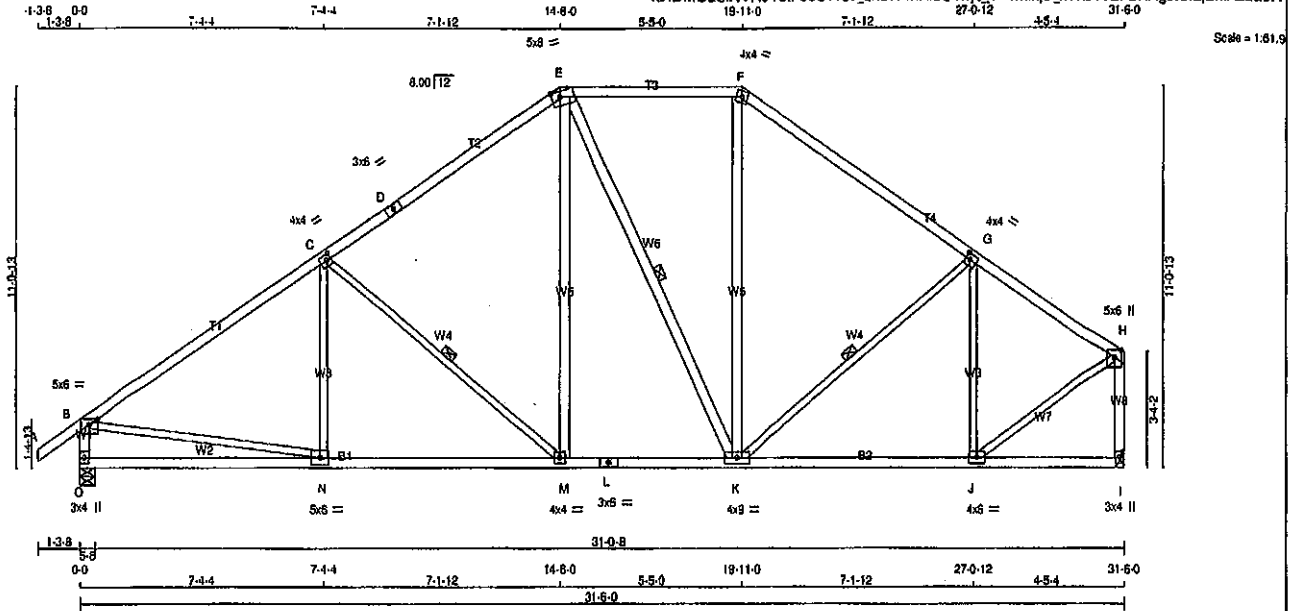


Structural component only
DWG# T-2008039

JOB NAME 408316	TRUSS NAME T41	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Version 8.310 S Oct 28 2019 MTEK Industries, Inc. Thu Apr 30 10:05:32 2020 Page 1

ID:DMCubNVR6TstFos31v6l_zns1l-mkloUTxt_vPvMxjo_xWbVWaPbKKgJISIZiZmAzLa9H



TOTAL WEIGHT = 155 lb (M/F)

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

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

FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
GROSS REACTION	SNOW	GROSS REACTION	SNOW	BRG	BRG	IN-SX	IN-SX
JT	1315	0	0	0	0	5.8	5.8
O	1882	0	0	0	0	MECHANICAL	MECHANICAL
I	1738	0	0	0	0		

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

UNFACTORED REACTIONS

1ST CASE	MAX. MIN. COMPONENT REACTIONS	1ST CASE	MAX. MIN. COMPONENT REACTIONS
JT	1315	SNOW	0
O	1882	SNOW	0
I	1738	SNOW	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.72 FT.

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

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-M, E-K, G-K.

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

LOADING

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX	MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX
FR-TO		FROM TO		FR-TO		FROM TO	
A-B	0 / 35	-81.8	-81.8 0.12 (1)	10.00	N-C	-102 / 39	0.07 (1)
B-C	-2080 / 0	-81.8	-81.8 0.83 (1)	3.72	C-M	-834 / 0	0.40 (1)
C-D	-1583 / 0	-81.8	-81.8 0.73 (1)	4.28	M-E	0 / 508	0.08 (1)
D-E	-1583 / 0	-81.8	-81.8 0.73 (1)	4.28	E-K	-178 / 0	0.14 (1)
E-F	-1191 / 0	-81.8	-81.8 0.37 (1)	5.41	K-F	0 / 279	0.04 (1)
F-G	-1482 / 0	-81.8	-81.8 0.84 (1)	4.60	G-K	-5 / 7	0.00 (1)
G-H	-1378 / 0	-81.8	-81.8 0.49 (1)	4.91	J-G	-889 / 0	0.44 (1)
H-I	-1807 / 0	0.0	0.0 0.19 (1)	8.22	B-N	0 / 1770	0.40 (1)
I-H	-1710 / 0	0.0	0.0 0.32 (1)	6.36	J-H	0 / 1441	0.32 (1)
O-N	0 / 0	-18.5	-18.5 0.25 (4)	10.00			
N-M	0 / 1751	-18.5	-18.5 0.41 (1)	10.00			
M-L	0 / 1268	-18.5	-18.5 0.29 (1)	10.00			
L-K	0 / 1268	-18.5	-18.5 0.29 (1)	10.00			
K-J	0 / 1191	-18.5	-18.5 0.28 (1)	10.00			
J-I	0 / 0	-18.5	-18.5 0.16 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 8.0 PSF
ROT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. CG

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBCC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(85% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.05")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL) = L/360 (1.05")
CALCULATED VERT. DEFL.(TL) = L/999 (0.16")

CS: TC=0.83/1.00 (8-C:1), BC=0.41/1.00 (M-N:1), WB=0.44/1.00 (G-J:1), SS=0.27/1.00 (8-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

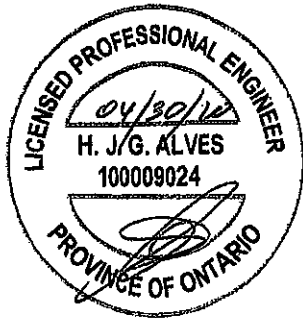
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (B) (INPUT = 0.90)
JSI METAL = 0.55 (H) (INPUT = 1.00)



Structural component only
DWG# T-2008040

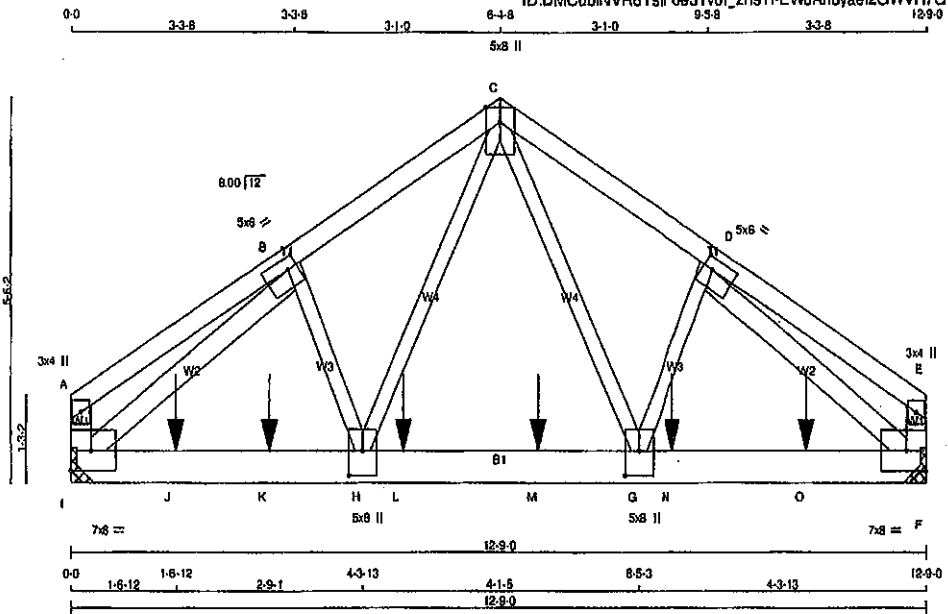
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408316	T42	1	2	GREEN PARK HOMES		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MTek Industries, Inc. Thu Apr 30 10:35:33 2020 Page 1

ID:DMCubINVR6TsIFoe31v8I_zns1I-EWJAhoyael2GWVH7GVVA3o2uN7bqPh8bZDT6ldzLa9G

Scale = 1:30.5



TOTAL WEIGHT = 2 X 64 = 128 lb

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	DRY	LUMBER	DESCR.
A - C	2x4	DRY	No. 2	SPF		
C - E	2x4	DRY	No. 2	SPF		
I - A	2x4	DRY	No. 2	SPF		
F - E	2x4	DRY	No. 2	SPF		
I - F	2x8	DRY	1650F 1.5E	SPF		
ALL WEBS EXCEPT	2x3	DRY	No. 2	SPF		
I - B	2x4	DRY	No. 2	SPF		
D - F	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 1	12	TOP
C - E 1	12	TOP
I - A 1	12	TOP
F - E 1	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
I - F 2	12	SIDE (0.0)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3 1	6	
2x4 1	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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.

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
I	6128	0	6128	0
F	5588	0	5588	0

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT I.F. MINIMUM BEARING LENGTH AT JOINT I = 4.0, JOINT F = 4.0.

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
I	4327	2870 / 0	0 / 0	0 / 0	0 / 0	0 / 0	1457 / 0	0 / 0
F	3947	2618 / 0	0 / 0	0 / 0	0 / 0	0 / 0	1329 / 0	0 / 0

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.70 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS	MAX. FACTORED	FORCE (LBS)	VERT. LOAD	LO1	MAX	MAX. FACTORED	CS1 (LC)	UNBRAC	MEMB.	WEBS	MAX. FACTORED	FORCE (LBS)	MAX	MAX. FACTORED	CS1 (LC)
FR-TO										FR-TO						
A-B	-3 / 1	-91.8	-91.8	0.08 (1)	10.00	C-G	0 / 3327	0.41 (1)								
B-C	-6393 / 0	-91.8	-91.8	0.24 (1)	3.70	G-D	0 / 857	0.11 (1)								
C-D	-6154 / 0	-91.8	-91.8	0.22 (1)	3.78	H-C	0 / 3882	0.48 (1)								
D-E	-2 / 3	-91.8	-91.8	0.08 (1)	10.00	B-H	0 / 903	0.11 (1)								
I-A	-142 / 0	0.0	0.0	0.01 (1)	7.81	I-B	-8939 / 0	0.78 (1)								
F-E	-138 / 0	0.0	0.0	0.01 (1)	7.81	D-F	-8588 / 0	0.73 (1)								
I-J	0 / 4984	-18.5	-18.5	0.71 (1)	10.00											
J-K	0 / 4984	-18.5	-18.5	0.71 (1)	10.00											
K-H	0 / 4984	-18.5	-18.5	0.71 (1)	10.00											
H-L	0 / 3876	-18.5	-18.5	0.58 (1)	10.00											
L-M	0 / 3876	-18.5	-18.5	0.58 (1)	10.00											
M-G	0 / 3876	-18.5	-18.5	0.58 (1)	10.00											
G-N	0 / 4802	-18.5	-18.5	0.82 (1)	10.00											
N-O	0 / 4802	-18.5	-18.5	0.82 (1)	10.00											
O-F	0 / 4802	-18.5	-18.5	0.82 (1)	10.00											

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
J	1-6-12	-1718	-1718	---	FRONT	VERT	TOTAL	---	C1
K	2-11-4	-1718	-1718	---	FRONT	VERT	TOTAL	---	C1
L	4-11-4	-1718	-1718	---	FRONT	VERT	TOTAL	---	C1
M	6-11-4	-1718	-1718	---	FRONT	VERT	TOTAL	---	C1
N	8-11-4	-1718	-1718	---	FRONT	VERT	TOTAL	---	C1
O	10-11-4	-1718	-1718	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.8 PSF
DL = 8.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. O/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, NBC 2012, ABC 2019
- PART 9 OF NBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.43")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (0.43")
CALCULATED VERT. DEFL.(TL) = L/999 (0.12")

CSI: TC=0.24/1.00 (B-C:1), BC=0.71/1.00 (H-I:1), WB=0.78/1.00 (B-I:1), SSI=0.88/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.87 (B) (INPUT = 0.80)
JSI METAL = 0.82 (B) (INPUT = 1.00)



Structural component only
DWG# T-2008041 1/2

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DWG NO.
408316	T42	1	2	TRUSS DESC.		

Tamarack Roof Truss, Burlington

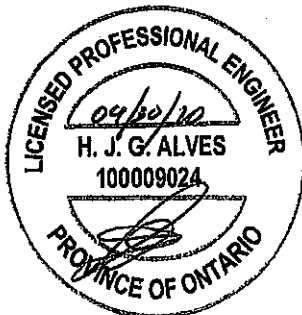
Version 8.310 S Oct 29 2019 MTek Industries, Inc. Thu Apr 30 10:05:33 2020 Page 2

ID:DMCubINVR6T9iFoe31v6I_zps11-EWJAhoYaeI2GWH7GVVA3o2uN?bgPh8bzDT8dzLa9G

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A	TMV+p	MT20	3.0	4.0		
B	TMWW-t	MT20	5.0	8.0	2.00	1.75
C	TTWW+p	MT20	5.0	8.0	Edge	
D	TMWW-t	MT20	5.0	8.0	2.00	1.75
E	TMV+p	MT20	3.0	4.0		
F	BMVW1-t	MT20	7.0	8.0	Edge	
G	BMWW-t	MT20	5.0	8.0	4.25	2.50
H	BMWW-t	MT20	5.0	8.0	4.25	2.50
I	BMVW1-t	MT20	7.0	8.0	Edge	

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



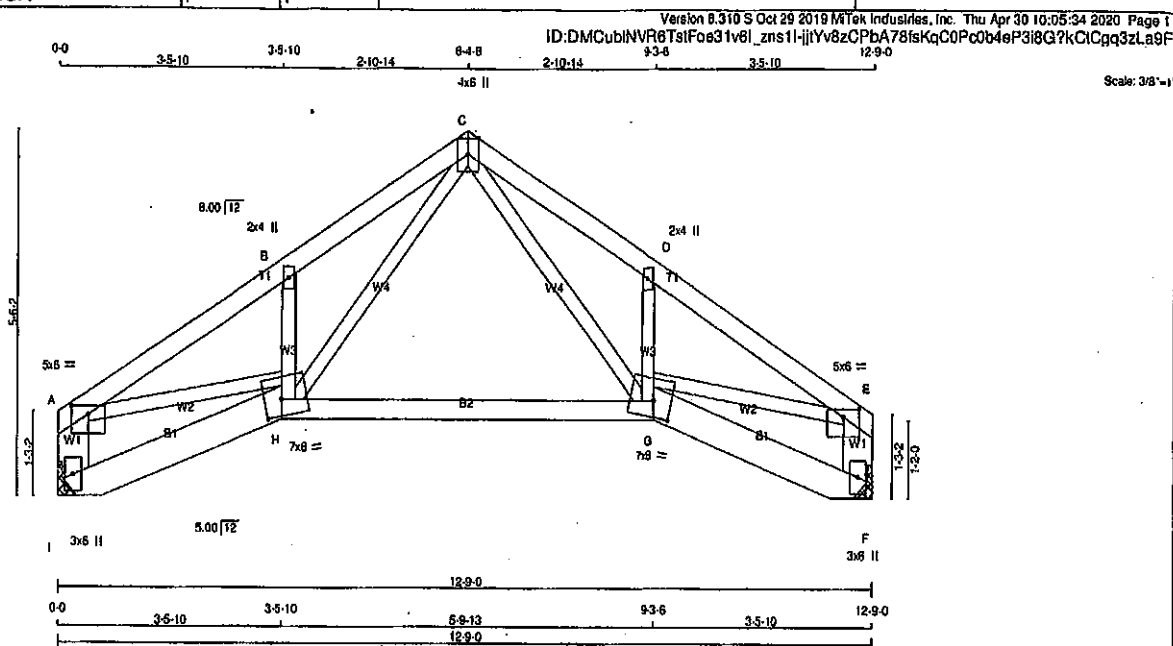
Structural component only
DWG# T-2008041 3/2



JSI GRIP= 0.88 (A) (INPUT = 0.90)
JSI METAL= 0.28 (A) (INPUT = 1.00)



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ORWG NO.
408316	T43SX	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.		Version 8.310 S Oct 29 2019 MTek Industries, Inc. Thu Apr 30 10:05:34 2020 Page 1	



LUMBER				DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	
A - C	2x4	DRY	No.2	SPF
C - E	2x4	DRY	No.2	SPF
I - A	2x6	DRY	No.2	SPF
F - E	2x6	DRY	No.2	SPF
I - H	2x6	DRY	No.2	SPF
H - G	2x4	DRY	No.2	SPF
G - F	2x6	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	8.0	1.50	3.00
B	TMW-w	MT20	2.0	4.0		
C	TTWW-p	MT20	4.0	8.0	Edge	
D	TMW-w	MT20	2.0	4.0		
E	TMVW-p	MT20	5.0	8.0	1.50	3.00
F	BMV1-p	MT20	3.0	8.0		
G	BBWWW-m	MT20	7.0	8.0	3.00	3.25
H	BBWWW-m	MT20	7.0	8.0	3.00	3.25
I	BMV1-p	MT20	3.0	8.0		

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

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
I	703	0	703	0
F	703	0	703	0

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

JT	1ST CASE	MAX/MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
I	487	328 / 0	0 / 0	0 / 0	0 / 0	171 / 0	0 / 0
F	487	328 / 0	0 / 0	0 / 0	0 / 0	171 / 0	0 / 0

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.89 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 (PL)	MAX. CS (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS (LC)	
FR-TO		FROM	TO	FR-TO			
A-B	-1084 / 0	-91.8	-91.8 0.14 (1)	5.82	G-G	0 / 631	0.14 (1)
B-C	-1119 / 0	-91.8	-91.8 0.11 (1)	5.89	G-D	-351 / 0	0.08 (1)
C-D	-1119 / 0	-91.8	-91.8 0.11 (1)	5.89	H-C	0 / 631	0.14 (1)
D-E	-1084 / 0	-91.8	-91.8 0.14 (1)	5.82	H-B	-351 / 0	0.08 (1)
I-A	-871 / 0	0.0	0.0 0.04 (1)	7.81	A-H	0 / 916	0.21 (1)
F-E	-871 / 0	0.0	0.0 0.04 (1)	7.81	G-E	0 / 916	0.21 (1)
I-H	0 / 0	-18.5	-18.5 0.03 (4)	10.00			
H-G	0 / 544	-18.5	-18.5 0.23 (4)	10.00			
G-F	0 / 0	-18.5	-18.5 0.03 (4)	10.00			

TOTAL WEIGHT = 57 lb (M/F)

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 8.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.43")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL) = L/360 (0.43")
CALCULATED VERT. DEFL.(TL) = L/999 (0.10")

CSI: TC=0.14/1.00 (A-B:1), BC=0.23/1.00 (G-H:4), WB=0.21/1.00 (A-H:1), SS=0.12/1.00 (A-B: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)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

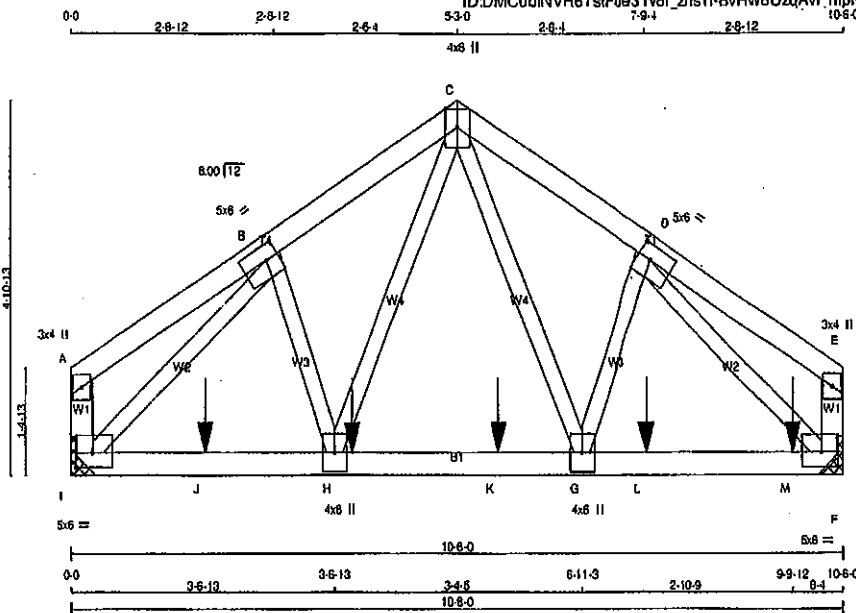
JSI GRIP = 0.50 (E) (INPUT = 0.90)
JSI METAL = 0.22 (E) (INPUT = 1.00)



Structural component only
DWG# T-2008043

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408316	T44	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 3 Oct 29 2019 MTK Industries, Inc. Thu Apr 30 10:05:35 2020 Page 1
ID:DMCubINVR6TsiF0a31v6l_zns1l-BvRw6UzqAvl_mprWOWYe8D7FSoGwtcMuRXYDMVzLa8E



TOTAL WEIGHT = 2 X 47 = 93 lb

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

EXCEPT

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - C	12	TOP
C - E	12	TOP
E - G	12	TOP
G - I	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
J - H	12	SIDE (0.0)
H - K	12	SIDE (0.0)
K - L	12	SIDE (0.0)
L - M	12	SIDE (0.0)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table in inches)	JT TYPE	PLATES	W	LEN	Y	X
A	TMV+p	MT20	3.0	4.0		
B	TMVW-1	MT20	5.0	6.0	2.25	2.00

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ
I	4453	0	4453	0
F	5297	0	5297	0

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

UNFACTORED REACTIONS

1ST CASE	MAX MIN. COMPONENT REACTIONS
JT	COMBINED
I	3145
F	3742

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.

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED MAX. CS1 (LC)	MAX. UNBRACED LENGTH	WEBS	MAX. FACTORED FORCE (LBS)	FACTORED MAX. CS1 (LC)
FR-TO					FR-TO		
A - B	-570	-91.8	-91.8	0.07 (1)	10.00	C - G	0 / 2469
B - C	-4431 / 0	-91.8	-91.8	0.14 (1)	4.45	G - D	0 / 1006
C - D	-4422 / 0	-91.8	-91.8	0.14 (1)	4.45	H - C	0 / 2481
D - E	-570	-91.8	-91.8	0.07 (1)	10.00	S - H	0 / 1009
I - A	-128 / 0	0.0	0.0	0.01 (1)	7.81	I - B	-4953 / 0
F - E	-127 / 0	0.0	0.0	0.01 (1)	7.81	D - F	-4943 / 0
I - J	0 / 3361	-18.5	-18.5	0.74 (1)	10.00		
J - H	0 / 3361	-18.5	-18.5	0.74 (1)	10.00		
H - K	0 / 2833	-18.5	-18.5	0.68 (1)	10.00		
K - G	0 / 2833	-18.5	-18.5	0.68 (1)	10.00		
G - L	0 / 3354	-18.5	-18.5	0.68 (1)	10.00		
L - M	0 / 3354	-18.5	-18.5	0.68 (1)	10.00		
M - F	0 / 3354	-18.5	-18.5	0.68 (1)	10.00		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
H	3-9-12	-1718	-1718	---	FRONT	VERT	TOTAL	C1
J	1-9-12	-1718	-1718	---	FRONT	VERT	TOTAL	C1
K	5-9-12	-1718	-1718	---	FRONT	VERT	TOTAL	C1
L	7-9-12	-1718	-1718	---	FRONT	VERT	TOTAL	C1
M	9-9-12	-1721	-1721	---	FRONT	VERT	TOTAL	C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	25.6	PSF
	DL	=	8.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD		=	39.0	PSF

SPACING = 24.0 IN. OC

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBC 2010, NBC 2012, ABC 2019
- PART 9 OF NBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.35")
CALCULATED VERT. DEFL. (LL) = L/999 (0.08")
ALLOWABLE DEFL. (TL) = L/360 (0.35")
CALCULATED VERT. DEFL. (TL) = L/999 (0.12")

CSI: TC=0.14/1.00 (B-C:1), BC=0.74/1.00 (H-I:1), WB=0.65/1.00 (B-I:1), SSI=0.84/1.00 (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.90 (D) (INPUT = 0.90)
JSI METAL = 0.57 (B) (INPUT = 1.00)



Structural component only
DWG# T-2008044 1/2

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408316	T44	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRAUSS DESC.			

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 10:05:35 2020 Page 2

ID:DMCubINVR8TsFes31v8I_zns1I-BvRw6UzqAvl_mprWOWYe8D7FSqGwicMuRXyDMVzLa9E

PLATES (Table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
C	TTWW+p	MT20	4.0	6.0	Edge	
D	TMWW-I	MT20	5.0	6.0	2.25	2.00
E	TMV+p	MT20	3.0	4.0		
F	BMVW1-I	MT20	5.0	6.0	2.25	2.75
G	BMVW+I	MT20	4.0	6.0		
H	BMVW+I	MT20	4.0	6.0		
I	BMVW1-I	MT20	5.0	6.0	2.25	2.75

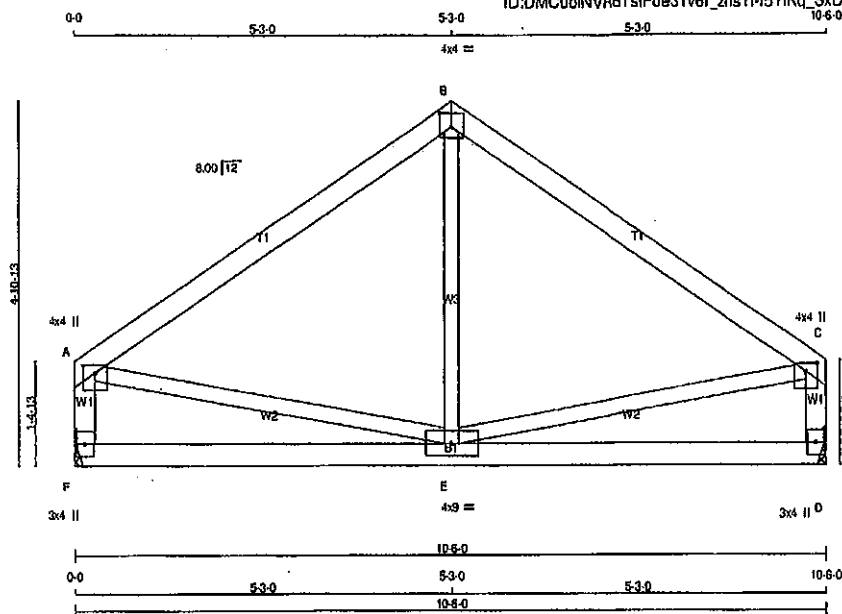
Edge - INDICATES REFERENCE CORNER OF PLATE
TOUCHES EDGE OF CHORD.



Structural component only
DWG# T-2008044 *ye*

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408316	T45	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 MTEK Industries, Inc. Thu Apr 30 10:05:36 2020 Page 1
ID:DMCubINVR8TslFoe31v8l_zns1l-157IKq_SxQQNz7lyd3thRqNFCIRcCU1fBhmvyzLa9D



Scale = 1:28.6

TOTAL WEIGHT = 41 lb

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

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

<u>PLATES (table is in inches)</u>							
JT	TYPE	PLATES	W	LEN	Y	X	
A	TMW+p	MT20	4.0	4.0	1.25	2.00	
B	TTW-p	MT20	4.0	4.0	2.25	2.00	
C	TMW+p	MT20	4.0	4.0	1.25	2.00	
D	BMV1+p	MT20	3.0	4.0			
E	6MWVW-t	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	MAXIMUM FACTORED	INPUT	REQD
GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT	HORZ	DOWN	HORZ
F	579	0	579
D	579	0	579

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

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
JT COMBINED							
F	409	289 / 0	0 / 0	0 / 0	0 / 0	141 / 0	0 / 0
D	409	289 / 0	0 / 0	0 / 0	0 / 0	141 / 0	0 / 0

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MAX. UNBRACED LENGTH FR-TO	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO									
A-B	-414 / 0	-91.8	-91.8	0.33 (1)	6.25	E-B	-22 / 82	0.03 (4)	
B-C	-414 / 0	-91.8	-91.8	0.33 (1)	6.25	A-E	0 / 352	0.08 (1)	
F-A	-541 / 0	0.0	0.0	0.05 (1)	7.81	E-C	0 / 352	0.08 (1)	
D-C	-541 / 0	0.0	0.0	0.05 (1)	7.81				
F-E	0 / 0	-18.5	-18.5	0.14 (4)	10.00				
E-D	0 / 0	-18.5	-18.5	0.14 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.6	PSF
	DL = 6.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.4	PSF
TOTAL LOAD	= 39.0	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 BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-08, CSA 086-14
- TPIG 2011, TPIG 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = $L/360$ (0.35")
CALCULATED VERT. DEFL. (LL) = $L/989$ (0.00")
ALLOWABLE DEFL. (TL) = $L/360$ (0.35")
CALCULATED VERT. DEFL. (TL) = $L/899$ (0.02")

CSI: TC=0.33/1.00 (B-C:1), BC=0.14/1.00 (E-F:4), WB=0.08/1.00 (A-E: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
	(PSI)	(PLI)	(PLI)
	MAX	MIN	MAX
MT20	618	354	1687

PLATE PLACEMENT TOL. = 0.250 inches

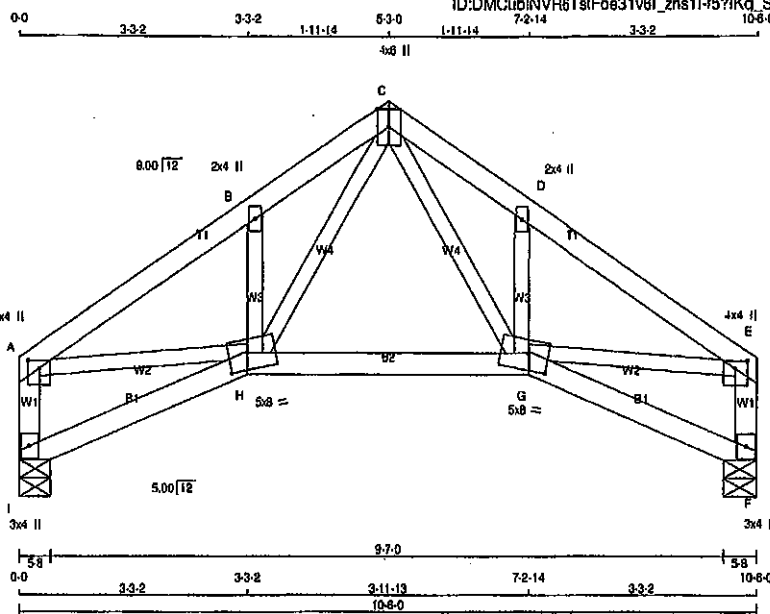
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.43 (C) (INPUT = 0.90)
JSI METAL= 0.13 (C) (INPUT = 1.00)



Structural component only
DWG# T-2008045

JOB NAME 408316	TRUSS NAME T45S	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		Version 8.310 S Oct 29 2019 MTech Industries, Inc. Thu Apr 30 10:05:38 2020 Page 1			



Scale = 1:28.1

LUMBER			
N.L.G.A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
I - A	2x4	DRY	No.2
F - E	2x4	DRY	No.2
I - H	2x4	DRY	No.2
H - G	2x4	DRY	No.2
G - F	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
A	TMVW+p	MT20	4.0	4.0	1.25	2.00
B	TMW+w	MT20	2.0	4.0		
C	TTWW+p	MT20	4.0	6.0	Edge	
D	TMW+w	MT20	2.0	4.0		
E	TMVW+p	MT20	4.0	4.0	1.25	2.00
F	BMV1+p	MT20	3.0	4.0		
G	BBWW-w	MT20	5.0	8.0	2.75	3.25
H	BBWW-w	MT20	5.0	8.0	2.75	3.25
I	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	HORZ	DOWN	HORZ
I	579	0	579	0
F	579	0	579	0

UNFACTORED REACTIONS

JT	1ST LOSE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
I	409	289 / 0	0 / 0	0 / 0	0 / 0	0 / 0	141 / 0	0 / 0
F	409	289 / 0	0 / 0	0 / 0	0 / 0	0 / 0	141 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LG1 MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LG1 MAX. CSI (LC)	UNBRACED LENGTH
FR-TO				FR-TO			
A-B	-778 / 0	-91.8	-91.8 0.12 (1)	8.25	C-G	0 / 448	0.10 (1)
B-C	-813 / 0	-91.8	-91.8 0.08 (1)	8.25	G-D	-299 / 0	0.05 (1)
C-D	-813 / 0	-91.8	-91.8 0.08 (1)	8.25	H-C	0 / 448	0.10 (1)
D-E	-778 / 0	-91.8	-91.8 0.12 (1)	8.25	H-B	-299 / 0	0.05 (1)
I-A	-549 / 0	0.0	0.0 0.06 (1)	7.61	A-H	0 / 657	0.15 (1)
F-E	-549 / 0	0.0	0.0 0.06 (1)	7.61	G-E	0 / 657	0.15 (1)
I-H	0 / 0	-18.5	-18.5 0.06 (4)	10.00			
H-G	0 / 435	-18.5	-18.5 0.12 (4)	10.00			
G-F	0 / 0	-18.5	-18.5 0.06 (4)	10.00			

TOTAL WEIGHT = 44 lb (M/F)

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 8.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 38.0 PSF

SPACING = 24.0 IN./C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/380 (0.35")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/380 (0.35")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.12/1.00 (D-E:1), BC=0.12/1.00 (G-H:4), WB=0.15/1.00 (A-H:1), SI=0.11/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PS) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1937 1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (A) (INPUT = 0.90)
JSI METAL= 0.20 (A) (INPUT = 1.00)



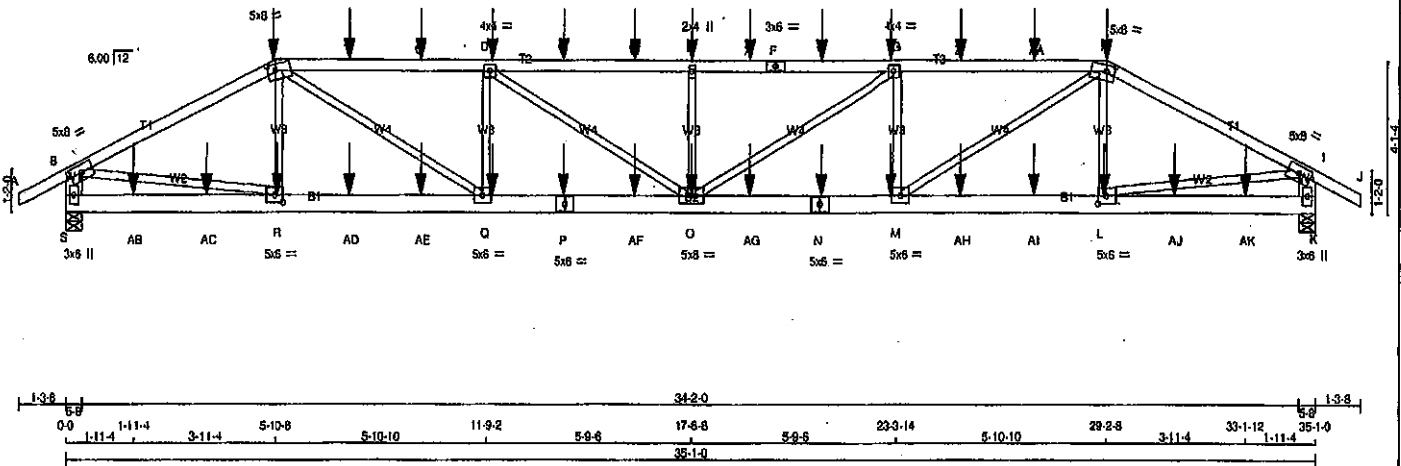
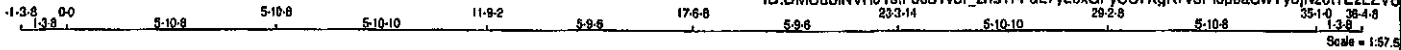
Structural component only
DWG# T-2008046

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408317	T50	1	2	TRUSS DESC.		

Famerack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 10:50:31 2020 Page 1

ID:DMCubINVR6TstFos31v6l_zns11-FaL7yLbxGFySC7KqK7vsPloepaSwYy8jNz017EzLZV6



TOTAL WEIGHT = 2 X 154 = 308 lb

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
S - B	2x6	DRY No.2	SPF
K - I	2x6	DRY No.2	SPF
S - P	2x8	DRY No.2	SPF
P - N	2x8	DRY No.2	SPF
N - K	2x8	DRY No.2	SPF

ALL WEBS 2x3 DRY No.2 SPF EXCEPT

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS: (0.122"x3") SPIRAL NAILS		
A-C 1 12		SIDE(61.0)
C-F 1 12		SIDE(61.0)
F-H 1 12		SIDE(61.0)
H-J 1 12		SIDE(61.0)
S-B 2 12		TOP
K-I 2 12		TOP
BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS		
S-P 2 12		SIDE(183.1)
P-N 2 12		SIDE(183.1)
N-K 2 12		SIDE(183.1)
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.

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
S	3303	0	5-8	5-8
K	3303	0	5-8	5-8

UNFACTORED REACTIONS

	1ST LCASE	MAX. MIN.	COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
S	2336	1528 / 0	0 / 0	0 / 0	0 / 0	808 / 0	0 / 0
K	2336	1528 / 0	0 / 0	0 / 0	0 / 0	808 / 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 = 2.89 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 VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)
FR-TO									
A-B	0 / 28	-91.8	-91.8	0.07 (1)	10.00	R-C	-377 / 33	0.05 (1)	
B-C	-5023 / 0	-91.8	-91.8	0.52 (1)	3.89	C-Q	0 / 3072	0.38 (1)	
C-T	-7076 / 0	-91.8	-91.8	0.74 (1)	3.11	Q-D	-1459 / 0	0.19 (1)	
T-U	-7076 / 0	-91.8	-91.8	0.74 (1)	3.11	D-O	0 / 916	0.11 (1)	
U-D	-7076 / 0	-91.8	-91.8	0.74 (1)	3.11	O-E	-821 / 0	0.10 (1)	
D-V	-7846 / 0	-91.8	-91.8	0.80 (1)	2.89	E-G	0 / 916	0.11 (1)	
V-W	-7846 / 0	-91.8	-91.8	0.80 (1)	2.89	M-G	-1459 / 0	0.19 (1)	
W-E	-7846 / 0	-91.8	-91.8	0.80 (1)	2.89	M-H	0 / 3072	0.38 (1)	
E-X	-7846 / 0	-91.8	-91.8	0.80 (1)	2.89	L-H	-378 / 33	0.05 (1)	
X-F	-7846 / 0	-91.8	-91.8	0.80 (1)	2.89	B-R	0 / 4528	0.58 (1)	
F-Y	-7846 / 0	-91.8	-91.8	0.80 (1)	2.89	L-I	0 / 4528	0.58 (1)	
Y-G	-7846 / 0	-91.8	-91.8	0.80 (1)	2.89				
G-Z	-7076 / 0	-91.8	-91.8	0.74 (1)	3.11				
Z-AA	-7076 / 0	-91.8	-91.8	0.74 (1)	3.11				
AA-H	-7076 / 0	-91.8	-91.8	0.74 (1)	3.11				
H-I	-5023 / 0	-91.8	-91.8	0.52 (1)	3.89				
I-J	0 / 28	-91.8	-91.8	0.07 (1)	10.00				
S-B	-3228 / 0	0.0	0.0	0.11 (1)	7.71				
K-I	-3227 / 0	0.0	0.0	0.11 (1)	7.71				

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)
S-AB	0 / 0	-18.5	-18.5	0.08 (4)	10.00				
AB-AC	0 / 0	-18.5	-18.5	0.08 (4)	10.00				
AC-R	0 / 0	-18.5	-18.5	0.08 (4)	10.00				
R-AD	0 / 4480	-18.5	-18.5	0.34 (1)	10.00				
AD-AE	0 / 4480	-18.5	-18.5	0.34 (1)	10.00				
AE-Q	0 / 4480	-18.5	-18.5	0.34 (1)	10.00				
Q-P	0 / 7076	-18.5	-18.5	0.53 (1)	10.00				
P-AF	0 / 7076	-18.5	-18.5	0.53 (1)	10.00				
AF-O	0 / 7076	-18.5	-18.5	0.53 (1)	10.00				
O-AG	0 / 7076	-18.5	-18.5	0.53 (1)	10.00				
AG-N	0 / 7076	-18.5	-18.5	0.53 (1)	10.00				
N-M	0 / 7076	-18.5	-18.5	0.53 (1)	10.00				
MAH	0 / 4480	-18.5	-18.5	0.34 (1)	10.00				
AH-AI	0 / 4480	-18.5	-18.5	0.34 (1)	10.00				
AI-L	0 / 4480	-18.5	-18.5	0.34 (1)	10.00				
L-AJ	0 / 0	-18.5	-18.5	0.08 (4)	10.00				
AJ-AK	0 / 0	-18.5	-18.5	0.08 (4)	10.00				
AK-K	0 / 0	-18.5	-18.5	0.08 (4)	10.00				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC	LOC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	5-10.8	-114	-114	---	FRONT	VERT	TOTAL	---	C1
D	11-11.4	-110	-110	---	FRONT	VERT	TOTAL	---	C1

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	= 25.8 PSF
DL	= 6.0 PSF
BOT CH. LL	= 0.0 PSF
DL	= 7.4 PSF
TOTAL LOAD	= 39.0 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, NBCG 2010, NBCG 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCG 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 26.0 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17")
CALCULATED VERT. DEFL.(LL) = L/989 (0.26")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/901 (0.47")
CSI: TC=0.80/1.00 (D-E:1), BC=0.53/1.00 (Q-O:1),
WB=0.58/1.00 (B-R:1), CSI=0.20/1.00 (G-H: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.

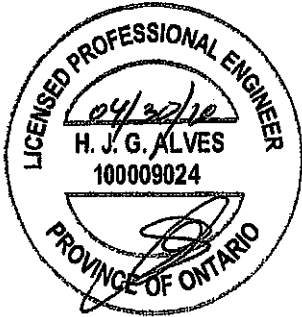
NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PS)	SECTION (PL)
MT20	618 354 1667 768 1987 1658	

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.90 (L) (INPUT = 0.80)
JSI METAL=0.88 (P) (INPUT = 1.00)



Structural component only
DWG# T-2008054

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ORWG NO.
408317	T50	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Thu Apr 30 10:50:31 2020 Page 2

ID:DMCubINVR8TslFoe31v8l zns11-FaL7yLbxGFySC7XgK7vsPloepaSwYy8/Nz01?EzLZV6

PLATES (tablets in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMW-t	MT20	5.0	8.0		
C	TTWW-m	MT20	5.0	8.0	2.00	2.75
D	TMW-t	MT20	4.0	4.0		
E	TMW-w	MT20	2.0	4.0		
F	TS-t	MT20	3.0	6.0		
G	TMW-t	MT20	4.0	4.0		
H	TTWW-m	MT20	5.0	8.0	2.00	2.75
I	TMW-t	MT20	5.0	8.0		
K	BMVt-p	MT20	3.0	6.0		
L	BMW-t	MT20	5.0	8.0		
M	BMW-t	MT20	5.0	8.0	2.50	2.75
N	BS-t	MT20	5.0	8.0		
O	BMWW-t	MT20	5.0	8.0		
P	BS-t	MT20	5.0	8.0		
R	BMW-t	MT20	5.0	8.0		
S	BMVt-p	MT20	5.0	8.0	2.50	2.75
			3.0	6.0		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	17-8-8	-110	-110	---	FRONT	VERT	TOTAL	---	C1
G	23-1-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
H	29-2-8	-414	-414	---	FRONT	VERT	TOTAL	---	C1
L	29-1-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
M	23-1-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
N	21-1-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
O	17-8-8	-26	-26	---	FRONT	VERT	TOTAL	---	C1
P	13-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
Q	11-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
R	5-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
T	7-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
U	9-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
V	13-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
W	15-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
X	19-1-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Y	21-1-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Z	25-1-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AA	27-1-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AB	1-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AC	3-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AD	7-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AE	9-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AF	15-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AG	19-1-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AH	25-1-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AI	27-1-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AJ	31-1-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AK	33-1-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

- 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



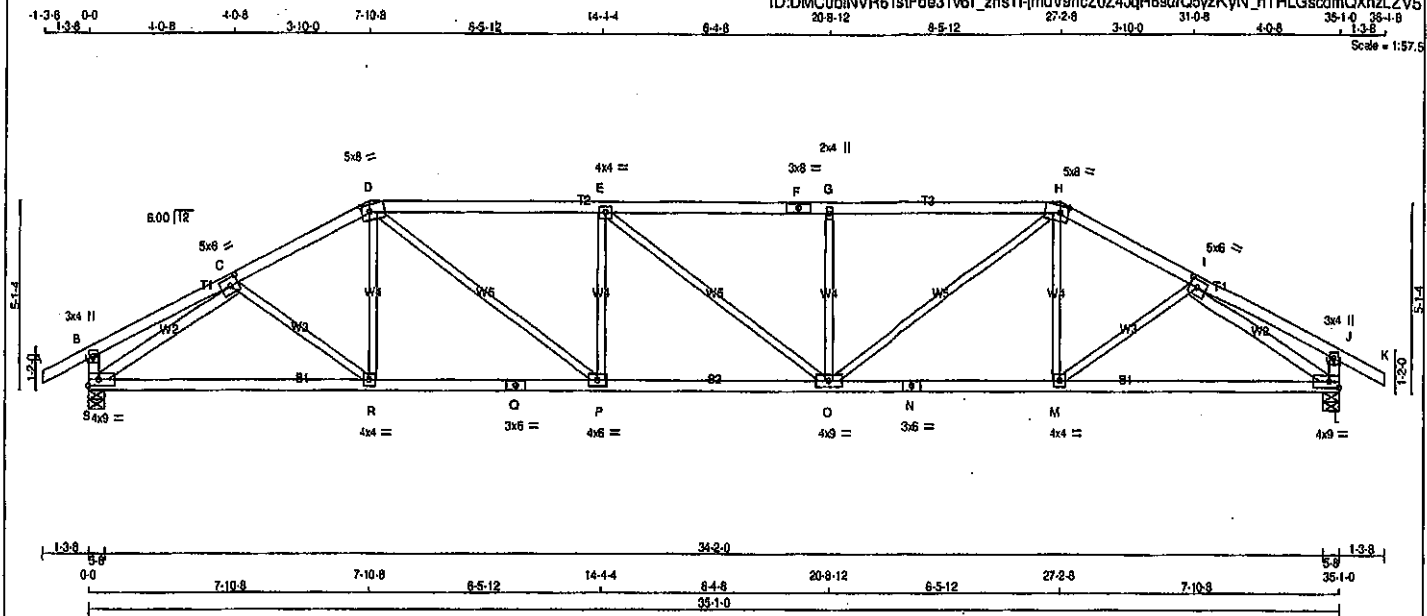
Structural component only
DWG# T-2008054 72

JOB NAME 408317	TRUSS NAME T51	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Version 8.310 S Oct 29 2019 MTek Industries, Inc. Thu Apr 30 10:50:32 2020 Page 1

ID:DMCubINVR6TstFoe31v6l_zns11-imuv9hc20Z4JqH6surQ5yzKyN_nTHLGscdmQXhzLZV5

Scale = 1:57.6



TOTAL WEIGHT = 139 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TMWW-m	MT20	5.0	6.0	2.50	2.75
D	TTWW-m	MT20	5.0	8.0	2.25	2.75
E	TMWW-l	MT20	4.0	4.0		
F	TS-l	MT20	3.0	8.0		
G	TMW+w	MT20	2.0	4.0		
H	TTWW-m	MT20	5.0	8.0	2.25	2.75
I	TMWW-l	MT20	6.0	6.0	2.50	2.75
J	TMV+p	MT20	3.0	4.0		
L	BMVW-l	MT20	4.0	9.0		Edge
M	BMWW-l	MT20	4.0	4.0		
N	BS-l	MT20	3.0	6.0		
O	BMWWW-l	MT20	4.0	9.0		
P	BMWW-l	MT20	4.0	6.0		
Q	BS-l	MT20	3.0	6.0		
R	BMWW-l	MT20	4.0	4.0		
S	BMVW-l	MT20	4.0	9.0		Edge

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT	REQ'D
	VERT	HORZ	DOWN	HORZ
JT	2059	0	2059	0
S	2059	0	2059	0
L	2059	0	2059	0

UNFACTORED REACTIONS

	1ST LOASE	MAX/MIN	COMPONENT REACTIONS
	COMBINED	SNOW	LIVE
JT	1453	987/0	0/0
S	1453	987/0	0/0
L	1453	987/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.95 FT.

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. VERT. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. VERT. LOAD (LC)
FR-TO				FR-TO			
A-B	0/28	-91.8	-91.8 0.12 (1)	C-R	0/93	0.03 (4)	
B-C	0/18	-91.8	-91.8 0.20 (1)	R-D	0/121	0.04 (4)	
C-D	-2791/0	-91.8	-91.8 0.31 (1)	D-P	0/1258	0.28 (1)	
D-E	-3492/0	-91.8	-91.8 0.83 (1)	P-E	-641/0	0.25 (1)	
E-F	-3491/0	-91.8	-91.8 0.82 (1)	E-O	-2/0	0.00 (1)	
F-G	-3491/0	-91.8	-91.8 0.82 (1)	O-G	-940/0	0.25 (1)	
G-H	-3491/0	-91.8	-91.8 0.93 (1)	O-H	0/1256	0.28 (1)	
H-I	-2791/0	-91.8	-91.8 0.31 (1)	M-H	0/121	0.04 (4)	
I-J	0/18	-91.8	-91.8 0.20 (1)	M-I	0/93	0.03 (4)	
J-K	0/28	-91.8	-91.8 0.12 (1)	S-C	-2968/0	0.82 (1)	
S-B	-270/0	0.0	0.0 0.03 (1)	I-L	-2968/0	0.82 (1)	
L-J	-270/0	0.0	0.0 0.03 (1)				
S-R	0/2411	-18.5	-18.5 0.53 (1)				
R-Q	0/2481	-18.5	-18.5 0.54 (1)				
Q-P	0/2481	-18.5	-18.5 0.54 (1)				
P-O	0/3492	-18.5	-18.5 0.84 (1)				
O-N	0/2482	-18.5	-18.5 0.54 (1)				
N-M	0/2482	-18.5	-18.5 0.84 (1)				
M-L	0/2411	-18.5	-18.5 0.53 (1)				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	=	25.6	PSF
DL	=	6.0	PSF
BOT CH. LL	=	0.0	PSF
DL	=	7.4	PSF
TOTAL LOAD	=	39.0	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, NBC0 2010, NBC0 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC0 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 28.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17")
CALCULATED VERT. DEFL.(LL) = L/999 (0.21")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/999 (0.41")

CSI: TO=0.93/1.00 (D-E:1), BC=0.84/1.00 (O-P:1), WB=0.82/1.00 (I-L:1), SS=0.28/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

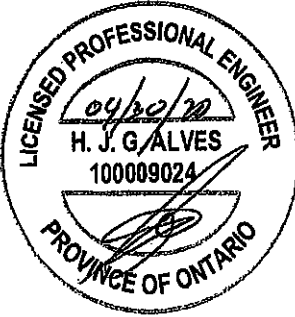
PLATE GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)
MAX	MIN	MAX
618	354	1887
788	1987	1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

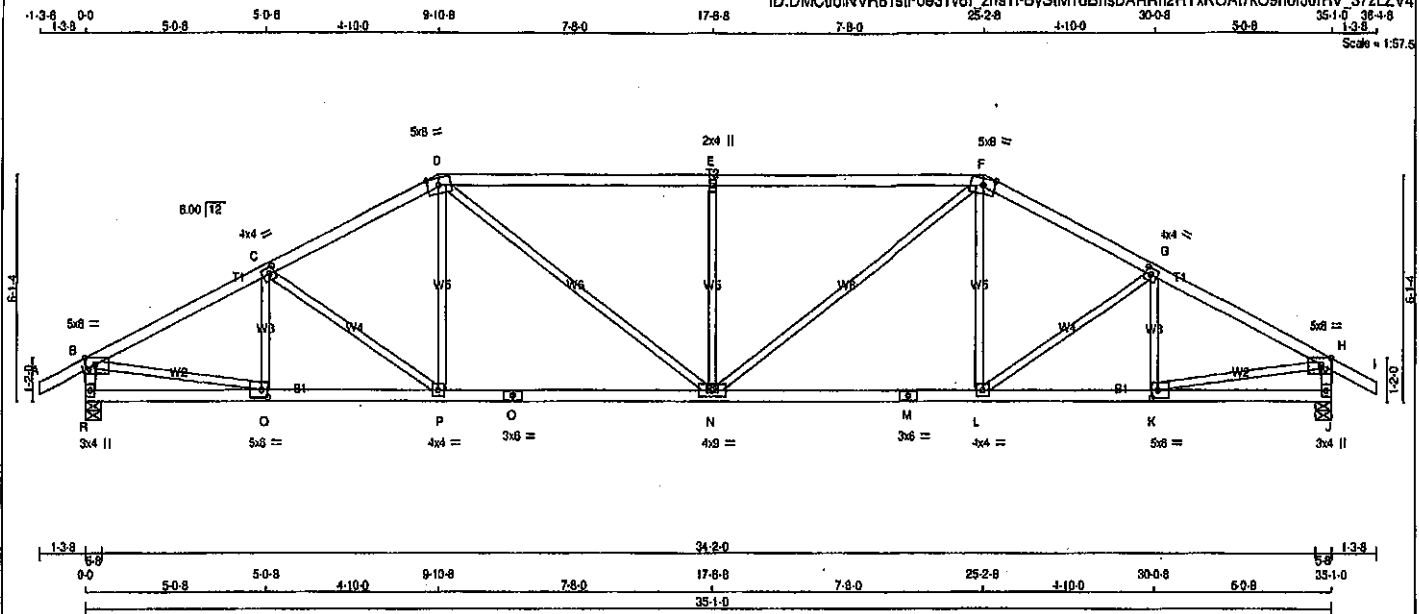
JSI METAL= 0.77 (N) (INPUT = 1.00)



Structural component only
DWG# T-2008055

JOB NAME 408317	TRUSS NAME T52	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	ORWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 10:50:33 2020 Page 1
ID:DMCubINVR6TslFoe31v6j_zns11-BvSiM1dBnsDARRh2RYxKUA17kO9n0rJ0rHV_37zLZV4



TOTAL WEIGHT = 138 LB

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

ALL WEBS	2x3	DRY	No.2
EXCEPT			

DRY: SEASONED LUMBER.

PLATES (tablets in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMWW-p	MT20	5.0	8.0 Edge 3.50
C	TMWW-l	MT20	4.0	4.0 2.00 1.75
D	TTWW-m	MT20	5.0	8.0 2.25 3.75
E	TMWW-w	MT20	2.0	4.0
F	TMWW-m	MT20	5.0	8.0 2.25 3.75
G	TMWW-l	MT20	4.0	4.0 2.00 1.75
H	TMWW-p	MT20	5.0	8.0 Edge 3.50
J	BMV1-p	MT20	3.0	4.0
K	BMWW-l	MT20	5.0	8.0 2.50 2.00
L	BMWW-l	MT20	4.0	4.0
M	BS-l	MT20	3.0	6.0
N	BMWWW-l	MT20	4.0	9.0
O	BS-l	MT20	3.0	6.0
P	BMWW-l	MT20	4.0	4.0
Q	BMWW-l	MT20	5.0	8.0 2.50 2.00
R	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
JT	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG
R	2059	0	2059	0	5-8
J	2059	0	2059	0	5-8

UNFACTORED REACTIONS		1ST CASE	MAX/MIN COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE PERM LIVE WIND DEAD SOIL
R	1453	987 / 0	0 / 0 0 / 0 0 / 0 488 / 0 0 / 0
J	1453	987 / 0	0 / 0 0 / 0 0 / 0 488 / 0 0 / 0

BEARING MATERIAL TO BE 9PF NO.2 OR BETTER AT JOINT(S) R, J

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.83 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	MEMB.	MAX. FACTORED
FR-TO	FORCE (LBS)	FR-TO	FORCE (LBS)
A-B	0 / 28	Q-C	-352 / 0
B-C	-2826 / 0	C-P	-211 / 0
C-D	-2879 / 0	P-D	0 / 248
D-E	-3044 / 0	D-N	0 / 838
E-F	-3044 / 0	N-E	-867 / 0
F-G	-2878 / 0	E-F	0 / 838
G-H	-2826 / 0	H-F	0 / 248
H-I	0 / 28	I-G	-211 / 0
R-B	-2014 / 0	K-G	-352 / 0
J-H	-2014 / 0	B-Q	0 / 2584
		K-H	0 / 2584
R-Q	0 / 0		
Q-P	0 / 2548		
P-O	0 / 2378		
O-N	0 / 2378		
N-M	0 / 2378		
M-L	0 / 2378		
L-K	0 / 2548		
K-J	0 / 0		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 8.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. CC

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 CBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (1.17')
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.17')
ALLOWABLE DEFL.(TL) = $L/360$ (1.17')
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.34')

CSI: TC=0.98/1.00 (D-E:1), BC=0.50/1.00 (P-Q:1), WB=0.58/1.00 (B-Q:1), SS=0.34/1.00 (D-E:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10

COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES			
PLATE	GRIP(DRY)	SHEAR	SECTION
(PS)	(PL)	(PL)	(PL)
MAX	MIN	MAX	MIN
MT20	818	354	1687 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.88 (F) (INPUT = 0.90)
JSI METAL=0.75 (C) (INPUT = 1.00)



Structural component only
DWG# T-2008056

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408317	T53	1	2	TRUSS DESC.		

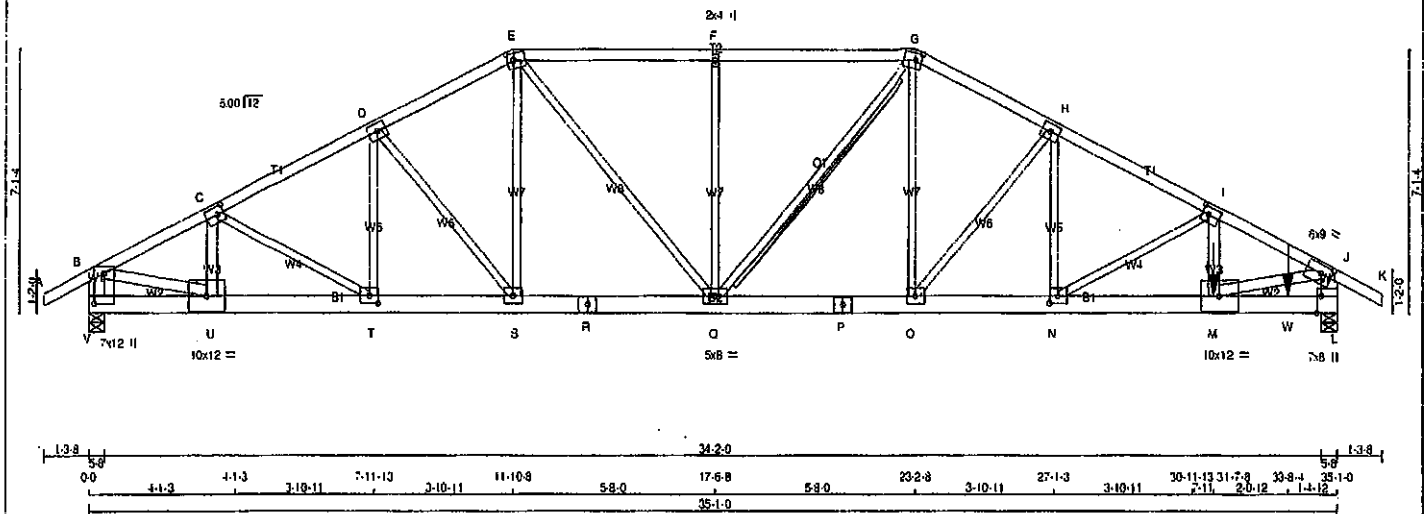
Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 11:40:05 2020 Page 1

ID:DMCubINVR6TslF0a31v6I zns11-Aj1Q7GbQl0IT7AuFYjGGxvz6OQQZMu0TFgRENSzLYme

1-3-8 3-0 4-1-3 4-1-3 3-10-11 7-11-13 3-10-11 11-10-8 5-8-0 17-6-8 5-8-0 23-2-8 3-10-11 27-1-3 3-10-11 30-11-13 35-1-0 38-4-8 1-3-8

Scale = 1:57.6



TOTAL WEIGHT = 2 X 177 = 354 lb

LUMBER	CHORDS	SIZE	DRY	LUMBER	DESCR.
N. L. G. A. RULES					
A - E	2x4	DRY	No.2	SPF	
E - G	2x4	DRY	No.2	SPF	
G - K	2x4	DRY	No.2	SPF	
V - B	2x4	DRY	No.2	SPF	
L - J	2x4	DRY	No.2	SPF	
V - R	2x4	DRY	No.2	SPF	
R - P	2x4	DRY	No.2	SPF	
P - L	2x4	DRY	No.2	SPF	
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	
U - C	2x4	DRY	No.2	SPF	
M - I	2x4	DRY	No.2	SPF	
S - U	2x4	DRY	No.2	SPF	
M - J	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 - E	12	TOP
E - G	12	TOP
G - K	12	TOP
V - B	12	TOP
L - J	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
V - R	12	TOP
R - P	12	TOP
P - L	6	SIDE (427.3)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	
1-M	2	SIDE (1093.7)
2x4	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	RECORD BRG
	VERT	HORZ	DOWN	HORZ		
V	2649	0	2649	0	5-8	5-8
L	7868	0	7868	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LOASE		MAX. MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERMALIVE			
V	1870	1245	0	0	0	626	0
L	5554	3702	0	0	0	1852	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.59 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

2x4 DRY SPF No.2 T-BRACE AT G-Q

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBB			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	
FR-TO		FROM TO		FR-TO			
A-B	0 28	-91.8 -91.8 0.07 (1)	10.00	U-C	-692 0	0.04 (1)	
B-C	-3800 0	-91.8 -91.8 0.14 (1)	4.84	C-T	0 326	0.04 (1)	
C-D	-3991 0	-91.8 -91.8 0.19 (1)	4.63	T-O	-82 33	0.02 (1)	
D-E	-3718 0	-91.8 -91.8 0.18 (1)	4.74	O-S	-331 0	0.11 (1)	
E-F	-4114 0	-91.8 -91.8 0.37 (1)	4.33	S-E	0 367	0.05 (1)	
F-G	-1114 0	-91.8 -91.8 0.37 (1)	4.33	G-Q	0 2035	0.25 (1)	
G-H	-4803 0	-91.8 -91.8 0.23 (1)	4.21	O-H	2534 0	0.88 (1)	
H-I	-6580 0	-91.8 -91.8 0.34 (1)	3.59	N-H	0 2276	0.28 (1)	
I-J	-10833 0	-91.8 -91.8 0.53 (1)	2.59	N-I	-4330 0	0.57 (1)	
J-K	0 28	-91.8 -91.8 0.07 (1)	10.00	M-I	0 3862	0.32 (1)	
V-B	-2591 0	0.0 0.0 0.09 (1)	7.81	B-U	0 3314	0.29 (1)	
L-J	-7297 0	0.0 0.0 0.26 (1)	5.54	M-J	0 9930	0.88 (1)	
				Q-G	-297 0	0.12 (1)	
				E-Q	0 1243	0.15 (1)	
				Q-F	-830 0	0.26 (1)	
V-U	0 0	-18.5 -18.5 0.03 (1)	10.00				
U-T	0 3234	-18.5 -18.5 0.25 (1)	10.00				
T-S	0 3519	-18.5 -18.5 0.25 (1)	10.00				
S-R	0 3312	-18.5 -18.5 0.23 (1)	10.00				
R-Q	0 3312	-18.5 -18.5 0.23 (1)	10.00				
Q-P	0 4305	-18.5 -18.5 0.30 (1)	10.00				
P-O	0 4305	-18.5 -18.5 0.30 (1)	10.00				
O-N	0 5900	-18.5 -18.5 0.39 (1)	10.00				
N-M	0 9930	-18.5 -18.5 0.79 (1)	10.00				
M-W	0 0	-18.5 -18.5 0.29 (1)	10.00				
W-L	0 0	-18.5 -18.5 0.29 (1)	10.00				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
M	31-7-8	-5715	-5715	---	BACK	VERT	TOTAL	---	C1
W	33-8-4	-684	-684	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 5.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. CG

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBC 2018 - OBC 2012, A8C 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17')
CALCULATED VERT. DEFL.(LL) = L/999 (0.12')
ALLOWABLE DEFL.(TL) = L/360 (1.17')
CALCULATED VERT. DEFL.(TL) = L/999 (0.23')

CSI: TC=0.53(1.00 (I-J)), BC=0.79(1.00 (M-N)), WB=0.97(1.00 (I-N)), SS=0.19(1.00 (L-M))

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 SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1657 788 1697 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 3.0 Deg.

JSI GRIP=0.90 (1) INPUT = 0.90 ; JSI METAL=0.91 (1) INPUT = 1.00 ;



Structural component only
DWG# T-2008057 1/2

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408317	T53	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 MiTek Industries, Inc. Thu Apr 30 11:40:05 2020 Page 2

ID:DMCubiNVR6TsFoe31v6I zns1I-Ai1Q7GbQ10T?AuFYIGGxvz6OOQZMu0TFqREN9zLYmg

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B						
C	TMWW-1	MT20	5.0	8.0	2.50	2.25
D	TMWW-1	MT20	5.0	8.0		
E	TTWW-m	MT20	5.0	8.0	2.25	2.00
F	TMW+w	MT20	2.0	4.0		
G	TTWW-m	MT20	5.0	8.0	2.25	2.00
H	TMWW-1	MT20	5.0	8.0		
I	TMWW-1	MT20	5.0	8.0	2.50	2.25
J	TMWW-1	MT20	6.0	9.0	2.75	3.75
L	BMV1-1	MT20	7.0	8.0	Edge	1.50
M	BMWW-1	MT20	10.0	12.0		
N	BMWW-1	MT20	5.0	8.0	2.50	2.75
O	BMWW-1	MT20	5.0	8.0		
P	BS-1	MT20	5.0	8.0		
Q	BMWWWW-1	MT20	5.0	8.0		
R	BS-1	MT20	5.0	8.0		
S	BMWW-1	MT20	5.0	8.0		
T	BMWW-1	MT20	5.0	8.0	2.50	2.75
U	BMWW-1	MT20	10.0	12.0		
V						
V	TMBMVW1+pmT20		7.0	12.0	9.75	3.50

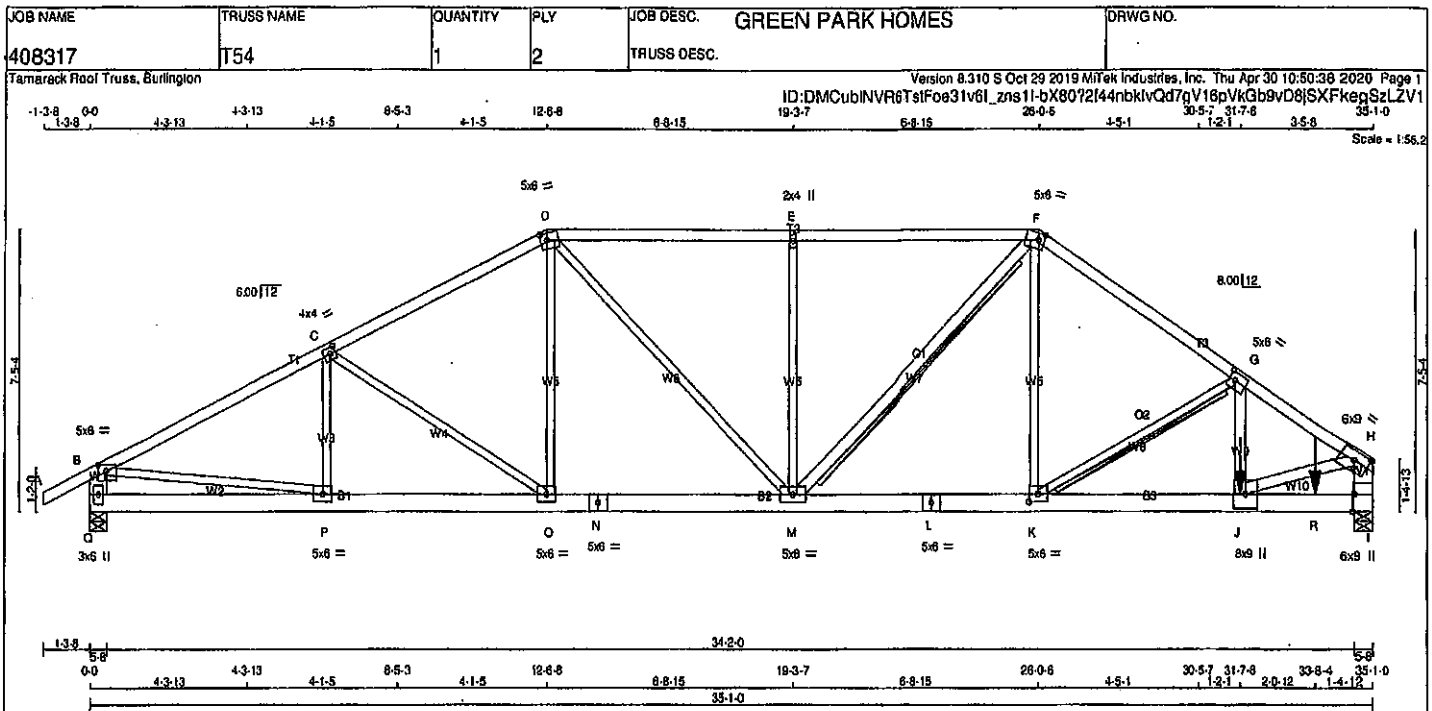
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



Structural component only
DWG# T-2008057 112



TOTAL WEIGHT = 2 X 171 = 342 LB

LUMBER				DESCR.	
N. L. G. A. RULES					
CHORDS	SIZE	DRY	LUMBER		
A - D	2x4	DRY	No.2	SPF	
D - F	2x4	DRY	No.2	SPF	
F - H	2x4	DRY	No.2	SPF	
Q - B	2x6	DRY	No.2	SPF	
I - N	2x6	DRY	No.2	SPF	
Q - H	2x6	DRY	No.2	SPF	
N - L	2x6	DRY	No.2	SPF	
L - I	2x6	DRY	No.2	SPF	
ALL WEBS 2x3 DRY No.2				SPF	
EXCEPT					
J - G	2x4	DRY	No.2	SPF	
J - H	2x4	DRY	No.2	SPF	
M - F	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-D	1	12		TOP	
D-F	1	12		TOP	
F-H	1	12		TOP	
Q-B	2	12		TOP	
I-H	2	12		TOP	
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS					
Q-N	2	12		TOP	
N-L	2	12		TOP	
L-I	2	12		SIDE(183.1)	
WEBS : (0.122"x3") SPIRAL NAILS					
2x3	1	6			
G-J	2	2		SIDE(1372.1)	
2x4	1	6			
NAILS TO BE DRIVEN FROM ONE SIDE ONLY.					
GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.					
TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.					

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG			
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
Q	2673	0	2673	0	0	5-8	5-8		
I	7865	0	7865	0	0	5-8	5-8		
UNFACTORED REACTIONS									
1ST LCASE		MAX/MIN COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
Q	1887	1256/0	0/0	0/0	0/0	631.0	0/0		
I	5625	3738/0	0/0	0/0	0/0	1883.0	0/0		
BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) Q, I									
BRACING									
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.91 FT.									
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.									
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.									
2x4 DRY SPF No.2 T-BRACE AT G-K, F-M									
FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.									
END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW									
LOADING									
TOTAL LOAD CASES: (4)									
CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX. CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)		
FR-TO		FROM-TO			FR-TO				
A-B	0:28	-91.8	-91.8	0.07 (1)	10.00	P-C	-350/0	0.05 (1)	
B-C	-4026/0	-91.8	-91.8	0.51 (1)	4.29	C-D	-377/0	0.20 (1)	
C-D	-3738/0	-91.8	-91.8	0.46 (1)	4.44	D-E	0:363	0.04 (1)	
D-E	-4129/0	-91.8	-91.8	0.56 (1)	4.14	E-F	0:2280	0.28 (1)	
E-F	-4129/0	-91.8	-91.8	0.56 (1)	4.14	K-G	-4138/0	0.68 (1)	
F-G	-4951/0	-91.8	-91.8	0.40 (1)	4.05	B-P	0:3852	0.45 (1)	
G-H	-3200/0	-91.8	-91.8	0.47 (1)	2.91	J-G	0:3950	0.35 (1)	
Q-B	-2603/0	0.0	0.0	0.08 (1)	7.81	H-I	0:7993	0.71 (1)	
I-H	-7441/0	0.0	0.0	0.27 (1)	5.49	M-F	-8/0	0.00 (4)	
						D-M	0:1175	0.15 (1)	
						M-E	-753/0	0.38 (1)	
Q-P	0:0	-18.5	-18.5	0.05 (4)	10.00				
P-Q	0:3828	-18.5	-18.5	0.27 (1)	10.00				
Q-N	0:3316	-18.5	-18.5	0.25 (1)	10.00				
N-M	0:3316	-18.5	-18.5	0.25 (1)	10.00				
M-L	0:4132	-18.5	-18.5	0.31 (1)	10.00				
L-K	0:4132	-18.5	-18.5	0.31 (1)	10.00				
K-J	0:7660	-18.5	-18.5	0.81 (1)	10.00				
J-R	0:0	-18.5	-18.5	0.28 (1)	10.00				
R-I	0:0	-18.5	-18.5	0.28 (1)	10.00				
FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
J	31-7-8	-5982	-5982	---	FRONT	VERT	TOTAL	---	C1
R	33-8-4	-684	-684	---	FRONT	VERT	TOTAL	---	C1
CONNECTION REQUIREMENTS									
11 C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.									

DESIGN CRITERIA			
SPECIFIED LOADS:			
TOP CH. LL	=	25.6	PSF
DL	=	6.0	PSF
BOT CH. LL	=	0.0	PSF
DL	=	7.4	PSF
TOTAL LOAD	=	39.0	PSF
SPACING = 24.0 IN. C/C			
LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12			
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015			
THIS DESIGN COMPLIES WITH:			
- PART 9 OF BCBC 2018, OBC 2012, ABC 2019			
- PART 9 OF OBC 2012 (2019 AMENDMENT)			
- CSA 086-09, CSA 088-14			
- TPIC 2011, TPIC 2014			
(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD			
ALLOWABLE DEFL.(LL) = L/360 (1.17")			
CALCULATED VERT. DEFL.(LL) = L/999 (0.10")			
ALLOWABLE DEFL.(TL) = L/360 (1.17")			
CALCULATED VERT. DEFL.(TL) = L/999 (0.19")			
CSI: TC=0.58/1.00 (D-E:1), BC=0.61/1.00 (J-K:1), WB=0.68/1.00 (G-K:1), SSI=0.17/1.00 (I-J: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	SECTION	(PSI)	(PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	618 354	1687 788	1987 1656
PLATE PLACEMENT TOL = 0.250 inches			
PLATE ROTATION TOL = 5.0 Deg.			
JSI GRIP= 0.88 (H) (INPUT = 0.90)			
JSI METAL= 0.87 (J) (INPUT = 1.00)			

Structural component only
DWG# T-2008058 1/2

CONTINUED ON PAGE



Structural component only
DWG# T-2008058 1/2

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408317	T54	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

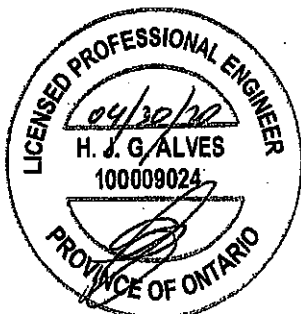
Version 8.310 5 Oct 20 2019 Mitek Industries, Inc. Thu Apr 30 10:50:38 2020 Page 2

ID:DMCubINVR6TstF0e3lv6I zns1I-bXB0?2H44nbklvQd7gV18pVKGb9vD8SXFKepSzLZV1

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	8.0	2.00	2.75
C	TMWW-l	MT20	4.0	4.0	2.00	1.75
D	TTWW-m	MT20	5.0	8.0	2.25	2.00
E	TMW-vv	MT20	2.0	4.0		
F	TTWW-m	MT20	5.0	8.0	2.25	2.00
G	TMWW-l	MT20	5.0	8.0	2.50	2.00
H	TMVW-l	MT20	8.0	9.0	2.75	4.50
I	BMV1-l	MT20	8.0	9.0	Edge	0.50
J	BMWW-l	MT20	8.0	9.0		
K	BMWW-l	MT20	8.0	8.0	2.50	2.75
L	BS-l	MT20	5.0	6.0		
M	BMWW-l	MT20	5.0	8.0		
N	BS-l	MT20	5.0	8.0		
O	BMWW-l	MT20	5.0	8.0		
P	BMWW-l	MT20	5.0	8.0		
Q	BMV1-p	MT20	3.0	6.0		

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

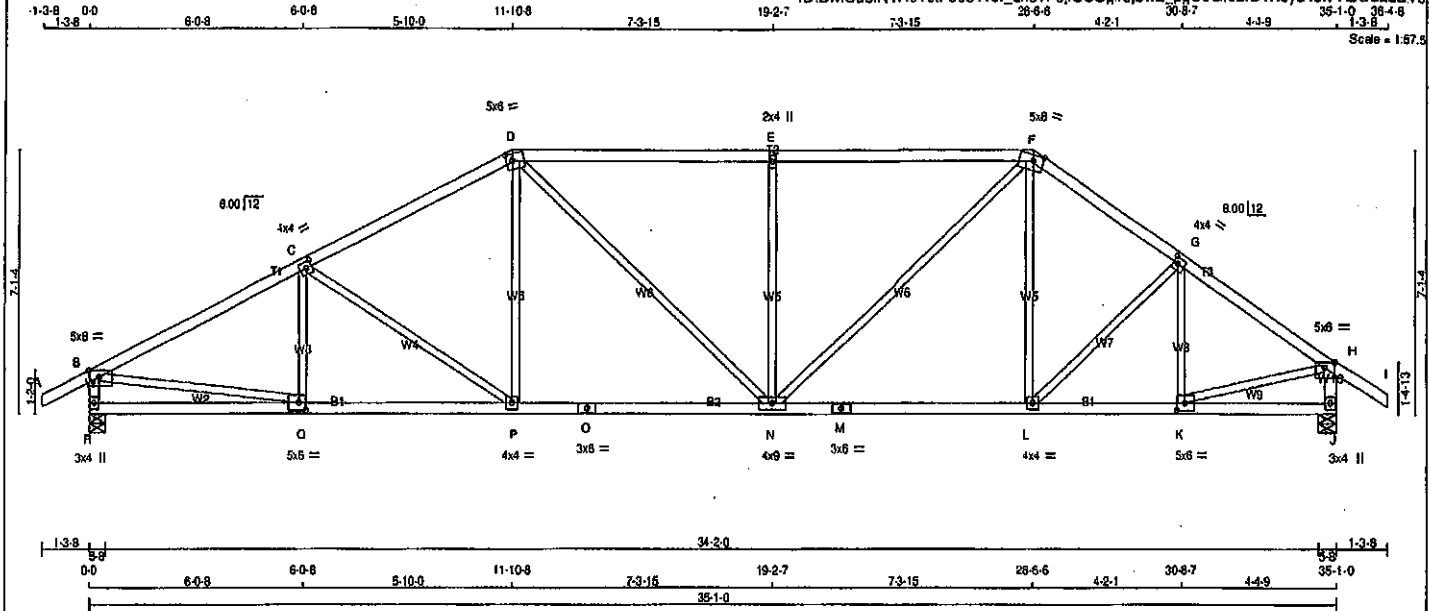


Structural component only
DWG# T-2008058 2/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408317	T55	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MTek Industries, Inc. Thu Apr 30 10:50:37 2020 Page 1
ID:DMCubINVR6TstFoe31v8L_zns11-3jOCQir5bw2_pg00G102rD7Xeyd4blvTECuzLZV0



TOTAL WEIGHT = 146 lb (M/F)

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

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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVV-p	MT20	5.0	8.0	Edge 3.50
C	TMWW-t	MT20	4.0	4.0	2.00 1.75
D	TTWW-m	MT20	5.0	6.0	2.25 2.00
E	TMW-w	MT20	2.0	4.0	
F	TTWW-m	MT20	5.0	8.0	2.00 3.25
G	TMWW-t	MT20	4.0	4.0	2.00 1.50
H	TMVV-p	MT20	5.0	8.0	1.75 3.00
J	BMV1-p	MT20	3.0	4.0	
K	BMWW-t	MT20	5.0	6.0	2.50 2.75
L	BMWW-t	MT20	4.0	4.0	
M	BS-t	MT20	3.0	6.0	
N	BMWW-t	MT20	4.0	9.0	
O	BS-t	MT20	3.0	6.0	
P	BMWW-t	MT20	4.0	4.0	
Q	BMWW-t	MT20	5.0	6.0	2.50 2.25
R	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	RECORD
JT	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG
R	2059	0	2059	0	5-8
J	2060	0	2060	0	5-8

UNFACTORED REACTIONS		1ST CASE	MAX/MIN. COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
R	1453	967/0	0/0	0/0	0/0	489/0	0/0
J	1454	968/0	0/0	0/0	0/0	487/0	0/0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.34 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
A-B	0/28	Q-C	-268/8
B-C	-2880/0	C-P	-433/0
C-D	-2533/0	P-D	0/383
D-E	-2668/0	D-N	0/440
E-F	-2565/0	N-E	-628/0
F-G	-2250/0	N-F	0/977
G-H	-2262/0	L-F	0/169
H-I	0/35	L-G	-74/0
I-B	-2009/0	K-G	-401/0
J-H	-2021/0	B-Q	0/2827
		K-H	0/1959
R-O	0/0		
Q-P	0/2800		
P-O	0/2244		
O-N	0/2244		
N-M	0/1850		
M-L	0/1850		
L-K	0/1902		
K-J	0/0		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.8 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 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, NBC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/380 (1.17")
CALCULATED VERT. DEFL.(LL) = L/999 (0.14")
ALLOWABLE DEFL.(TL) = L/380 (1.17")
CALCULATED VERT. DEFL.(TL) = L/999 (0.28")

CSI: TC=0.80/1.00 (D-E:1), BC=0.51/1.00 (P-Q:1), WB=0.72/1.00 (E-N:1), SI=0.33/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

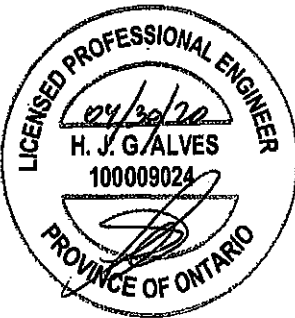
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1867 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (H) (INPUT = 0.90)
JSI METAL= 0.70 (C) (INPUT = 1.00)



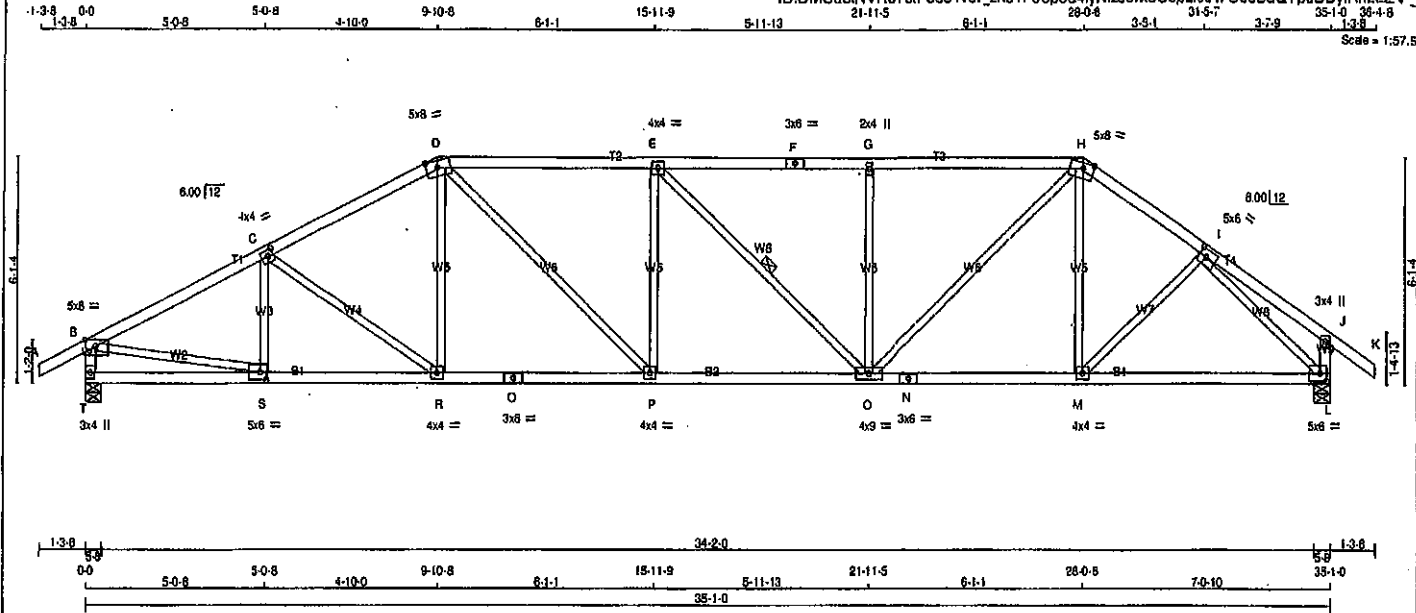
Structural component only
DWG# T-2008059

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408317	T56	1	1	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 10:50:39 2020 Page 1

ID:DMCubINVR6TstFoe31v6t_zns11-06p8d4lyNlz9M8Cag2KkR7C0o8dQTpuDDyIHnzLZV



TOTAL WEIGHT = 145 lb

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
H - K	2x4	DRY	No.2
T - B	2x4	DRY	No.2
L - J	2x4	DRY	No.2
T - Q	2x4	DRY	No.2
Q - N	2x4	DRY	No.2
N - L	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	TMW-p	MT20	5.0	8.0	Edge 3.50
C	BMWW-I	MT20	4.0	4.0	2.00 1.75
D	TTWW-m	MT20	5.0	8.0	2.25 3.75
E	BMWW-I	MT20	4.0	4.0	
F	TS-I	MT20	3.0	6.0	
G	TMW-w	MT20	2.0	4.0	
H	TTWW-m	MT20	5.0	8.0	1.75 3.50
I	TMWW-I	MT20	5.0	8.0	2.50 2.50
J	TMW-p	MT20	3.0	4.0	
L	BMWW-I	MT20	5.0	8.0	2.50 2.25
M, P, R					
M	BMWW-I	MT20	4.0	4.0	
N	BS-I	MT20	3.0	6.0	
O	BMWW-I	MT20	4.0	9.0	
Q	BS-I	MT20	3.0	6.0	
S	BMWW-I	MT20	5.0	8.0	2.50 2.00
T	BMV-I-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	
JT	VERT	GROSS REACTION	GROSS REACTION	DOWN	HORIZ	8RG	8RG	IN-SX	IN-SX
T	2059	0	2059	0	0	5-8	5-8		
L	2060	0	2060	0	0	5-8	5-8		

UNFACTORED REACTIONS

1ST LOASE		MAX/MIN COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
T	1453	987 / 0	0 / 0	0 / 0	0 / 0	489 / 0	0 / 0
L	1454	988 / 0	0 / 0	0 / 0	0 / 0	487 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.39 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-O.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1)
FR-TO				FR-TO			
A-B	0 / 26	-91.8	-91.8 0.12 (1)	S-C	-345 / 0	0.08 (1)	0.14 (1)
B-C	-2828 / 0	-91.8	-91.8 0.54 (1)	C-R	-218 / 0	0.14 (1)	0.14 (1)
C-D	-2674 / 0	-91.8	-91.8 0.51 (1)	R-D	0 / 231	0.05 (1)	0.18 (1)
D-E	-2958 / 0	-91.8	-91.8 0.72 (1)	D-P	0 / 808	0.18 (1)	0.18 (1)
E-F	-2795 / 0	-91.8	-91.8 0.68 (1)	P-E	-444 / 0	0.26 (1)	0.11 (1)
F-G	-2795 / 0	-91.8	-91.8 0.68 (1)	E-O	-228 / 0	0.11 (1)	0.35 (1)
G-H	-2795 / 0	-91.8	-91.8 0.68 (1)	O-G	-599 / 0	0.35 (1)	0.28 (1)
H-I	-2299 / 0	-91.8	-91.8 0.23 (1)	O-H	0 / 1243	0.03 (4)	0.03 (4)
I-J	0 / 18	-91.8	-91.8 0.16 (1)	M-H	0 / 95	0.03 (4)	0.03 (4)
J-K	0 / 35	-91.8	-91.8 0.12 (1)	M-I	0 / 134	0.03 (4)	0.58 (1)
T-B	-2015 / 0	0.0	0.0 0.20 (1)	B-S	0 / 2586	0.58 (1)	0.98 (1)
L-J	-255 / 0	0.0	0.0 0.03 (1)	I-L	-2508 / 0	0.98 (1)	
T-S	0 / 0	-18.5	-18.5 0.10 (4)				
S-R	0 / 2549	-18.5	-18.5 0.48 (1)				
R-Q	0 / 2374	-18.5	-18.5 0.45 (1)				
Q-P	0 / 2374	-18.5	-18.5 0.45 (1)				
P-O	0 / 2958	-18.5	-18.5 0.64 (1)				
O-N	0 / 1895	-18.5	-18.5 0.42 (1)				
N-M	0 / 1895	-18.5	-18.5 0.42 (1)				
M-L	0 / 1797	-18.5	-18.5 0.40 (1)				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 21.0 IN. OC

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2010, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN
LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF
LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17")
CALCULATED VERT. DEFL.(LL) = L/899 (0.16")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/899 (0.31")

CS: TC=0.72/1.00 (D-E:1), BC=0.54/1.00 (O-P:1),
WB=0.98/1.00 (I-L:1), SS=0.28/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

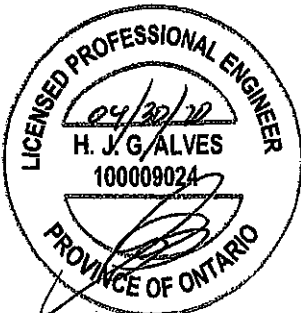
NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION
(PS) (PL) (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.

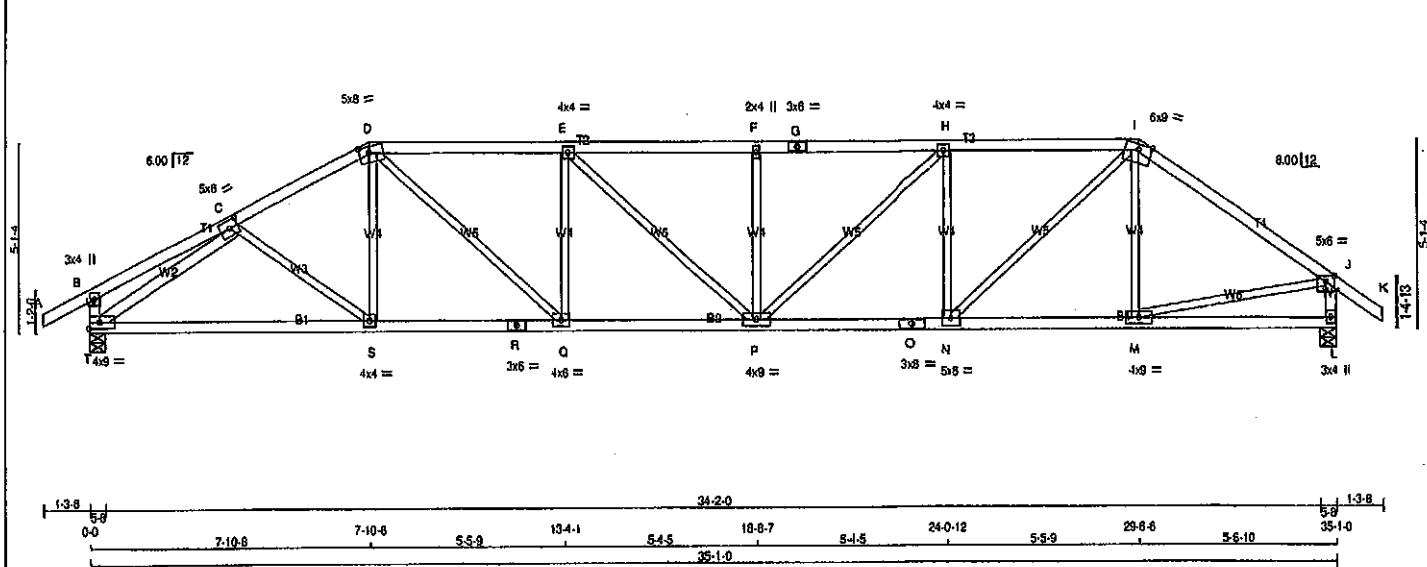
JSI GRIP= 0.90 (L) (INPUT = 0.90)
JSI METAL= 0.74 (Q) (INPUT = 1.00)



Structural component only
DWG# T-2008060

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408317	T57	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					

Version 8.310 9 Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 10:50:40 2020 Page 1
 ID:DMCubINVR6TsF0a31v6i_zns11-UINXqQia805AnWjOMWazHfgO_CWu9zF2SiroDzLZUz
 Scale = 1:57.5



TOTAL WEIGHT = 142 lb

LUMBER	SIZE	DRY	LUMBER	DESCR.
N. L. G. A. RULES				
CHORDS				
A - D	2x4	DRY	No.2	SPF
D - G	2x4	DRY	No.2	SPF
G - I	2x4	DRY	No.2	SPF
I - K	2x4	DRY	No.2	SPF
T - B	2x4	DRY	No.2	SPF
L - J	2x4	DRY	No.2	SPF
T - R	2x4	DRY	No.2	SPF
R - O	2x4	DRY	No.2	SPF
O - L	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				
T - C	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (tablets in inches)	TYPE	W	LEN	Y	X
B	TMV-p	MT20	3.0	4.0	
C	TMVW-t	MT20	5.0	8.0	2.50 2.75
D	TTWV-m	MT20	5.0	8.0	2.00 3.25
E	TMVW-t	MT20	4.0	4.0	
F	TMVW-t	MT20	2.0	4.0	
G	YS-1	MT20	3.0	6.0	
H	TMVW-t	MT20	4.0	4.0	
I	TTWV-m	MT20	8.0	9.0	Edge
J	TMVW-p	MT20	5.0	8.0	1.75 3.00
L	BMV1-p	MT20	3.0	4.0	
M	BMVW-t	MT20	4.0	9.0	
N	BMVW-t	MT20	5.0	6.0	
O	BS-4	MT20	3.0	8.0	
P	BMVW-t	MT20	4.0	9.0	
Q	BMVW-t	MT20	4.0	6.0	
R	BS-4	MT20	3.0	6.0	
S	BMVW-t	MT20	4.0	4.0	
T	BMVW-t	MT20	4.0	9.0	Edge

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

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	DOWN	UPLIFT	IN-SX
T	2059	0	0	5-8
L	2080	0	0	5-8

UNFACTORED REACTIONS

1ST CASE	MAX/MIN	COMPONENT REACTIONS	PERM	LIVE	WIND	DEAD	SOIL
JT	1453	987 / 0	0 / 0	0 / 0	0 / 0	488 / 0	0 / 0
L	1454	988 / 0	0 / 0	0 / 0	0 / 0	487 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.16 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	MAX	MAX	WEBS	MAX. FACTORED	MAX
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 (LC)	UNBRAC	MEMB.	FORCE (LBS)	CS1 (LC)
FR-TO					FR-TO		
A-B	0 / 28	-91.8	-91.8 0.12 (1)	10.00	C-S	0 / 92	0.03 (4)
B-C	0 / 16	-91.8	-91.8 0.20 (1)	10.00	S-D	0 / 117	0.04 (4)
C-D	-2790 / 0	-91.8	-91.8 0.31 (1)	3.89	D-Q	0 / 1201	0.27 (1)
D-E	-3383 / 0	-91.8	-91.8 0.85 (1)	3.26	Q-E	-712 / 0	0.27 (1)
E-F	-3551 / 0	-91.8	-91.8 0.87 (1)	3.18	E-P	0 / 228	0.05 (1)
F-G	-3551 / 0	-91.8	-91.8 0.87 (1)	3.18	P-F	-454 / 0	0.17 (1)
G-H	-3551 / 0	-91.8	-91.8 0.87 (1)	3.15	P-H	0 / 607	0.14 (1)
H-I	-3100 / 0	-91.8	-91.8 0.81 (1)	3.42	N-H	-963 / 0	0.37 (1)
I-J	-2289 / 0	-91.8	-91.8 0.70 (1)	3.79	N-I	0 / 1601	0.38 (1)
J-K	0 / 35	-91.8	-91.8 0.12 (1)	10.00	M-I	-247 / 5	0.09 (1)
T-B	-270 / 0	0.0	0.0 0.03 (1)	7.81	T-C	-2895 / 0	0.82 (1)
L-J	-2017 / 0	0.0	0.0 0.21 (1)	5.94	M-J	0 / 1938	0.44 (1)
T-S	0 / 2410	-18.5	-18.5 0.53 (1)	10.00			
S-R	0 / 2480	-18.5	-18.5 0.53 (1)	10.00			
R-Q	0 / 2480	-18.5	-18.5 0.53 (1)	10.00			
Q-P	0 / 3393	-18.5	-18.5 0.80 (1)	10.00			
P-O	0 / 3100	-18.5	-18.5 0.55 (1)	10.00			
O-N	0 / 3100	-18.5	-18.5 0.55 (1)	10.00			
N-M	0 / 1897	-18.5	-18.5 0.38 (1)	10.00			
M-L	0 / 0	-18.5	-18.5 0.14 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH. LL = 25.6 PSF
 DL = 8.0 PSF
 BOT CH. LL = 0.0 PSF
 DL = 7.4 PSF
 TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. CG

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

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

THIS DESIGN COMPLIES WITH:
 - PART 9 OF BCBC 2018, OBC 2012, ABC 2019
 - PART 9 OF OBC 2012 (2019 AMENDMENT)
 - CSA 086-09, CSA 086-14
 - TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.21")
 ALLOWABLE DEFL.(TL) = L/360 (1.17")
 CALCULATED VERT. DEFL.(TL) = L/999 (0.39")

CS1: TC=0.70/1.00 (H-I), BC=0.60/1.00 (P-Q), WB=0.82/1.00 (C-T), SS=0.23/1.00 (H-I)

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

COMPANION LIVE LOAD FACTOR = 1.00

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 1887 788 1887 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (I) (INPUT = 0.90)
 JSI METAL= 0.90 (O) (INPUT = 1.00)



Structural component only
 DWG# T-2008061

100009024
PROVINCE OF ONTARIO

Structural component only
DWG# T-2008062

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408317	T59	1	2	GREEN PARK HOMES	

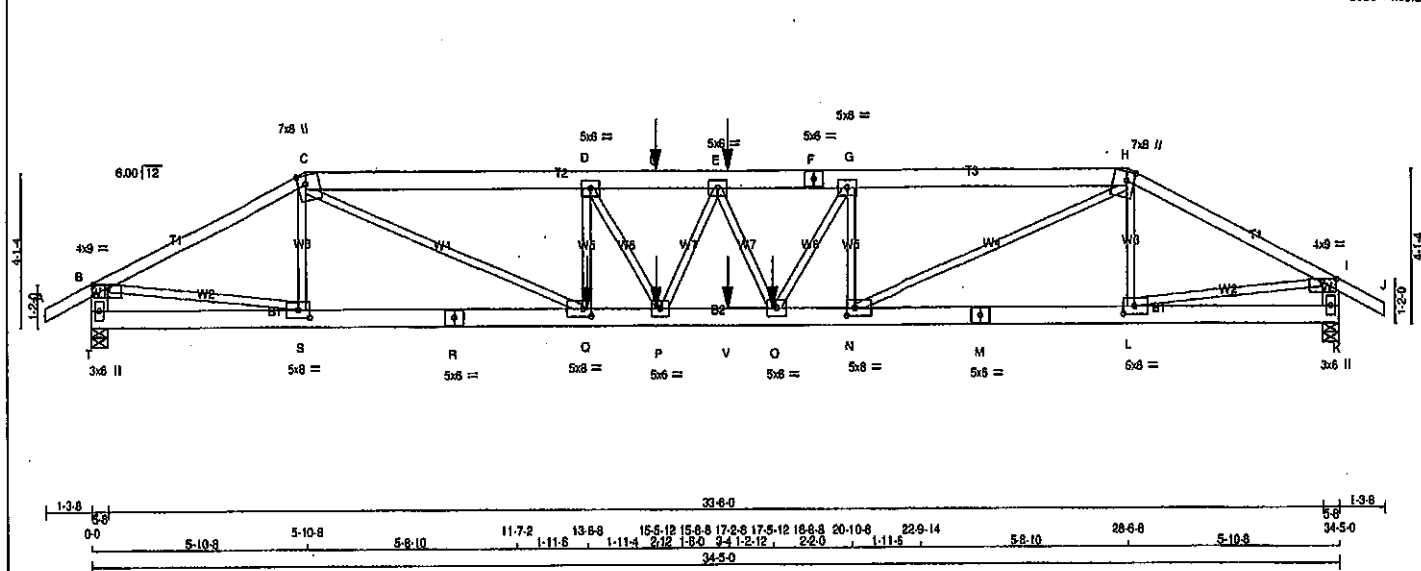
Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 10:50:43 2020 Page 1

ID:DMCubINVR6TsfFoe31v6I_zns1f-ut3ITSIRxTfeszSz17guHlu8QTSMInU8rwWPYzLZUw

1-3-8 0-0 5-10-8 5-10-8 5-8-10 11-7-2 13-8-8 15-5-12 15-8-8 17-2-8 17-5-12 19-8-8 20-10-8 22-9-14 28-6-8 34-5-0 35-8-8

Scale = 1:50.5



TOTAL WEIGHT = 2 X 167 = 335 lb (M)

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

DRY: SEASONED LUMBER.

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

CHORDS	ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS			
A-C	1	12	TOP
H-J	1	12	TOP
C-F	2	12	SIDE (0.0)
F-H	2	12	TOP
T-B	2	12	TOP
K-I	2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS			
T-R	2	12	TOP
R-M	2	12	SIDE (183.1)
M-K	2	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS			
Q-D	1	8	SIDE (237.3)
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.

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	RECORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	DOWN	IN-SX	IN-SX
T	4094	0	0	5-8
K	3933	0	0	5-8
UNFACTORED REACTIONS	1ST LOASE	MAX/MIN	COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM.LIVE
T	2885	1951/0	0/0	0/0
K	2772	1872/0	0/0	0/0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.22 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	CS1 (LC)	UNBRAC	MEMB.	MAX. FACTORED	MAX	CS1 (LC)
FR-TO											
A-B	0/28	-91.8	-91.8	0.07 (1)	10.00	S-C	-588/0	0.07 (1)			
B-C	-6510/0	-91.8	-91.8	0.64 (1)	3.38	L-H	-577/0	0.07 (1)			
C-D	-11856/0	-91.8	-91.8	0.54 (1)	3.22	B-S	0/5888	0.73 (1)			
D-E	-12303/0	-91.8	-91.8	0.34 (1)	3.31	L-I	0/5821	0.70 (1)			
U-E	-12303/0	-91.8	-91.8	0.34 (1)	3.31	P-E	-392/0	0.05 (1)			
E-F	-12488/0	-91.8	-91.8	0.33 (1)	3.30	E-O	0/60	0.01 (1)			
F-G	-12488/0	-91.8	-91.8	0.33 (1)	3.30	Q-D	-1367/0	0.18 (1)			
G-H	-11395/0	-91.8	-91.8	0.51 (1)	3.31	N-G	-2629/0	0.31 (1)			
H-I	-8215/0	-91.8	-91.8	0.82 (1)	3.47	D-P	0/706	0.09 (1)			
I-J	0/28	-91.8	-91.8	0.07 (1)	10.00	O-Q	0/2219	0.27 (1)			
T-B	-4082/0	0.0	0.0	0.14 (1)	7.08	C-Q	0/6770	0.84 (1)			
K-I	-3898/0	0.0	0.0	0.14 (1)	7.17	N-H	0/6441	0.80 (1)			

CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	CS1 (LC)	UNBRAC	MEMB.	MAX. FACTORED	MAX	CS1 (LC)
FR-TO											
A-B	0/0	-18.5	-18.5	0.08 (4)	10.00						
S-R	0/5853	-18.5	-18.5	0.48 (1)	10.00						
R-Q	0/5853	-18.5	-18.5	0.48 (1)	10.00						
Q-P	0/11958	-18.5	-18.5	0.87 (1)	10.00						
P-V	0/12482	-18.5	-18.5	0.93 (1)	10.00						
V-O	0/12482	-18.5	-18.5	0.93 (1)	10.00						
O-N	0/11395	-18.5	-18.5	0.86 (1)	10.00						
N-M	0/5588	-18.5	-18.5	0.43 (1)	10.00						
M-L	0/5588	-18.5	-18.5	0.43 (1)	10.00						
L-K	0/0	-18.5	-18.5	0.06 (4)	10.00						

FACTORED CONCENTRATED LOADS (LBS)	JT	LOC	LC1	MAX	FACE	DIR.	TYPE	HEEL	CONN.
E	17-5-12	-110	-110	---	BACK	VERT	TOTAL	---	C1
O	18-8-8	-2098	-2098	---	BACK	VERT	TOTAL	---	C1
P	15-5-12	-26	-26	---	BACK	VERT	TOTAL	---	C1
Q	13-8-8	-1811	-1811	---	BACK	VERT	TOTAL	---	C1
U	15-5-12	-110	-110	---	BACK	VERT	TOTAL	---	C1
V	17-5-12	-26	-26	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.8 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 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, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.15')
CALCULATED VERT. DEFL.(LL) = L/899 (0.34')
ALLOWABLE DEFL.(TL) = L/360 (1.15')
CALCULATED VERT. DEFL.(TL) = L/671 (0.82')

CS1: TC=0.64/1.00 (B-C:1), BC=0.93/1.00 (O-P:1),
WB=0.84/1.00 (C-Q:1), SS1=0.13/1.00 (C-D: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

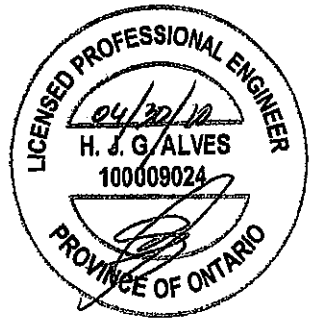
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1887 788 1987 1658

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (N) (INPUT = 0.90)
JSI METAL = 0.60 (R) (INPUT = 1.00)



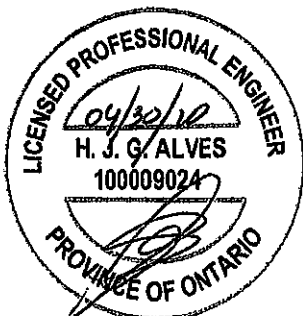
Structural component only
DWG# T-2008063 1/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ORWG NO.
408317	T59	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Version 8.310 S Oct 29 2019 MTEK Industries, Inc. Thu Apr 30 10:50:43 2020 Page 2
ID:DMCub/NVRBTstFoe31v6l zns1l-ut3ITSITRXTiezSz17gubHlu8QTSMinU8rwWPYzLZLW

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWW-p	MT20	4.0	9.0	1.00	4.75
C	TTWW+m	MT20	7.0	8.0	2.75	2.50
D, E, G						
D	TMWW-l	MT20	5.0	6.0		
F	TS-l	MT20	5.0	6.0		
H	TTWW+m	MT20	7.0	8.0	2.75	2.50
I	TMWW-p	MT20	4.0	9.0	1.00	4.75
K	BMV1-p	MT20	3.0	6.0		
L	BMWW-l	MT20	5.0	8.0	2.50	3.75
M	BS-l	MT20	5.0	6.0		
N	BMWW-l	MT20	5.0	8.0	2.50	2.75
O	BMWW-l	MT20	6.0	6.0		
P	BMWW-l	MT20	5.0	6.0		
Q	BMWW-l	MT20	5.0	8.0	2.50	2.75
R	BS-l	MT20	5.0	6.0		
S	BMWW-l	MT20	5.0	8.0	2.50	3.75
T	BMV1-p	MT20	3.0	6.0		

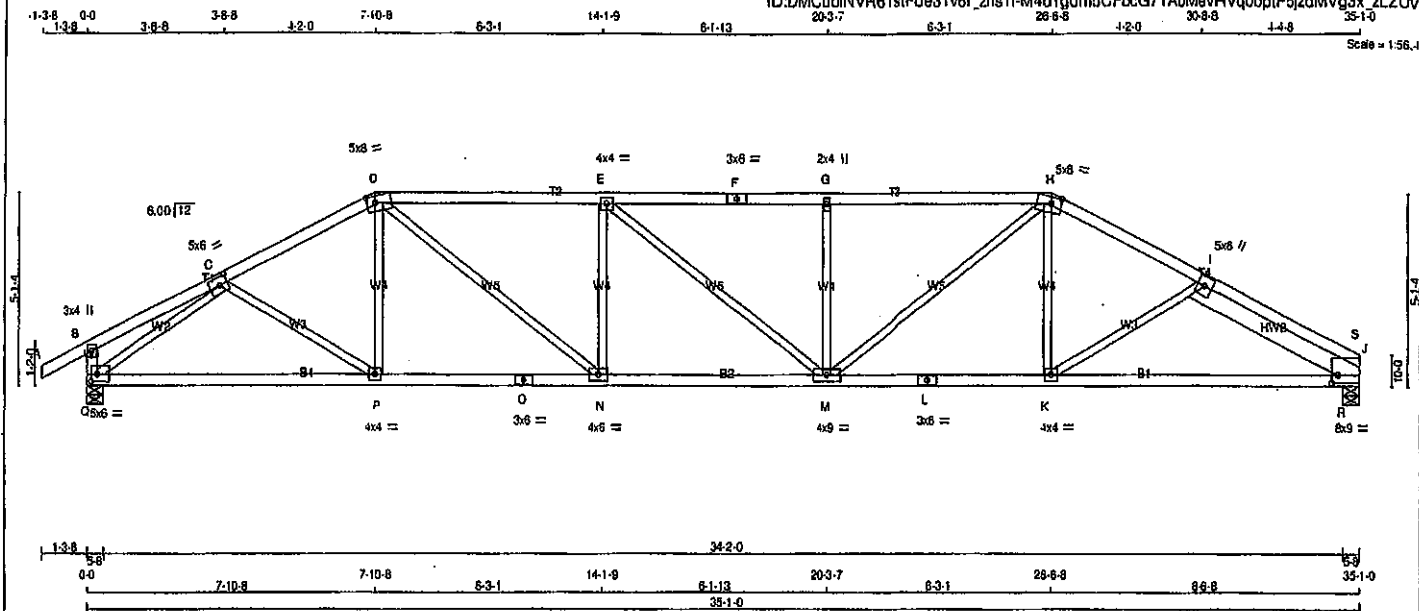


Structural component only
DWG# T-2008063

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408317	T60X	1	1	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 10:50:44 2020 Page 1
ID:DMCubINVR6TstFoe31v6l_2ns1-M4d1gom5CFbcG71AbMavRVq0bplP5jzdMVg3x_zLZUv



TOTAL WEIGHT = 139 lb

LUMBER			
N. L. G. A. RULES	SIZE	DRY	LUMBER
CHORDS	2x4	DRY	No.2
A - D	2x4	DRY	No.2
O - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
H - J	2x4	DRY	No.2
Q - B	2x4	DRY	No.2
Q - O	2x4	DRY	No.2
O - L	2x4	DRY	No.2
L - J	2x4	DRY	No.2
REINFORCING MEMBERS			
HW2	2x6	DRY	No.2
ALL WEBS 2x3 DRY EXCEPT			
DRY: SEASONED LUMBER.			

PLATES (table in inches)					
JT TYPE	PLATES	W	LEN	Y	X
B	TMVp	MT20	3.0	4.0	
C	TMWW-I	MT20	5.0	6.0	2.50 2.75
D	TTWW-m	MT20	5.0	8.0	2.25 2.75
E	TMWW-I	MT20	4.0	4.0	
F	TS-I	MT20	3.0	6.0	
G	TMW-w	MT20	2.0	4.0	
H	TTWW-m	MT20	5.0	8.0	2.25 3.25
I	TMWW-I	MT20	5.0	6.0	
J	TMWW-I	MT20	8.0	9.0	2.50 2.00
K	BMWW-I	MT20	4.0	4.0	
L	BS-I	MT20	3.0	6.0	
M	BMWW-I	MT20	4.0	9.0	
N	BMWW-I	MT20	4.0	6.0	
O	BS-I	MT20	3.0	6.0	
P	BMWW-I	MT20	4.0	4.0	
Q	BMWW-I	MT20	5.0	6.0	2.25 2.00

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT	REQD
JT	VERT	HORZ	DOWN	UPLIFT
J	1934	0	1934	0
Q	2059	0	2059	0

UNFACTORED REACTIONS

1ST CASE	MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD
J	1368	898 / 0	0 / 0	0 / 0	0 / 0	470.0
Q	1453	987 / 0	0 / 0	0 / 0	0 / 0	488.0

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

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 (LBS)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO	MAX. UNBRAC LENGTH	FR-TO			
A-B	0 / 28	-91.8 -91.8	0.12 (1) 10.00	C-P	0 / 130	0.04 (4)	
B-C	0 / 17	-91.8 -91.8	0.19 (1) 10.00	P-D	0 / 118	0.04 (4)	
C-D	-2789 / 0	-91.8 -91.8	0.32 (1) 3.89	D-N	0 / 1246	0.28 (1)	
D-E	-3469 / 0	-91.8 -91.8	0.85 (1) 3.05	N-E	-855 / 0	0.28 (1)	
E-F	-3515 / 0	-91.8 -91.8	0.85 (1) 3.02	E-M	0 / 59	0.01 (1)	
F-G	-3515 / 0	-91.8 -91.8	0.85 (1) 3.02	M-G	-817 / 0	0.24 (1)	
G-H	-3515 / 0	-91.8 -91.8	0.85 (1) 3.03	H-H	0 / 1128	0.25 (1)	
H-I	-2942 / 0	-91.8 -91.8	0.33 (1) 3.80	K-H	0 / 231	0.06 (4)	
I-S	-1493 / 0	-91.8 -91.8	0.23 (1) 5.13	K-I	-164 / 0	0.07 (1)	
S-J	-2458 / 0	-91.8 -91.8	0.16 (1) 4.25	Q-C	-2942 / 0	0.97 (1)	
Q-B	-252 / 0	0.0 0.0	0.03 (1) 7.81	R-S	0 / 1217	0.00 (1)	
				R-I	-1727 / 0	0.34 (1)	
Q-P	0 / 2368	-18.5 -18.5	0.52 (1) 10.00				
P-O	0 / 2481	-18.5 -18.5	0.53 (1) 10.00				
O-N	0 / 2481	-18.5 -18.5	0.53 (1) 10.00				
N-M	0 / 3469	-18.5 -18.5	0.83 (1) 10.00				
M-L	0 / 2821	-18.5 -18.5	0.54 (1) 10.00				
L-K	0 / 2821	-18.5 -18.5	0.54 (1) 10.00				
K-R	0 / 2754	-18.5 -18.5	0.56 (1) 10.00				
R-J	0 / 1333	-18.5 -18.5	0.35 (4) 10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.8 PSF
DL = 8.0 PSF	
BOT CH.	LL = 0.0 PSF
DL = 7.4 PSF	
TOTAL LOAD = 39.0 PSF	

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17")
CALCULATED VERT. DEFL.(LL) = L/999 (0.21")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/999 (0.40")

CSI: TC=0.85/1.00 (G-H:1), BC=0.63/1.00 (M-N:1),
WB=0.97/1.00 (C-Q:1), SS=0.28/1.00 (J-R:4)

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

COMPANION LIVE LOAD FACTOR = 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)
MAX	MIN	MAX
MT20	618	354
	1667	788
	1987	1656

PLATE PLACEMENT TOL = 0.250 inches

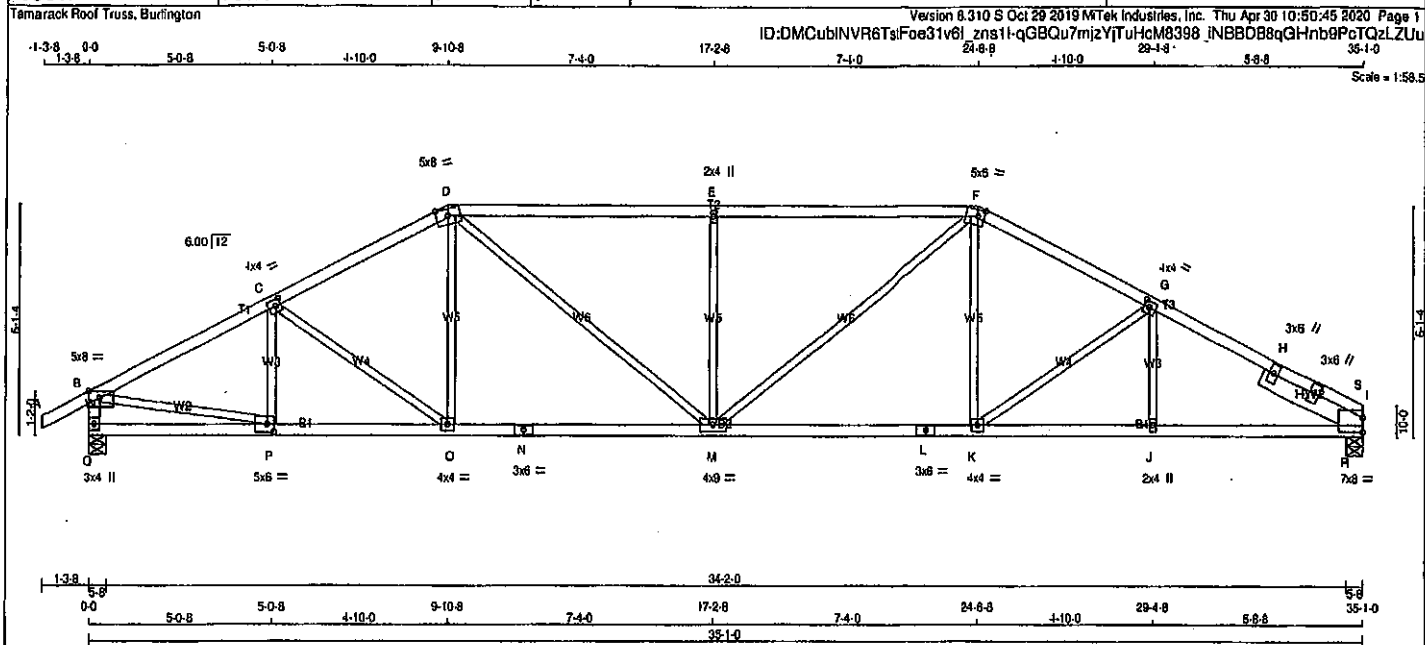
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.89 (H) (INPUT = 0.90)
JSI METAL = 0.81 (L) (INPUT = 1.00)



Structural component only
DWG# T-2008064

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408317	T61X	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		Version 6.310 S Oct 29 2019 MTek Industries, Inc. Thu Apr 30 10:50:45 2020 Page 1		ID:DMCubINVR6TsFoe31v6l_zns1t-qGBQu7mjzYtUhcM8398_INBDB8qGHnb9PcTQzLZUu	
		1-3-8 0-0 5-0-8 5-0-8 4-10-0 9-10-8 7-4-0 17-2-8 7-4-0 24-8-8 4-10-0 29-4-8 5-0-8 35-1-0		Scale = 1:58.5	



LUMBER				DESCR.	
N. L. G. A. RULES	SIZE	LUMBER			
CHORDS					
A - D	2x4	DRY	No.2	SPF	
D - F	2x4	DRY	No.2	SPF	
F - I	2x4	DRY	No.2	SPF	
O - B	2x4	DRY	No.2	SPF	
O - N	2x4	DRY	No.2	SPF	
N - L	2x4	DRY	No.2	SPF	
L - I	2x4	DRY	No.2	SPF	
REINFORCING MEMBERS					
HW2	2x6	DRY	No.2	SPF	
ALL WEBS	2x3	DRY	No.2	SPF	
EXCEPT					
DRY: SEASONED LUMBER.					

PLATES (tablets in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-p	MT20	5.0	8.0	Edges 3.50
C	TMVW-i	MT20	4.0	4.0	2.00 1.75
D	TTWW-m	MT20	5.0	8.0	2.25 3.75
E	TMVW-w	MT20	2.0	4.0	
F	TTWW-m	MT20	5.0	8.0	2.25 2.00
G	TMVW-i	MT20	4.0	4.0	2.00 1.75
I	TMBMR1-i	MT20	7.0	8.0	4.50
I	RT-i	MT20	3.0	6.0	
I	RT-i	MT20	3.0	6.0	
J	BMVW-w	MT20	2.0	4.0	
K	BMVW-i	MT20	4.0	4.0	
L	BS-i	MT20	3.0	6.0	
M	BMVW-w-i	MT20	4.0	9.0	
N	BS-i	MT20	3.0	6.0	
O	BMVW-i	MT20	4.0	4.0	
P	BMVW-i	MT20	5.0	6.0	2.50 2.00
Q	BMV-i-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		REQ'D	
JT	VERT	GROSS REACTION	DOWN	GROSS REACTION	DOWN	BRG	IN-SX	BRG	IN-SX
I	1934	0	0	1934	0	0	5-8	5-8	5-8
Q	2059	0	0	2059	0	0	5-8	5-8	5-8

UNFACTORED REACTIONS							
	1ST LOASE	MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
I	1368	898 / 0	0 / 0	0 / 0	0 / 0	470 / 0	0 / 0
Q	1453	987 / 0	0 / 0	0 / 0	0 / 0	486 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.03 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING
TOTAL LOAD CASES: (4)

CHORDS		FACTORED		MAX.		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD	LC1	MAX	UNBRAC	MEMB.	FORCE (LBS)	MAX	CSI (LC)
FR-TO		FROM	TO	LENGTH	FR-TO				
A-B	0 / 28	-91.8	-91.8	0.12 (1)	10.00	P-C	-351 / 0	0.08 (1)	
B-C	-2827 / 0	-91.8	-91.8	0.39 (1)	3.81	C-D	-213 / 0	0.13 (1)	
C-D	-2878 / 0	-91.8	-91.8	0.37 (1)	3.92	D-E	0 / 244	0.06 (4)	
D-E	-3031 / 0	-91.8	-91.8	0.88 (1)	3.03	E-F	0 / 835	0.19 (1)	
E-F	-3031 / 0	-91.8	-91.8	0.88 (1)	3.03	F-G	-828 / 0	0.48 (1)	
F-G	-2763 / 0	-91.8	-91.8	0.45 (1)	3.77	G-H	0 / 713	0.16 (1)	
G-H	-2210 / 0	-91.8	-91.8	0.53 (1)	4.02	H-I	0 / 321	0.07 (1)	
H-I	-2210 / 0	-91.8	-91.8	0.53 (1)	4.02	I-J	-315 / 0	0.20 (1)	
I-J	-2714 / 0	-91.8	-91.8	0.17 (1)	4.09	J-K	0 / 71	0.02 (4)	
J-K	-2014 / 0	0.0	0.0	0.20 (1)	5.95	K-L	0 / 2585	0.58 (1)	
K-L	0 / 0	-18.5	-18.5	0.10 (4)	10.00	L-M	0 / 1839	0.00 (1)	
L-M	0 / 2548	-18.5	-18.5	0.50 (1)	10.00	M-N	-1903 / 0	0.18 (1)	
M-N	0 / 2377	-18.5	-18.5	0.47 (1)	10.00	N-O			
N-O	0 / 2377	-18.5	-18.5	0.47 (1)	10.00	O-P			
O-P	0 / 2472	-18.5	-18.5	0.51 (1)	10.00	P-Q			
P-Q	0 / 2472	-18.5	-18.5	0.51 (1)	10.00	Q-R			
Q-R	0 / 2727	-18.5	-18.5	0.55 (1)	10.00	R-S			
R-S	0 / 2727	-18.5	-18.5	0.73 (1)	10.00	S-T			
S-T	0 / 1301	-18.5	-18.5	0.50 (1)	10.00	T-U			

TOTAL WEIGHT = 137 lb

DESIGN CRITERIA	
SPECIFIED LOADS:	
TOP CH. LL	= 25.8 PSF
DL	= 6.0 PSF
BOT CH. LL	= 0.0 PSF
DL	= 7.4 PSF
TOTAL LOAD	= 39.0 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, NBCG 2010, NBCG 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(56 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $\frac{1}{360}$ (1.17")
CALCULATED VERT. DEFL.(LL) = $\frac{1}{999}$ (0.18")
ALLOWABLE DEFL.(TL) = $\frac{1}{360}$ (1.17")
CALCULATED VERT. DEFL.(TL) = $\frac{1}{999}$ (0.35")

CSI: TC=0.88/1.00 (D-E:1), BC=0.73/1.00 (J-R:1),
WB=0.58/1.00 (B-P:1), SS=0.37/1.00 (I-R: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.

TRUSS MANUFACTURING PLANT .						
NAIL VALUES						
PLATE	GRIP(DRY)		SHEAR		SECTION	
	(PS)		(PL)		(PL)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	618	354	1667	788	1987	1656

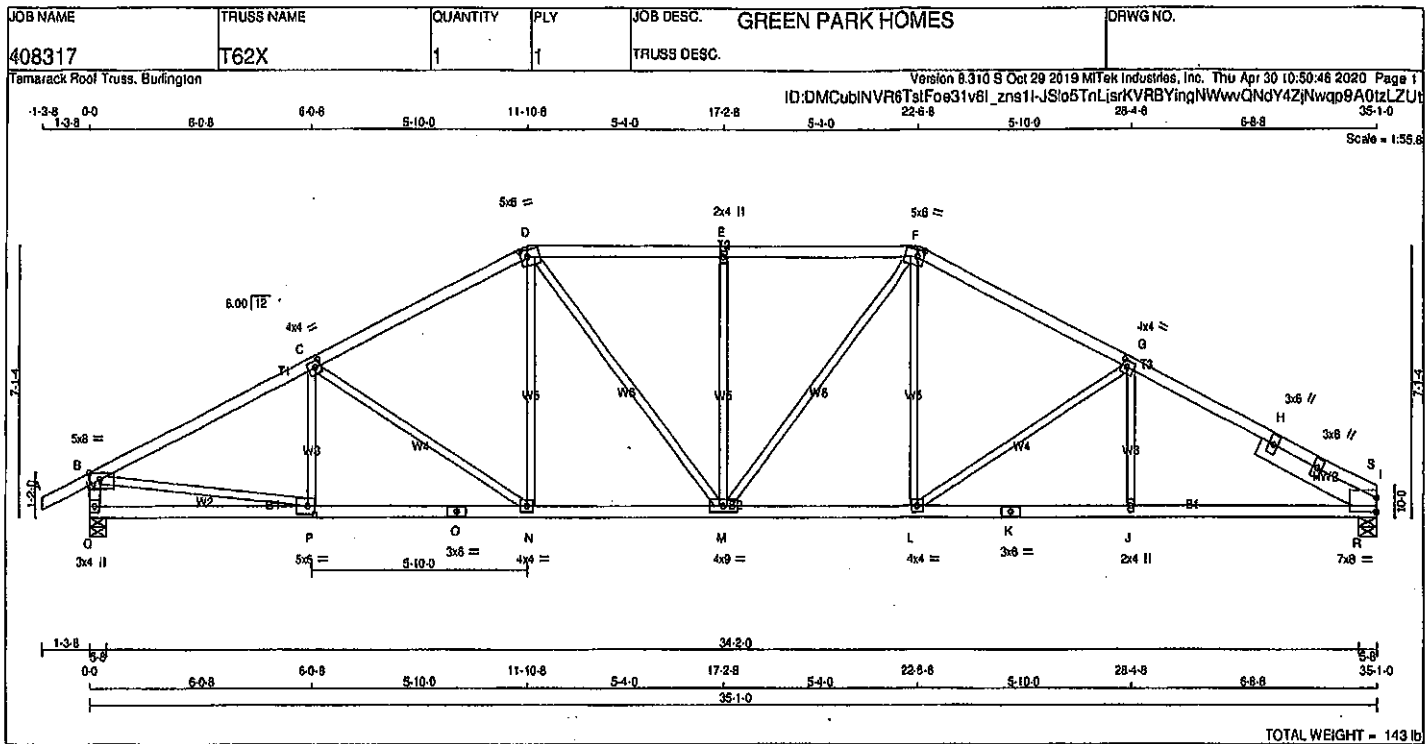
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (F) (INPUT = 0.90)
JSI METAL= 0.98 (I) (INPUT = 1.00)



Structural component only
DWG# T-2008065



LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - I	2x4	DRY	No.2
Q - B	2x4	DRY	No.2
Q - O	2x4	DRY	No.2
O - K	2x4	DRY	No.2
K - I	2x4	DRY	No.2

REINFORCING MEMBERS

HW2	SIZE	LUMBER	DESCR.
HW2	2x6	DRY	No.2

ALL WEBS 2x3 DRY EXCEPT

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		REQD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
I	1934	0	1934	0	0	5-8	5-8	
Q	2059	0	2059	0	0	5-8	5-8	

UNFACTORED REACTIONS

JT	1ST CASE MAX/MIN COMPONENT REACTIONS						
	COMBINED	SNOW	LIVE	PERM LIVE	WIND	DEAD	SOIL
I	1368	898 / 0	0 / 0	0 / 0	0 / 0	470 / 0	0 / 0
Q	1453	967 / 0	0 / 0	0 / 0	0 / 0	498 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.58 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	PSF
DL	25.6	PSF
BOT CH.	LL	PSF
DL	0.0	PSF
DL	7.4	PSF
TOTAL LOAD	39.0	PSF

SPACING = 24.0 IN./C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2010, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 085-14
- TPIC 2011, TPIC 2014

(58% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	8.0	Edge	3.50
C	TMVW-I	MT20	4.0	4.0	2.00	1.75
D	TTVW-m	MT20	5.0	6.0	2.25	2.00
E	TMVW-w	MT20	5.0	4.0		
F	TTVW-m	MT20	5.0	8.0	2.25	2.00
G	TMVW-I	MT20	4.0	4.0	2.00	1.75
I	TMVW-I	MT20	7.0	8.0	4.50	
I	RT-I	MT20	3.0	8.0		
I	RT-I	MT20	3.0	6.0		
J	BMVW-w	MT20	2.0	4.0		
K	BS-I	MT20	3.0	6.0		
L	BMVW-I	MT20	4.0	4.0		
M	BMVW-W-I	MT20	4.0	9.0		
N	BMVW-I	MT20	4.0	4.0		
O	BS-I	MT20	3.0	6.0		
P	BMVW-I	MT20	5.0	6.0	2.50	2.25
Q	BMV-I-p	MT20	3.0	4.0		

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	VERT. LOAD LC1 (PLF)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO				
A-B	0 / 28	-91.8 -91.8 0.12 (1)	10.00	P-C -253 / 13 0.07 (1)
B-C	-2881 / 0	-91.8 -91.8 0.58 (1)	3.58	C-N -437 / 0 0.42 (1)
C-D	-2530 / 0	-91.8 -91.8 0.52 (1)	3.84	N-D 0 / 349 0.08 (1)
D-E	-2538 / 0	-91.8 -91.8 0.42 (1)	3.84	D-M 0 / 481 0.11 (1)
E-F	-2538 / 0	-91.8 -91.8 0.42 (1)	3.84	M-E -597 / 0 0.52 (1)
F-G	-2579 / 0	-91.8 -91.8 0.58 (1)	3.75	M-F 0 / 384 0.09 (1)
G-H	-2225 / 0	-91.8 -91.8 0.51 (1)	4.08	L-F 0 / 417 0.09 (1)
H-S	-2225 / 0	-91.8 -91.8 0.51 (1)	4.08	L-G -537 / 0 0.52 (1)
S-I	-2647 / 0	-91.8 -91.8 0.13 (1)	4.17	J-G 0 / 111 0.04 (4)
O-B	-2009 / 0	0.0 0.0 0.20 (1)	5.95	B-P 0 / 2628 0.59 (1)
				R-S 0 / 1648 0.00 (1)
				R-H -1850 / 0 0.19 (1)
O-P	0 / 0	-18.5 -18.5 0.15 (4)	10.00	
P-O	0 / 2602	-18.5 -18.5 0.49 (1)	10.00	
O-N	0 / 2802	-18.5 -18.5 0.49 (1)	10.00	
N-M	0 / 2241	-18.5 -18.5 0.43 (1)	10.00	
M-L	0 / 2301	-18.5 -18.5 0.48 (1)	10.00	
L-K	0 / 2744	-18.5 -18.5 0.53 (1)	10.00	
K-J	0 / 2744	-18.5 -18.5 0.53 (1)	10.00	
J-R	0 / 2744	-18.5 -18.5 0.68 (1)	10.00	
R-I	0 / 1303	-18.5 -18.5 0.45 (1)	10.00	

ALLOWABLE DEFL.(LL) = L/360 (1.17")
CALCULATED VERT. DEFL.(LL) = 1/999 (0.16")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = 1/999 (0.30")

CSI: TC=0.58/1.00 (B-C:1), BC=0.88/1.00 (J-R:1),
WB=0.59/1.00 (B-P:1), SSI=0.31/1.00 (I-R:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	818 354	1867 788

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.89 (P) (INPUT = 0.90)
JSI METAL=0.98 (I) (INPUT = 1.00)



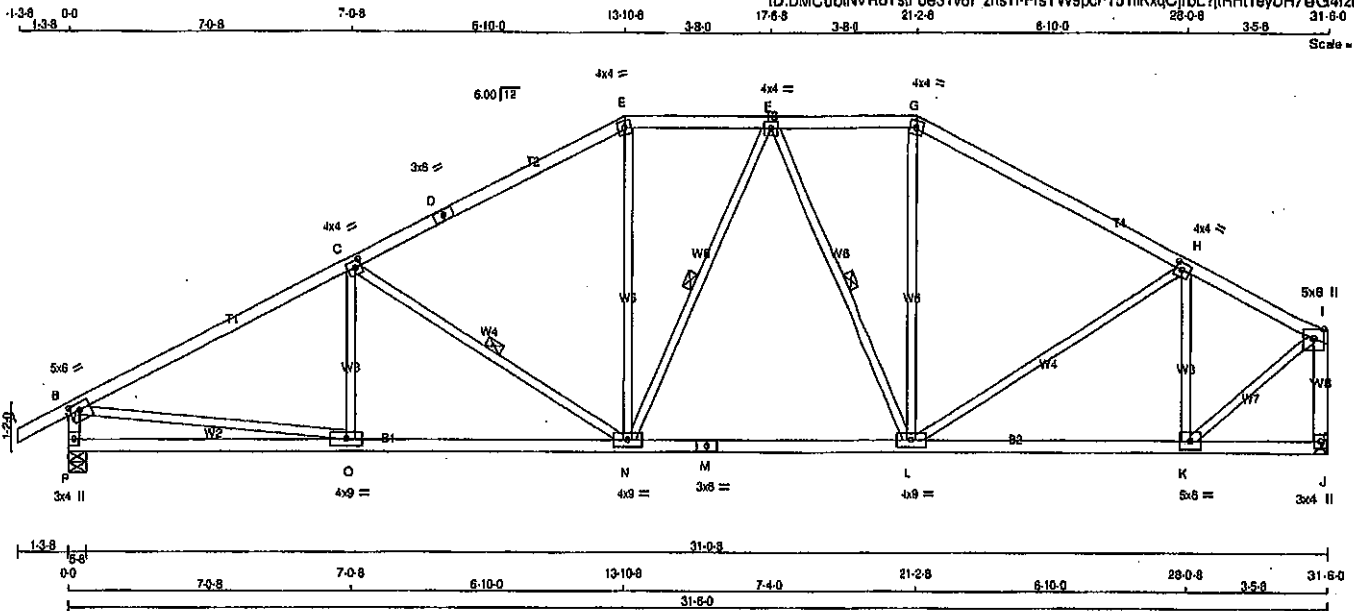
Structural component only
DWG# T-2008066

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408317	T63	1	1	GREEN PARK HOMES	
TRUSS DESC.					

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MTek Industries, Inc. Thu Apr 30 10:50:48 2020 Page 1

ID:DMCubINV6TstFoe31v6l zns11-FrsYV9pcFT51IKxgCjrbL7iIRH1eyDH7eG4izLZUr



Scale = 1:51.4

TOTAL WEIGHT = 135 lb

CHORDS	SIZE	DRY	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - E	2x4	DRY	No.2	SPF
E - G	2x4	DRY	No.2	SPF
G - I	2x4	DRY	No.2	SPF
P - B	2x4	DRY	No.2	SPF
J - I	2x4	DRY	No.2	SPF
P - M	2x4	DRY	No.2	SPF
M - J	2x4	DRY	No.2	SPF

ALL WEBS 2x3 DRY No.2 EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)	W	LEN	Y	X
JT TYPE PLATES				
B TMWW-1	MT20	5.0	6.0	2.00 2.75
C TMWW-1	MT20	4.0	4.0	2.00 1.75
D TS-1	MT20	3.0	6.0	
E TTW-m	MT20	4.0	4.0	
F TMWW-1	MT20	4.0	4.0	
G TTW-m	MT20	4.0	4.0	
H TMWW-1	MT20	4.0	4.0	2.00 1.75
I TMWW-p	MT20	5.0	6.0	Edge
J BMV1-p	MT20	3.0	4.0	
K BMWW-1	MT20	5.0	6.0	
L BMWW-1	MT20	4.0	9.0	
M BS-1	MT20	3.0	6.0	
N BMWW-1	MT20	4.0	9.0	
O BMWW-1	MT20	4.0	9.0	
P BMV1-p	MT20	3.0	4.0	

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

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	UP
P	1861	0	1861	0
J	1736	0	1736	0

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

UNFACTORED REACTIONS

1ST CASE	MAX. / MIN. COMPONENT REACTIONS	PERMANENT	WIND	DEAD	SOIL
JT	COMBINED SNOW	LIVE	PERMANENT	WIND	DEAD
P	1314	875 / 0	0 / 0	0 / 0	438 / 0
J	1228	806 / 0	0 / 0	0 / 0	422 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLINE SPACING = 3.50 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-N, F-N, F-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	MAX. FACTORED MEMB. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED VERT. LOAD (LBS)
FR-TO							
A-B	0 / 28	-91.8	-91.8	0.12 (1)	10.00	O-C	-142 / 66
B-C	-2544 / 0	-91.8	-91.8	0.77 (1)	3.50	C-N	-680 / 0
C-D	-1971 / 0	-91.8	-91.8	0.87 (1)	4.01	N-E	0 / 497
D-E	-1971 / 0	-91.8	-91.8	0.87 (1)	4.01	E-F	-6 / 33
E-F	-1737 / 0	-91.8	-91.8	0.18 (1)	4.90	F-L	-438 / 0
F-G	-1558 / 0	-91.8	-91.8	0.17 (1)	5.12	L-G	0 / 387
G-H	-1783 / 0	-91.8	-91.8	0.59 (1)	4.35	H-I	0 / 275
H-I	-1426 / 0	-91.8	-91.8	0.43 (1)	4.93	I-K	-907 / 0
I-K	-1806 / 0	0.0	0.0	0.18 (1)	6.23	K-I	0 / 2323
J-I	-1716 / 0	0.0	0.0	0.27 (1)	6.35		
P-O	0 / 0	-18.5	-18.5	0.21 (4)	10.00		
O-N	0 / 2908	-18.5	-18.5	0.47 (1)	10.00		
N-M	0 / 1740	-18.5	-18.5	0.39 (1)	10.00		
M-L	0 / 1740	-18.5	-18.5	0.39 (1)	10.00		
L-K	0 / 1320	-18.5	-18.5	0.32 (1)	10.00		
K-J	0 / 0	-18.5	-18.5	0.12 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	= 25.6 PSF
DL	= 8.0 PSF
BOT CH. LL	= 0.0 PSF
DL	= 7.4 PSF
TOTAL LOAD	= 39.0 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 2010, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.I. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = $L/360$ (1.05")
CALCULATED VERT. DEFL. (LL) = $L/999$ (0.10")
ALLOWABLE DEFL. (TL) = $L/360$ (1.05")
CALCULATED VERT. DEFL. (TL) = $L/999$ (0.20")

CSI: TC=0.77/1.00 (B-C:1), BC=0.47/1.00 (N-O:1),
WB=0.52/1.00 (B-O:1), SSI=0.29/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (E) (INPUT = 0.90)
JSI METAL = 0.69 (B) (INPUT = 1.00)



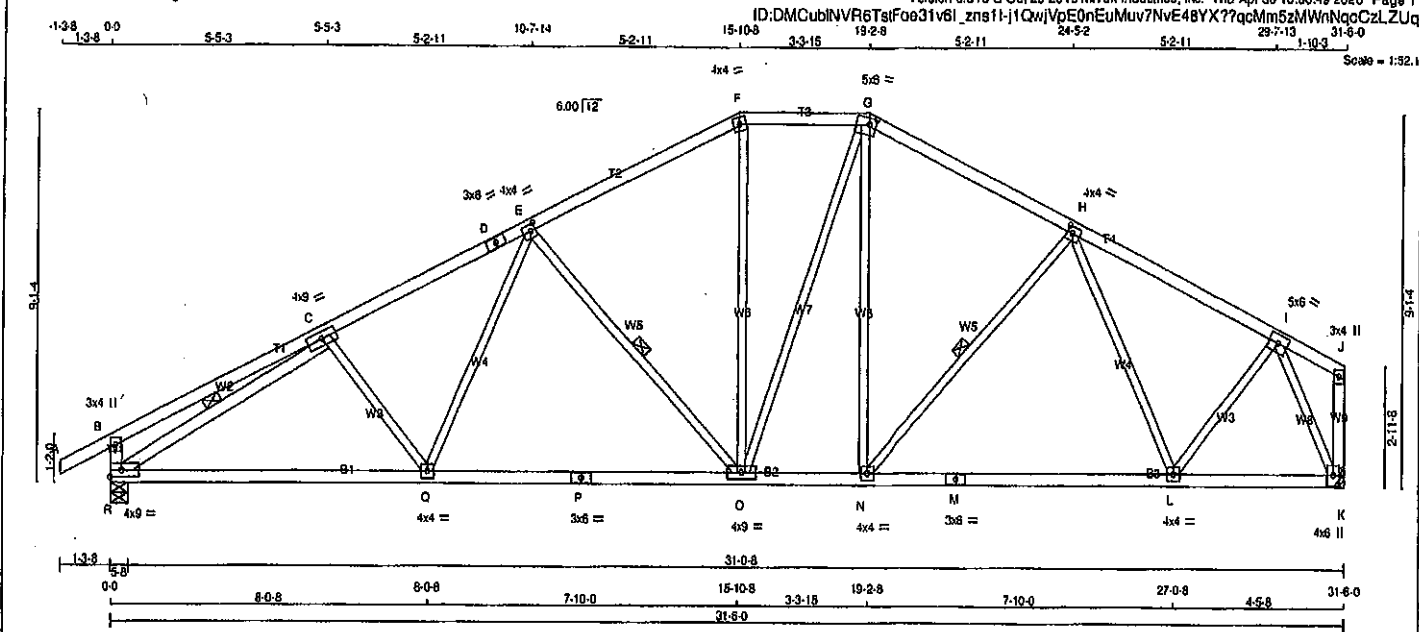
Structural component only
DWG# T-2008067

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408317	T64	2	1	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MTak Industries, Inc. Thu Apr 30 10:50:49 2020 Page 1

ID:DMCubINVR6TstFoe31v6I_znsf1-j1QwVpE0nEuMuv7NvE48YX77qcMm5zMWntNqCzLZUq



TOTAL WEIGHT = 2 X 142 = 285 lb

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF	
D - F	2x4	DRY	No.2	SPF	
F - G	2x4	DRY	No.2	SPF	
G - J	2x4	DRY	No.2	SPF	
J - B	2x4	DRY	No.2	SPF	
K - J	2x4	DRY	No.2	SPF	
P - P	2x4	DRY	No.2	SPF	
P - M	2x4	DRY	No.2	SPF	
M - K	2x4	DRY	No.2	SPF	
ALL WEBS	2x3	DRY	No.2	SPF	
EXCEPT					
R - C	2x4	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

PLATES (table in inches)	JT TYPE	PLATES	W	LEN	Y	X
B TMV+p	MT20	3.0	4.0			
C TMWV-t	MT20	4.0	9.0			
D TS-t	MT20	3.0	6.0			
E TMWV-t	MT20	4.0	4.0	2.00	1.50	
F TTW-m	MT20	4.0	4.0			
G TTWV-m	MT20	5.0	6.0	2.00	2.00	
H TMWV-t	MT20	4.0	4.0	2.00	1.50	
I TMWV-t	MT20	5.0	6.0			
J TMV+p	MT20	3.0	4.0			
K BMVW1+p	MT20	4.0	6.0			
L, N, Q						
L BMWV-t	MT20	4.0	4.0			
M BS-t	MT20	3.0	6.0			
O BMWV-t	MT20	4.0	9.0			
P BS-t	MT20	3.0	6.0			
R BMVW1-t	MT20	4.0	9.0			Edge

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

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	UPLIFT
R	1861	0	1861	0
K	1738	0	1738	0

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

UNFACTORED REACTIONS

1ST CASE	MAX/MIN	COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
R	1314	875 / 0	0 / 0	0 / 0	438.0	0 / 0
K	1228	808 / 0	0 / 0	0 / 0	422.0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.14 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-O, H-N, C-R.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE	VERT. LOAD	MEMB.	FORCE
	(LBS)	LC1		(LBS)
FR-TO		FROM TO	FR-TO	
A-B	0 / 28	-91.8 -91.8 0.12 (1)	C-Q	-156 / 21
B-C	0 / 20	-91.8 -91.8 0.33 (1)	Q-E	0 / 318
C-D	-2389 / 0	-91.8 -91.8 0.36 (1)	E-O	-708 / 0
D-E	-2389 / 0	-91.8 -91.8 0.36 (1)	O-F	0 / 434
E-F	-1758 / 0	-91.8 -91.8 0.33 (1)	F-G	0 / 206
F-G	-1657 / 0	-91.8 -91.8 0.18 (1)	G-H	0 / 211
G-H	-1684 / 0	-91.8 -91.8 0.34 (1)	H-N	-140 / 0
H-I	-1501 / 0	-91.8 -91.8 0.33 (1)	I-L	-570 / 0
I-J	0 / 33	-91.8 -91.8 0.18 (1)	L-K	0 / 828
J-K	-324 / 0	0.0 0.0 0.03 (1)	K-R	-2678 / 0
K-L	-8 / 0	0.0 0.0 0.00 (1)	L-K	-1906 / 0
R-O	0 / 2233	-18.5 -18.5 0.52 (1)	O-P	0 / 2014
O-P	0 / 2014	-18.5 -18.5 0.48 (1)	P-Q	0 / 2014
P-Q	0 / 1487	-18.5 -18.5 0.33 (1)	Q-N	0 / 1487
Q-N	0 / 1575	-18.5 -18.5 0.36 (1)	N-M	0 / 1575
N-M	0 / 1575	-18.5 -18.5 0.36 (1)	M-L	0 / 849
M-L	0 / 849	-18.5 -18.5 0.27 (4)	L-K	

DESIGN CRITERIA

SPECIFIED LOADS:			
TOP CH.	LL	=	25.8 PSF
	DL	=	6.0 PSF
BOT CH.	LL	=	0.0 PSF
	DL	=	7.4 PSF
TOTAL LOAD		=	39.0 PSF

SPACING = 24.0 IN. C/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 CBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/380 (1.05")
CALCULATED VERT. DEFL.(LL) = L/999 (0.09")
ALLOWABLE DEFL.(TL) = L/380 (1.05")
CALCULATED VERT. DEFL.(TL) = L/999 (0.21")

CSI: TC=0.38/1.00 (C-E:1), BC=0.52/1.00 (Q-R:1), WB=0.54/1.00 (C-R:1), SSI=0.20/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES	PLATE GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
	MAX MIN	MAX MIN	MAX MIN
MT20	818 354	1867 788	1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.90 (C) (INPUT = 0.90)
JSI METAL = 0.73 (P) (INPUT = 1.00)

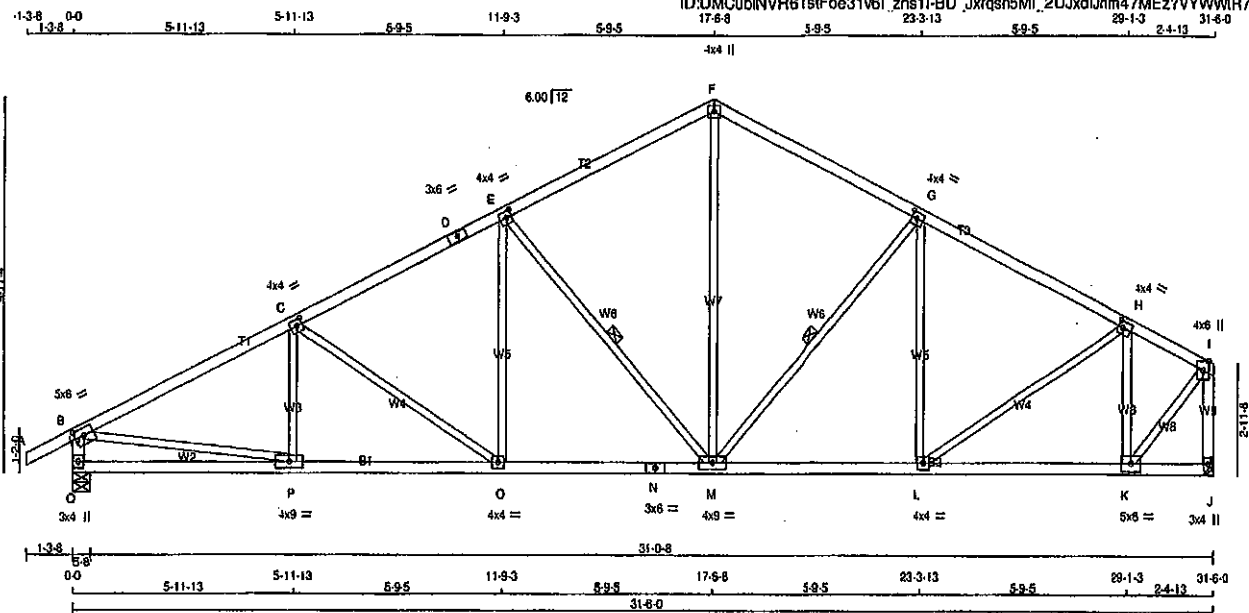


Structural component only
DWG# T-2008068

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408317	T65	3	1	GREEN PARK HOMES	

Tamareck Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MTek Industries, Inc. Thu Apr 30 10:50:50 2020 Page 1
ID:DMCubINVR6TstFoe31v6l_zns11-BD_jxrqsn5MI_2UjxdJhm47MEz7VYWMR7N9ezLZUp



TOTAL WEIGHT = 3 X 138 = 413 lb

N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - I	2x4	DRY	No.2
O - B	2x4	DRY	No.2
J - I	2x4	DRY	No.2
Q - N	2x4	DRY	No.2
N - 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 - TMW-1	MT20	5.0	6.0	2.25	2.75
O, E, G					
C - TMW-1	MT20	4.0	4.0	2.00	1.75
D - TS-1	MT20	3.0	6.0		
F - TTW-1	MT20	4.0	4.0		
H - TMW-1	MT20	4.0	4.0	2.00	1.50
I - TMW-1	MT20	4.0	6.0	Edge	
J - BMW-1	MT20	3.0	4.0		
K - BMW-1	MT20	5.0	6.0		
L - BMW-1	MT20	4.0	4.0		
M - BMW-1	MT20	4.0	9.0		
N - BS-1	MT20	3.0	6.0		
O - BMW-1	MT20	4.0	4.0		
P - BMW-1	MT20	4.0	9.0		
Q - BW-1	MT20	3.0	4.0		

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

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
Q	1861 0	1861 0	5-8	5-8
J	1736 0	1736 0	MECHANICAL	

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

UNFACTORED REACTIONS

JT	1ST CASE COMBINED	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
Q	1314	875/0	0/0	0/0	0/0	0/0	438/0	0/0
J	1228	809/0	0/0	0/0	0/0	0/0	422/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.88 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF E-M, G-M.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CS1 (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 28	-91.8 -91.8 0.12 (1)	10.00	P-C	-209 25	0.06 (1)	
B-C	-2522/0	-91.8 -91.8 0.52 (1)	3.88	C-O	-393/0	0.36 (1)	
C-D	-2179/0	-91.8 -91.8 0.41 (1)	4.24	O-E	0 322	0.07 (1)	
D-E	-2179/0	-91.8 -91.8 0.41 (1)	4.24	E-M	-832/0	0.45 (1)	
E-F	-1596/0	-91.8 -91.8 0.40 (1)	4.80	M-F	0 985	0.22 (1)	
F-G	-1599/0	-91.8 -91.8 0.41 (1)	4.79	F-G	-320/0	0.17 (1)	
G-H	-1794/0	-91.8 -91.8 0.41 (1)	4.58	L-G	-269/0	0.23 (1)	
H-I	-1145/0	-91.8 -91.8 0.18 (1)	5.74	L-H	0 678	0.15 (1)	
Q-B	-1813/0	0 0 0.18 (1)	6.21	K-H	-1072/0	0.28 (1)	
J-I	-1728/0	0 0 0.27 (1)	6.33	B-P	0 2299	0.52 (1)	
				K-I	0 1565	0.35 (1)	
Q-P	0/0	-18.5 -18.5 0.14 (4)	10.00				
P-O	0 2276	-18.5 -18.5 0.43 (1)	10.00				
O-N	0 1949	-18.5 -18.5 0.39 (1)	10.00				
N-M	0 1949	-18.5 -18.5 0.39 (1)	10.00				
M-L	0 1618	-18.5 -18.5 0.33 (1)	10.00				
L-K	0 1051	-18.5 -18.5 0.23 (1)	10.00				
K-J	0 0	-18.5 -18.5 0.09 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	= 25.6	PSF
	DL	= 6.0	PSF
BOT CH.	LL	= 0.0	PSF
	DL	= 7.4	PSF
TOTAL LOAD		= 39.0	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, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = 1/380 (1.05")
CALCULATED VERT. DEFL. (LL) = 1/999 (0.10")
ALLOWABLE DEFL. (TL) = 1/380 (1.05")
CALCULATED VERT. DEFL. (TL) = 1/999 (0.19")

CS1: TC=0.52/1.00 (B-C:1), SC=0.43/1.00 (O-P:1), WB=0.52/1.00 (B-P:1), SS=0.23/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP (DRY)	SHEAR SECTION (PSI)	PLI	SECTION (PSI)

PLATE PLACEMENT TOL. = 0.260 inches

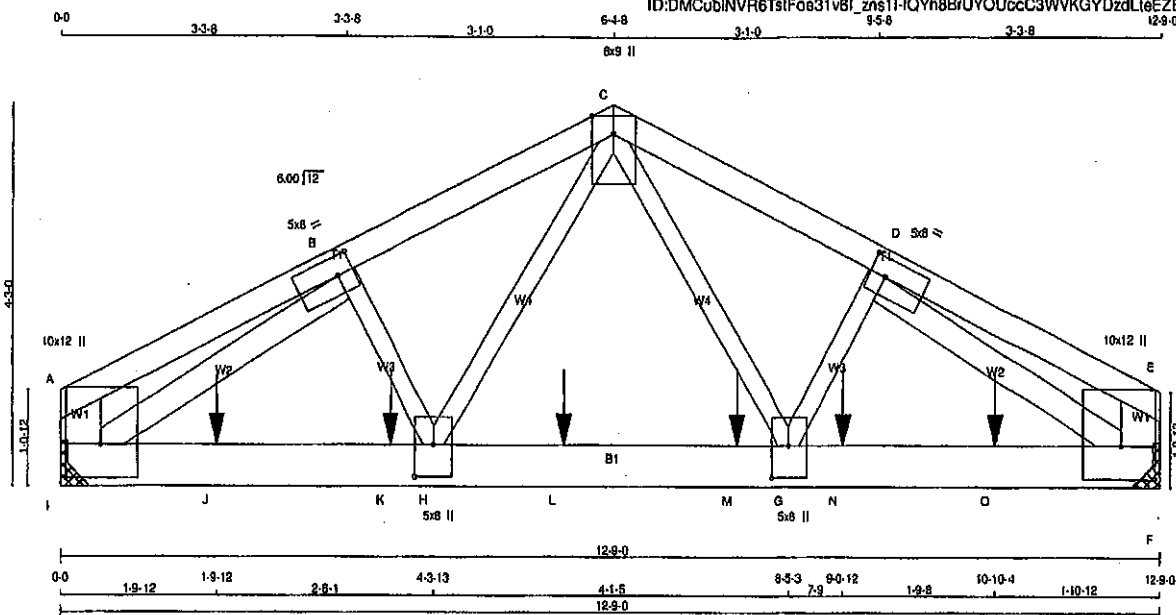
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (P) (INPUT = 0.90)
JSI METAL = 0.67 (B) (INPUT = 1.00)



Structural component only
DWG# T-2008069

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408317	T66	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		Version 8.310 S Oct 29 2019 MTek Industries, Inc. Thu Apr 30 10:50:52 2020 Page 1			
		ID:DMCubINVR6TstFoe31v8I_zns11-IQYh8BrUYOUccC3WVKGYDzdLleEZey3fz5sxh3zLZUo			



TOTAL WEIGHT = 2 X 59 = 118 lb

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4 DRY	No.2	SPF		
C - E	2x4 DRY	No.2	SPF		
I - A	2x6 DRY	No.2	SPF		
F - E	2x6 DRY	No.2	SPF		
I - F	2x6 DRY	1650F 1.5E	SPF		

ALL WEBS	2x3 DRY	No.2	SPF
EXCEPT			
I - B	2x4 DRY	No.2	SPF
D - F	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
I-A	12	TOP
F-E	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
I-F	12	SIDE(0.0)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	
2x4	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.

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	RECORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	DOWN	HORIZ	UPLIFT
I	5734	0	5734	0
F	5980	0	5980	0

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

UNFACTORED REACTIONS

1ST LOOSE	MAX/MIN. COMPONENT REACTIONS
JT	COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL
I	4050 2888 / 0 0 / 0 0 / 0 1384 / 0 0 / 0
F	4224 2802 / 0 0 / 0 0 / 0 1422 / 0 0 / 0

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.18 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MEMB.	FORCE (LBS)
FR-TO		FROM TO	FR-TO	
A-B	-3 / 0	-91.8 -91.8 0.09 (1)	C-G	0 / 4282
B-C	-7793 / 0	-91.8 -91.8 0.31 (1)	G-D	0 / 1082
C-D	-8218 / 0	-91.8 -91.8 0.34 (1)	H-C	0 / 3477
D-E	-4 / 0	-91.8 -91.8 0.10 (1)	E-H	0 / 978
I-A	-150 / 0	0.0 0.0 0.01 (1)	I-B	-8011 / 0
F-E	-154 / 0	0.0 0.0 0.01 (1)	D-F	-8439 / 0
I-J	0 / 6530	-18.5 -18.5 0.69 (1)		
J-K	0 / 6530	-18.5 -18.5 0.69 (1)		
K-H	0 / 6530	-18.5 -18.5 0.69 (1)		
H-L	0 / 5336	-18.5 -18.5 0.57 (1)		
L-M	0 / 5336	-18.5 -18.5 0.57 (1)		
M-G	0 / 5336	-18.5 -18.5 0.57 (1)		
G-N	0 / 6878	-18.5 -18.5 0.72 (1)		
N-O	0 / 6878	-18.5 -18.5 0.72 (1)		
O-F	0 / 6878	-18.5 -18.5 0.72 (1)		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
J	1-9-12	-1718	-1718	---	BACK	VERT	TOTAL	---
K	3-8-12	-1718	-1718	---	BACK	VERT	TOTAL	---
L	5-9-12	-1718	-1718	---	BACK	VERT	TOTAL	---
M	7-9-12	-1718	-1718	---	BACK	VERT	TOTAL	---
N	9-0-12	-1718	-1718	---	BACK	VERT	TOTAL	---
O	10-10-4	-1718	-1718	---	BACK	VERT	TOTAL	---

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 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 BCBC 2018, CBC 2012, ABC 2010
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.43")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL) = L/360 (0.43")
CALCULATED VERT. DEFL.(TL) = L/999 (0.13")

CSI: TC=0.34/L(0.0), BC=0.72/L(0.0), F-G:1), WB=0.75/L(0.0), SS=0.88/L(0.0) (F-G:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

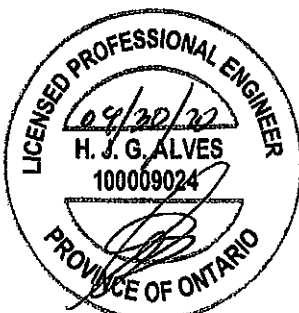
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 768 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (D) (INPUT = 0.90)
JSI METAL = 0.78 (D) (INPUT = 1.00)



Structural component only
DWG# T-2008070

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408317	T66	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

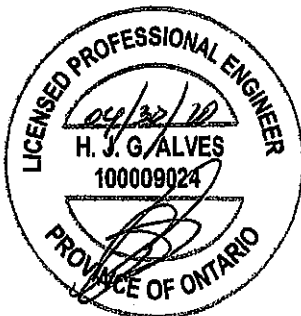
Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MiTek Industries, Inc. Thu Apr 30 10:50:52 2020 Page 2
ID:DMCubINVR6TstFog31v8I zns1i-7c83MXs6JicTDMel22nnmB9Wd2aozPjCicUDXzLZUn

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
A, E, F, I						
A	TMBMW1*	pMT20	10.0	12.0	4.50	4.75
B	TMBWW-I	MT20	5.0	8.0	2.50	2.25
C	TTWW+p	MT20	6.0	9.0	Edge	
D	TMBWW-I	MT20	5.0	8.0	2.50	2.25
E	TMBMW1*	pMT20	10.0	12.0	4.50	4.75
G	BMBWW-H	MT20	5.0	8.0	4.25	2.50
H	BMBWW-H	MT20	5.0	8.0	4.25	2.50

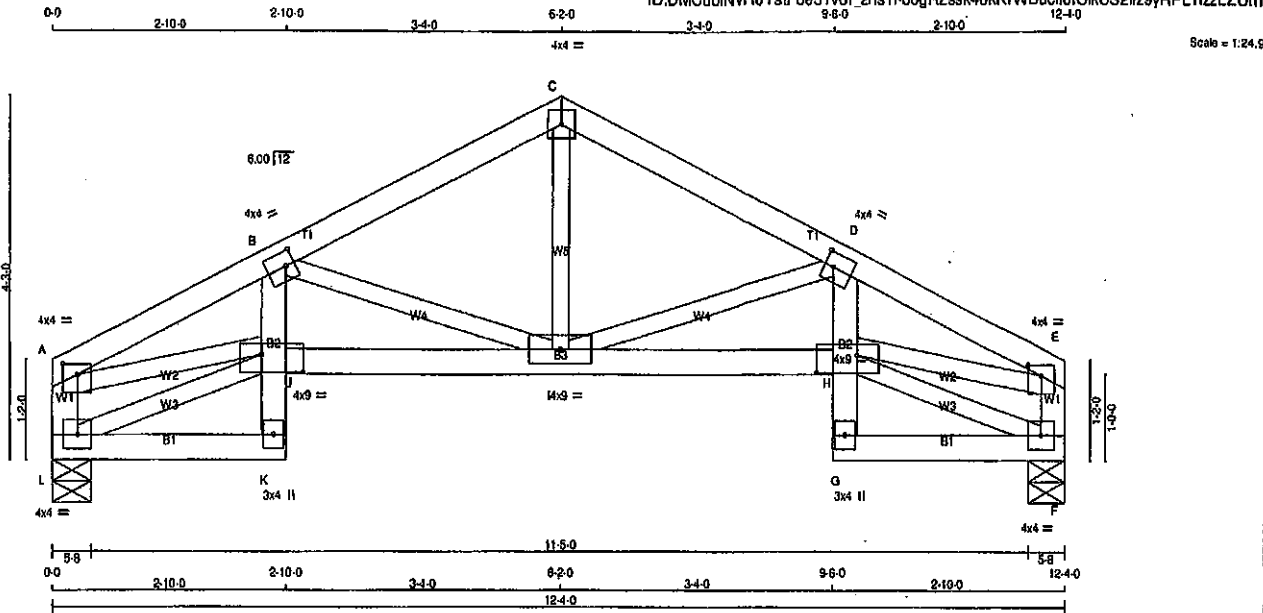
Edge - INDICATES REFERENCE CORNER OF PLATE
TOUCHES EDGE OF CHORD.



Structural component only
DWG# T-2008070 3/2

JOB NAME	TRUSS NAME	QUANTITY	PLV	JOB DESC.	DRWG NO.
408317	T67S	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 Mittek Industries, Inc. Thu Apr 30 10:50:53 2020 Page 1
ID:DMCubINVR6TstFoe31v6l_zns11-bogRZssk40KKrWDucl0i0i0iUS2fz9yRPL1lzzLZUm



TOTAL WEIGHT = 52 lb (MIF)

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
L - A	2x4	DRY	No.2
F - E	2x4	DRY	No.2
L - K	2x4	DRY	No.2
K - B	2x4	DRY	No.2
J - H	2x4	DRY	No.2
G - D	2x4	DRY	No.2
G - F	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
A	TMVW-p	MT20	4.0	4.0	1.50	2.00
B	TMVW-l	MT20	4.0	4.0	2.00	1.25
C	TTW-p	MT20	4.0	4.0		
D	TMVW-l	MT20	4.0	4.0	2.00	1.25
E	TMVW-p	MT20	4.0	4.0	1.50	2.00
F	BMVW-l	MT20	4.0	4.0		
G	BMVW-p	MT20	3.0	4.0		
H	BMVW-l	MT20	4.0	9.0	2.50	6.00
I	BMVW-l	MT20	4.0	9.0		
J	BMVW-l	MT20	4.0	9.0	2.50	6.00
K	BMVW-p	MT20	3.0	4.0		
L	BMVW-l	MT20	4.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
L	680	0	880	0	0	5-8	5-8	
F	680	0	880	0	0	5-8	5-8	

UNFACTORED REACTIONS

JT	1ST CASE		MAX/MIN COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
L	481	316 / 0	0 / 0	0 / 0	0 / 0	185.0	0 / 0
F	481	316 / 0	0 / 0	0 / 0	0 / 0	185.0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.55 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (LBS)	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO				FR-TO			
A-B	-1320 / 0	-91.8	-91.8 0.09 (1)	5.55	I-C	0.443	0.10 (1)
B-C	-816 / 0	-91.8	-91.8 0.14 (1)	6.25	I-D	-558 / 0	0.13 (1)
C-D	-816 / 0	-91.8	-91.8 0.14 (1)	6.25	S-I	-558 / 0	0.13 (1)
D-E	-1320 / 0	-91.8	-91.8 0.09 (1)	5.55	L-J	-74 / 0	0.01 (1)
L-A	-829 / 0	0.0	0.0 0.08 (1)	7.81	A-J	0 / 1193	0.27 (1)
F-E	-829 / 0	0.0	0.0 0.08 (1)	7.81	H-F	-74 / 0	0.01 (1)
					H-E	0 / 1193	0.27 (1)
L-K	0 / 69	-18.5	-18.5 0.04 (4)	10.00			
K-J	0 / 28	0.0	0.0 0.10 (1)	10.00			
J-B	0 / 87	0.0	0.0 0.11 (1)	10.00			
J-I	0 / 1249	-18.5	-18.5 0.24 (1)	10.00			
I-H	0 / 1249	-18.5	-18.5 0.24 (1)	10.00			
G-H	0 / 28	0.0	0.0 0.10 (1)	10.00			
H-D	0 / 87	0.0	0.0 0.11 (1)	10.00			
G-F	0 / 69	-18.5	-18.5 0.04 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.6	PSF
	DL = 6.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.4	PSF
TOTAL LOAD	= 39.0	PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2010, NBC 2012, ABC 2019
- PART 9 OF NBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.41")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL) = L/360 (0.41")
CALCULATED VERT. DEFL.(TL) = L/999 (0.06")

CSK: TO=0.14/1.00 (B-C:1), BC=0.24/1.00 (I-J:1),
WB=0.27/1.00 (A-J:1), SS=0.13/1.00 (B-C:1)
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	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.

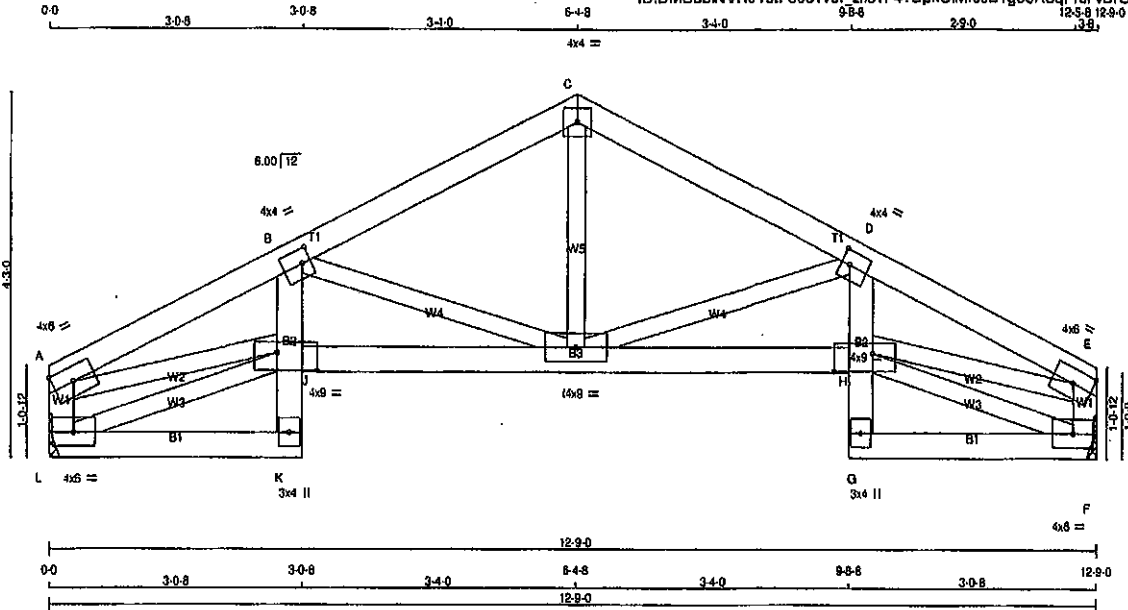
JSI GRIP = 0.86 (E) (INPUT = 0.90)
JSI METAL = 0.40 (A) (INPUT = 1.00)



Structural component only
DWG# T-2008071

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408317	T67SX	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 10:50:54 2020 Page 1
ID:DMCubNVReTstFoe31v8l_2ns11-47DpnCMrJsBTgo5ASqFrcFvDrObRQ75g25bIPzLZU



TOTAL WEIGHT = 53 lb
[M][F]

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

PLATES (table/s in inches)	JT	TYPE	PLATES	W	LEN	Y	X
A - TMW-1	MT20	4.0	8.0	Edge			
B - TMW-1	MT20	4.0	4.0	2.00	1.25		
C - TTW-p	MT20	4.0	4.0				
D - TMW-1	MT20	4.0	4.0	2.00	1.25		
E - TMW-1	MT20	4.0	6.0	Edge			
F - BMVW1-1	MT20	4.0	6.0				
G - BMV-p	MT20	3.0	4.0				
H - BMVW-1	MT20	4.0	9.0	2.50	5.75		
I - BMVW-1	MT20	4.0	9.0				
J - BMVW-1	MT20	4.0	9.0	2.50	5.75		
K - BMV-p	MT20	3.0	4.0				
L - BMVW1-1	MT20	4.0	6.0				

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

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQ'D
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
L	703	0	703	0
F	703	0	703	0

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

UNFACTORED REACTIONS	1ST LOASE	MAX/MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW
L	497	328 / 0
F	497	328 / 0

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.35 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.	MEMB.
MAX. FACTORED	MAX. FACTORED
FORCE	FORCE
(LBS)	(LBS)
FR-TO	FR-TO
FROM	FROM
TO	TO
CS1 (LC)	CS1 (LC)
UNBRAC	UNBRAC
LENGTH	LENGTH
FR-TO	FR-TO
A-B	-1445 / 0
B-C	-871 / 0
C-D	-871 / 0
D-E	-1444 / 0
L-A	-848 / 0
F-E	-848 / 0
L-K	0 / 81
K-J	0 / 30
J-B	0 / 135
J-I	0 / 1370
I-H	0 / 1389
G-H	0 / 30
H-D	0 / 134
G-F	0 / 81
B-I	-634 / 0
I-C	0 / 493
I-D	-833 / 0
L-J	-88 / 0
A-J	0 / 1307
H-F	-88 / 0
H-E	0 / 1308
L-K	-18.5
K-J	-18.5
J-B	-18.5
J-I	-18.5
I-H	-18.5
G-H	-18.5
H-D	-18.5
G-F	-18.5
L-K	0.05
K-J	0.11
J-B	0.13
J-I	0.25
I-H	0.25
G-H	0.11
H-D	0.13
G-F	0.05
L-K	10.00
K-J	10.00
J-B	10.00
J-I	10.00
I-H	10.00
G-H	10.00
H-D	10.00
G-F	10.00

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. CG

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, ABC 2019
PART 9 OF OBC 2012 (2019 AMENDMENT)
CSA 088-09, CSA 088-14
TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = $\frac{1}{360}$ (0.43")
CALCULATED VERT. DEFL. (LL) = $\frac{1}{999}$ (0.04")
ALLOWABLE DEFL. (TL) = $\frac{1}{360}$ (0.43")
CALCULATED VERT. DEFL. (TL) = $\frac{1}{999}$ (0.07")

CSI: TO=0.14/1.00 (C-D:1), BC=0.25/1.00 (I-J:1), WB=0.29/1.00 (A-J:1), SS=0.19/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

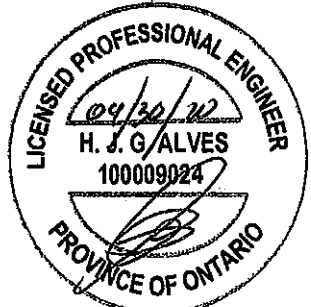
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

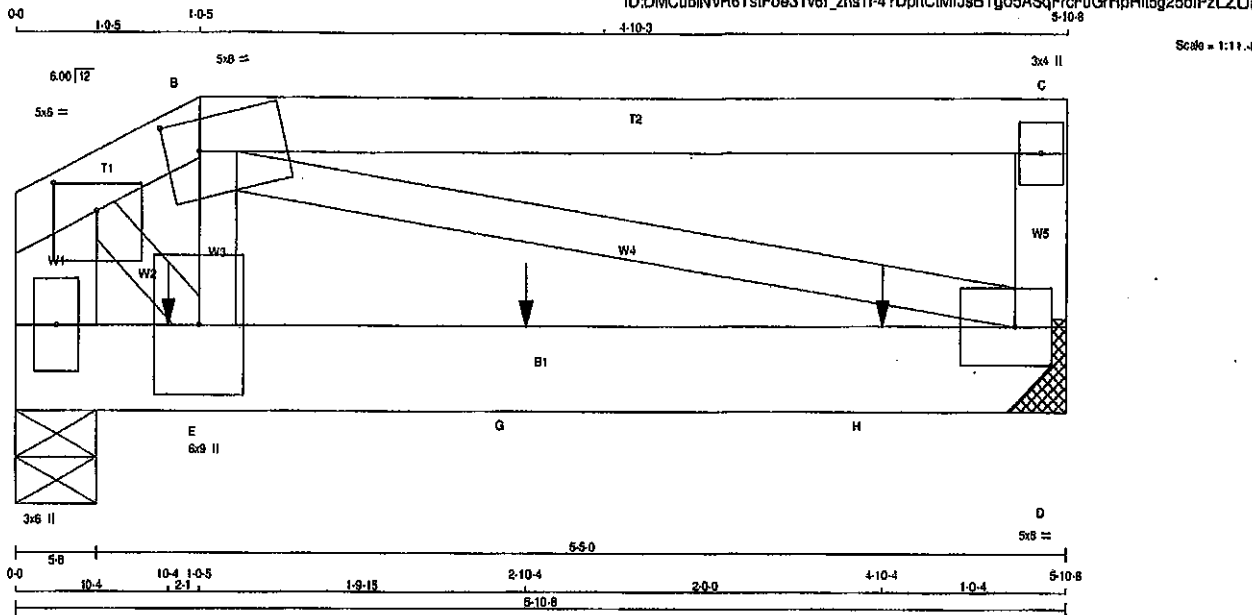
JSI GRIP = 0.76 (A) (INPUT = 0.90)
JSI METAL = 0.38 (E) (INPUT = 1.00)



Structural component only
DWG# T-2008072

JOB NAME.	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408317	T68	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 MTEK Industries, Inc. Thu Apr 30 10:50:54 2020 Page 1
ID:DMCubINVR6TstFoe31v8l_zns11-47DpnCtMrJsBTgo5ASqFrFuGrHpRlt5g25b1PzLZU



TOTAL WEIGHT = 2 X 25 = 49 lb

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - B	2x4 DRY	No.2	SPF		
B - C	2x4 DRY	No.2	SPF		
D - C	2x4 DRY	No.2	SPF		
F - A	2x6 DRY	No.2	SPF		
F - D	2x6 DRY	1850F 1.5E	SPF		

ALL WEBS 2x3 DRY No.2 SPF EXCEPT

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-B 1 12	TOP	
B-C 1 12	TOP	
C-D 1 12	TOP	
F-A 2 12	TOP	
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
F-D 2	SIDE(427.3)	
WEBS : (0.122"x3") SPIRAL NAILS		
E-B 1 2	SIDE(95.7)	
2x3 1 6		

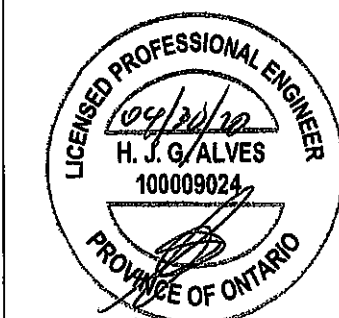
NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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.

PLATES (table in inches)	JT TYPE	PLATES	W	LEN	Y	X
A	TMVW-p	MT20	5.0	6.0	1.75	3.00



Structural component only
DWG# T-2008073

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
D	3340	0	3340	0
F	3319	0	3319	0

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

UNFACTORED REACTIONS

1ST LOSE	MAX/MIN. COMPONENT REACTIONS
JT	COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL
D	2356 1580/0 0/0 0/0 0/0 775/0 0/0
F	2341 1570/0 0/0 0/0 0/0 771/0 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 = 4.57 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)	VERT. LOAD (LBS)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
MEMB.						
FR-TO						
A-B	-4326/0	-91.8	-91.8	0.07 (1)	4.57	0/2791
B-C	0/0	-91.8	-91.8	0.20 (1)	10.00	0/2791
D-C	-222/0	0.0	0.0	0.01 (1)	7.81	0/4673
F-A	-4647/0	0.0	0.0	0.16 (1)	8.70	0/4673
F-E	0/0	-18.5	-18.5	0.39 (1)	10.00	
E-G	0/4080	-18.5	-18.5	0.69 (1)	10.00	
G-H	0/4080	-18.5	-18.5	0.69 (1)	10.00	
H-D	0/4080	-18.5	-18.5	0.69 (1)	10.00	

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
E	10-4	-2005	-2005	---	FRONT	VERT	TOTAL	---	C1
G	2-10-4	-2003	-2003	---	FRONT	VERT	TOTAL	---	C1
H	4-10-4	-2003	-2003	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN./C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 5.00/12

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, ABC 2019
- PART 9 OF NBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 088-14
- TPIC 2011, TPIC 2014

(65% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL) = L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/547 (0.13")

CS: TC=0.20/1.00 (B-C:1), BC=0.69/1.00 (D-E:1), WB=0.81/1.00 (B-D:1), SB=0.69/1.00 (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 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	1867

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (B) (INPUT = 0.90)
JSI METAL= 0.61 (E) (INPUT = 1.00)

CONTINUED ON PAGE 2

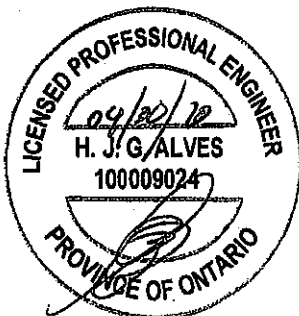
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408317	T68	1	2	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MTEK Industries, Inc. Thu Apr 30 10:50:54 2020 Page 2
ID:DMCubINVR6TslFoe31v8l zns11-47DpnCtMrJsBTgo5ASqFrcFuGrHoRll5g25blPzLZUJ

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TTWW-m	MT20	5.0	8.0	2.00	2.25
C	TMV+p	MT20	3.0	4.0		
D	BMVW1-i	MT20	5.0	6.0	2.50	2.50
E	BMVW+i	MT20	8.0	9.0		
F	BMV1+p	MT20	3.0	6.0		

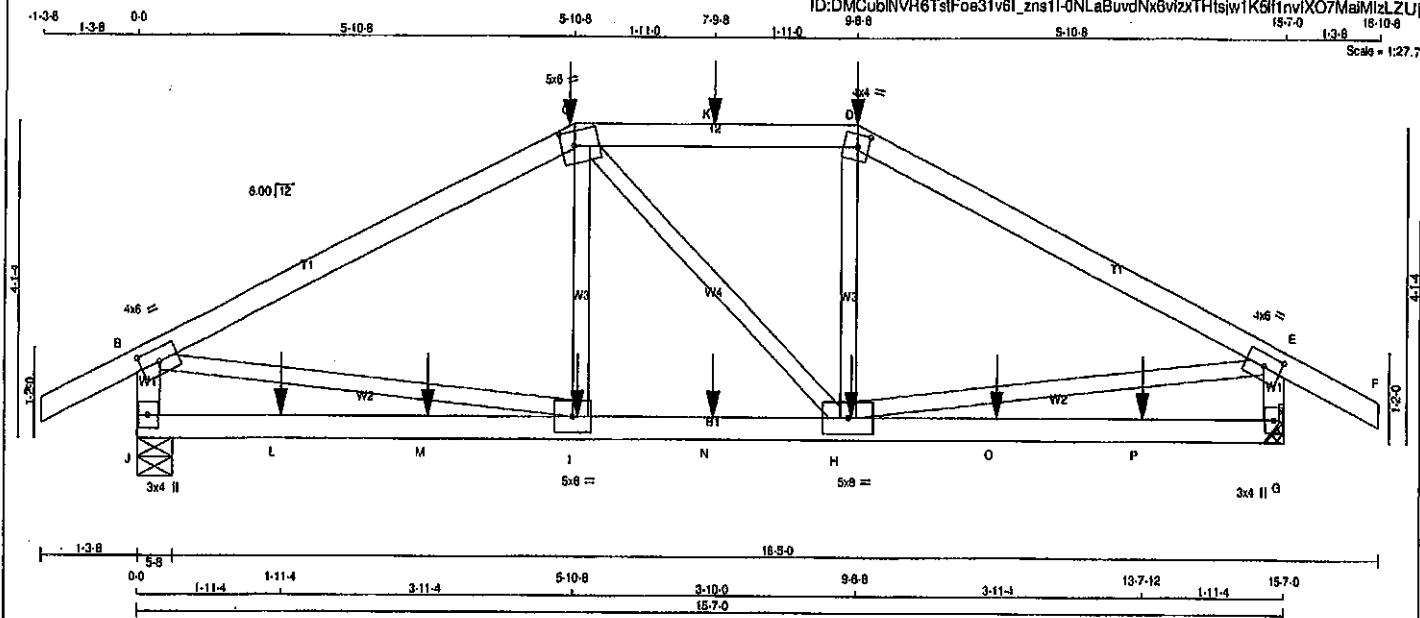


Structural component only
DWG# T-2008073

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408317	T69	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 10:50:56 2020 Page 1
ID:DMCubINVR6TstFoe31v6L_zns11-ONLaBuvdNx8vitzTHtsjw1K5H1nvixO7MaMizLZUj



TOTAL WEIGHT = 61 lb (M)

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-1	MT20	4.0	6.0	2.00	3.00
C	TTWV-m	MT20	5.0	6.0	2.25	2.00
D	TTW-m	MT20	4.0	4.0	2.00	1.75
E	TMVW-1	MT20	4.0	6.0	2.00	3.00
G	BMV1+P	MT20	3.0	4.0		
H	BMVWV-1	MT20	5.0	3.0		
I	BMVW-1	MT20	5.0	6.0		
J	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	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
J	1544	0	1544	0
G	1543	0	1543	0

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX/MIN	COMPONENT REACTIONS	
	SNOW	LIVE	PERM. LIVE	WIND
J	1091	722/0	0/0	0/0
G	1090	722/0	0/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO		LENGTH	FR-TO		
A-B	0/28	-91.8	-91.8 0.13 (1)	10.00	I-C	-76/105	0.04 (4)
B-C	-1873/0	-91.8	-91.8 0.78 (1)	3.88	C-H	0/3	0.00 (4)
C-K	-1874/0	-91.8	-91.8 0.47 (1)	4.49	H-D	-73/107	0.04 (4)
K-D	-1874/0	-91.8	-91.8 0.47 (1)	4.49	B-I	0/1691	0.42 (1)
D-E	-1876/0	-91.8	-91.8 0.78 (1)	3.85	H-E	0/1694	0.42 (1)
E-F	0/28	-91.8	-91.8 0.13 (1)	10.00			
J-B	-1474/0	0.0	0.0 0.18 (1)	6.71			
G-E	-1473/0	0.0	0.0 0.16 (1)	6.71			
J-L	0/0	-18.5	-18.5 0.28 (4)	10.00			
L-M	0/0	-18.5	-18.5 0.28 (4)	10.00			
M-I	0/0	-18.5	-18.5 0.28 (4)	10.00			
I-N	0/1672	-18.5	-18.5 0.40 (1)	10.00			
N-H	0/1672	-18.5	-18.5 0.40 (1)	10.00			
H-O	0/0	-18.5	-18.5 0.28 (4)	10.00			
O-P	0/0	-18.5	-18.5 0.28 (4)	10.00			
P-G	0/0	-18.5	-18.5 0.28 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX	FACE	DIR.	TYPE	HEEL	CONN.
C	5-10-8	-414	-414	---	FRONT	VERT	TOTAL	---
D	9-8-8	-414	-414	---	FRONT	VERT	TOTAL	---
H	9-7-12	-26	-26	---	FRONT	VERT	TOTAL	---
I	5-11-4	-26	-26	---	FRONT	VERT	TOTAL	---
K	7-9-8	-110	-110	---	FRONT	VERT	TOTAL	---
L	1-11-4	-26	-26	---	FRONT	VERT	TOTAL	---
M	3-11-4	-26	-26	---	FRONT	VERT	TOTAL	---
N	7-9-8	-26	-26	---	FRONT	VERT	TOTAL	---
O	11-7-12	-26	-26	---	FRONT	VERT	TOTAL	---
P	13-7-12	-26	-26	---	FRONT	VERT	TOTAL	---

CONNECTION REQUIREMENTS

1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	25.6	PSF
	DL	=	8.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD			=	39.0 PSF

SPACING = 24.0 IN. GIG

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, NBC 2010, NBC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.52")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL) = L/360 (0.52")
CALCULATED VERT. DEFL.(TL) = L/999 (0.11")

CSK: TC=0.78/1.00 (D-E:1), BC=0.40/1.00 (H-I:1), WB=0.42/1.00 (E-H: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	SECTION
(PSI)	(PLI)	(PLI)
MAX	MIN	MAX
MT20	618	354
	1887	788
	1987	1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (E) (INPUT = 0.90)
JSI METAL = 0.51 (E) (INPUT = 1.00)

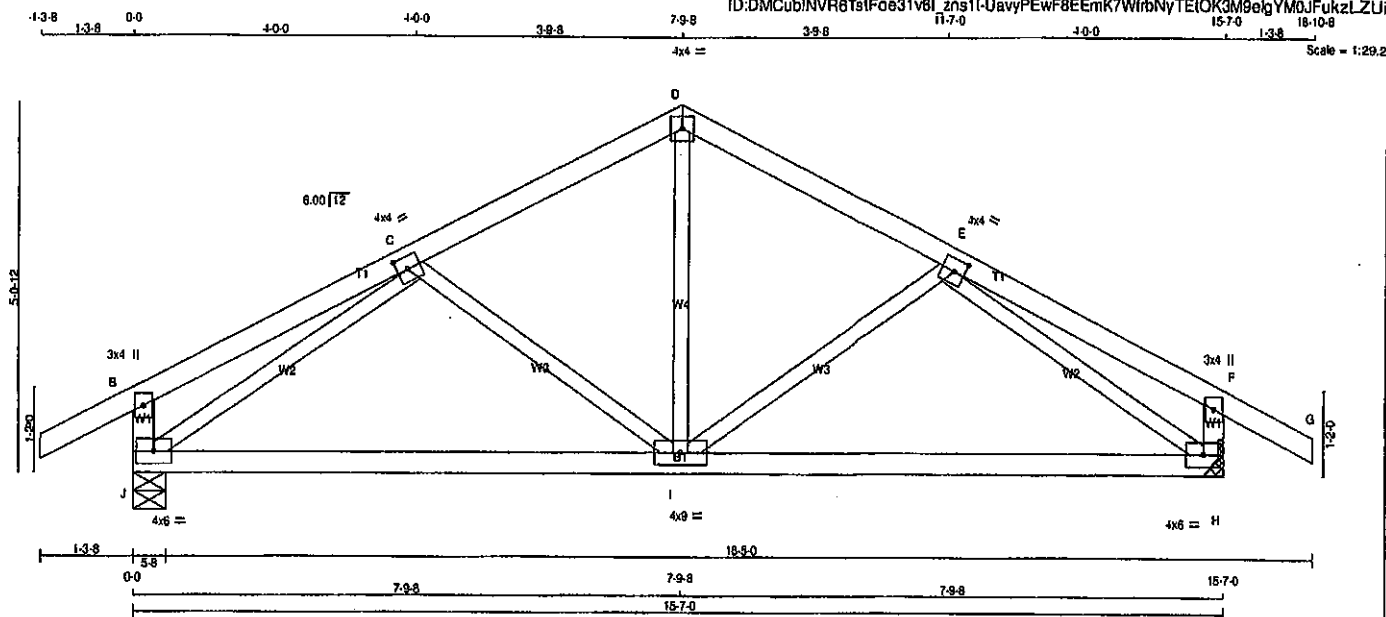


Structural component only
DWG# T-2008074

JOB NAME 408317	TRUSS NAME T70	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 10:50:37 2020 Page 1

ID:DMCubINVR6TstFoe31v8L_zns1I-UavyPEwF8EEkK7WibNyTeI0K3M9eIqYMOJFukzLZU



TOTAL WEIGHT = 61 lb
(M/F)

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

DRY: SEASONED LUMBER.

PLATES (tablets in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TMW-1	MT20	4.0	4.0	2.00	1.75
D	TTW-p	MT20	4.0	4.0		
E	TMW-1	MT20	4.0	4.0	2.00	1.75
F	TMV+p	MT20	3.0	4.0		
H	BMVW1-1	MT20	4.0	6.0		
I	BMVFW-1	MT20	4.0	9.0		
J	BMVW1-1	MT20	4.0	6.0		

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	REQD
JT	GROSS REACTION	GROSS REACTION	BRG	BRG	
J	VERT	DOWN	HORIZ	UPLIFT	IN-SX
J	984	0	984	0	5-8
H	984	0	984	0	5-8

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

UNFACTORED REACTIONS

1ST CASE	MAX./MIN. COMPONENT REACTIONS
JT	COMBINED
J	693
H	693

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNSBRACED 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		FACTORED	
MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PL)	LC1 MAX	MEMB.	MAX. FORCE (LBS)	LC1 MAX	LC2 MAX
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0/28	-91.8	-91.8	0.12 (1)	10.00	I-D	0/455
B-C	0/18	-91.8	-91.8	0.21 (1)	10.00	I-E	-237/0
C-D	-835/0	-91.8	-91.8	0.17 (1)	6.25	C-I	-237/0
D-E	-835/0	-91.8	-91.8	0.17 (1)	6.25	J-C	-1137/0
E-F	0/18	-91.8	-91.8	0.21 (1)	10.00	E-H	-1137/0
F-G	0/28	-91.8	-91.8	0.12 (1)	10.00		
J-B	-264/0	0.0	0.0	0.03 (1)	7.81		
H-F	-264/0	0.0	0.0	0.03 (1)	7.81		
J-I	0/923	-18.5	-18.5	0.39 (4)	10.00		
I-H	0/923	-18.5	-18.5	0.39 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 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 NBC 2010, NBC 2012, ABC 2019
- PART 9 OF NBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.52")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.52")
CALCULATED VERT. DEFL.(TL) = L/999 (0.10")

CSI: TC=0.21/1.00 (E-F:1), BC=0.39/1.00 (I-J:4),
WB=0.43/1.00 (C-J:1), SS=0.15/1.00 (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)
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.

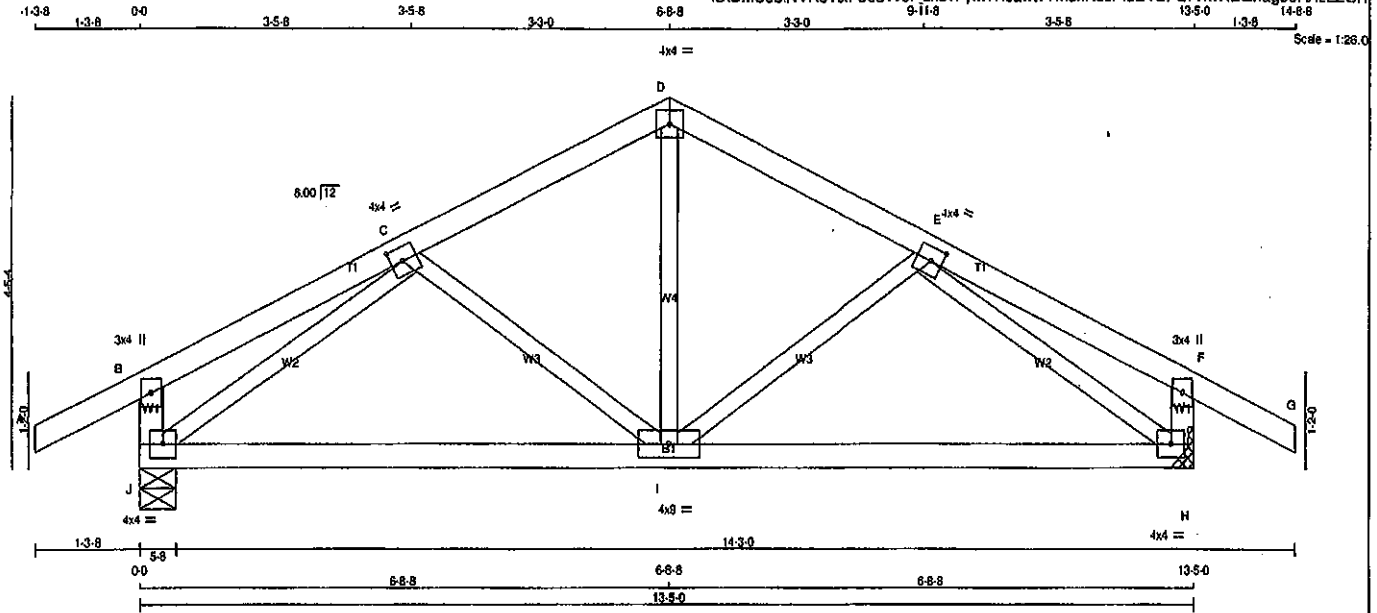
JSI GRIP= 0.81 (E) (INPUT = 0.80)
JSI METAL= 0.38 (E) (INPUT = 1.00)



Structural component only
DWG# T-2008075

JOB NAME 408317	TRUSS NAME T71	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

Version 8.310 S Oct 29 2019 MTEK Industries, Inc. Thu Apr 30 10:50:58 2020 Page 1
ID:DMCubINVR6TstFoe31v6f_zns11-ymTKcawtVYMDxH5sPluB7SPa7TkVNEghag3oRAzLZUh



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

DRY: SEASONED LUMBER.

PLATES (tables in inches)	W	LEN	Y	X
JT TYPE	PLATES			
B	TMV+p	MT20	3.0	4.0
C	TMVW-1	MT20	4.0	4.0
D	TTW-p	MT20	4.0	4.0
E	TMVW-1	MT20	4.0	4.0
F	TMV+p	MT20	3.0	4.0
H	BMVW-1	MT20	4.0	4.0
I	BMVW-1	MT20	4.0	4.0
J	BMVW-1	MT20	4.0	4.0

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	DOWN	IN-SX	IN-SX
J	884	0	0	5-8
H	884	0	0	5-8
			MECHANICAL	

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

UNFACTORED REACTIONS

1ST CASE	MAX/MIN. COMPONENT REACTIONS
JT	COMBINED SNOW LIVE PERALIVE WIND DEAD SOIL
J	609 413/0 0/0 0/0 0/0 196/0 0/0
H	609 413/0 0/0 0/0 0/0 196/0 0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD LC1	MAX	MAX.	MEMB.	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD LC1	MAX	MAX.	MEMB.	FORCE (LBS)	MAX
FR-TO	FROM	TO	LENGTH	FR-TO			
A-B	0/28	-91.8	-91.8	0.12 (1)	10.00	I-D	0/371
B-C	0/15	-91.8	-91.8	0.15 (1)	10.00	I-E	-181/0
C-D	-698/0	-91.8	-91.8	0.12 (1)	6.25	C-I	-181/0
D-E	-698/0	-91.8	-91.8	0.12 (1)	6.25	J-C	-946/0
E-F	0/15	-91.8	-91.8	0.15 (1)	10.00	E-H	-946/0
F-G	0/28	-91.8	-91.8	0.12 (1)	10.00		
J-B	-246/0	0.0	0.0	0.02 (1)	7.81		
H-F	-246/0	0.0	0.0	0.02 (1)	7.81		
J-I	0/755	-18.5	-18.5	0.29 (4)	10.00		
I-H	0/755	-18.5	-18.5	0.29 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 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 NBC 2010, NBC 2012, ABC 2019
- PART 9 OF NBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.45")
CALCULATED VERT. DEFL. (LL) = 1/989 (0.02")
ALLOWABLE DEFL. (TL) = L/360 (0.45")
CALCULATED VERT. DEFL. (TL) = 1/989 (0.06")

CSI: TC=0.15/1.00 (E-F:1), BC=0.29/1.00 (H-I:4), WB=0.28/1.00 (E-H:1), SS=0.13/1.00 (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
(PS) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

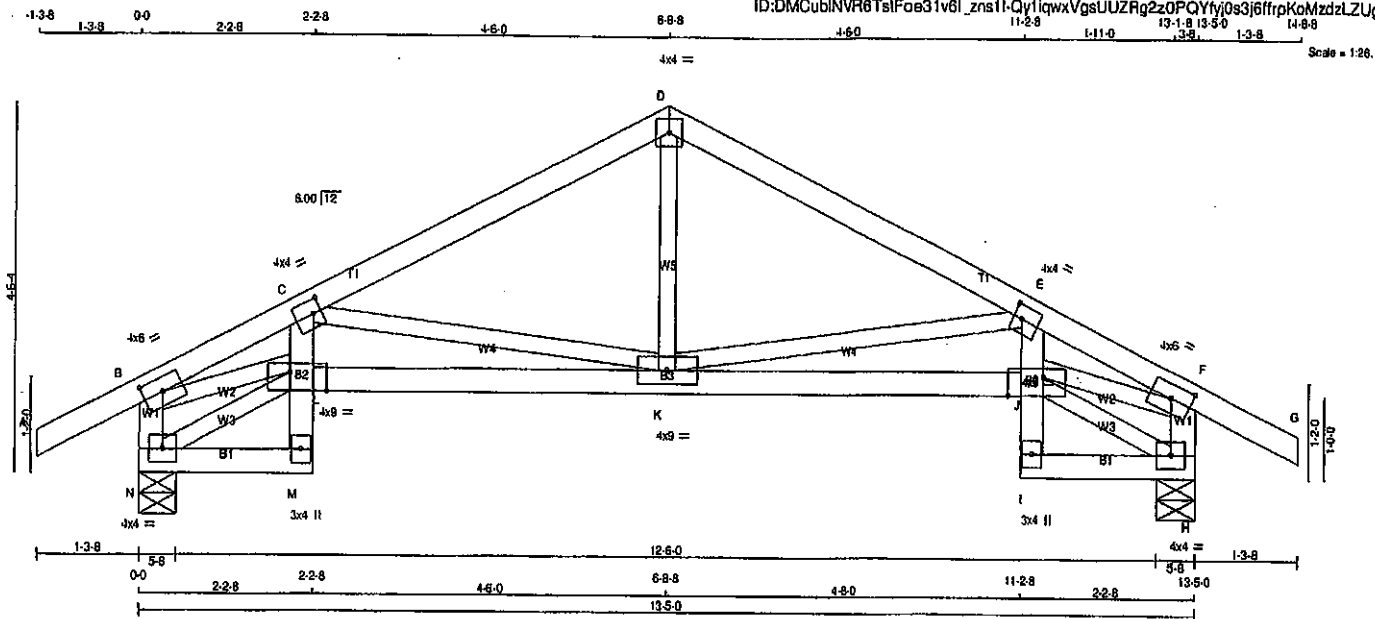
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (J) (INPUT = 0.90)
JSI METAL= 0.32 (E) (INPUT = 1.00)



Structural component only
DWG# T-2008076

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408317	T72S	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					
Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 10:50:59 2020 Page 1					
ID:DMCubINVR6TslFoe31v6l_zns11-QytlqwxVgsUUZRg2z0PQYfy0s3j6frpKzMzdzLZUg					
11-2.8 11-2.8 13-1.8 13-5.0 14-8.8					

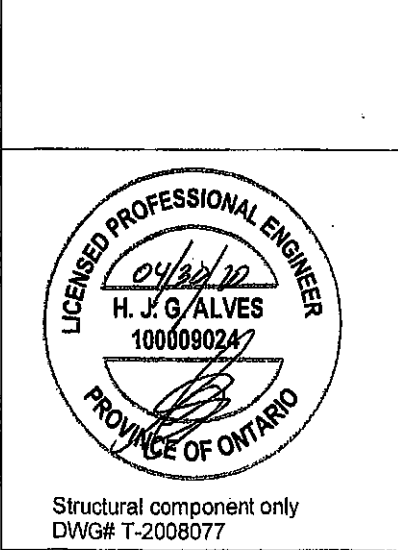


TOTAL WEIGHT = 2 X 57 = 114 lb (M/F)

N. L. G. A. RULES	CHORDS	SIZE	DRY	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF	
D - G	2x4	DRY	No.2	SPF	
N - B	2x4	DRY	No.2	SPF	
H - F	2x4	DRY	No.2	SPF	
N - M	2x4	DRY	No.2	SPF	
M - C	2x4	DRY	No.2	SPF	
L - J	2x4	DRY	No.2	SPF	
I - E	2x4	DRY	No.2	SPF	
I - H	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-1	MT20	4.0	8.0	2.00	3.00
C	TMVW-1	MT20	4.0	4.0	2.00	1.25
D	TTW-p	MT20	4.0	4.0		
E	TMVW-1	MT20	4.0	4.0	2.00	1.25
F	TMVW-1	MT20	4.0	8.0	2.00	3.00
H	BMVW-1	MT20	4.0	4.0		
I	BMVW-1	MT20	3.0	4.0		
J	BMVW-1	MT20	4.0	9.0	2.75	5.50
K	BMVW-1	MT20	4.0	9.0		
L	BMVW-1	MT20	4.0	9.0	2.75	5.50
M	BMVW-1	MT20	3.0	4.0		
N	BMVW-1	MT20	4.0	4.0		



Structural component only
DWG# T-2008077

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

BUILDING DESIGNER							
BEARINGS							
	FACTORED	MAXIMUM FACTORED	INPUT	REQD			
	GROSS REACTION	GROSS REACTION	BRG	BRG			
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	N-SX	IN-SX
N	884	0	884	0	0	5-8	5-8
H	884	0	884	0	0	5-8	5-8

UNFACTORED REACTIONS							
	1ST LOOSE	MAX/MIN COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
N	809	413 / 0	0 / 0	0 / 0	0 / 0	198 / 0	0 / 0
H	809	413 / 0	0 / 0	0 / 0	0 / 0	198 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.07 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING							
TOTAL LOAD CASES: (4)							
CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC1)	MAX. FACTORED VERT. LOAD (LC1)
FR-TO				FR-TO			
A-B	0 / 28	-91.8	-91.8 0.12 (1)	10.00	K-D	0 / 412	0.09 (1)
B-C	-1616 / 0	-91.8	-91.8 0.15 (1)	5.07	K-E	-812 / 0	0.30 (1)
C-D	-892 / 0	-91.8	-91.8 0.28 (1)	8.18	C-K	-812 / 0	0.30 (1)
D-E	-892 / 0	-91.8	-91.8 0.28 (1)	8.18	N-L	-118 / 0	0.02 (1)
E-F	-1616 / 0	-91.8	-91.8 0.15 (1)	5.07	B-L	0 / 1472	0.33 (1)
F-G	0 / 28	-91.8	-91.8 0.12 (1)	10.00	J-H	-118 / 0	0.02 (1)
N-B	-795 / 0	0.0	0.0 0.08 (1)	7.81	J-F	0 / 1472	0.33 (1)
H-F	-795 / 0	0.0	0.0 0.08 (1)	7.81			
N-M	0 / 104	-18.5	-18.5 0.03 (4)	10.00			
M-L	0 / 21	0.0	0.0 0.14 (1)	10.00			
L-C	0 / 102	0.0	0.0 0.16 (1)	10.00			
L-K	0 / 1585	-18.5	-18.5 0.32 (1)	10.00			
K-J	0 / 1585	-18.5	-18.5 0.32 (1)	10.00			
I-J	0 / 21	0.0	0.0 0.14 (1)	10.00			
J-E	0 / 102	0.0	0.0 0.16 (1)	10.00			
I-H	0 / 104	-18.5	-18.5 0.03 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 8.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 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, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/380 (0.45")
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")
ALLOWABLE DEFL.(TL) = L/380 (0.45")
CALCULATED VERT. DEFL.(TL) = L/999 (0.08")

CSI: TC=0.28/1.00 (D-E:1), BC=0.32/1.00 (J-K:1), WB=0.33/1.00 (F-J:1), SS=0.17/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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 818 354 1687 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

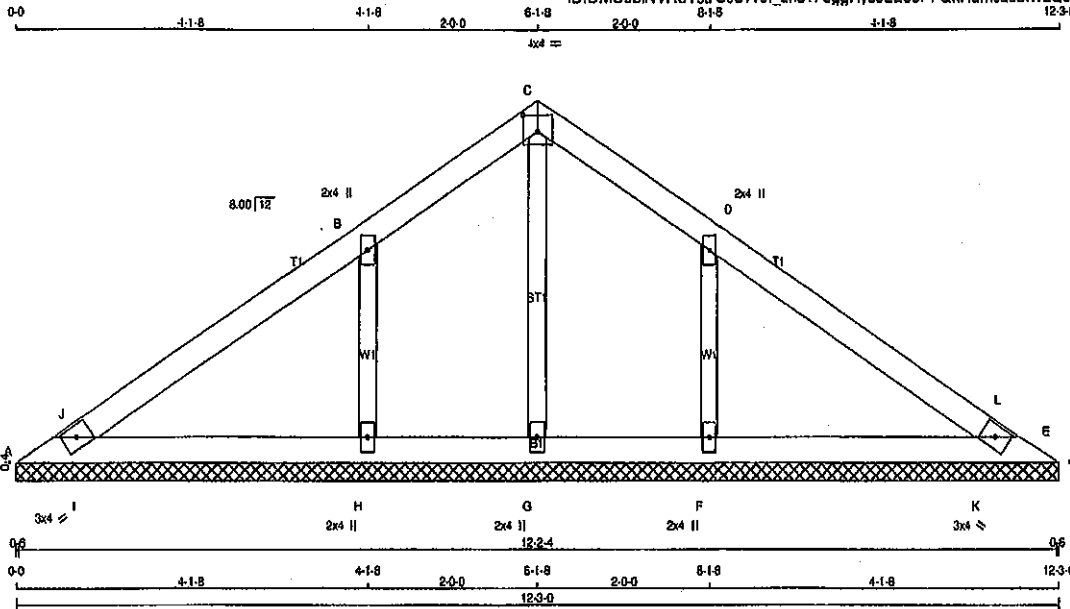
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.88 (C) (INPUT = 0.90)
JSI METAL = 0.43 (B) (INPUT = 1.00)

JOB NAME 408316	TRUSS NAME V30	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 Matek Industries, Inc. Thu Apr 30 16:05:39 2020 Page 1

ID:DMCubINVR6TstFoe31v6l_zns11-3ggRys0LE8oPFCXhdmcaJ3lwzQoqcZKTM9wRWGzLa9A



Scale: 1/2"=1'

TOTAL WEIGHT = 38 lb

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
A - 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
A	TBM1-h	MT20	3.0	4.0
B	TMW+w	MT20	2.0	4.0
C	TTW-p	MT20	4.0	4.0 2.25 2.00
D	TMW+w	MT20	2.0	4.0
E	TBM1-h	MT20	3.0	4.0
F, G, H				
F	BMW1+w	MT20	2.0	4.0

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	GROSS REACTION	DOWN	HORIZ	UPLIFT	IN-SX	IN-SX	BRG
A	102	0	102	0	0	0	12-3-0	12-2-4	3-0
E	102	0	102	0	0	0	12-3-0	12-2-4	3-0
G	252	0	252	0	0	0	12-3-0	12-2-4	3-0
H	444	0	444	0	0	0	12-3-0	12-2-4	3-0
F	444	0	444	0	0	0	12-3-0	12-2-4	3-0

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM LIVE	WIND	DEAD	SOIL
A	72	48/0	0/0	0/0	0/0	24/0	0/0
E	72	48/0	0/0	0/0	0/0	24/0	0/0
G	170	115/0	0/0	0/0	0/0	84/0	0/0
H	314	208/0	0/0	0/0	0/0	108/0	0/0
F	314	208/0	0/0	0/0	0/0	108/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PL)	MAX. CS (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS (LC)	MAX. CS (LC)
FR-TO	0/150	-91.8	-91.8 0.04 (4)	FR-TO	0/150	-91.8	-91.8 0.04 (4)
A-J	0/183	-91.8	-91.8 0.17 (1)	G-C	-291/0	0.07 (1)	0.07 (1)
B-C	0/151	-91.8	-91.8 0.18 (1)	H-B	-318/0	0.05 (1)	0.05 (1)
C-D	0/151	-91.8	-91.8 0.18 (1)	F-D	-318/0	0.05 (1)	0.05 (1)
D-L	0/183	-91.8	-91.8 0.17 (1)	I-J	-119/3	0.00 (1)	0.00 (1)
L-E	0/150	-91.8	-91.8 0.04 (4)	K-L	-119/3	0.00 (1)	0.00 (1)
A-I	-156/0	-18.5	-18.5 0.10 (1)				
I-H	-137/0	-18.5	-18.5 0.10 (1)				
H-G	-148/0	-18.5	-18.5 0.08 (1)				
G-F	-149/0	-18.5	-18.5 0.08 (1)				
F-K	-137/0	-18.5	-18.5 0.10 (1)				
K-E	-168/0	-18.5	-18.5 0.10 (1)				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.8 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 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 BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-08, CSA 086-14
- TPIC 2011, TPIC 2014

(65% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.17/1.00 (B-J:1), BC=0.10/1.00 (H-I:1), WB=0.07/1.00 (C-G:1), SS=0.12/1.00 (B-J:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

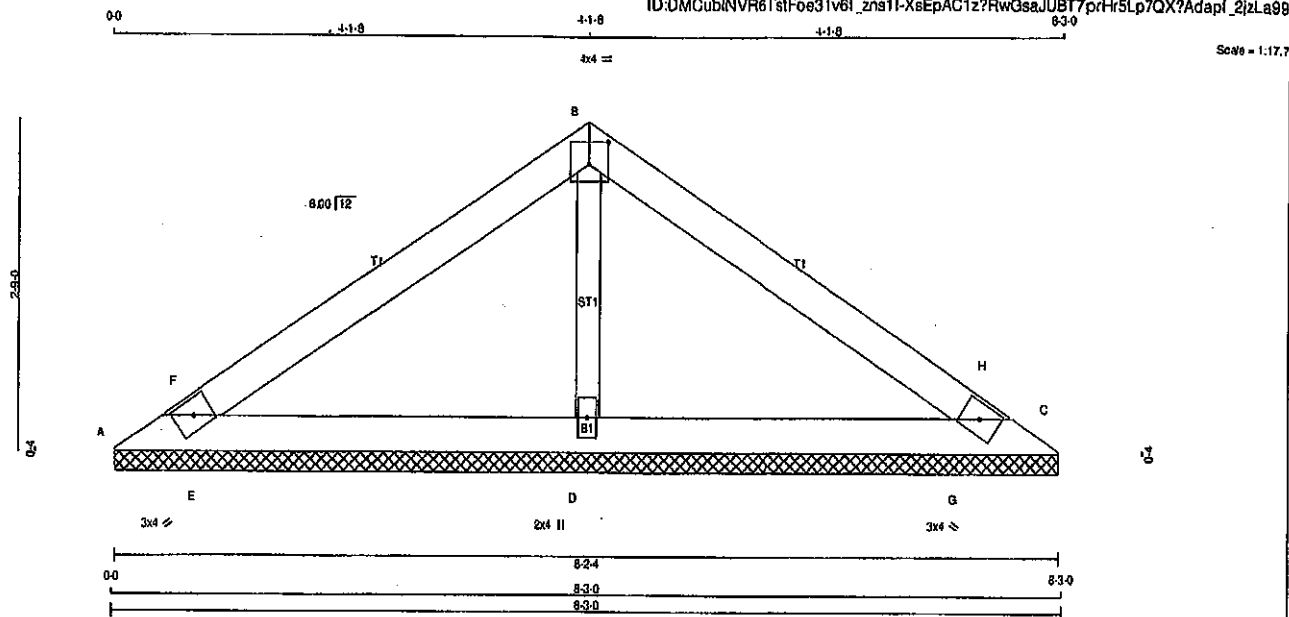
JSI GRIP= 0.24 (C) (INPUT = 0.90)
JSI METAL= 0.18 (D) (INPUT = 1.00)



Structural component only
DWG# T-2008048

JOB NAME 408316	TRUSS NAME V31	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 10:05:40 2020 Page 1
ID:DMCubINVR6TstF0e31v6l_zns11-XsEpAC1z?RwGsaJUBT7prH5Lp7QX?Adapl_2jzLa99
83-0



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

PLATES (table is in inches)	JT	TYPE	PLATES	W	LEN	Y	X
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									
BEARINGS									
JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG					
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
A	61	0	61	0	0	8-2-4	8-2-4		
C	61	0	61	0	0	8-2-4	8-2-4		
D	780	0	780	0	0	8-2-4	8-2-4		

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX	MIN	COMPONENT REACTIONS			
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
A	43	28 / 0	0 / 0	0 / 0	0 / 0	15 - 0	0 - 0
C	43	28 / 0	0 / 0	0 / 0	0 / 0	15 0	0 / 0
D	582	382 / 0	0 / 0	0 / 0	0 / 0	190 - 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 = 8.25 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO				FR-TO			
A-F	0 / 280	-91.8	-91.8	0.09 (1)	10.00	D-B	-598 / 0
F-B	0 / 279	-91.8	-91.8	0.18 (1)	10.00	E-F	-195 / 0
B-H	0 / 278	-91.8	-91.8	0.18 (1)	10.00	G-H	-195 / 0
H-C	0 / 280	-91.8	-91.8	0.09 (1)	10.00		
A-E	-264 / 0	-18.5	-18.5	0.14 (1)	8.25		
E-D	-237 / 0	-18.5	-18.5	0.14 (1)	8.25		
D-G	-237 / 0	-18.5	-18.5	0.14 (1)	8.25		
G-C	-284 / 0	-18.5	-18.5	0.14 (1)	8.25		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. O/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 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2018 AMENDMENT)
- CSA 086-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.19/1.00 (B-F:1), BC=0.14/1.00 (D-E:1), WB=0.10/1.00 (B-D:1), SS=0.10/1.00 (B-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 818 354 1867 768 1867 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

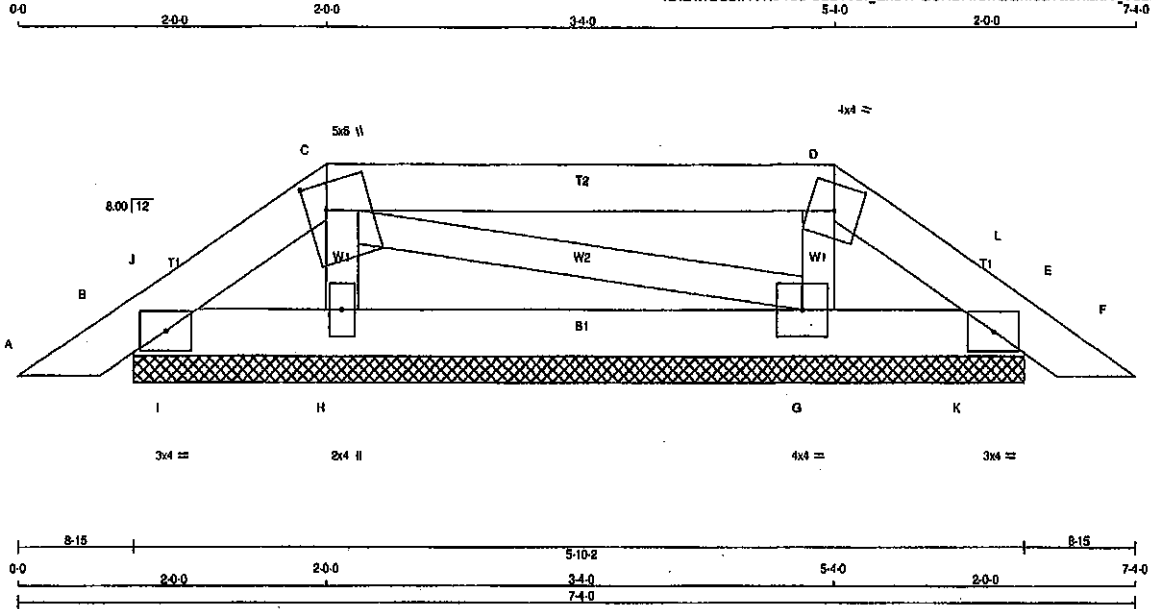
JSI GRIP= 0.50 (B) (INPUT = 0.90)
JSI METAL= 0.17 (B) (INPUT = 1.00)



Structural component only
DWG# T-2008049

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408315	PB1	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 M Tek Industries, Inc. Thu Apr 30 08:31:23 2020 Page 1
ID:DMCubINVR6TstFoa31v6l_zns1l-G8RBRr8hQMQ8aTZ8BzKk_V8akd5i4i6raHdLRzLaf



Scale = 1:13

TOTAL WEIGHT = 19 lb (M)

LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS	2x4	DRY	No.2
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 (tablets in inches)			
JT TYPE	PLATES	W	LEN Y X
B - TM81-I	MT20	3.0	4.0
C - TTWW+m	MT20	5.0	6.0 2.00 1.50
D - TTW-m	MT20	4.0	4.0
E - TM81-I	MT20	3.0	4.0
G - BMWW1-I	MT20	4.0	4.0
H - BMWW1-w	MT20	2.0	4.0

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	HORZ	BRG	IN-SX	BRG	IN-SX
B	148	0	148	0	0	5-10-2	5-10-2	5-10-2	5-10-2
E	144	0	144	0	0	5-10-2	5-10-2	5-10-2	5-10-2
H	233	0	233	0	0	5-10-2	5-10-2	5-10-2	5-10-2
G	241	0	241	0	0	5-10-2	5-10-2	5-10-2	5-10-2

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	102	81/0	0/0	0/0	0/0	21/0	0/0
E	99	78/0	0/0	0/0	0/0	21/0	0/0
H	168	101/0	0/0	0/0	0/0	85/0	0/0
G	172	108/0	0/0	0/0	0/0	86/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PL)	MAX. CS (LC)	MEMB.	FORCE (LBS)	MAX. CS (LC)	MAX. CS (LC)
FR-TO				FR-TO			
A-B	0/15	-91.8	-91.8 0.03 (1)	10.00	H-C	-169/0	0.02 (1)
B-J	-45/0	-91.8	-91.8 0.00 (4)	6.25	C-G	-7/0	0.00 (1)
J-C	-46/0	-91.8	-91.8 0.01 (1)	6.25	G-D	-175/0	0.02 (1)
C-D	-11/0	-91.8	-91.8 0.17 (1)	6.25	I-J	-58/0	0.00 (1)
D-L	-38/0	-91.8	-91.8 0.01 (1)	6.25	K-L	-59/0	0.00 (1)
L-E	-37/0	-91.8	-91.8 0.00 (4)	6.25			
E-F	0/15	-91.8	-91.8 0.03 (1)	10.00			
B-I	0/37	-18.5	-18.5 0.02 (1)	10.00			
I-H	0/37	-18.5	-18.5 0.03 (4)	10.00			
H-G	0/18	-18.5	-18.5 0.03 (4)	10.00			
G-K	0/31	-18.5	-18.5 0.03 (4)	10.00			
K-E	0/31	-18.5	-18.5 0.02 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 8.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.17/1.00 (C-D:1), BC=0.03/1.00 (H-I:4), WB=0.02/1.00 (D-G:1), SS=0.12/1.00 (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 1887 788 1887 1856

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.12 (D) (INPUT = 0.90)
JSI METAL = 0.04 (H) (INPUT = 1.00)



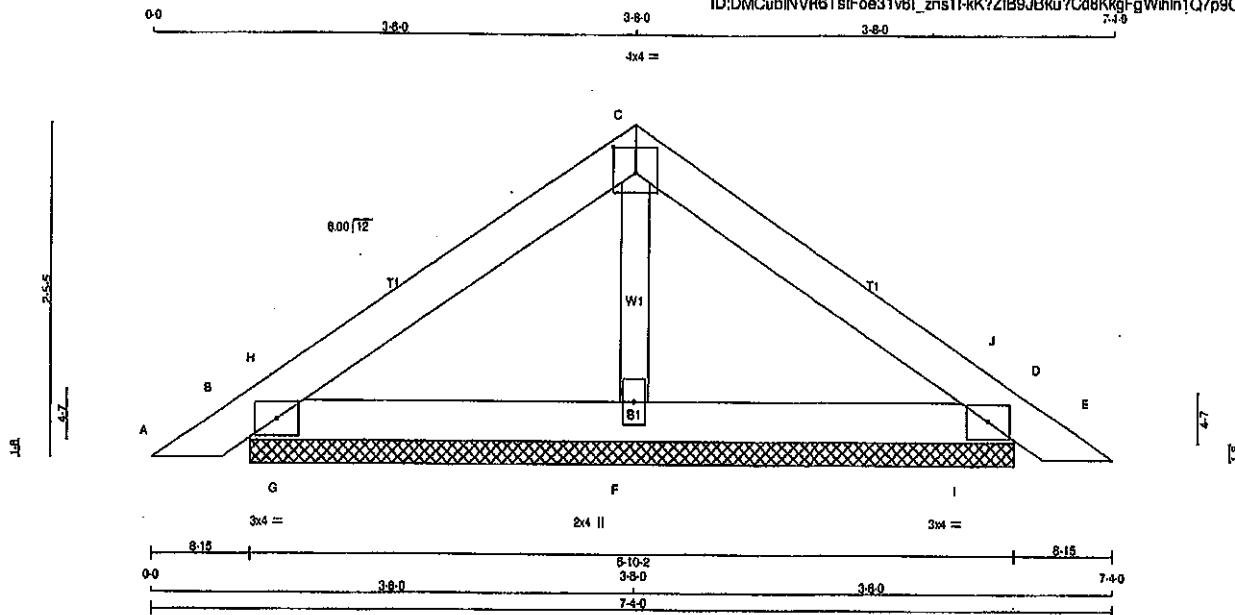
Structural component only
DWG# T-2007999

JOB NAME 408315	TRUSS NAME PB2	QUANTITY 4	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MTak Industries, Inc. Thu Apr 30 09:31:24 2020 Page 1
ID:DMCubINVR6TstFoe31v8I_znst11-kK?ZIB9JBku?Cd8KkgFgWih1Q7p9Q?pxcBtuzLafH

Scale = 1:15.0



TOTAL WEIGHT = 4 X 18 = 72 lb

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
B - D	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-p	MT20	4.0	4.0
D	TMB1-I	MT20	3.0	4.0
F	BMW1-w	MT20	2.0	4.0

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQ'D	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	DOWN	HORZ	UPLIFT	BRG	BRG
B	252	0	252	0	0	5-10-2	5-10-2	5-10-2	5-10-2
D	252	0	252	0	0	5-10-2	5-10-2	5-10-2	5-10-2
F	252	0	252	0	0	5-10-2	5-10-2	5-10-2	5-10-2

UNFACTORED REACTIONS

1ST CASE		MAX/MIN. COMPONENT REACTIONS		SNOW		LIVE		PERM. LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	178	127 / 0	0 / 0	0 / 0	0 / 0	49 / 0	0 / 0	B	178	127 / 0	0 / 0	0 / 0	0 / 0	49 / 0	0 / 0
D	178	127 / 0	0 / 0	0 / 0	0 / 0	49 / 0	0 / 0	D	178	127 / 0	0 / 0	0 / 0	0 / 0	49 / 0	0 / 0
F	167	113 / 0	0 / 0	0 / 0	0 / 0	74 / 0	0 / 0	F	167	113 / 0	0 / 0	0 / 0	0 / 0	74 / 0	0 / 0

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

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		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD	LOI MAX	MEMB.	FORCE (LBS)	VERT. LOAD	LOI MAX
FR-TO				FR-TO			
A-B	0 / 15	-91.8	-91.8 0.03 (1)	F-C	-128 / 0	0.02 (1)	10.00
B-H	-37 / 0	-91.8	-91.8 0.04 (1)	G-H	-219 / 0	0.00 (1)	6.25
H-C	-90 / 0	-91.8	-91.8 0.09 (1)	I-J	-219 / 0	0.00 (1)	6.25
C-J	-90 / 0	-91.8	-91.8 0.09 (1)				6.25
J-D	-37 / 0	-91.8	-91.8 0.04 (1)				6.25
D-E	0 / 15	-91.8	-91.8 0.03 (1)				10.00
B-G	0 / 71	-18.5	-18.5 0.10 (1)				10.00
G-F	0 / 71	-18.5	-18.5 0.10 (1)				10.00
F-I	0 / 71	-18.5	-18.5 0.10 (1)				10.00
I-D	0 / 71	-18.5	-18.5 0.10 (1)				10.00

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 8.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBCO 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(65% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.09/1.00 (C:H:1), BC=0.10/1.00 (B-G:1),
WB=0.02/1.00 (C-F:1), SS=0.10/1.00 (B-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 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.22 (D) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)



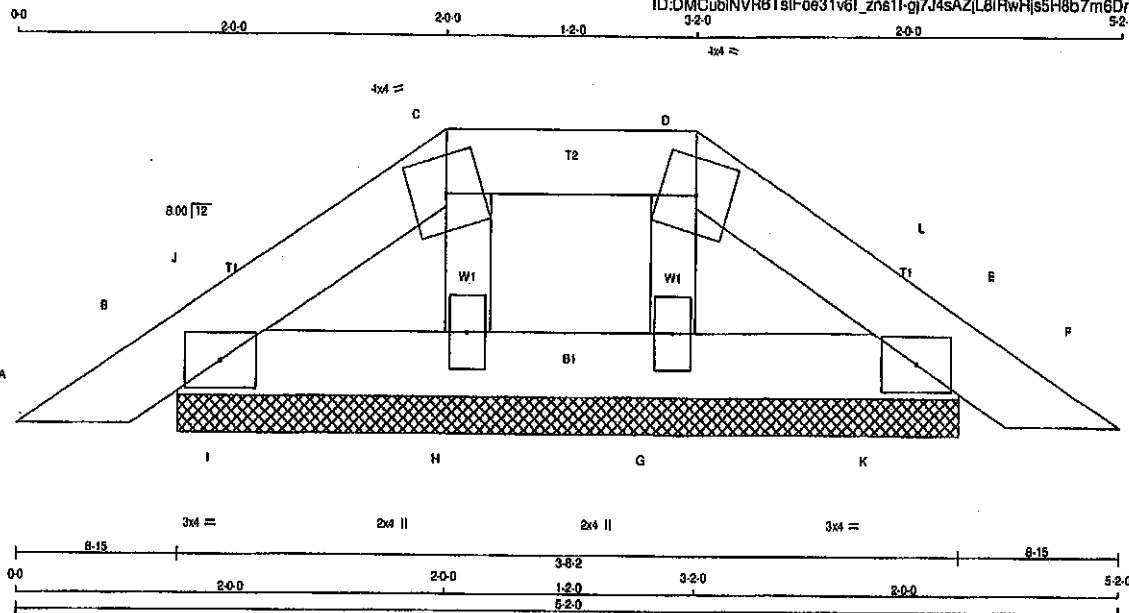
Structural component only
DWG# T-2008000

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408315	PB3	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 09:31:28 2020 Page 1

ID:DMCubiNVR8TslFoe31v6l_zns1l-gj7J4sAZL8lRwHjs5H8b7m6D7mH32IGF5HymzLalF



Scale = 1/8" = 1'-0"

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

PLATES (table is in inches)	JT	TYPE	PLATES	W	LEN	Y	X
B	TM1-t	MT20	3.0	4.0			
C	TTW-m	MT20	4.0	4.0			
D	TTW-m	MT20	4.0	4.0			
E	TM1-t	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	MAXIMUM FACTORED	INPUT	RECORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ - UPLIFT
B	144	0	144	0
E	144	0	144	0
H	119	0	119	0
G	119	0	119	0

UNFACTORED REACTIONS

1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
JT	COMBINED					
B	101	74/0	0/0	0/0	27/0	0/0
E	101	74/0	0/0	0/0	27/0	0/0
H	85	54/0	0/0	0/0	31/0	0/0
G	85	54/0	0/0	0/0	31/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD LO1 MAX (PLF)	MEMB.	FORCE (LBS)
FR-TO		FROM TO	FR-TO	
A-B	0/15	-91.8 -91.8 0.03 (1)	H-C	-84/0
B-J	-34/0	-91.8 -91.8 0.00 (4)	G-D	-84/0
J-C	-27/0	-91.8 -91.8 0.02 (1)	I-J	-46/0
C-D	-14/0	-91.8 -91.8 0.02 (1)	K-L	-46/0
D-L	-27/0	-91.8 -91.8 0.02 (1)		
L-E	-34/0	-91.8 -91.8 0.00 (4)		
E-F	0/15	-91.8 -91.8 0.03 (1)		
B-I	0/23	-18.5 -18.5 0.02 (1)		
I-H	0/23	-18.5 -18.5 0.02 (1)		
H-G	0/14	-18.5 -18.5 0.01 (3)		
G-K	0/23	-18.5 -18.5 0.02 (1)		
K-E	0/23	-18.5 -18.5 0.02 (1)		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. CG

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.03/1.00 (A-B:1), BC=0.02/1.00 (E-K:1),
WB=0.01/1.00 (D-G:1), SSI=0.04/1.00 (C-D:1)

DOL LUMBER=1.00 NAIL=1.00 LS BENO=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) (PLJ)
MAX MIN MAX MIN MAX MIN
MT20 818 354 1667 788 1667 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

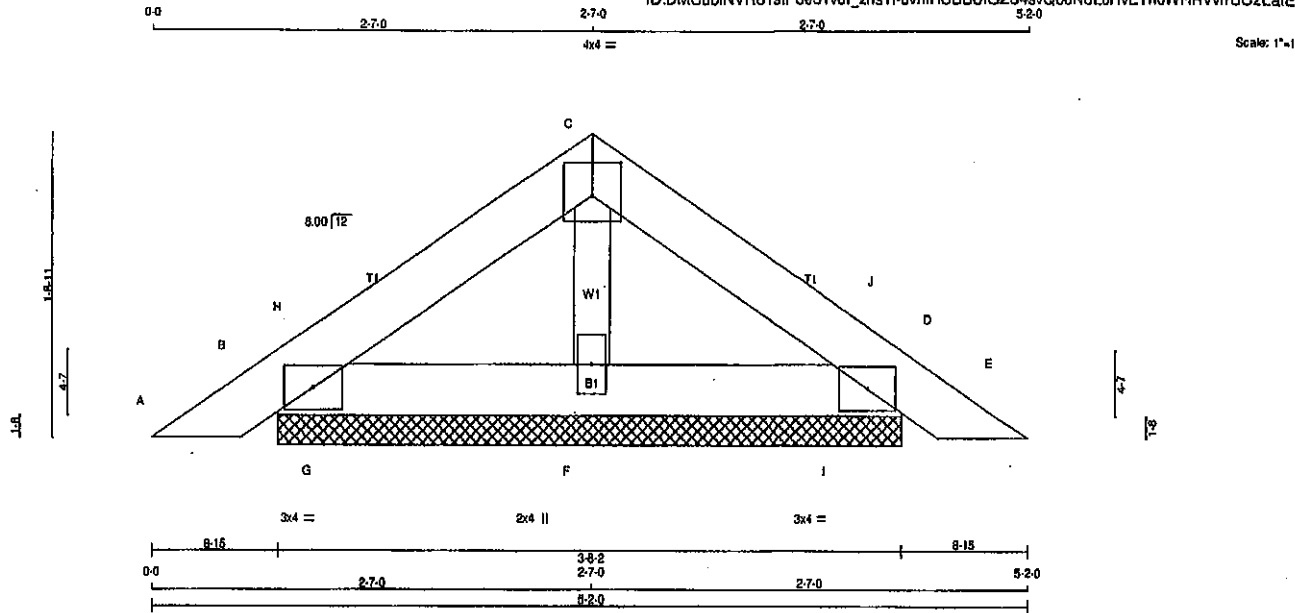
JSI GRIP= 0.11 (E) (INPUT = 0.90)
JSI METAL= 0.02 (B) (INPUT = 1.00)



Structural component only
DWG# T-2008001

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ORWG NO.
408315	PB4	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 09:31:27 2020 Page 1
ID:DMCubINVR6TstF0e31v8i_zns1l-8vhiHCBBU/GZ34svQooN8LJHvETHoWHRVrrUCzLaE



LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
B - D	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	TM81-I	MT20	3.0	4.0	
C	TTW-p	MT20	4.0	4.0	2.25 2.00
D	TM81-I	MT20	3.0	4.0	
F	BMW1-w	MT20	2.0	4.0	

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	DOWN	UP	BRG	BRG	IN-SX
B	175	0	175	0	0	0	3-8-2	3-8-2	
D	175	0	175	0	0	0	3-8-2	3-8-2	
F	178	0	178	0	0	0	3-8-2	3-8-2	

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	122	89/0	0/0	0/0	0/0	0/0	33/0	0/0
D	122	89/0	0/0	0/0	0/0	0/0	33/0	0/0
F	127	78/0	0/0	0/0	0/0	0/0	49/0	0/0

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

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		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CS (LC)	MEMB.	FORCE (LBS)	MAX. CS (LC)	MAX. CS (LC)
FR-TO		FROM TO		FR-TO			
A-B	0/15	-91.8	-91.8 0.03 (1)	10.00	F-C	-88/0	0.01 (1)
B-H	-35/0	-91.8	-91.8 0.01 (1)	6.25	G-H	-99/0	0.00 (1)
H-C	-45/0	-91.8	-91.8 0.03 (1)	6.25	I-J	-99/0	0.00 (1)
C-J	-45/0	-91.8	-91.8 0.03 (1)	6.25			
J-D	-35/0	-91.8	-91.8 0.01 (1)	6.25			
D-E	0/15	-91.8	-91.8 0.03 (1)	10.00			
B-G	0/36	-18.5	-18.5 0.04 (1)	10.00			
G-F	0/38	-18.5	-18.5 0.04 (1)	10.00			
F-I	0/36	-18.5	-18.5 0.04 (1)	10.00			
I-D	0/36	-18.5	-18.5 0.04 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.8 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. CG

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.03/1.00 (C-J:1), BC=0.04/1.00 (F-I:1), WB=0.01/1.00 (C-F:1), SSI=0.07/1.00 (D-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.14 (D) (INPUT = 0.90)
JSI METAL = 0.03 (B) (INPUT = 1.00)

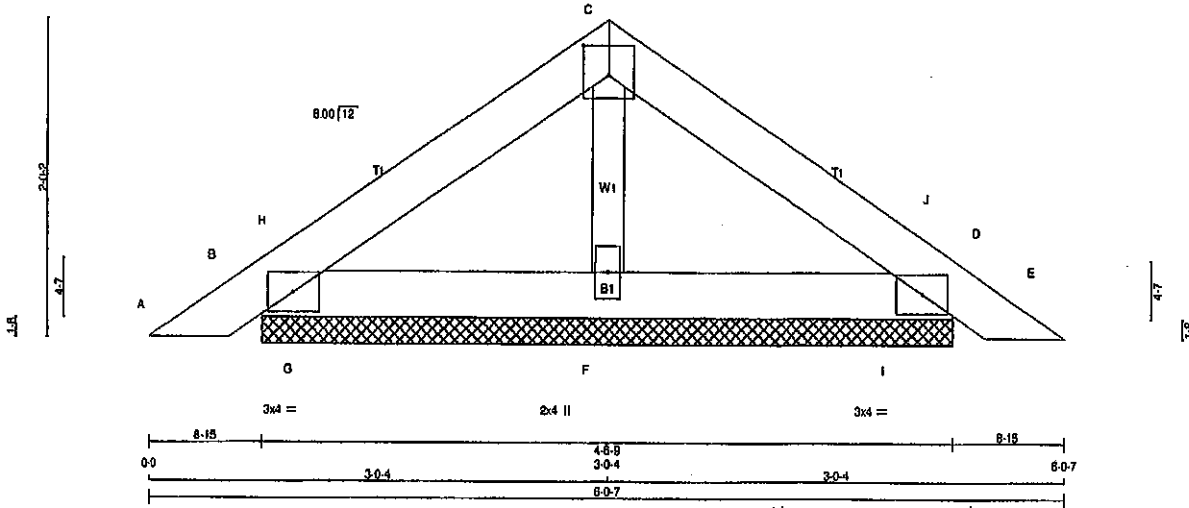


Structural component only
DWG# T-2008002

JOB NAME 408315	TRUSS NAME PB5	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 09:31:29 2020 Page 1
ID:DMCubiNVR6TslF0e31v8l_zns11-5HpSUDS?GWHIO01XDqrDmOd828sUCkkyDKxZ5zLaFc

Scale = 1:13.5



TOTAL WEIGHT = 2 X 14 = 28 lb (M)

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

PLATES (tablets in inches)	PLATES	W	LEN	Y	X
JT TYPE	MT20	3.0	4.0		
B TMB1-I	MT20	3.0	4.0	2.25	2.00
C TTW-p	MT20	3.0	4.0		
D TMB1-I	MT20	3.0	4.0		
F BMM1-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	REQD BRG
	VERT	HORZ	DOWN	HORZ		
JT	205	0	205	0	4-6-9	4-6-9
B	205	0	205	0	4-6-9	4-6-9
D	205	0	205	0	4-6-9	4-6-9
F	213	0	213	0	4-6-9	4-6-9

UNFACTORED REACTIONS

1ST CASE	MAX/MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD
JT	143	104 / 0	0 / 0	0 / 0	0 / 0	39 / 0
B	143	104 / 0	0 / 0	0 / 0	0 / 0	39 / 0
D	143	104 / 0	0 / 0	0 / 0	0 / 0	39 / 0
F	152	92 / 0	0 / 0	0 / 0	0 / 0	59 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORZ. LOAD (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORZ. LOAD (LBS)	
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 15	-91.8	-91.8	0.03 (1)	10.00	F-C	-104 / 0
B-H	-38 / 0	-91.8	-91.8	0.02 (1)	8.25	G-H	-141 / 0
H-C	-82 / 0	-91.8	-91.8	0.05 (1)	8.25	I-J	-141 / 0
C-J	-82 / 0	-91.8	-91.8	0.05 (1)	8.25		
J-D	-38 / 0	-91.8	-91.8	0.02 (1)	8.25		
D-E	0 / 15	-91.8	-91.8	0.03 (1)	10.00		
B-G	0 / 49	-18.5	-18.5	0.06 (1)	10.00		
G-F	0 / 49	-18.5	-18.5	0.06 (1)	10.00		
F-I	0 / 49	-18.5	-18.5	0.06 (1)	10.00		
I-D	0 / 49	-18.5	-18.5	0.06 (1)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	= 25.6 PSF
	DL	= 6.0 PSF
BOT CH.	LL	= 0.0 PSF
	DL	= 7.4 PSF
TOTAL LOAD		= 39.0 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 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.05/1.00 (C-H:1), BC=0.06/1.00 (B-G:1), WB=0.02/1.00 (C-F:1), SS=0.10/1.00 (B-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)
MT20	618	354	1667 788 1987 1666

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.17 (B) (INPUT = 0.90)
JSI METAL = 0.04 (B) (INPUT = 1.00)

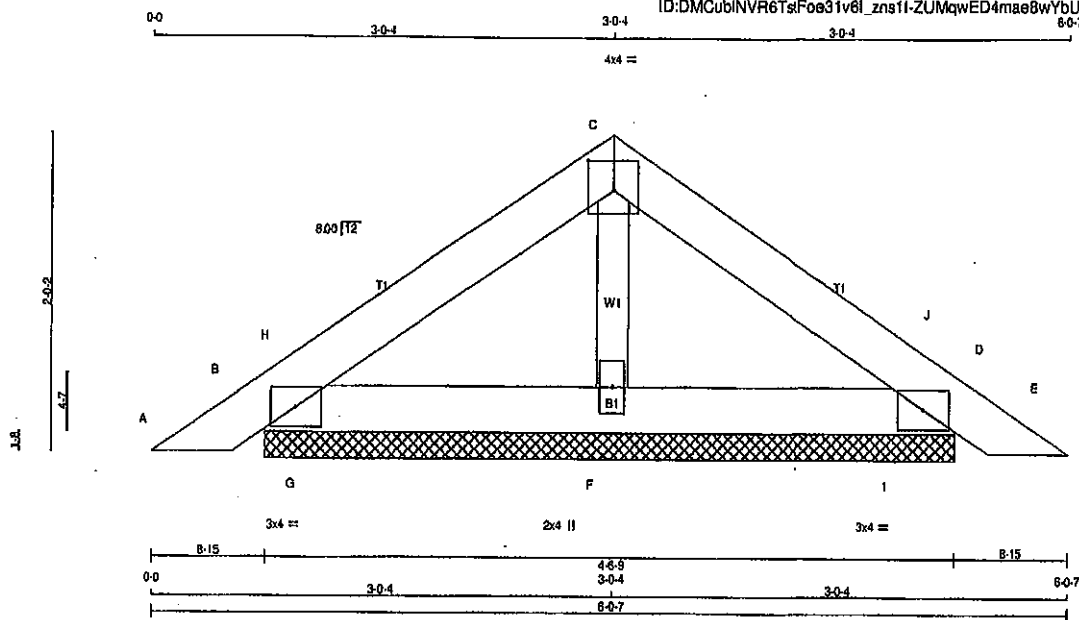


Structural component only
DWG# T-2008003

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MTek Industries, Inc. Thu Apr 30 09:31:30 2020 Page 1
ID:DMCubINVR6TsFoe31v6l_zns1f-ZUMqWED4mae8WYbU5xM4mzxoGSUZDf5Bt4V5XzLa/E

Scale = 1:13.5



TOTAL WEIGHT = 2 X 14 = 29 lb

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

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

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

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

PLATES (table in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
B	TM81-I	MT20	3.0	4.0		
C	TTW-p	MT20	4.0	4.0	2.25	2.00
D	TM81-I	MT20	3.0	4.0		
F	BMW1+w	MT20	2.0	4.0		

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

BUILDING DESIGNER						
BEARINGS						
JT	FACTORED		MAXIMUM FACTORED		INPUT	RECORD
	GROSS REACTION		GROSS REACTION		BRG	BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX
B	206	0	206	0	4-6-9	4-6-9
D	206	0	208	0	4-6-9	4-6-9
F	212	0	212	0	4-6-9	4-6-9

UNFACTORED REACTIONS

1ST LCASE								MAX. MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
B	144	104/0	0/0	0/0	0/0	39/0	0/0	B	144	104/0	0/0	0/0	0/0	39/0	0/0
D	144	104/0	0/0	0/0	0/0	39/0	0/0	D	144	104/0	0/0	0/0	0/0	39/0	0/0
F	151	92/0	0/0	0/0	0/0	59/0	0/0	F	151	92/0	0/0	0/0	0/0	59/0	0/0

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

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)

CHOROS				WEBS			
MAX. FACTORED		FACTORED		MAX. FACTORED		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LO)	MAX. UNBRAC LENGTH	MEMB.	FORCE (LBS)	MAX. CSI (LO)
FR-TO		FROM TO			FR-TO		
A-B	0 1/15	-91.8	-91.8 0.01 (1)	10.00	F-C	-104 7/8	0.01 (1)
B-H	-40 7/8	-91.8	-91.8 0.01 (1)	8.25	G-H	-139 7/8	0.00 (1)
H-C	-82 7/8	-91.8	-91.8 0.03 (1)	8.25	I-J	-139 7/8	0.00 (1)
C-J	-82 7/8	-91.8	-91.8 0.03 (1)	8.25			
D-J	-40 7/8	-91.8	-91.8 0.01 (1)	8.25			
D-E	0 1/15	-91.8	-91.8 0.01 (1)	10.00			
B-G	0 7/49	-18.5	-18.5 0.03 (1)	10.00			
G-F	0 7/49	-18.5	-18.5 0.03 (1)	10.00			
F-I	0 7/49	-18.5	-18.5 0.03 (1)	10.00			
I-D	0 7/49	-18.5	-18.5 0.08 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

SPECIFIED LOADS:				
TOP CH.	LL	=	25.6	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.4	PSF
TOTAL LOAD		=	38.0	PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.03/1.00 (C-H:1), BC=0.03/1.00 (B-G:1),
WB=0.01/1.00 (C-F:1), SSI=0.05/1.00 (B-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.

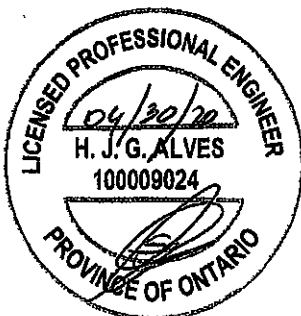
NAIL VALUES

PLATE	GRIP (DRY) (PSI)		SHEAR (PLI)		SECTION (PLI)	
	MAX	MIN	MAX	MIN	MAX	MIN
MT20	618	354	1867	788	1987	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

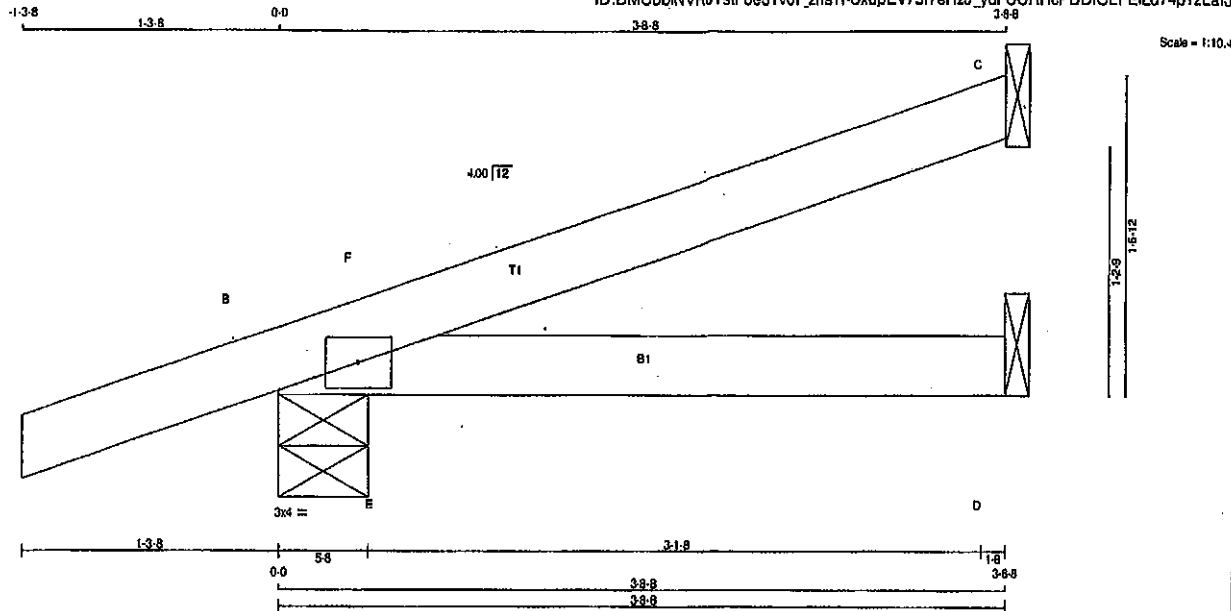
JSI GRIP= 0.09 (B) (INPUT = 0.90)
JSI METAL= 0.02 (B) (INPUT = 1.00)



Structural component only
DWG# T-2008004

JOB NAME 408315	TRUSS NAME J2	QUANTITY 8	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 09:31:22 2020 Page 1
ID:DMCubINVR6TstFoe31v6l_zns11-oxupEV7317eHd_ydFCCRHePDDICLFEId74p7zLafJ



TOTAL WEIGHT = 8 X 10 = 83 lb (M)

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 - TM81-1	MT20	3.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION	FACTORED GROSS REACTION	INPUT BRG	REQ'D BRG
	VERT	HORZ	DOWN	HORZ
C	146	0	146	0
B	327	0	327	0
D	58	0	58	0

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST CASE	MAX/MIN COMPONENT REACTIONS	SNOW	LIVE	PERM LIVE	WIND	DEAD	SOIL
C	101	78/0	0/0	0/0	0/0	0/0	23/0	0/0
B	229	163/0	0/0	0/0	0/0	0/0	66/0	0/0
D	43	17/0	0/0	0/0	0/0	0/0	27/0	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: (6)

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	MAX. CS (LC)	MEMB. FORCE (LBS)
FR-TO		FROM TO	LENGTH	FR-TO
A-B	0/18	-91.8	-91.8 0.13 (5)	10.00
B-F	-11/0	-91.8	-91.8 0.04 (4)	6.25
F-C	0/2	-91.8	-91.8 0.16 (1)	10.00
B-E	0/0	-18.5	-18.5 0.12 (1)	10.00
E-D	0/0	-18.5	-18.5 0.12 (1)	10.00

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.8 PSF
DL = 5.0 PSF	
BOT CH.	LL = 0.0 PSF
DL = 7.4 PSF	
TOTAL LOAD	= 39.0 PSF

SPACING = 24.0 IN. CC

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, OBC 2012, ABC 2010
- PART 9 OF OBC 2012 (2018 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CS: TC=0.18/1.00 (C-F:1), BC=0.12/1.00 (B-E:1),
WB=0.00/1.00 (E-F:1), SS=0.12/1.00 (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
(PS)	(PL)	(FL)
MAX MIN	MAX MIN	MAX MIN
MT20	516 354	1867 768

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

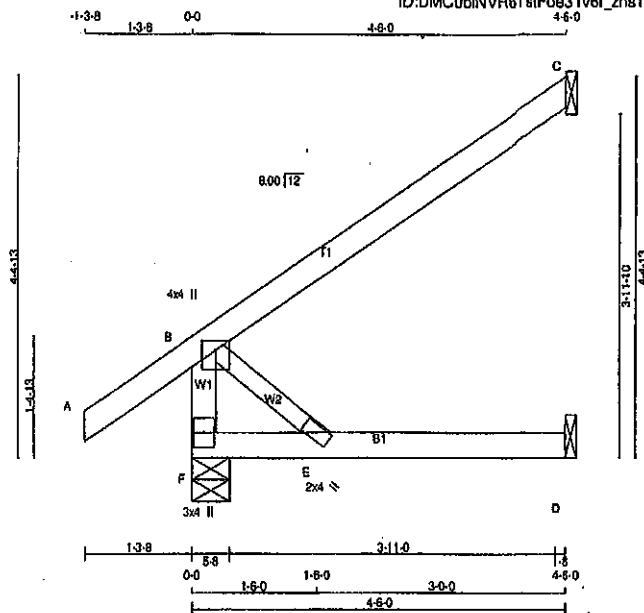


Structural component only
DWG# T-2007998

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408316	J30	2	1	GREEN PARK HOMES	
				TRUSS DESC.	

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 10:05:21 2020 Page 1
ID:DMCubINVR6TetFos31v6L_zns11-bDbdAio2TcXz4fMqZ_ILMaGYpB9fTbR7qDMZUJzLa9S



Scale = 1/24.6

TOTAL WEIGHT = 2 X 16 = 31 lb

LUMBER	N. L. G. A. RULES	CHORDS	SIZE	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.					

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	UPLIFT
F	374	0	374	0
C	208	0	208	0
D	42	0	42	0

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C. D

UNFACTORED REACTIONS

JT	1ST LCASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	282	185 / 0	0 / 0	0 / 0	0 / 0	0 / 0	77 / 0	0 / 0
C	142	115 / 0	0 / 0	0 / 0	0 / 0	0 / 0	27 / 0	0 / 0
D	33	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	33 / 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: (4)

CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MAX.	MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MAX.
MEMB.	FORCE (LBS)	FORCE (LBS)	FROM	TO	FROM	TO	FR-TO	FORCE (LBS)	FORCE (LBS)	FROM	TO	FROM	TO
F-B	-332 / 0	0.0	0.0	0.03 (1)	7.81	8-E	0 / 0	0.00 (1)					
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00								
B-C	0 / 0	-91.8	-91.8	0.32 (1)	10.00								
F-E	0 / 0	-18.5	-18.5	0.10 (4)	10.00								
E-D	0 / 0	-18.5	-18.5	0.11 (4)	10.00								

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	=	25.6	PSF
DL	=	6.0	PSF
BOT CH. LL	=	0.0	PSF
DL	=	7.4	PSF
TOTAL LOAD	=	39.0	PSF

SPACING = 24.0 IN. C/C

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, ABC 2019
- PART 9 OF NBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 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) = $L/999$ (0.02")

CSI: TC=0.32/1.00 (B-C:1), BC=0.11/1.00 (D-E:4),
WB=0.00/1.00 (B-E:1), SSI=0.13/1.00 (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)	(PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	818	354	1897
	788	1987	1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.23 (B) (INPUT = 0.90)
JSI METAL= 0.07 (B) (INPUT = 1.00)



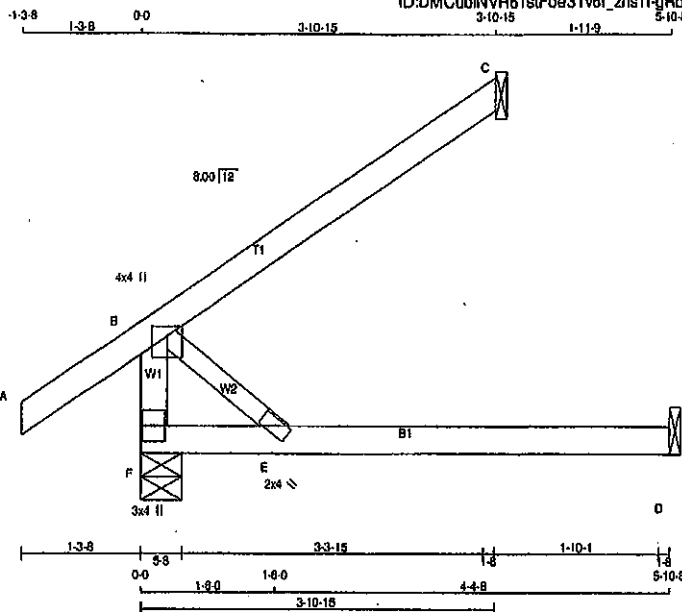
Structural component only
DWG# T-2008026

JOB NAME 408315	TRUSS NAME C1	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
TRUSS DESC.					

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 09:31:09 2020 Page 1

ID:DMCubINVR6TstFoe31v6l_zns1l-gRbuV2zv777vJUSM1T9PYZ9F_JBoN0oM6UurFzLafVW



Scale = 1:22.7

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

DESCR.	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
JT	VERT	HORZ	DOWN	HORZ
F	380	0	380	0
C	179	0	179	0
D	54	0	61	0

SEE MITEK STANDARD DETAIL 897791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST CASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	COMBINED	170/0	0/0	0/0	0/0	83/0	0/0
C	124	100/0	0/0	0/0	0/0	23/0	0/0
D	43	0/0	0/0	0/0	0/0	43/0	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 = 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				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CS1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CS1 (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
F-B	-305/0	0.0	0.0 0.03 (1)	7.81	B-E	0/0	0.00 (1)
A-B	0/35	-91.8	-91.8 0.12 (1)	10.00			
B-C	0/0	-91.8	-91.8 0.24 (1)	10.00			
F-E	0/0	-18.5	-18.5 0.14 (4)	10.00			
E-D	0/0	-18.5	-18.5 0.19 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.8 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 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 BOBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 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 (0.05")

CS1: TC=0.24/1.00 (B-C:1), BC=0.19/1.00 (D-E:4), 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) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1937 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

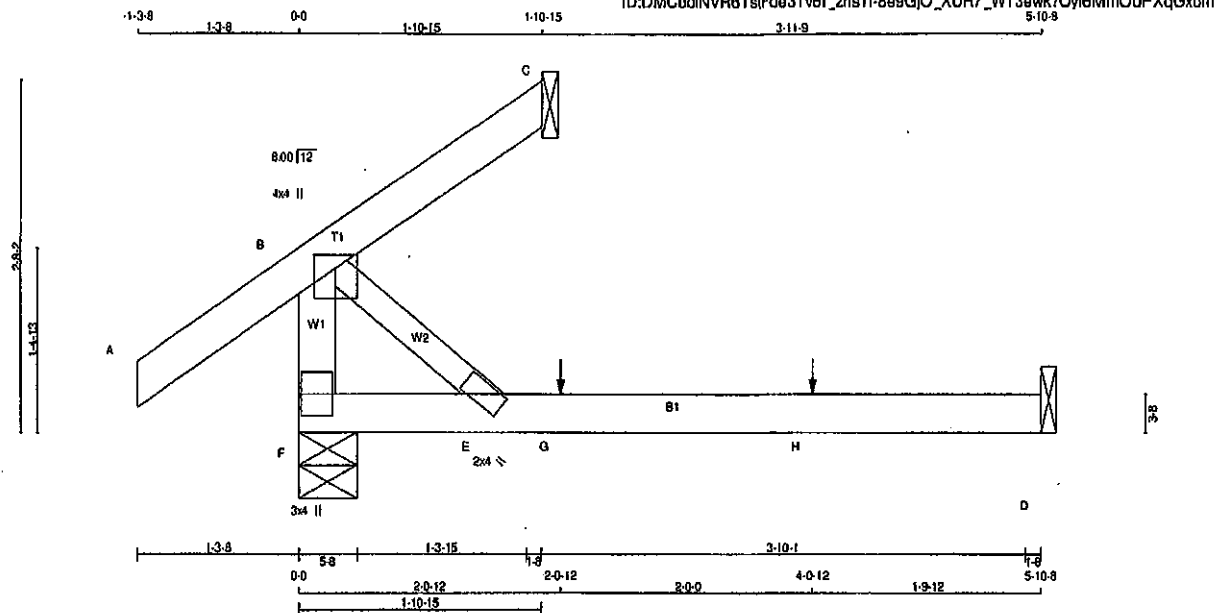


Structural component only
DWG# T-2007989

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408315	C2	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MTak Industries, Inc. Thu Apr 30 09:31:10 2020 Page 1
ID:DMCubINVR6TslFoe31v6I_zns1l-8e9GjO_XUR7_WT3awk?Oyl6MmOdPXqGxbmDROizLatV



TOTAL WEIGHT = 14 lb (M)

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	1.25	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.	VERT	GROSS REACTION	HORZ	GROSS REACTION	DOWN	HORZ	BRG	BRG	IN-SX
F	313	0	313	0	0	5-8	5-8		
C	42	0	42	0	0	1-8	1-8		
D	54	0	61	0	0	1-8	1-8		

SEE MITEK STANDARD DETAIL 997791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LOASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	222	144/0	0/0	0/0	0/0	77/0	0/0
C	29	24/0	0/0	0/0	0/0	6/0	0/0
D	43	0/0	0/0	0/0	0/0	43/0	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: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT.	LOAD LC1	MAX	MEMB.	FORCE (LBS)	MAX
FR-TO					FR-TO		
F-B	-259/0	0.0	0.0	0.03 (1)	B-E	0/0	0.00 (1)
A-B	0/35	-91.8	-91.8	0.13 (1)			
B-C	-25/0	-91.8	-91.8	0.12 (1)			
F-E	0/0	-18.5	-18.5	0.14 (4)			
E-G	0/0	-18.5	-18.5	0.19 (4)			
G-H	0/0	-18.5	-18.5	0.19 (4)			
H-D	0/0	-18.5	-18.5	0.19 (4)			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
G	2-0-12	1	1	---	FRONT	VERT	TOTAL	C1
H	4-0-12	1	1	---	FRONT	VERT	TOTAL	C1

CONNECTION REQUIREMENTS

- 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. CD

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, OSC 2012, ABC 2019
- PART 9 OF OSC 2012 (2019 AMENDMENT)
- CSA 088-08, CSA 088-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 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 (0.05")

GS: TC=0.13/1.00 (A-B:1), BC=0.19/1.00 (D-E:4), WB=0.00/1.00 (B-E:1), SS=0.09/1.00 (B-C:1)

DOL LUMBER=0.98 NAIL=0.98 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

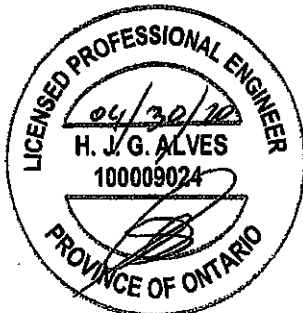
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PS) (PL) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 615 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.18 (B) (INPUT = 0.90)
JSI METAL = 0.05 (B) (INPUT = 1.00)



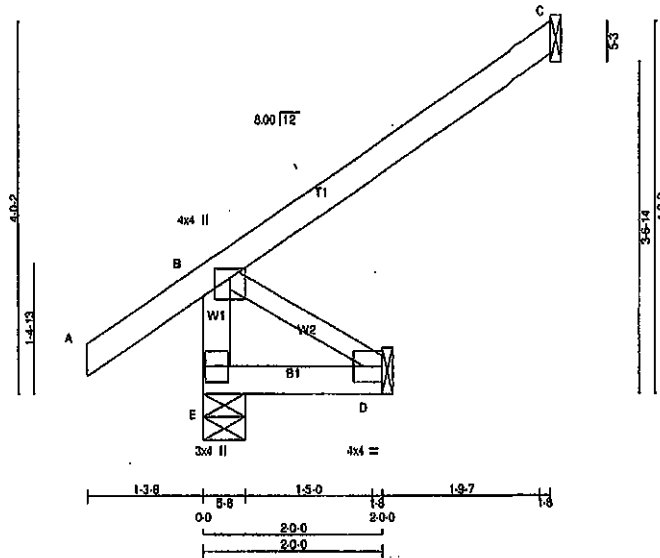
Structural component only
DWG# T-2007990

JOB NAME 408315	TRUSS NAME C3	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 09:31:12 2020 Page 1
ID:DMCubINVR6TstFoe31v6I_zns1I-50H1847n02NimmD1191s1ABqUCLV?nE23IYSazLaft

1-3-8 1-3-8 0-0 2-0-0 2-0-0 1-10-15 3-10-15

Scale = 1:23.0



TOTAL WEIGHT = 12 lb

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

PLATES (tablets in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMWV-p	MT20	4.0	4.0	1.25	2.00
D	BMV1-l	MT20	4.0	4.0	2.00	Edge
E	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	HORZ	DOWN	HORZ
E	323	0	323	0
C	179	0	179	0
D	18	0	20	0

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

1ST CASE		MAX/MIN COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	224	170 / 0	0 / 0	0 / 0	0 / 0	54 / 0	0 / 0
C	124	100 / 0	0 / 0	0 / 0	0 / 0	23 / 0	0 / 0
D	14	0 / 0	0 / 0	0 / 0	0 / 0	14 / 0	0 / 0

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

SPACING

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: (3)

CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MAX.	MEMB.	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	CS1 (LC)	UNBRAC	LENGTH	FR-TO	MEMB.	FORCE (LBS)
FR-TO								
E-B	-305 / 0	0.0	0.0	0.03 (1)	7.81	B-D	0 / 0	0.00 (1)
A-B	0 / 35	-91.8	-91.8	0.13 (6)	10.00			
B-C	0 / 0	-91.8	-91.8	0.24 (1)	10.00			
E-D	0 / 0	-18.5	-18.5	0.02 (4)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. OC

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TRC 2011, TPIC 2014

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CS1: TC=0.24/1.00 (B-C:1), BC=0.02/1.00 (D-E:4),
WB=0.00/1.00 (B-D:1), SS1=0.12/1.00 (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	SECTION
(PSI)	(PL)	(PL)
MAX	MIN	MAX
MT20	818	384
	1687	786
	1987	1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.21 (B) (INPUT = 0.80)
JSI METAL = 0.08 (B) (INPUT = 1.00)



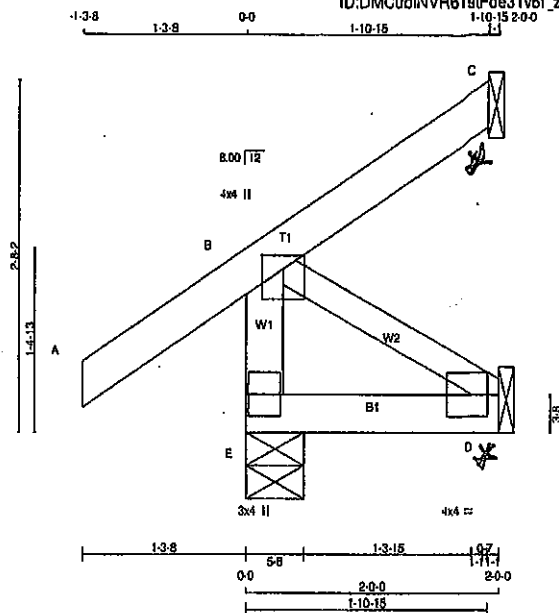
Structural component only
DWG# T-2007991

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408315	C4	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.		Version 8.310 5 Oct 2019 Mitek Industries, Inc. Thu Apr 30 09:31:13 2020 Page 1	

Tamarack Roof Truss, Burlington

ID:DMCubINVR6TslFoe31v6l_zns1l-ZC/rPLQOPnMVZNwoDbsY5aOkt1bhkkB7NHjS5_0zLafS
1-10-15 2:00

Scale = 1:16.2



TOTAL WEIGHT = 10 lb

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

PLATES (tablets in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.25	2.00
D	BMV1-i	MT20	4.0	4.0	2.00	1.50
E	BMV1+p	MT20	3.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ
E	278	0	278	0
C	42	0	42	0
D	18	0	20	0

SEE MITEK STANDARD DETAIL 897791H FOR CONNECTION TO JOINT(S) C, D

PROVIDE ANCHORAGE AT BEARING JOINT C FOR 150 LBS FACTORED UPLIFT

UNFACTORED REACTIONS

JT	1ST LOOSE	MAX MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	182	144/0	0/0	0/0	0/0	0/0	48/0	0/0
C	29	24/-26	0/0	0/0	0/0	0/0	6/0	0/0
D	14	0/0	0/0	0/0	0/0	0/0	14/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORIZ. LOAD (LC)	MAX. FACTORED LENGTH FR-TO	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORIZ. LOAD (LC)
E-B	-259/0	0.0	0.0	0.03 (1)	7.81	B-D	0/0	0.00 (1)	
A-B	0/35	-91.8	-91.8	0.12 (1)	10.00				
B-C	-25/0	-91.8	-91.8	0.12 (1)	6.25				
E-D	0/0	-18.5	-18.5	0.02 (4)	10.00				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL	= 25.8 PSF
DL	= 6.0 PSF
BOT CH. LL	= 0.0 PSF
DL	= 7.4 PSF
TOTAL LOAD	= 39.0 PSF

SPACING = 24.0 IN./C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, CBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 088-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(TL) = L/360 (0.19")

CALCULATED VERT. DEFL.(TL) = L/999 (0.00")

CSI: TC=0.12/1.00 (A-B:1), BC=0.02/1.00 (D-E:4), WB=0.00/1.00 (B-D:1), SSI=0.08/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	
MT20	618	354	1887 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)



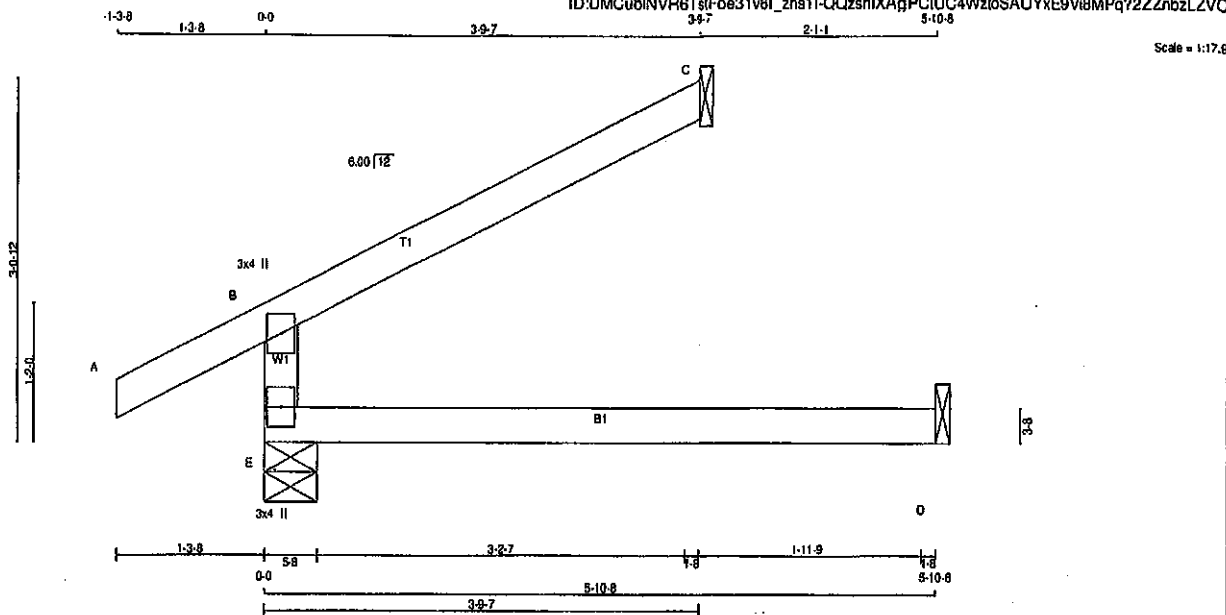
Structural component only
DWG# T-2007992

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408317	C50	4	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Thu Apr 30 10:50:25 2020 Page 1

ID:DMCubINVR6TstFoe31v8I_zna11-QQzshIXAgPCIUC4WzloSAUYxE9V8MPq72Z2ZnbzLZVC



TOTAL WEIGHT = 4 X 14 = 57 lb

LUMBER		
N. L. G. A. RULES	SIZE	LUMBER
CHORDS	2x4	DRY
E - B	2x4	DRY
A - C	2x4	DRY
E - D	2x4	DRY

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
		GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
E	405	0	405	0	0	5-8	5-8		
C	130	0	130	0	0	1-8	1-8		
D	45	0	80	0	0	1-8	1-8		

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LOASE	MAX/MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	268	190 / 0	0 / 0	0 / 0	0 / 0	98 / 0	0 / 0
C	90	73 / 0	0 / 0	0 / 0	0 / 0	17 / 0	0 / 0
D	38	0 / 0	0 / 0	0 / 0	0 / 0	38 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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		FACTORED		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FROM	TO	FR-TO	
E-B	-342 / 0	0.0	0.0 0.13 (4)	7.81	
A-B	0 / 28	-91.8	-91.8 0.12 (1)	10.00	
B-C	-19 / 0	-91.8	-91.8 0.22 (1)	8.25	
E-D	0 / 0	-18.5	-18.5 0.13 (4)	10.00	

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.8 PSF
DL = 8.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. O.C.

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 2018, CBC 2012, ABC 2018
- PART 9 OF CBC 2012 (2018 AMENDMENT)
- CSA 088-09, CSA 086-14
- TPIC 2011, TPIC 2014

DESIGN ASSUMPTIONS

OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 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")

CS: TC=0.22/1.00 (B-C:1), BC=0.13/1.00 (D-E:4), WB=0.00/1.00 (W:0), SS=0.15/1.00 (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)	(PL)	(PL)	(PL)
MAX	MIN	MAX	MIN
MT20	818	354	1887 788 1987 1858

PLATE PLACEMENT TOL. = 0.25 inches

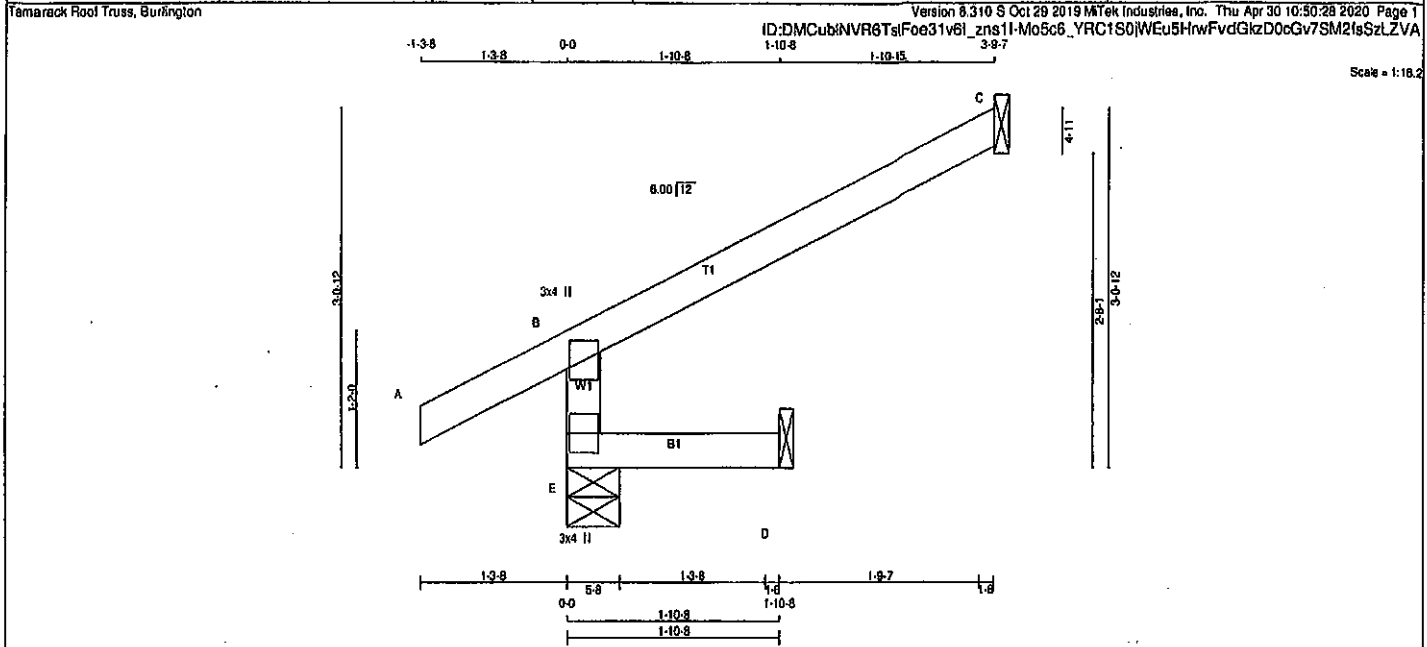
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.14 (E) (INPUT = 0.90)
JSI METAL= 0.09 (B) (INPUT = 1.00)



Structural component only
DWG# T-2008050

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408317	C52	4	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.		Version 8.310 S Oct 29 2019 MTEK Industries, Inc. Thu Apr 30 10:50:28 2020 Page 1	



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

DRY: SEASONED LUMBER.

PLATES (table in inches)				
JT TYPE	PLATES	W	LEN	Y X
B	TMV+p	MT20	3.0	4.0
E	BMV1+p	MT20	3.0	4.0

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT		REQD	
	VERT	HORZ	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
E	361	0	361	0	5-8	5-8	5-8	5-8
C	130	0	130	0	1-8	1-8	1-8	1-8
D	16	0	17	0	1-8	1-8	1-8	1-8

SEE MTEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST CASE		MAX/MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM. LIVE			
E	250	190 / 0	0 / 0	0 / 0	0 / 0	80 / 0	0 / 0
C	90	73 / 0	0 / 0	0 / 0	0 / 0	17 / 0	0 / 0
D	12	0 / 0	0 / 0	0 / 0	0 / 0	12 / 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: (5)

MEMB.	CHORDS		FACTORED		WEBS		MAX. FACTORED	
	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (PLF)	CS1 (LC)	MEMB. FORCE (LBS)	MAX. CS1 (LC)	MAX. FORCE (LBS)	MAX. CS1 (LC)
FR-TO								
E-B	-342 / 0	0.0	0.0	0.01 (4)	7.81			
A-B	0 / 28	-91.8	-91.8	0.13 (5)	10.00			
B-C	-18 / 0	-91.8	-91.8	0.22 (1)	6.25			
E-D	0 / 0	-18.5	-18.5	0.02 (4)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. OC

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBCG 2010, NBCG 2012, ABC 2019
- PART 9 OF NBCG 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 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=0.22/1.00 (B-C:1), BC=0.02/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.15/1.00 (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)	(PLI)
MAX	MIN	MAX	MIN
MT20	618	354	1887

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.14 (E) (INPUT = 0.90)
JSI METAL = 0.09 (B) (INPUT = 1.00)

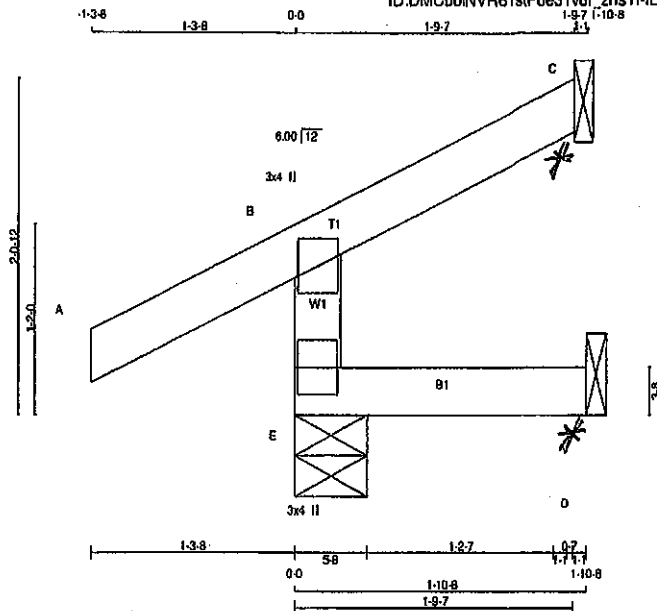


Structural component only
DWG# T-2008052

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408317	C53	4	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 Mtek Industries, Inc. Thu Apr 30 10:50:29 2020 Page 1
ID:DMCubINVR6Ts1Foe31v6l_zns11HBDMXfahkeikzqNHCNOKKiesmw94AOQwgXmwMzLZV8



Scale = 1/10

TOTAL WEIGHT = 4 X 7 = 28 lb

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

DRY: SEASONED LUMBER.

DESCR.
SPF
SPF
SPF

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT	RECORD
	DOWN	DOWN	BRG	BRG
JT	VERT	HORZ	UPLIFT	IN-SX
E	271	0	271	0
C	45	0	45	0
D	8	0	17	0

SEE MTEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) E, C, D

PROVIDE ANCHORAGE AT BEARING JOINT C FOR 150 LBS FACTORED UPLIFT
PROVIDE ANCHORAGE AT BEARING JOINT D FOR 150 LBS FACTORED UPLIFT

UNFACTORED REACTIONS

JT	1ST CASE	MAX/MIN	COMPONENT REACTIONS
	COMBINED	SNOW	LIVE
			PERM. LIVE
			WIND
			DEAD
			SOIL
E	188	141 / 0	0 / 0
C	31	24 / -18	0 / 0
D	7	0 / -8	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD	CS1 (LC)	MEMB. MAX. FORCE (LBS)
FR-TO		FROM TO	UNBRACED LENGTH	FR-TO
E-B	-244 / 0	0.0	0.0	0.04 (5)
A-B	0 / 28	-91.8	-91.8	0.12 (1)
B-C	-17 / 0	-91.8	-91.8	0.09 (1)
E-D	0 / 0	-18.5	-18.5	0.04 (5)

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 39.0 PSF

SPACING = 24.0 IN. OC

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPIC 2011, TPIC 2014

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

(65 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.19")
CALCULATED VERT. DEFL. (LL) = L/989 (0.00")
ALLOWABLE DEFL. (TL) = L/360 (0.19")
CALCULATED VERT. DEFL. (TL) = L/989 (0.00")

CS1: TC=0.12/1.00 (A-B:1), BC=0.04/1.00 (D-E:5),
WB=0.00/1.00 (B-C:0), SS1=0.09/1.00 (A-B: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

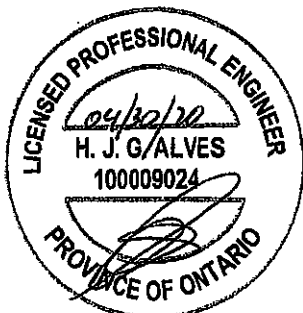
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES	PLATE GRIP (DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
	MAX	MIN	MAX
MT20	818	354	1887

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.10 (E) (INPUT = 0.90)
JSI METAL = 0.07 (B) (INPUT = 1.00)



Structural component only
DWG# T-2008053

LUL/LUS/LJS/HUS/HHUS/HGUS

Standard and Double-Shear Joist Hangers



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

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

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

Material: See table on pp. 258–259.

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

Installation:

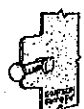
- Use all specified fasteners; see General Notes.
- Nails must be driven at an angle through the joist or truss into the header to achieve the tabulated resistances (except LUL).
- Where 16d commons are specified, 10d commons may be used at 0.83 of the tabulated factored resistance.
- Not designed for welded or nailer applications.
- With single ply 2x carrying members, use 10d x 1½" nails into the header and 10d commons into the joist, and reduce the resistance to 0.64 of the table value where 16d nails are specified and 0.77 where 10d nails are specified.

Options:

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



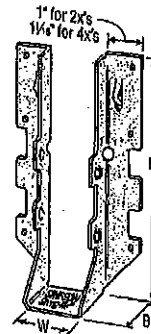
Double-Shear
Nailing
Top View



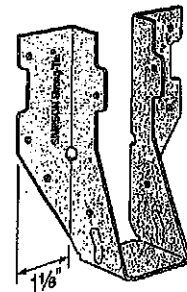
Double-Shear
Nailing
Side View;
Do not
bend tab



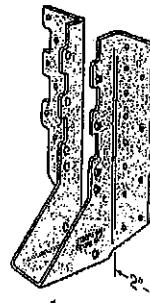
Dome Double-Shear
Nailing Side View
(available on
some models)
U.S. Patent 5,603,580



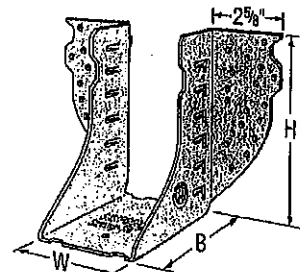
LUS28



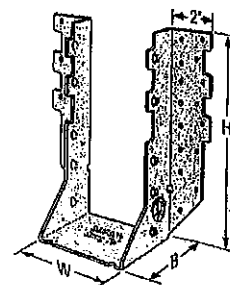
LU26L



HUS210
(HUS26, HUS28,
and HHUS similar)

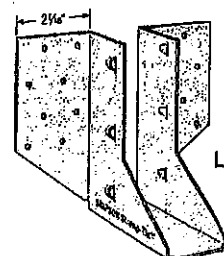
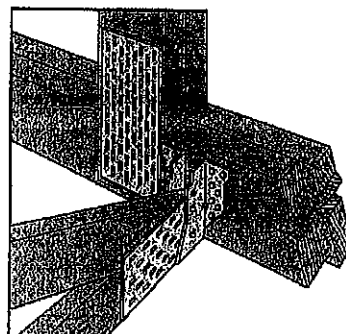


HGUS28-2



HHUS210-2

**Typical HUS28
Installation
with Reduced
Heel Height**
(Truss Designer
to provide
fastener quantity
for connecting
multiple members
together)



LJS26DS

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

See Hanger Options information on pp. 125–127.

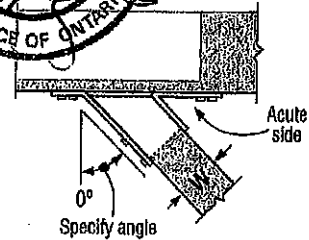
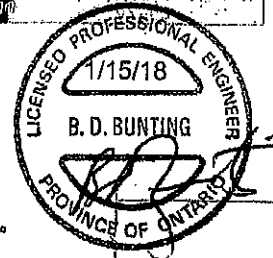
HHUS — Sloped and/or Skewed Seat

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

HGUS — Skewed Seat

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

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



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

Standard and Double-Shear Joist Hangers (cont.)

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

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

Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance			
		W	H	B	d _g ³	Header	Joist	D-Fir-L		S-P-F	
								Uplift	Normal	Uplift	Normal
								(K _D = 1.15) lb. kN	(K _D = 1.00) lb. kN	(K _D = 1.15) lb. kN	(K _D = 1.00) lb. kN
Single 2x Sizes											
■ LUS24	18	1 9/16	3 1/4	1 1/4	2 1/4	(4) 10d	(2) 10d	710	1625	845	1155
								3.16	7.23	2.87	5.14
								360	1020	320	725
■ LU24L	22	1 9/16	3	1 1/4	2 1/4	(4) 10d	(2) 10d x 1 1/2"	1.60	4.54	1.42	3.22
								720	1605	645	1140
								3.20	7.14	2.87	5.07
SS LUS26	18	1 9/16	4 1/4	1 1/4	3 1/4	(4) 10d	(4) 10d	1420	2170	1290	1630
								6.32	8.65	5.74	7.25
								2705	4940	2065	3675
■ HUS26	16	1 1/4	5 1/4	3	3 1/4	(14) 16d	(6) 16d	11.80	21.97	9.20	17.24
								2055	4265	1480	4115
								9.14	19.97	6.49	18.31
■ LJS26DS	18	1 9/16	5	3 1/2	4 1/4	(16) 16d	(6) 16d	2685	6625	2686	5700
								11.86	29.51	11.86	25.35
								1140	2185	1020	1550
■ LU28L	20	1 9/16	6 1/4	1 1/4	5 1/4	(8) 10d	(6) 10d x 1 1/2"	5.07	8.72	4.54	6.89
								1420	2520	1290	1790
								6.32	11.21	5.74	7.96
SS LUS28	18	1 9/16	6 1/4	1 1/4	3 1/4	(6) 10d	(4) 10d	3605	5365	2675	4345
								16.04	23.86	11.90	19.33
								3310	7675	3310	6900
■ HUS28	16	1 1/4	7 1/4	3	6 1/4	(22) 16d	(8) 16d	14.74	34.19	14.74	30.73
								1140	2495	1020	1770
								5.07	11.10	4.64	7.87
■ HGUS28	12	1 1/4	7 1/4	5	8 1/4	(36) 16d	(12) 16d	1420	2785	1290	2210
								6.32	12.39	5.74	9.83

1. Factored uplift resistances have been increased 15% for wind or earthquake loading; no further increase is allowed.

2. Designer must ensure that hanger is compatible with truss when reduced heel height is used.

3. d_g is the distance from the bearing seat to the top joist nail.

4. Resistances shown require a minimum 2-ply girder truss. For fastening to single-ply truss request technical bulletin T-C-N10TRSSON and/or see installation notes.

5. Nails: 16d = 0.162" dia. x 3 1/2" long. See pp. 27–28 for other nail sizes and information.

Face-Mount Hangers

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

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

Model No.	Ga.	Dimensions (in.)				Fasteners		Factored Resistance			
		W	H	B	d _o ³	Header	Joist	D.Fir-L		S-P-F	
								Uplift	Normal	Uplift	Normal
								(K _D = 1.15) lb. kN	(K _D = 1.00) lb. kN	(K _D = 1.15) lb. kN	(K _D = 1.00) lb. kN
Double 2x Sizes											
LUS24-2	18	3 1/8	3 1/8	2	1 1/2	(4) 16d	(2) 16d	835 3.71	2020 8.98	690 2.62	1435 6.38
LUS26-2	18	3 1/8	4 1/8	2	4	(4) 16d	(4) 16d	1720 7.85	2595 11.54	1545 6.87	1920 8.64
HHUS26-2	14	3 1/8	5 1/8	3	3 1/2	(14) 16d	(6) 16d	2850 12.68	7335 32.83	2065 9.20	5205 23.15
HGUS26-2	12	3 1/8	5 1/8	4	4 1/8	(20) 16d	(8) 16d	4385 19.51	8950 39.81	3110 13.83	6355 28.27
LUS28-2	18	3 1/8	7	2	4	(6) 16d	(4) 16d	1720 7.65	3325 14.79	1545 6.87	2575 11.45
HHUS28-2	14	3 1/8	7 1/8	3	6 1/8	(22) 16d	(8) 16d	3765 16.75	8940 39.77	2675 11.90	6345 28.22
HGUS28-2	12	3 1/8	7 1/8	4	8 1/8	(36) 16d	(12) 16d	6070 27.00	12980 57.74	4310 19.17	9215 40.99
LUS210-2	18	3 1/8	9	2	6	(8) 16d	(6) 16d	2580 11.48	4500 20.02	2320 10.32	3195 14.21
HHUS210-2	14	3 1/8	9 1/8	3	8	(30) 16d	(10) 16d	4670 20.77	9660 42.97	4235 18.84	7000 31.14
HGUS210-2	12	3 1/8	9 1/8	4	8 1/8	(46) 16d	(16) 16d	6840 30.43	14015 62.34	4855 21.60	10270 45.69
Triple 2x Sizes											
HGUS26-3	12	4 1/8	5 1/8	4	4 1/8	(20) 16d	(8) 16d	4385 19.51	8950 39.81	3110 13.83	6355 28.27
HGUS28-3	12	4 1/8	7 1/8	4	6 1/8	(36) 16d	(12) 16d	6070 27.00	12980 57.74	4310 19.17	9215 40.99
HHUS210-3	14	4 1/8	9	3	7 1/8	(30) 16d	(10) 16d	4670 20.77	9660 42.97	4235 18.84	6865 30.54
HGUS210-3	12	4 1/8	9 1/8	4	8 1/8	(46) 16d	(16) 16d	6840 30.43	14045 65.14	4855 21.60	10400 46.26
Quadruple 2x Sizes											
HGUS28-4	12	6 1/8	5 1/8	4	4 1/8	(20) 16d	(8) 16d	4385 19.51	8950 39.81	3110 13.83	6355 28.27
HGUS28-4	12	6 1/8	7 1/8	4	6 1/8	(36) 16d	(12) 16d	6070 27.00	12980 57.74	4310 19.17	9215 40.99
HHUS210-4	14	6 1/8	9	3	7 1/8	(30) 16d	(10) 16d	4670 20.77	9660 46.17	4235 18.84	7210 32.07
HGUS210-4	12	6 1/8	9 1/8	4	8 1/8	(46) 16d	(16) 16d	6840 30.43	14045 65.14	4855 21.60	10400 46.26
HGUS212-4	12	6 1/8	10 1/8	4	10 1/8	(56) 16d	(20) 16d	7640 33.98	14895 66.70	5425 24.13	10645 47.35
HGUS214-4	12	6 1/8	12 1/8	4	11 1/8	(66) 16d	(22) 16d	10130 45.06	18400 72.95	7195 32.00	11645 51.80
4x Sizes											
LUS46	18	3 1/8	4 1/8	2	3 1/8	(4) 16d	(4) 16d	1720 7.65	2595 11.54	1545 6.87	1920 8.64
HHUS46	14	3 1/8	5 1/8	3	3 1/2	(14) 16d	(6) 16d	2540 11.30	7335 32.83	2065 9.20	5205 23.15
HGUS46	12	3 1/8	5 1/8	4	4 1/8	(20) 16d	(8) 16d	4385 19.51	8950 39.81	3110 13.83	6355 28.27
LUS48	18	3 1/8	6 1/8	2	3 1/8	(6) 16d	(4) 16d	1720 7.65	3325 14.79	1545 6.87	2575 11.45
HHUS48	14	3 1/8	7 1/8	3	6 1/8	(22) 16d	(8) 16d	3765 16.75	8940 39.77	2675 11.90	6345 28.22
HGUS48	12	3 1/8	7 1/8	4	8 1/8	(36) 16d	(12) 16d	6070 27.00	12980 57.74	4310 19.17	9215 40.99
LUS410	18	3 1/8	8 1/8	2	5 1/8	(8) 16d	(6) 16d	2580 11.48	4500 20.02	2320 10.32	3195 14.21
HGUS410	12	3 1/8	9	4	8 1/8	(46) 16d	(16) 16d	6840 30.43	14015 62.34	4855 21.60	10270 45.69
HGUS412	12	3 1/8	10 1/8	4	10 1/8	(56) 16d	(20) 16d	7640 33.98	14995 66.70	5425 24.13	10845 47.35
HGUS414	12	3 1/8	12 1/8	4	11 1/8	(66) 16d	(22) 16d	10130 45.06	18400 72.95	7195 32.00	11645 51.80



Plated Truss Connectors

See footnotes on p. 258.

TC - Truss Connectors

SIMPSON
Strong-Tie

The TC truss connector is an ideal connector for scissor trusses and can allow horizontal movement up to 1¼". The TC also attaches plated trusses to top plates or sill plates to resist uplift forces. Typically used on one or both ends of truss as determined by the building designer.

Material: 16 gauge

Finish: G90 galvanized

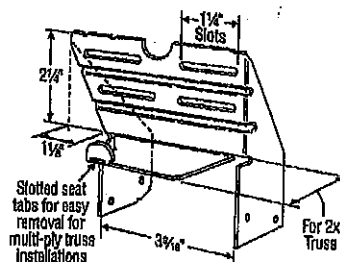
Design: Factored resistances are in accordance with CSA 086-14

Installation:

- Use all specified fasteners.
- Nails: 10d = 0.148" dia. x 3" long common wire, 10d x 1½" = 0.148" dia. x 1½" long.
- Drive 10d nails into the truss at the inside end of the slotted holes (inside end is towards the centre of the truss) and clinch on the back side. Do not seat these nails into the truss—allow room under the nail head for movement of the truss with respect to the wall.

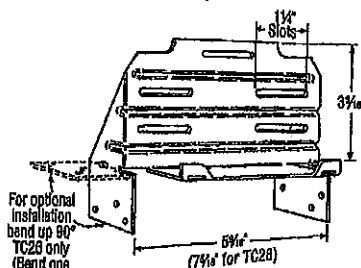
Optional TC Installation:

- Bend one flange up 90°. Drive specified nails into the top and face of the top plates or install Titen® screws into the top and face of masonry wall. See optional load tables and installation details.



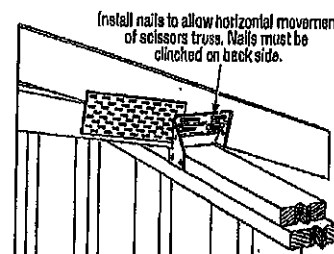
TC24

U.S. Patent 4,932,173

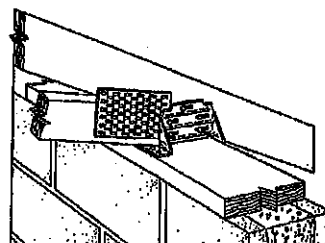


TC26

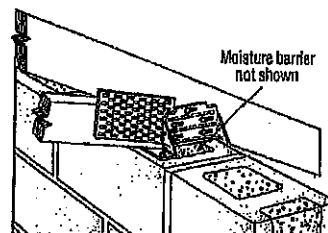
(TC28 Similar)



Typical TC24 Installation



Optional TC26 Installation for Grouted Concrete Block using a Wood Nailer (8", 10", 12" Wall Installation Similar)



Optional TC28 Installation for Grouted Concrete Block using Titen Screws

Model No.	Fasteners		Factored Resistance	
	Truss	Wall Plates	D.Fir-L	S-P-F
			Uplift (K ₀ =1.15)	Uplift (K ₀ =1.15)
TC24	(4) 10d	(4) 10d	605	430
TC26	(5) 10d	(6) 10d	1015	720
TC28	(5) 10d	(6) 10d	1015	720

Optional TC Installation Table

Model No.	Fasteners		Factored Resistance	
	Truss	Wall Plates	D.Fir-L	S-P-F
			Uplift (K ₀ =1.15)	Uplift (K ₀ =1.15)
TC26	(5) 10d	(6) 10d x 1½"	810	660
	(5) 10d	(6) 10d	930	660

1. Factored resistances have been increased 15% for earthquake or wind loading; no further increase allowed; reduce where other loads govern.
2. Grout strength is 15 MPa minimum.
3. Optional TC28 installation with 10d nails requires minimum 3" top plate thickness.
4. TC28 fastened to grouted concrete block with (6) - ¾" x 2¼" Titen screws has a factored uplift resistance of 275 lb.



(800) 999-5099
strongtie.com

H/TSP

SIMPSON
Strong-Tie

Seismic and Hurricane Ties (cont.)

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

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

Model No.	Ga.	Fasteners			Factored Resistance ($K_D = 1.15$)					
					D.Fir-L			S-P-F		
		To Rafters/Truss	To Plates	To Studs	Uplift	Lateral		Uplift	Lateral	
						F ₁	F ₂		F ₁	F ₂
					lb.	lb.	lb.	lb.	lb.	lb.
					kN	kN	kN	kN	kN	kN
H1	18	(6) 8d x 1½"	(4) 8d	—	740	685	300	680	485	215
					3.29	3.05	1.33	3.02	2.16	0.98
SS H2A	18	(5) 8d x 1½"	(2) 8d x 1½"	(5) 8d x 1½"	830	220	75	590	155	55
					3.69	0.98	0.33	2.62	0.69	0.24
SS H2.5A	18	(5) 8d	(5) 8d	—	805	160	160	755	160	160
					3.58	0.71	0.71	3.36	0.71	0.71
H2.5T	18	(5) 8d	(5) 8d	—	835	175	210	740	180	210
					3.71	0.78	0.93	3.29	0.71	0.93
SS H3	18	(4) 8d	(4) 8d	—	740	180	285	615	125	190
					3.29	0.80	1.18	2.74	0.56	0.85
H6	18	—	(8) 8d	(8) 8d	1585	1085	—	1125	770	—
					7.05	4.83	—	5.00	3.43	—
H7Z	16	(4) 8d	(2) 8d	(8) 8d	1390	670	—	990	475	—
					6.18	2.98	—	4.40	2.11	—
SS H8 ³	18	(5) 10d x 1½"	(5) 10d x 1½"	—	1120	—	—	1025	—	—
					4.98	—	—	4.66	—	—
SS H10A ⁴	18	(9) 10d x 1½"	(9) 10d x 1½"	—	1735	795	410	1505	585	290
					7.72	3.54	1.82	6.69	2.51	1.29
H10AR	18	(9) 10d x 1½"	(9) 10d x 1½"	—	1485	690	430	1220	570	305
					6.61	3.07	1.91	5.43	2.54	1.36
H10A-2	18	(9) 10d x 1½"	(9) 10d x 1½"	—	1835	1275	430	1645	880	305
					8.16	5.67	1.91	7.32	3.91	1.36
H10S ^{7,8}	18	(8) 8d x 1½"	(8) 8d x 1½"	(8) 8d	1465	785	315	1040	585	225
					6.52	3.54	1.40	4.63	2.51	1.00
H11Z	18	(6) 16d x 2½"	(6) 16d x 2½"	—	1095	920	545	780	655	390
					4.87	4.09	2.42	3.47	2.91	1.73
H14	18	[1] (12) 8d x 1½"	(13) 8d	—	2390	855	320	1805	610	230
		[2] (12) 8d x 1½"	(15) 8d	—	10.63	3.80	1.42	8.03	2.71	1.02
					2390	855	320	1805	610	230
TSP	16	(9) 10d x 1½"	(6) 10d x 1½"	—	1295	440	—	920	310	—
					5.76	1.96	—	4.09	1.38	—
		(9) 10d x 1½"	(6) 10d	—	1560	440	—	1105	310	—
					6.94	1.96	—	4.92	1.38	—

- Factored resistances have been increased 16% for short term loading; no further increase is allowed.
- Factored resistances are for one anchor. A minimum rafter thickness of 2½" must be used when framing anchors are installed on the same side of the plate (exception: H2.5A).
- H8 factored uplift resistances for stud-to-bottom plate installations are 695 lb. (2.65 kN) for D.Fir-L and 390 lb. (1.74 kN) for S-P-F.
- When cross-grain bending or cross-grain tension cannot be avoided, mechanical reinforcement to resist such forces should be considered.
- Hurricane ties are shown installed on the outside of the wall for clarity. Installation on the inside of the wall is acceptable. For a continuous load path, connections at the top and bottom of the wall must be on the same side of the wall (see technical bulletin T-HTIECONPATH-).
- Factored resistances in the F₁ direction are not intended to replace diaphragm boundary members or prevent cross grain bending of the truss or rafter members. Additional shear transfer elements shall be considered where there may be effects of cross grain bending or tension.

- H10S can have the stud offset a maximum of 1" from the rafter (centre to centre) for a reduced uplift of 1435 lb. (6.38 kN) D.Fir-L and 1015 lb. (4.51 kN) S-P-F.
- H10S nails to plates are optional for uplift but required for lateral loads.
- H10A may be field-bent up to a slope of 6/12. Multiply the tabulated uplift value x 0.75. Full tabulated lateral resistances apply.
- The factored resistances of stainless-steel connectors match carbon-steel connectors when installed with Simpson Strong-Tie® stainless-steel, SCNR ring-shank nails. For more information, refer to engineering letter L-F-SSNAILS at strongtie.com.
- D.Fir-L/S-P-F factored uplift resistances for the H2.5A fastened to a 2x4 truss bottom chord and double top plates using (5) 8d x 1½" nails into the top plates and (3) 8d x 1½" nails into the lowest three flange holes into the truss bottom chord is 485 lb. (2.20 kN).
- Nails: 16d x 2½" = 0.162" dia. x 2½" long, 10d = 0.148" dia. x 3" long, 10d x 1½" = 0.148" dia. x 1½" long, 8d = 0.131" dia. x 2½" long, 8d x 1½" = 0.131" dia. x 1½" long. See pp. 27-28 for other nail sizes and information.

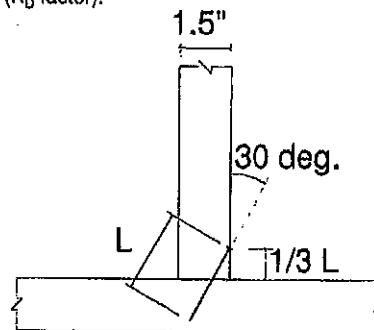
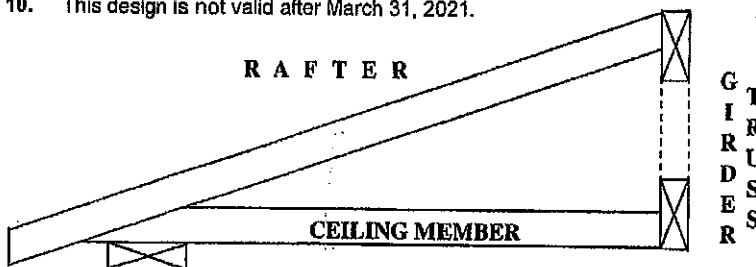
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

B97791H1

NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL LATERAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	132	147
	3.25	0.144	132	147
	3.50	0.160	159	177
COMMON SPIRAL	3.00	0.122	97	108
	3.25	0.122	97	108
	3.50	0.152	145	162

NOTES:

1. Rafter and ceiling members may be anchored to top and bottom chords of girder truss by toe-nailing rafter and ceiling members to girder chords provided the reaction does not exceed the lateral capacities in the table. Hangers (specified by others) are required for reactions higher than the maximum toe-nail capacity. Reactions are based on factored loads.
2. Toe nail capacities shown in the table are for **one** toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-14, section 12.9.4.1.
3. For 9-3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in tables below.
5. Nail values in table are based on the following relative lumber densities: $G = 0.42$ (SPF), $G = 0.49$ (D. Fir).
6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See next page for nailing on bearing plate).
7. For loads due to wind the nail lateral capacity in this table may be multiplied by 1.15 (K_D factor).
8. Lumber must be dry (< 19% moisture content) at the time of nail installation.
9. Nail values in this table comply with CSA O86-14, section 12.9.4
10. This design is not valid after March 31, 2021.

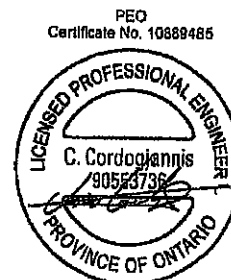


TOE-NAIL INSTALLATION

Nail type	Common wire	Common spiral	Common wire	Common spiral
Nail dia. (In)	0.160	0.152	0.144	0.122
	(3.5" nail)		(3" and 3.25" nail)	
LUMBER SIZE	MAXIMUM NUMBER OF TOE-NAILS			
2X4 SPF	2	2	3	3
2X4 D. Fir	2	2	2	2
2X6 SPF	4	4	4	5
2X6 D. Fir	3	3	3	4

MiTek® MiTek Canada Inc
100 Industrial Rd.
Bradford, Ontario L3Z 3G7

December 2, 2019



BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

B97791H2

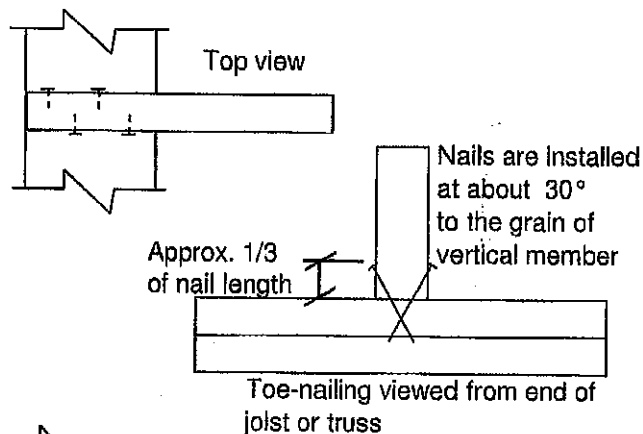
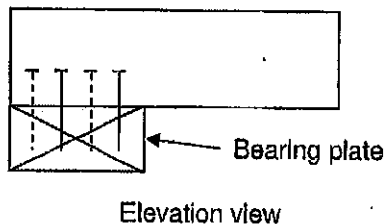
NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL WITHDRAWAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	30	42
	3.25	0.144	32	45
	3.50	0.160	38	52
COMMON SPIRAL	3.00	0.122	26	36
	3.25	0.122	28	40
	3.50	0.152	36	50

Note: If using truss with D. Fir lumber and S-P-F bearing plate, use values in table for S-P-F.

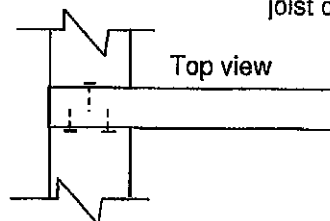
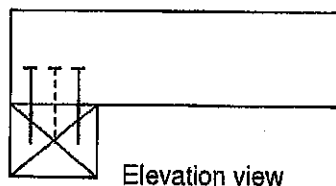
NOTES:

1. Truss chord, rafter, or ceiling members may be anchored to bearing plate by toe-nails, provided that the actual factored uplift force due to wind or earthquake load does not exceed the withdrawal capacities in the table. Hangers (specified by others) are required for uplift forces that are higher than the maximum toe-nail withdrawal capacity.
2. Toe nail capacities shown in the table are for one toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-14, section 12.9.5.2.
3. For 9-3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in table above.
5. Nail values in table are based on the following relative lumber densities: G = 0.42(SPF), G = 0.49(D. Fir).
6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See drawing on detail B37579H1).
7. Lumber must be dry (< 19% moisture content) at the time of nail installation.
8. Nail values in this table comply with CSA O86-14, section 12.9.5
9. This design is not valid after March 31, 2021.

Toe-nailing on 2x6 Bearing Plate



Toe-nailing on 2x4 Bearing Plate



MiTek® MiTek Canada Inc
100 Industrial Rd.
Bradford, Ontario L3Z 3G7

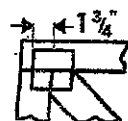
PEO
Certificate No. 10889485



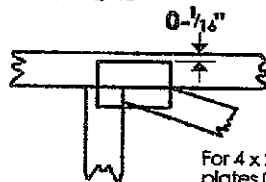
December 2, 2019

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



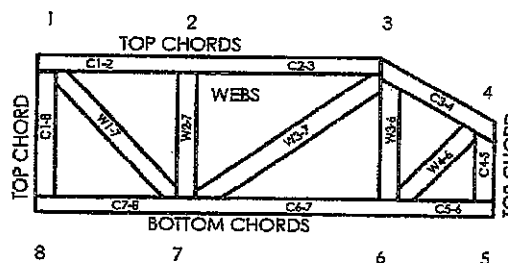
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

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

6-4-8 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

© 2007 MiTek® All Rights Reserved

MiTek
POWER TO PERFORM.™

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

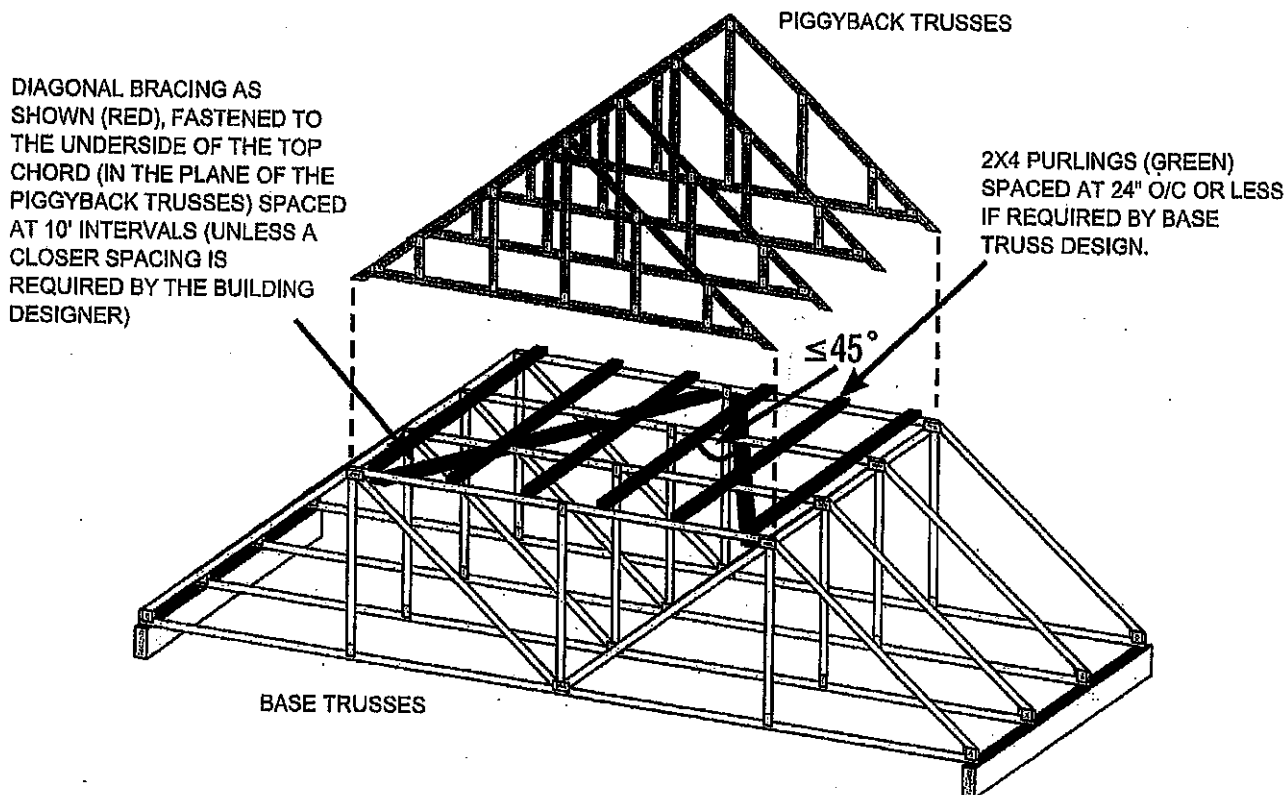
1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator bracing should be considered.
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 of 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.

Overview:

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

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

Detail:



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

SKETCH FROM BCSI-CANADA 2013

Disclaimer:

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



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-1800215

Feb 09, 2018