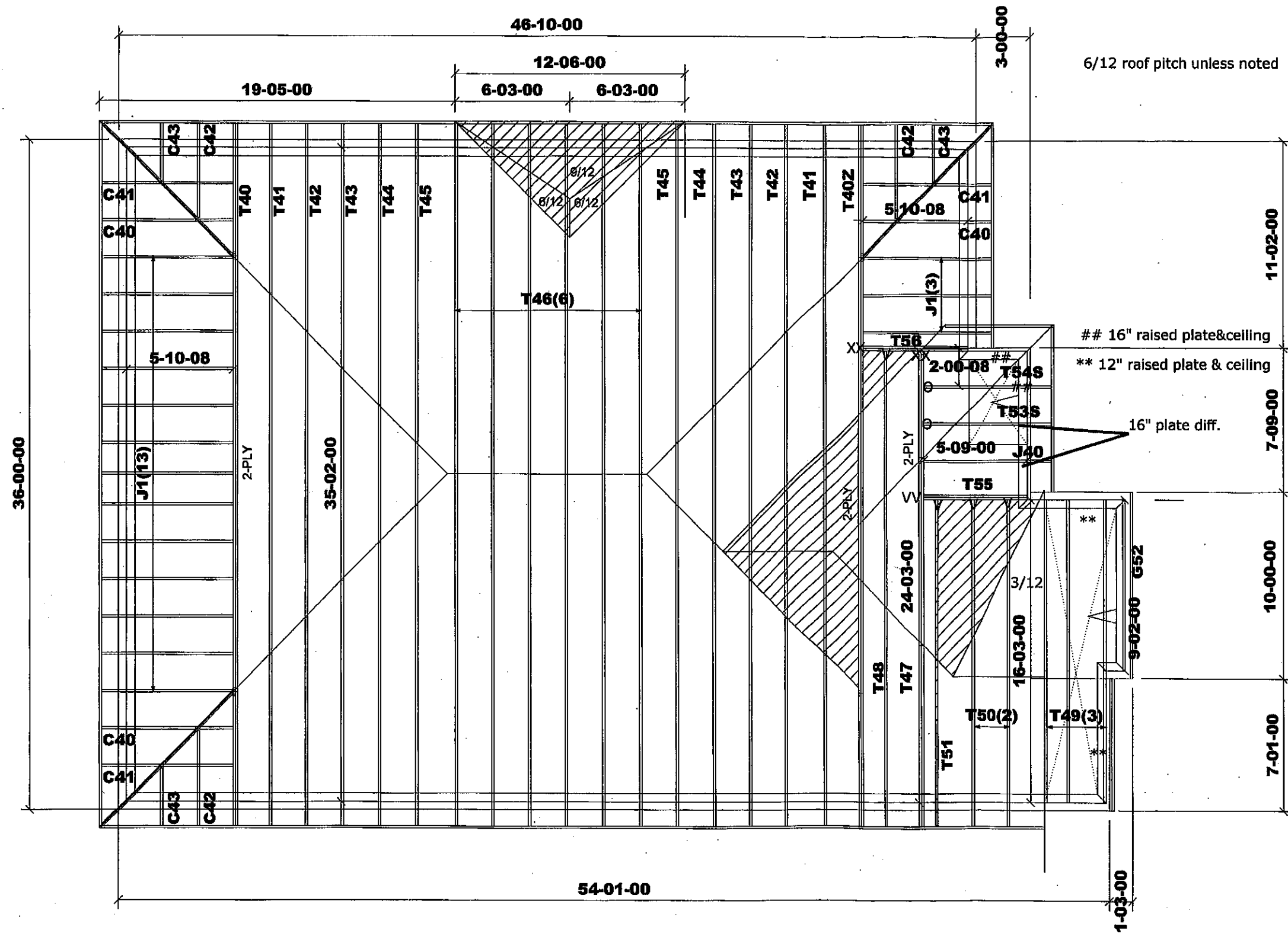




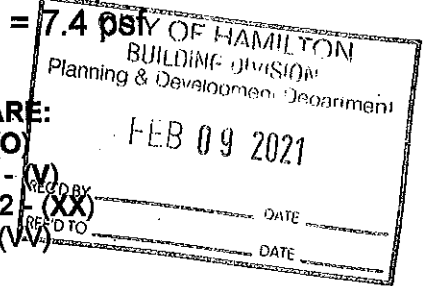
ASPHALT SHINGLES
 FINISHED OVERHANG: 12"
 2x6 EXTERIOR WALLS
 2x6 FASCIA BOARD
 HEEL: R.T.M.C.

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:
 LUS24 - (O)
 LJS26DS - (V)
 HGUS26-2 - (XX)
 LUS26-2 - (V)



DENOTES: CONVENTIONAL FRAMING

NO CHANGE TO TRUSSES SAME AS STANDARD
 SEP 8-2020 ND

M13126

	Job Track: 51225 Plan Log: 202406 Layout ID: 408170	Builder / Location: GREEN PARK HOMES / WATERDOWN Project: RUSSELL GARDENS PH.3 Date: 2020-09-08 Sales: Mario DiCano Designer: JG/ND	Model / Elevation: MOUNTAINASH 5-314 (SIDE UPGRADE) / 3 THESE DRAWINGS CONSTITUTE THE PROPERTY OF TAMARACK ROOF TRUSSES INC., SHALL NOT BE REPRODUCED, PUBLISHED, OR REDISTRIBUTED IN ANY MANNER OR UTILIZED FOR ANY PURPOSE OTHER THAN THE MANUFACTURE OF TRUSSES BY TAMARACK ROOF TRUSSES INC AND WILL BE RETRACTED BY TAMARACK ROOF TRUSSES INC IF UTILIZED FOR ANY OTHER PURPOSE.
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DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: RUSSELL GARDENS PH.3
 Location: WATERDOWN
 Model: MOUNTAINASH 5
 Lot #:
 Elevation: 3- STD OR OPT.5 BR

Job Track: 51225
 PlanLog: 202406
 Layout ID: 408170
 Ref #
 Page: 1 of 2
 Date: 04-27-2020
 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	T40 Hip Girder	6 /12	35-02-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-02-00 1-02-00	337.66 208.00		
	1 2-ply	T40Z Hip Girder	6 /12	35-02-00	4-01-04	2 x 4 2 x 6	1-03-08 1-03-08	1-02-00 1-02-00	337.66 208.00		
	2	T41 Hip	6 /12	35-02-00	5-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	277.99 174.00		
	2	T42 Hip	6 /12	35-02-00	6-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	277.12 174.67		
	2	T43 Hip	6 /12	35-02-00	7-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	289.07 179.67		
	3	C43 Jack-Open	6 /12	1-09-07	2-00-12	2 x 4	1-03-08 1-01	1-02-00 2-00-12	21.06 14.00		
	2	T44 Hip	6 /12	35-02-00	8-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	290.73 183.33		
	2	T45 Hip	6 /12	35-02-00	9-01-04	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	301.87 191.33		
	6	T46 Common	6 /12	35-02-00	9-11-08	2 x 4	1-03-08 1-03-08	1-02-00 1-02-00	910.08 558.00		
	1 2-ply	T47 Hip Girder	6 /12	24-03-00	5-04-08	2 x 4 2 x 6	1-03-08	1-02-00 2-06-00	228.14 142.33		
	1	T48 Hip	6 /12	24-03-00	6-04-08	2 x 4	1-03-08	1-02-00 2-06-00	99.13 63.33		
	3	T49 Roof Special	0 /12	16-03-00	4-02-00	2 x 4		3-05-00 4-02-00	215.73 139.50		
	2	T50 Roof Special	6 /12	16-03-00	4-06-08	2 x 4	1-03-08	1-02-00 2-02-00	125.84 80.33		
	1	T51 Half Hip	6 /12	16-03-00	4-11-12	2 x 4	1-03-08	1-02-00 4-11-12	69.76 44.87		

DELIVERY SHIPLIST



Lumber Yard: TAMARACK LUMBER
 Builder: GREEN PARK HOMES
 Project: RUSSELL GARDENS PH.3
 Location: WATERDOWN
 Model: MOUNTAINASH 5
 Lot #:
 Elevation: 3- STD OR OPT.5 BR

Job Track: 51225
 PlanLog: 202406
 Layout ID: 408170
 Ref #
 Page: 2 of 2
 Date: 04-27-2020
 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	G52 GABLE	0 /12	9-02-00	4-02-00	2 x 4		4-02-00 4-02-00	40.75 26.67		
	1	T53S Half Hip	6 /12	5-09-00	4-05-04	2 x 4	1-03-08	1-02-00 4-05-04	32.51 21.50		
	1	T54S Half Hip	6 /12	5-09-00	3-05-04	2 x 4	1-03-08	1-02-00 3-05-04	30.62 20.67		
	1 2-ply	T55 Jack-Closed Girder	6 /12	5-09-00	5-04-08	2 x 4 2 x 6		2-06-00 5-04-08	67.19 43.67		
	1 2-ply	T56 Jack-Closed Girder	6 /12	5-10-08	4-01-04	2 x 4 2 x 6		1-02-00 4-01-04	57.17 37.00		
	1	J40 Jack-Open	6 /12	5-09-00	5-04-08	2 x 4	1-03-08	2-06-00 5-04-08	19.99 13.50		
	16	J1 Jack-Open	6 /12	5-10-08	4-01-04	2 x 4	1-03-08	1-02-00 4-01-04	268.71 170.67		
	3	C40 Jack-Open	6 /12	3-09-07	3-00-12	2 x 4	1-03-08 2-01-01	1-02-00 3-00-12	42.4 26.00		
	3	C41 Jack-Open	6 /12	1-09-07	2-00-12	2 x 4	1-03-08 4-01-01	1-02-00 2-00-12	34.75 22.00		
	3	C42 Jack-Open	6 /12	1-10-08	3-00-12	2 x 4	1-03-08 1-10-15	1-02-00 2-01-04	28.71 18.00		

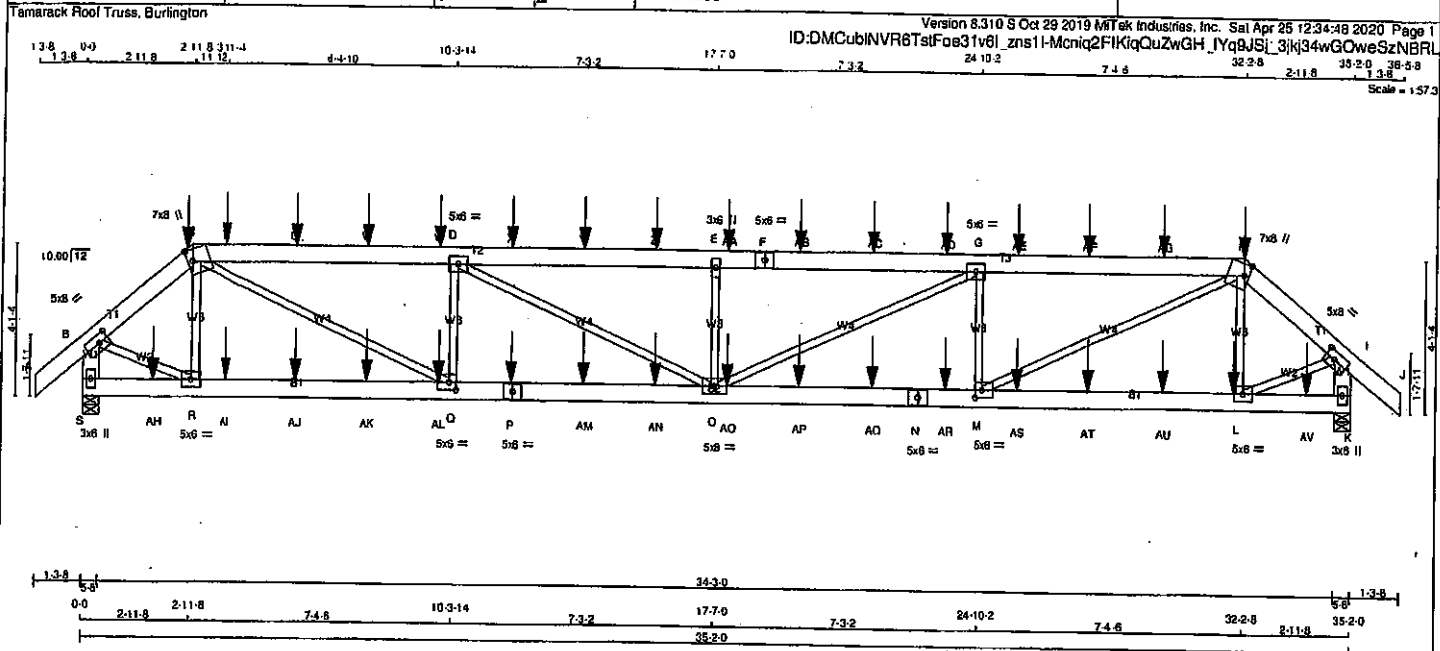
TOTAL # TRUSS= 65 TOTAL BFT OF ALL TRUSSES= 2760.84 BFT. TOTAL WEIGHT OF ALL TRSSES 4404.41 LBS

HARDWARE

QTY	TYPE	MODEL	LENGTH
2	Hardware	HGUS26-2	
3	Hardware	LJS26DS	
2	Hardware	LUS24	
1	Hardware	LUS26-2	

TOTAL NUMBER OF
ITEMS= 8

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408168	T1	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					
Version 8.310 5 Oct 29 2019 AMtek Industries, Inc. Sat Apr 25 12:34:48 2020 Page 1					
ID:DMCubINVR6TstFos31v6I_zns1I-Moniq2FIKiqQuZwGH_IYq9JSI_3Iq34wGOWeSzNBRL					
Scale = 1/8" = 1'-0"					



LUMBER	CHORDS	SIZE	LUMBER	DESCR.
N - L, G, A, RULES				
A - C	2x6	DRY	No.2	SPF
C - F	2x6	DRY	No.2	SPF
F - H	2x6	DRY	No.2	SPF
H - J	2x6	DRY	No.2	SPF
S - B	2x6	DRY	No.2	SPF
K - I	2x6	DRY	No.2	SPF
S - P	2x6	DRY	2100F 1.8E	SPF
P - N	2x6	DRY	2100F 1.8E	SPF
N - K	2x6	DRY	2100F 1.8E	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 (#)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-C	2	12
C-F	2	12
F-H	2	12
H-J	2	12
S-B	2	12
K-I	2	12
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
S-P	2	12
P-N	2	12
N-K	2	12
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	1	6

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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	0	0
S	3330	0	0	0
K	3379	0	0	0

UNFACTORED REACTIONS

1ST LOASE	MAX./MIN. COMPONENT REACTIONS	DEAD	SOIL
JT	COMBINED	0	0
S	2354	1553 / 0	0 / 0
K	2388	1572 / 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 = 3.98 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)
FR-TO					FR-TO			
A-B	0 / 42	-91.8	-91.8	0.04 (1)	R-C	-650 / 0	0.08 (1)	10.00
B-C	-3367 / 0	-91.8	-91.8	0.05 (1)	C-Q	0 / 4509	0.58 (1)	8.02
C-T	-6802 / 0	-91.8	-91.8	0.38 (1)	Q-D	-1799 / 0	0.22 (1)	4.31
T-U	-6802 / 0	-91.8	-91.8	0.38 (1)	D-O	0 / 1370	0.17 (1)	4.31
U-V	-6802 / 0	-91.8	-91.8	0.38 (1)	O-E	-987 / 0	0.12 (1)	4.31
V-W	-6802 / 0	-91.8	-91.8	0.38 (1)	E-G	0 / 1362	0.17 (1)	4.31
W-D	-6802 / 0	-91.8	-91.8	0.38 (1)	G-M	-1787 / 0	0.21 (1)	4.31
D-X	-7826 / 0	-91.8	-91.8	0.42 (1)	M-H	0 / 4481	0.55 (1)	3.98
X-Y	-7826 / 0	-91.8	-91.8	0.42 (1)	H-B	-661 / 0	0.08 (1)	3.98
Y-Z	-7826 / 0	-91.8	-91.8	0.42 (1)	B-R	0 / 2736	0.34 (1)	3.98
Z-E	-7826 / 0	-91.8	-91.8	0.42 (1)	L-I	0 / 2771	0.34 (1)	3.98
E-AA	-7826 / 0	-91.8	-91.8	0.42 (1)				
AA-F	-7826 / 0	-91.8	-91.8	0.42 (1)				
F-AB	-7826 / 0	-91.8	-91.8	0.42 (1)				
AB-AC	-7826 / 0	-91.8	-91.8	0.42 (1)				
AC-AD	-7826 / 0	-91.8	-91.8	0.42 (1)				
AD-G	-7826 / 0	-91.8	-91.8	0.42 (1)				
G-AE	-6608 / 0	-91.8	-91.8	0.38 (1)				
AE-AF	-6608 / 0	-91.8	-91.8	0.38 (1)				
AF-AG	-6608 / 0	-91.8	-91.8	0.38 (1)				
AG-H	-6608 / 0	-91.8	-91.8	0.38 (1)				
H-I	-3410 / 0	-91.8	-91.8	0.05 (1)				
I-J	0 / 42	-91.8	-91.8	0.04 (1)				
S-B	-3375 / 0	0.0	0.0	0.12 (1)				
K-I	-3414 / 0	0.0	0.0	0.12 (1)				

SAH	0 / 0	-18.5	-18.5	0.05 (4)	10.00
AH-R	0 / 0	-18.5	-18.5	0.05 (4)	10.00
R-AI	0 / 2553	-18.5	-18.5	0.12 (1)	10.00
AI-AJ	0 / 2553	-18.5	-18.5	0.12 (1)	10.00
AJ-AK	0 / 2553	-18.5	-18.5	0.12 (1)	10.00
AK-AL	0 / 2553	-18.5	-18.5	0.12 (1)	10.00
AL-Q	0 / 2553	-18.5	-18.5	0.12 (1)	10.00
Q-P	0 / 6802	-18.5	-18.5	0.22 (1)	10.00
P-AM	0 / 6802	-18.5	-18.5	0.22 (1)	10.00
AM-AN	0 / 6802	-18.5	-18.5	0.22 (1)	10.00
AN-O	0 / 6802	-18.5	-18.5	0.22 (1)	10.00
O-AQ	0 / 6802	-18.5	-18.5	0.22 (1)	10.00
AQ-AP	0 / 6802	-18.5	-18.5	0.22 (1)	10.00
AP-AQ	0 / 6802	-18.5	-18.5	0.22 (1)	10.00
AQ-N	0 / 6802	-18.5	-18.5	0.22 (1)	10.00
N-AR	0 / 6802	-18.5	-18.5	0.22 (1)	10.00
AR-M	0 / 6802	-18.5	-18.5	0.22 (1)	10.00

DESIGN CRITERIA

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

SPECIFIED LOADS:

TOP CH.	LL = 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

*** NON STANDARD GIRDER ***

ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, 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 (1.17)
CALCULATED VERT. DEFL.(LL) = L/999 (0.20)
ALLOWABLE DEFL.(TL) = L/360 (1.17)
CALCULATED VERT. DEFL.(TL) = L/999 (0.37)

CSI: TC=0.42/1.00 (D-E:1), BC=0.22/1.00 (C-Q:1), WB=0.50/1.00 (C-Q:1), SS=0.22/1.00 (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 (PSI)	SECTION (PL)
MT20	618	354
	1687	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= 0.65 (N) (INPUT = 1.00)

CONTINUED ON PAGE 2



Structural component only
DWG# T-2007129 1/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408168	T1	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:DMCubINVR6TstF0e31v6l zns1-Mcnia2FIKiqQuZwGH IYq8JSI 3jN34wGQweS2NBRL

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-1	MT20	5.0	8.0	2.50	3.25
C	TTWW+m	MT20	7.0	8.0	3.75	1.50
D	TMVW-1	MT20	5.0	8.0		
E	TMVW-w	MT20	3.0	6.0		
F	TS-1	MT20	5.0	8.0		
G	TMVW-1	MT20	5.0	8.0		
H	TTWW+m	MT20	7.0	8.0	3.75	1.50
I	TMVW-1	MT20	5.0	8.0	2.50	3.25
K	BMV1+p	MT20	3.0	6.0		
L	BMVW-1	MT20	5.0	6.0		
M	BMVW-1	MT20	5.0	6.0	2.50	2.25
N	BS-1	MT20	5.0	6.0		
O	BMVW-1	MT20	5.0	6.0		
P	BS-1	MT20	5.0	6.0		
Q	BMVW-1	MT20	5.0	6.0	2.50	2.25
R	BMVW-1	MT20	5.0	6.0		
S	BMV1+p	MT20	3.0	6.0		

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	UNBRAC LENGTH FR-TO
FR-TO		FROM TO		FR-TO			
M-AS	0 / 2586	-18.5	-18.5 0.12 (1)				10.00
AS-AT	0 / 2586	-18.5	-18.5 0.12 (1)				10.00
AT-AU	0 / 2586	-18.5	-18.5 0.12 (1)				10.00
AU-L	0 / 2586	-18.5	-18.5 0.12 (1)				10.00
L-AV	0 / 0	-18.5	-18.5 0.05 (1)				10.00
AV-K	0 / 0	-18.5	-18.5 0.05 (1)				10.00

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	2-11-8	-38	-42	---	FRONT	VERT	DEAD	---	C1
C	2-11-8	-191	-191	---	FRONT	VERT	SNOW	---	C1
H	32-2-8	-38	-42	---	FRONT	VERT	DEAD	---	C1
H	32-2-8	-116	-116	---	FRONT	VERT	TOTAL	---	C1
H	32-2-8	-191	-191	---	FRONT	VERT	SNOW	---	C1
L	31-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
P	11-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
T	3-11-4	-111	-111	---	FRONT	VERT	TOTAL	---	C1
U	5-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
V	7-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
W	9-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
X	11-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Y	13-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Z	15-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AA	17-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AB	19-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AC	21-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AD	23-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AE	25-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AF	27-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AG	29-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AH	1-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AI	3-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AJ	5-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AK	7-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AL	9-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AM	13-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AN	15-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AO	17-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AP	19-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AQ	21-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AR	23-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AS	25-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AT	27-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AU	29-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
AV	33-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

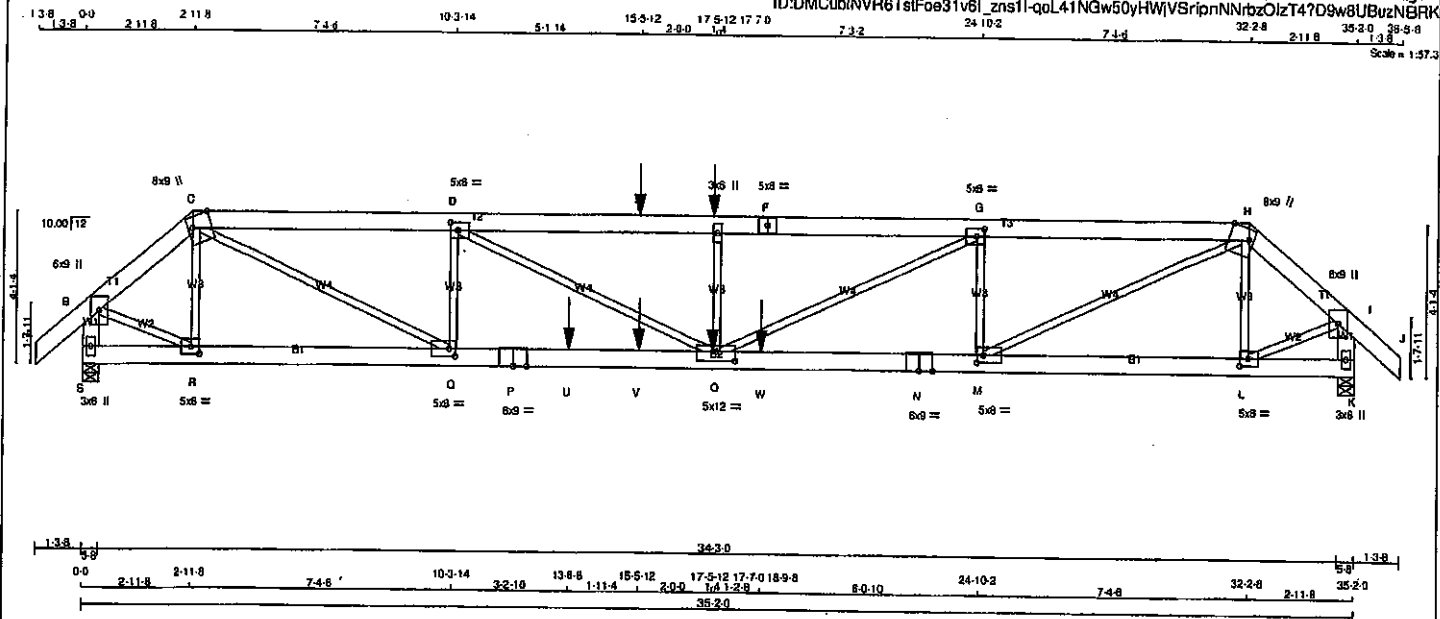


Structural component only
DWG# T-2007129

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408168	T1Z	1	2	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 MITek Industries, Inc. Sat Apr 25 12:34:49 2020 Page 1
ID:DMCubINVR6TstFoe93v8l_zns1l-qoL41NGw50yHWjVSripnNNrbzOlzT4?D9w8UBuzNBRK



LUMBER	N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - C	2x6	DRY	No.2	SPF	
C - F	2x6	DRY	No.2	SPF	
F - H	2x6	DRY	No.2	SPF	
H - J	2x6	DRY	No.2	SPF	
S - B	2x6	DRY	No.2	SPF	
K - I	2x6	DRY	No.2	SPF	
S - P	2x6	DRY	2100F 1.8E	SPF	
P - N	2x6	DRY	2100F 1.8E	SPF	
N - K	2x6	DRY	2100F 1.8E	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 2	12	TOP
C - F 2	12	SIDE (183.1)
F - H 2	12	TOP
H - J 2	12	TOP
S - B 2	12	TOP
K - I 2	12	TOP
BOTTOM CHORDS : (0.122'X3') SPIRAL NAILS		
S - P 2	12	TOP
P - N 2	12	SIDE (187.8)
N - K 2	12	TOP
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		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	GROSS REACTION	BRG	BRG	IN-SX	IN-SX		
S	3983	0	3983	0	0	5-8	5-8		
K	3687	0	3687	0	0	5-8	5-8		

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN.	COMPONENT REACTIONS						
S	2793	1890 / 0	0 / 0	0 / 0	0 / 0	902 / 0	0 / 0		
K	2589	1758 / 0	0 / 0	0 / 0	0 / 0	643 / 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 = 3.20 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	FACTORED	VERT. LOAD	LC1	MAX	MAX.	UNBRAC	MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MAX.	UNBRAC
FR-TO									FR-TO							
A-B	0 / 42								R-C	-1088 / 0	0.13 (1)					
B-C	-3988 / 0								C-Q	0 / 7263	0.80 (1)					
C-D	-9534 / 0								Q-D	-2160 / 0	0.26 (1)					
D-T	-12331 / 0								O-E	0 / 3130	0.39 (1)					
E-F	-12331 / 0								O-E	-776 / 0	0.09 (1)					
F-G	-12331 / 0								M-G	0 / 4203	0.52 (1)					
G-H	-8575 / 0								M-H	-2613 / 0	0.31 (1)					
H-I	-3758 / 0								L-H	0 / 6363	0.79 (1)					
I-J	0 / 42								B-R	-843 / 0	0.10 (1)					
S-B	-3945 / 0								L-I	0 / 3239	0.40 (1)					
K-I	-3733 / 0										0.38 (1)					
S-R	0 / 0															
R-Q	0 / 3013															
Q-P	0 / 9534															
P-U	0 / 9534															
U-V	0 / 9534															
V-O	0 / 9534															
O-W	0 / 8575															
W-N	0 / 8575															
N-M	0 / 8575															
M-L	0 / 2844															
L-K	0 / 0															

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
E	17-5-12	-110	-110	---	BACK	VERT	TOTAL	---	C1
O	17-5-12	-26	-26	---	BACK	VERT	TOTAL	---	C1
T	15-5-12	-110	-110	---	BACK	VERT	TOTAL	---	C1
U	13-6-8	-1818	-1818	---	BACK	VERT	TOTAL	---	C1
V	15-5-12	-28	-28	---	BACK	VERT	TOTAL	---	C1
W	18-9-8	-1620	-1620	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 183 = 365 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. G/C

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, OBC 2012, ABC 2019
- 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 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (1.17')
CALCULATED VERT. DEFL. (LL) = L/999 (0.35')
ALLOWABLE DEFL. (TL) = L/360 (1.17')
CALCULATED VERT. DEFL. (TL) = L/657 (0.84')

CSI: TC=0.52/1.00 (D-E:1), BC=0.87/1.00 (O-Q:1),
WB=0.90/1.00 (C-Q:1), SI=0.53/1.00 (M-O: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 518 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (C) (INPUT = 0.90)
JSI METAL= 0.95 (P) (INPUT = 1.00)



Structural component only
DWG# T-2007130

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408168	T1Z	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:DMCubINVR6TstFoe31v6l zn91l-qoL41NGw50vHWVSrjgnNNrbzOlzT47D9w8UBuzNBK

PLATES (table is in inches)

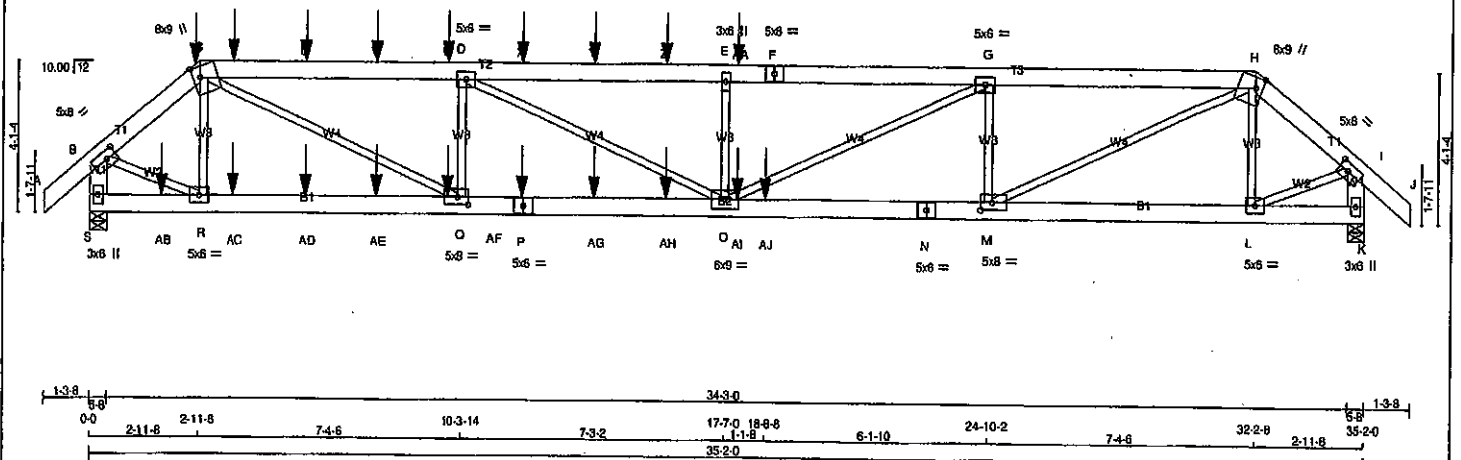
JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	6.0	9.0		
C	TTWW+m	MT20	8.0	9.0	Edge	6.50
D	TMWW-l	MT20	5.0	6.0	2.50	2.50
E	TMW+w	MT20	3.0	6.0		
F	TS-l	MT20	5.0	6.0		
G	TMWW-l	MT20	5.0	6.0	2.50	2.50
H	TTWW+m	MT20	8.0	9.0	Edge	6.50
I	TMVW+p	MT20	6.0	9.0		
K	BMV1+p	MT20	3.0	6.0		
L	BMWW-l	MT20	5.0	6.0	2.50	2.75
M	BMWW-l	MT20	5.0	6.0	2.50	2.00
N	BS-l	MT20	6.0	9.0		
O	BMWWW-l	MT20	5.0	12.0	3.00	6.00
P	BS-l	MT20	6.0	9.0		
Q	BMWW-l	MT20	5.0	6.0	2.50	2.00
R	BMWW-l	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.



Structural component only
DWG# T-2007130 92

JOB NAME 412345	TRUSS NAME T1Z5	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.330 S May 6 2020 MTEK Industries, Inc. Mon Aug 31 10:24:30 2020 Page 1	
ID:DMCubINVR6TstFos31v6I_zns1I-CucZZJPh0UmDizGVIZoVfyJUXCYWmScUQ_BqyIN9V				24-10-2 32-2-8 35-2-0 38-5-8	
1-3-8 0-0 2-11-8 2-11-8-11-4 6-4-10 10-3-14 7-3-2 17-7-0 7-3-2 7-4-6 32-2-8 2-11-8 1-3-8				Scale = 1:57.7	



LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - C	2x6	DRY No.2	SPF
C - F	2x6	DRY No.2	SPF
F - H	2x6	DRY No.2	SPF
H - J	2x6	DRY No.2	SPF
S - B	2x6	DRY No.2	SPF
K - I	2x6	DRY No.2	SPF
S - P	2x6	DRY 2100F 1.8E	SPF
P - N	2x6	DRY 2100F 1.8E	SPF
N - K	2x6	DRY 2100F 1.8E	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 2	12	SIDE(122.0)
C-F 2	12	SIDE(61.0)
F-H 2	12	TOP
H-J 2	12	TOP
S-B 2	12	TOP
K-I 2	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
S-P 2	12	SIDE(0.0)
P-N 2	12	SIDE(0.0)
N-K 2	12	TOP
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.

Structural component only
DWG# T-2019649 1/1

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	HORIZ	DOWN	HORIZ	UPLIFT	IN-SX	IN-SX		
S	3931	0	3931	0	0	5-8	5-8		
K	3423	0	3423	0	0	5-8	5-8		
UNFACTORED REACTIONS									
1ST LCASE MAX/MIN. COMPONENT REACTIONS									
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
S	2776	1853	0	0	0	922	0	0	0
K	2415	1616	0	0	0	796	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 = 3.32 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.

LOADING									
TOTAL LOAD CASES: (4)									
CHORDS		FACTORED		WEBS		FACTORED			
MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FORCE (LBS)	MAX. CSI (LC)		
FR-TO		FROM	TO		FR-TO				
A-B	0 / 42	-91.8	-91.8	0.04 (1)	10.00	R-C	-788 / 0	0.09 (1)	
B-C	-4063 / 0	-91.8	-91.8	0.08 (1)	5.61	C-Q	0 / 5778	0.71 (1)	
C-T	-8259 / 0	-91.8	-91.8	0.45 (1)	3.88	Q-D	-2506 / 0	0.30 (1)	
T-U	-8259 / 0	-91.8	-91.8	0.45 (1)	3.88	D-O	0 / 2580	0.36 (1)	
U-V	-8259 / 0	-91.8	-91.8	0.45 (1)	3.88	O-E	-837 / 0	0.10 (1)	
V-W	-8259 / 0	-91.8	-91.8	0.45 (1)	3.88	E-G	0 / 3293	0.41 (1)	
W-D	-8259 / 0	-91.8	-91.8	0.45 (1)	3.88	G-H	-2198 / 0	0.26 (1)	
D-X	-10834 / 0	-91.8	-91.8	0.57 (1)	3.32	M-H	0 / 5892	0.73 (1)	
X-Y	-10834 / 0	-91.8	-91.8	0.57 (1)	3.32	L-H	-831 / 0	0.10 (1)	
Y-Z	-10834 / 0	-91.8	-91.8	0.57 (1)	3.32	B-R	0 / 3293	0.41 (1)	
Z-E	-10834 / 0	-91.8	-91.8	0.57 (1)	3.32	L-I	0 / 2792	0.35 (1)	
E-AA	-10834 / 0	-91.8	-91.8	0.42 (1)	3.49				
AA-F	-10834 / 0	-91.8	-91.8	0.42 (1)	3.49				
F-G	-10834 / 0	-91.8	-91.8	0.42 (1)	3.49				
G-H	-7891 / 0	-91.8	-91.8	0.31 (1)	4.10				
H-I	-3436 / 0	-91.8	-91.8	0.05 (1)	5.98				
I-J	0 / 42	-91.8	-91.8	0.04 (1)	10.00				
S-B	-4007 / 0	0.0	0.0	0.14 (1)	7.10				
K-I	-3436 / 0	0.0	0.0	0.12 (1)	7.52				
S-AB	0 / 0	-18.5	-18.5	0.07 (1)	10.00				
AB-R	0 / 0	-18.5	-18.5	0.07 (1)	10.00				
R-AC	0 / 3074	-18.5	-18.5	0.15 (1)	10.00				
AC-AD	0 / 3074	-18.5	-18.5	0.15 (1)	10.00				
AD-AE	0 / 3074	-18.5	-18.5	0.15 (1)	10.00				
AE-AF	0 / 3074	-18.5	-18.5	0.15 (1)	10.00				
AF-Q	0 / 3074	-18.5	-18.5	0.15 (1)	10.00				
Q-P	0 / 8260	-18.5	-18.5	0.33 (1)	10.00				
P-AG	0 / 8260	-18.5	-18.5	0.33 (1)	10.00				
AG-AH	0 / 8260	-18.5	-18.5	0.33 (1)	10.00				
AH-O	0 / 8260	-18.5	-18.5	0.33 (1)	10.00				
O-AI	0 / 7891	-18.5	-18.5	0.47 (1)	10.00				
AI-AJ	0 / 7891	-18.5	-18.5	0.47 (1)	10.00				
AJ-N	0 / 7891	-18.5	-18.5	0.47 (1)	10.00				
N-M	0 / 7891	-18.5	-18.5	0.47 (1)	10.00				
M-L	0 / 2601	-18.5	-18.5	0.12 (1)	10.00				
L-K	0 / 0	-18.5	-18.5	0.03 (4)	10.00				

FACTORED CONCENTRATED LOADS (LBS)									
JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	2-11-8	-38	-42	---	FRONT	VERT	DEAD	---	C1
C	2-11-8	-191	-191	---	FRONT	VERT	SNOW	---	C1
P	11-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1

DESIGN CRITERIA

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

SPECIFIED LOADS:
TOP CH. LL = 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 8.00/12

*** NON STANDARD GIRDER ***
ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-14
- 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 (1.177)
CALCULATED VERT. DEFL.(LL) = L/989 (0.30")
ALLOWABLE DEFL.(TL) = L/360 (1.177)
CALCULATED VERT. DEFL.(TL) = L/769 (0.55")

CSI: TC=0.57/1.00 (D-E:1), BC=0.47/1.00 (M-O:1), WB=0.73/1.00 (H-M:1), SS=0.57/1.00 (M-O: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(DRV) SHEAR SECTION (PSI) (PLI) (FLI)
MAX MIN MAX MIN MAX MIN
MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.90 (L) (INPUT = 0.90)
JSI METAL = 0.79 (P) (INPUT = 1.00)

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
412345	T1Z5	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:DMCubINVR6TslFoe31v6l zns1-CucZZJPeh0UmDzGVZoVFwJLxCYWwMSUQ 8qvjN8V

PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	8.0	2.50	3.25
C	TTWW+m	MT20	8.0	9.0	3.50	2.25
D	TMWW-t	MT20	5.0	8.0		
E	TMW-w	MT20	3.0	8.0		
F	TS-t	MT20	5.0	6.0		
G	TMWW-t	MT20	5.0	6.0		
H	TTWW+m	MT20	8.0	9.0	3.50	2.25
I	TMVW-t	MT20	5.0	8.0	2.50	3.25
K	BMV-t+p	MT20	3.0	6.0		
L	BMWW-t	MT20	5.0	6.0		
M	BMWW-t	MT20	5.0	8.0	2.50	3.50
N	BS-t	MT20	5.0	6.0		
O	BMWWW-t	MT20	6.0	9.0		
P	BS-t	MT20	5.0	8.0		
Q	BMWW-t	MT20	5.0	8.0	2.50	3.50
R	BMWW-t	MT20	5.0	6.0		
S	BMV-t+p	MT20	3.0	6.0		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LCI	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
T	3-11-4	-111	-111	---	FRONT	VERT	TOTAL	---	C1
U	5-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
V	7-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
W	9-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
X	11-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Y	13-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Z	15-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AA	17-11-4	-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	5-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AE	7-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AF	9-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AG	13-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AH	15-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AI	17-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AJ	18-8-8	-1863	-1863	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

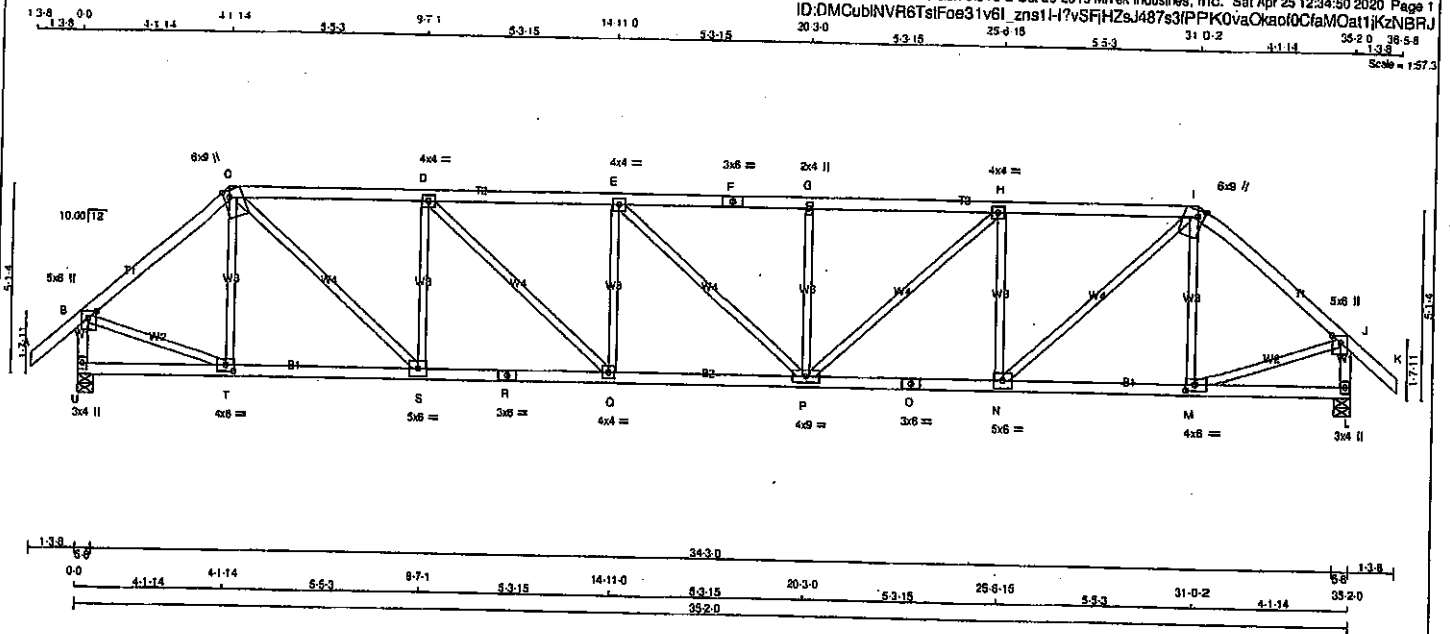
- 1) C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



Structural component only
DWG# T-2019649 372

JOB NAME 408168	TRUSS NAME T2	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. Sat Apr 25 12:34:50 2020 Page 1
ID:DMCubINVR6TsiFoe31v6l_zns1-I?vsfHZsJ487s3IPPK0vaOkaofOCfaMCat1jKzNBRJ
Scale = 1/8" = 1'-0"



LUMBER			
N. L. & A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2
C - F	2x4	DRY	No.2
F - I	2x4	DRY	No.2
I - K	2x4	DRY	No.2
U - B	2x4	DRY	No.2
L - J	2x4	DRY	No.2
U - R	2x4	DRY	No.2
R - O	2x4	DRY	No.2
O - L	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2

PLATES (table in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	5.0	6.0	Edge 2.75
C	TTWW+m	MT20	6.0	9.0	Edge 1.75
D, E, H					
D	TMVW-t	MT20	4.0	4.0	
F	TS-t	MT20	3.0	6.0	
G	TMVW+w	MT20	2.0	4.0	
I	TTWW+m	MT20	6.0	9.0	Edge 1.75
J	TMVW+p	MT20	5.0	6.0	Edge 2.75
L	BMV1+p	MT20	3.0	4.0	
M	BMVW-t	MT20	4.0	6.0	2.00 2.75
N	BMVW-t	MT20	5.0	6.0	
O	BS-t	MT20	3.0	6.0	
P	BMVW-w	MT20	4.0	9.0	
Q	BMVW-t	MT20	4.0	4.0	
R	BS-t	MT20	3.0	6.0	
S	BMVW-t	MT20	5.0	6.0	
T	BMVW-t	MT20	4.0	6.0	2.00 2.75
U	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	GROSS REACTION	VERT	HORZ	GROSS REACTION	DOWN	HORZ	UPLIFT	BRG	BRG
U	2068	0	0	2068	0	0	0	5-8	5-8
L	2068	0	0	2068	0	0	0	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
U	1458	971 / 0	0 / 0	0 / 0	0 / 0	488 / 0	0 / 0
L	1458	971 / 0	0 / 0	0 / 0	0 / 0	488 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.20 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. MAX. (LC)	MEMB.	FORCE (LBS)	MAX. MAX. (LC)	
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 41	-91.8	-91.8	0.13 (1)	10.00	T-C	-358 / 0
B-C	-1960 / 0	-91.8	-91.8	0.36 (1)	4.48	C-S	0 / 1836
C-D	-2871 / 0	-91.8	-91.8	0.57 (1)	3.59	S-D	-1118 / 0
D-E	-3508 / 0	-91.8	-91.8	0.65 (1)	3.21	D-Q	0 / 858
E-F	-3508 / 0	-91.8	-91.8	0.63 (1)	3.36	Q-E	-475 / 0
F-G	-3508 / 0	-91.8	-91.8	0.53 (1)	3.36	E-P	-2 / 0
G-H	-3508 / 0	-91.8	-91.8	0.57 (1)	3.59	P-H	0 / 853
H-I	-2871 / 0	-91.8	-91.8	0.66 (1)	3.20	H-G	-474 / 0
I-J	-1960 / 0	-91.8	-91.8	0.36 (1)	4.48	N-H	-1117 / 0
J-K	0 / 41	-91.8	-91.8	0.13 (1)	10.00	N-I	0 / 1837
U-B	-2037 / 0	0.0	0.0	0.22 (1)	5.92	M-I	-358 / 0
L-J	-2037 / 0	0.0	0.0	0.22 (1)	5.92	B-T	0 / 1571
U-T	0 / 0	-18.5	-18.5	0.10 (4)	10.00	M-J	0 / 1571
T-S	0 / 1494	-18.5	-18.5	0.30 (1)	10.00		
S-R	0 / 2871	-18.5	-18.5	0.51 (1)	10.00		
R-Q	0 / 2871	-18.5	-18.5	0.51 (1)	10.00		
Q-P	0 / 3506	-18.5	-18.5	0.62 (1)	10.00		
P-O	0 / 2872	-18.5	-18.5	0.51 (1)	10.00		
O-N	0 / 2872	-18.5	-18.5	0.51 (1)	10.00		
N-M	0 / 1494	-18.5	-18.5	0.30 (1)	10.00		
M-L	0 / 0	-18.5	-18.5	0.10 (4)	10.00		

TOTAL WEIGHT = 2 X 147 = 293 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. 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 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) = U/999 (0.20")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = U/999 (0.39")

CSI: TC=0.66/1.00 (G-H:1), BC=0.62/1.00 (P-Q:1), WB=0.43/1.00 (D-S:1), SS=0.23/1.00 (H-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

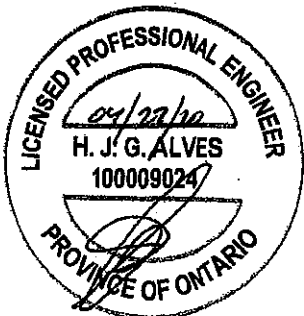
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

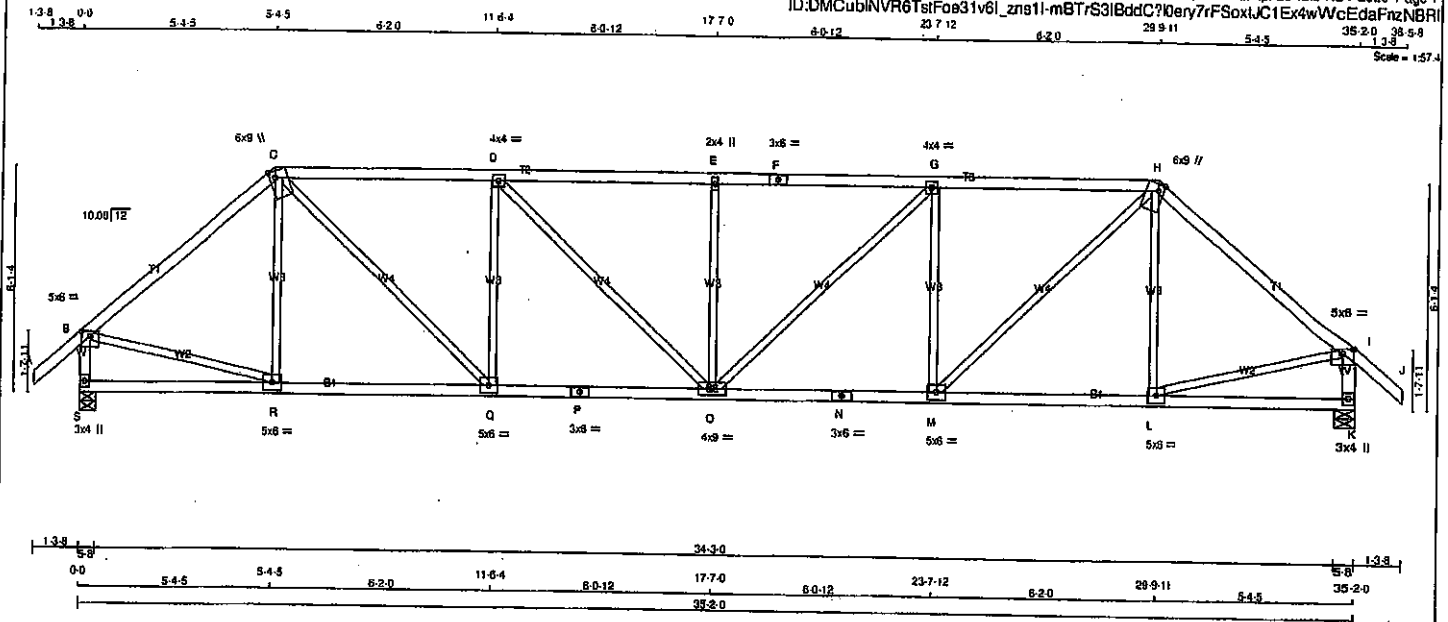
PLATE ROTATION TOL. = 5.0 Deg.

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



Structural component only
DWG# T-2007131

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408168	T3	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					



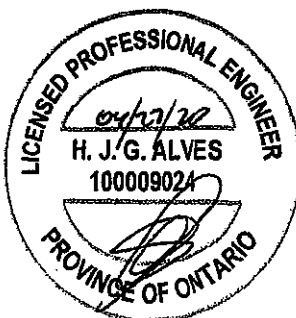
LUMBER			
N.L.G.A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
H - J	2x4	DRY	No.2
S - B	2x4	DRY	No.2
K - I	2x4	DRY	No.2
S - P	2x4	DRY	No.2
P - N	2x4	DRY	No.2
N - K	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			
DRY: SEASONED LUMBER.			

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMVW-p	MT20	5.0	6.0 1.50 3.00
C	TTWW-m	MT20	6.0	9.0 Edge 1.75
D	TMVW-t	MT20	4.0	4.0
E	TMVW-w	MT20	2.0	4.0
F	TS-t	MT20	3.0	6.0
G	TMVW-t	MT20	4.0	4.0
H	TTWW-m	MT20	6.0	9.0 Edge 1.75
I	TMVW-p	MT20	5.0	6.0 1.50 3.00
K	BMV1-p	MT20	3.0	4.0
L, M, Q, R				
L	BMVW-t	MT20	5.0	6.0
N	BS-t	MT20	3.0	6.0
O	BMVW-w	MT20	4.0	6.0
P	BS-t	MT20	3.0	6.0
S	BMV1-p	MT20	3.0	4.0

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

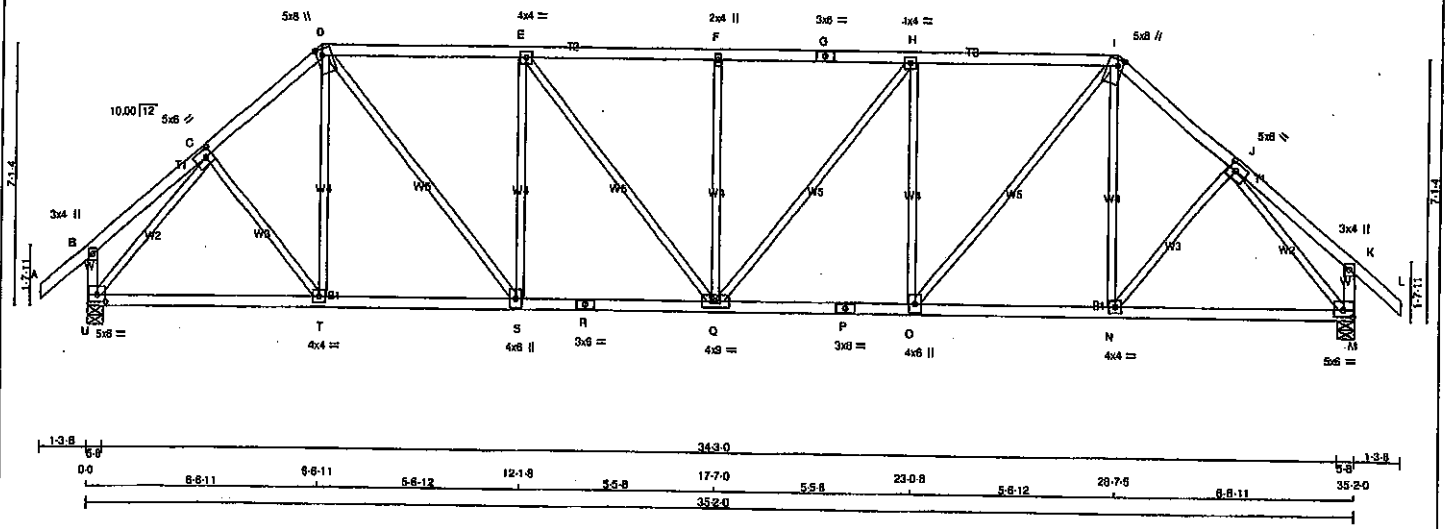
DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
FACTORED					MAXIMUM FACTORED				
GROSS REACTION					GROSS REACTION				
JT	VERT	HORZ	DOWN	HORZ	UP	IN-SX	IN-SX	IN-SX	IN-SX
S	2068	0	2068	0	0	5-8	5-8	5-8	5-8
K	2068	0	2068	0	0	5-8	5-8	5-8	5-8
UNFACTORED REACTIONS									
1ST CASE		MAX/MIN. COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	DEAD	SOIL
S	1458	971/0	0/0	0/0	0/0	488/0	0/0	488/0	0/0
K	1458	971/0	0/0	0/0	0/0	488/0	0/0	488/0	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 = 3.28 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.	FORCE (LBS)	VERT. LOAD	LC1 MAX	LC2 MAX	MEMB.	FORCE (LBS)	MAX	LC1 MAX	LC2 MAX
FR-TO		FROM TO			FR-TO				
A-B	0/41	-91.8	-91.8	0.13 (1)	10.00	R-C	-246/7	0.14 (1)	
B-C	-2004/0	-91.8	-91.8	0.64 (1)	4.11	C-Q	0/1538	0.35 (1)	
C-D	-2853/0	-91.8	-91.8	0.74 (1)	3.50	Q-D	-943/0	0.55 (1)	
D-E	-2978/0	-91.8	-91.8	0.78 (1)	3.28	O-Q	0/450	0.10 (1)	
E-F	-2978/0	-91.8	-91.8	0.78 (1)	3.28	C-E	-513/0	0.30 (1)	
F-G	-2978/0	-91.8	-91.8	0.78 (1)	3.28	O-G	0/450	0.10 (1)	
G-H	-2853/0	-91.8	-91.8	0.74 (1)	3.50	M-G	-943/0	0.55 (1)	
H-I	-2004/0	-91.8	-91.8	0.64 (1)	4.11	M-H	0/1538	0.35 (1)	
I-J	0/41	-91.8	-91.8	0.13 (1)	10.00	L-H	-246/7	0.14 (1)	
S-B	-2028/0	0.0	0.0	0.22 (1)	5.94	B-R	0/1580	0.38 (1)	
K-I	-2028/0	0.0	0.0	0.22 (1)	5.94	L-I	0/1580	0.38 (1)	
S-R	0/0	-18.5	-18.5	0.14 (4)	10.00				
R-Q	0/1532	-18.5	-18.5	0.33 (1)	10.00				
Q-P	0/2853	-18.5	-18.5	0.49 (1)	10.00				
P-O	0/2853	-18.5	-18.5	0.49 (1)	10.00				
O-N	0/2853	-18.5	-18.5	0.49 (1)	10.00				
N-M	0/2853	-18.5	-18.5	0.49 (1)	10.00				
M-L	0/1532	-18.5	-18.5	0.33 (1)	10.00				
L-K	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. G.C.									
LOADING IN FLAT SECTION BASED ON A SLOPE OF 6.00/12									
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC 2010, NBC 2015									
THIS DESIGN COMPLIES WITH:									
- PART 9 OF CBC 2010, 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 (0.16")									
ALLOWABLE DEFL.(TL) = L/360 (1.17")									
CALCULATED VERT. DEFL.(TL) = L/999 (0.29")									
CSI: TC=0.78/1.00 (E-G:1), BC=0.49/1.00 (M-O:1), WB=0.55/1.00 (G-M:1), BS=0.27/1.00 (Q-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 GRP(DRY)	SHEAR	SECTION							
(PS)	(PL)	(PL)							
MAX MIN	MAX MIN	MAX MIN							
MT20	618	354	1687	788	1987	1856			
PLATE PLACEMENT TOL. = 0.250 inches									
PLATE ROTATION TOL. = 5.0 Deg.									
JSI GRP = 0.90 (B) (INPUT = 0.90)									
JSI METAL = 0.85 (N) (INPUT = 1.00)									



Structural component only
DWG# T-2007132

JOB NAME 408168	TRUSS NAME T4	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.310 S Oct 29 2019 MITek Industries, Inc. Sat Apr 25 12:34:52 2020 Page 1	
ID:DMCubINVR6TstFae31v6I zns1I-EN1DIPpOxKsNAD1WqNU_?T6RbNZgQVfrum8oDzNBRH				Scale = 1:57.5	



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - G	2x4	DRY	No.2
G - I	2x4	DRY	No.2
I - L	2x4	DRY	No.2
U - B	2x4	DRY	No.2
M - K	2x4	DRY	No.2
U - R	2x4	DRY	No.2
R - P	2x4	DRY	No.2
P - M	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	TMV-p	MT20	3.0	4.0
C	TMWW-t	MT20	5.0	6.0 2.50 2.25
D	TTWW-m	MT20	5.0	6.0 2.00 1.75
E	TMWW-t	MT20	4.0	4.0
F	TMWW-w	MT20	2.0	4.0
G	TS-I	MT20	3.0	6.0
H	TMWW-t	MT20	4.0	4.0
I	TTWW-m	MT20	6.0	8.0 2.00 1.75
J	TMWW-t	MT20	5.0	6.0 2.50 2.25
K	TMV-p	MT20	3.0	4.0
M	BMVW-1	MT20	5.0	6.0 2.25 3.00
N	BMVW-1	MT20	4.0	4.0
O	BMVW-1	MT20	4.0	6.0
P	BS-I	MT20	3.0	6.0
Q	BMVW-1	MT20	4.0	9.0
R	BS-I	MT20	3.0	6.0
S	BMVW-1	MT20	4.0	6.0
T	BMVW-1	MT20	4.0	4.0
U	BMVW-1	MT20	5.0	6.0 2.25 3.00

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

FACTORED		MAXIMUM FACTORED		INPUT		REQD	
GROSS REACTION		DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
JT	VERT	2068	0	0	5-8	5-8	
U	2068	0	0	0	5-8	5-8	
M	2068	0	0	0	5-8	5-8	

UNFACTORED REACTIONS							
1ST CASE	SNOW	LIVE	PERM	LIVE	WIND	DEAD	SOIL
JT	1458	971/0	0/0	0/0	0/0	488/0	0/0
U	1458	971/0	0/0	0/0	0/0	488/0	0/0
M	1458	971/0	0/0	0/0	0/0	488/0	0/0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.77 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	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	0/41	-91.8	-91.8 0.13 (1)	10.00	C-T	0/156	0.04 (1)
B-C	0/19	-91.8	-91.8 0.14 (1)	10.00	T-D	0/76	0.03 (4)
C-D	-2023/0	-91.8	-91.8 0.20 (1)	4.59	D-S	0/1220	0.27 (1)
D-E	-2308/0	-91.8	-91.8 0.56 (1)	3.94	S-E	-850/0	0.74 (1)
E-F	-2534/0	-91.8	-91.8 0.57 (1)	3.77	E-Q	0/361	0.08 (1)
F-G	-2534/0	-91.8	-91.8 0.57 (1)	3.77	Q-F	-401/0	0.40 (1)
G-H	-2534/0	-91.8	-91.8 0.57 (1)	3.77	Q-H	0/361	0.08 (1)
H-I	-2308/0	-91.8	-91.8 0.56 (1)	3.94	C-H	-850/0	0.74 (1)
I-J	-2023/0	-91.8	-91.8 0.20 (1)	4.59	C-I	0/1220	0.27 (1)
J-K	0/19	-91.8	-91.8 0.14 (1)	10.00	N-I	0/76	0.03 (4)
K-L	0/41	-91.8	-91.8 0.13 (1)	10.00	N-J	0/156	0.04 (1)
U-B	-248/0	0.0	0.0 0.03 (1)	7.61	U-C	-2277/0	0.98 (1)
M-K	-248/0	0.0	0.0 0.03 (1)	7.61	J-M	-2277/0	0.98 (1)
U-T	0/1433	-18.5	-18.5 0.33 (1)	10.00			
T-S	0/1535	-18.5	-18.5 0.35 (1)	10.00			
S-R	0/2308	-18.5	-18.5 0.42 (1)	10.00			
R-Q	0/2308	-18.5	-18.5 0.42 (1)	10.00			
Q-P	0/2308	-18.5	-18.5 0.42 (1)	10.00			
P-O	0/2308	-18.5	-18.5 0.42 (1)	10.00			
O-N	0/1535	-18.5	-18.5 0.35 (1)	10.00			
N-M	0/1433	-18.5	-18.5 0.33 (1)	10.00			

TOTAL WEIGHT = 2 X 162 = 323 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

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 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 (1.17")
CALCULATED VERT. DEFL.(LL) = L/999 (0.13")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/999 (0.23")

CSI: TC=0.57/1.00 (E-F:1), BC=0.42/1.00 (O-C:1), WB=0.98/1.00 (J-M:1), SS=0.24/1.00 (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

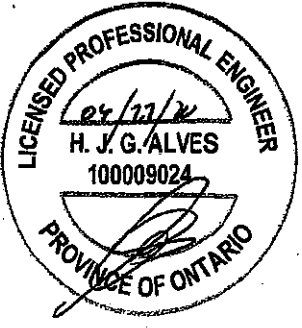
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 818 354 1687 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

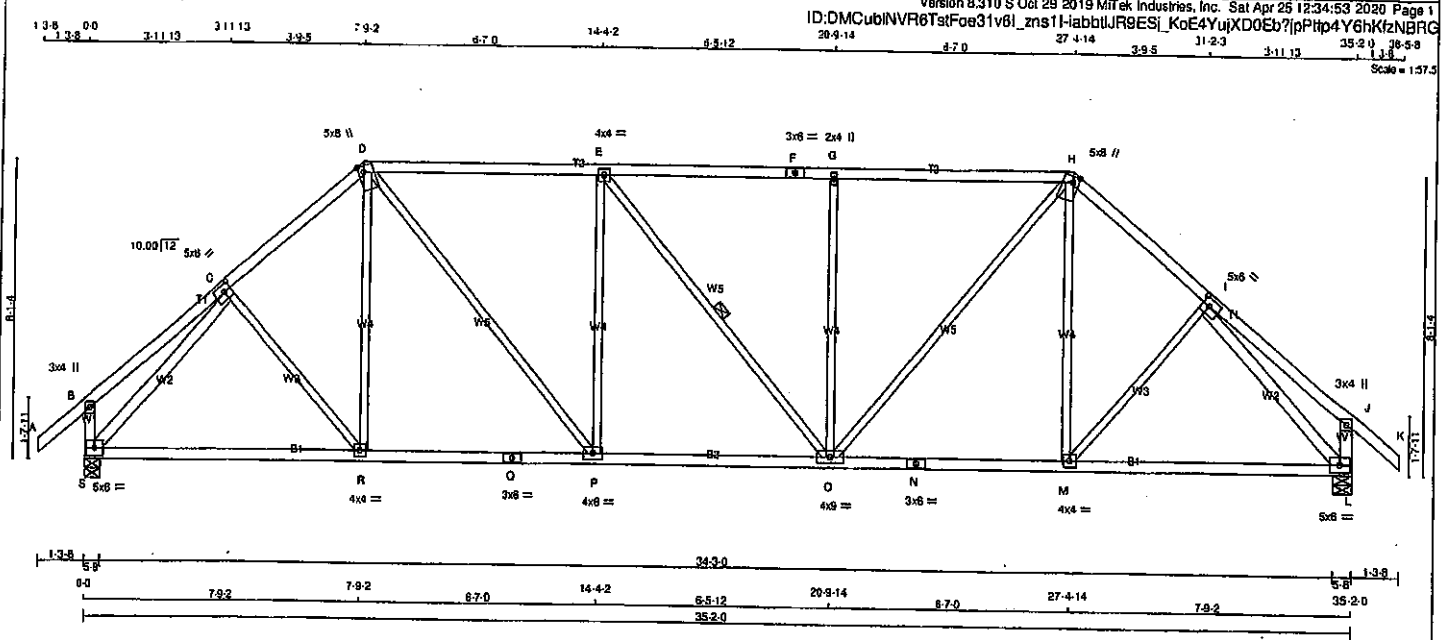
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (I) (INPUT = 0.90)
JSI METAL= 0.72 (P) (INPUT = 1.00)



Structural component only
DWG# T-2007133

JOB NAME 408168 Tamarack Pool Truss, Burlington	TRUSS NAME T5	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
				TRUSS DESC.	



Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Sat Apr 25 12:34:53 2020 Page 1
ID:DMCubINV6TstFoe31v81_znst1HabbtJR9ESJ_KoE4YuiXD0Eb?ipPhp4Y6hKfzNBRC
Scale = 1:57.5

LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER				TOTAL WEIGHT = 2 X 163 = 326 lb			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.	BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD		
A - D	2x4	DRY	No.2	SPF		GROSS REACTION	GROSS REACTION	BRG	BRG		
D - F	2x4	DRY	No.2	SPF		JT VERT	DOWN	HORIZ	UPLIFT	IN-SX	IN-SX
F - H	2x4	DRY	No.2	SPF		S 2066	0	2066	0	5-8	5-8
H - K	2x4	DRY	No.2	SPF		L 2066	0	2066	0	5-8	5-8
S - B	2x4	DRY	No.2	SPF							
L - J	2x4	DRY	No.2	SPF							
S - 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.

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, N8CC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBCC 2010, 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) = $L/999$ (0.10)
ALLOWABLE DEFL.(TL) = $L/360$ (1.17)
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.21)

CSI: TC=0.73/1.00 (D-E:1), BC=0.42/1.00 (O-P:1), WB=0.97/1.00 (L:1), SSI=0.28/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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 1887 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (I) (INPUT = 0.90)
JSI METAL= 0.58 (I) (INPUT = 1.00)

PLATES (table in inches)

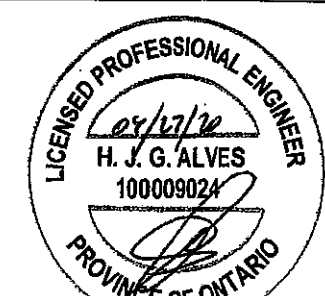
JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TMWW-i	MT20	5.0	8.0	2.50	2.50
D	TTWW+m	MT20	5.0	8.0	2.00	1.75
E	TMWW-i	MT20	4.0	4.0		
F	TS-i	MT20	3.0	8.0		
G	TMV+p	MT20	2.0	4.0		
H	TTWW+m	MT20	5.0	8.0	2.00	1.75
I	TMWW-i	MT20	5.0	8.0	2.50	2.50
J	TMV+p	MT20	3.0	4.0		
L	BMVW-i	MT20	5.0	8.0		
M	BMVW-i	MT20	4.0	4.0		
N	BS-i	MT20	3.0	8.0		
O	BMVW-i	MT20	4.0	4.0		
P	BS-i	MT20	4.0	8.0		
Q	BS-i	MT20	3.0	8.0		
R	BMVW-i	MT20	4.0	4.0		
S	BMVW-i	MT20	5.0	8.0		

LOADING

TOTAL LOAD CASES: (4)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LCI	MAX. CSI (LC)	UNBRAC LENGTH	FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
A-B	0/41	-91.8	-91.8	0.13 (1)	10.00	C-R	0/64	0.02 (4)		
B-C	0/28	-91.8	-91.8	0.21 (1)	10.00	R-D	0/126	0.04 (4)		
C-D	-2066/0	-91.8	-91.8	0.29 (1)	4.50	D-P	0/998	0.22 (1)		
D-E	-2163/0	-91.8	-91.8	0.73 (1)	3.81	P-E	-650/0	0.82 (1)		
E-F	-2162/0	-91.8	-91.8	0.73 (1)	3.81	E-O	-2/0	0.00 (1)		
F-G	-2162/0	-91.8	-91.8	0.73 (1)	3.81	O-G	-849/0	0.82 (1)		
G-H	-2162/0	-91.8	-91.8	0.29 (1)	4.50	M-H	0/126	0.04 (4)		
H-I	-2066/0	-91.8	-91.8	0.73 (1)	3.82	O-H	0/998	0.22 (1)		
I-J	0/26	-91.8	-91.8	0.21 (1)	10.00	M-I	0/64	0.02 (4)		
J-K	0/41	-91.8	-91.8	0.13 (1)	10.00	S-C	-2291/0	0.97 (1)		
S-B	-284/0	0.0	0.0	0.03 (1)	7.81	I-L	-2291/0	0.97 (1)		
L-J	-284/0	0.0	0.0	0.03 (1)	7.81					

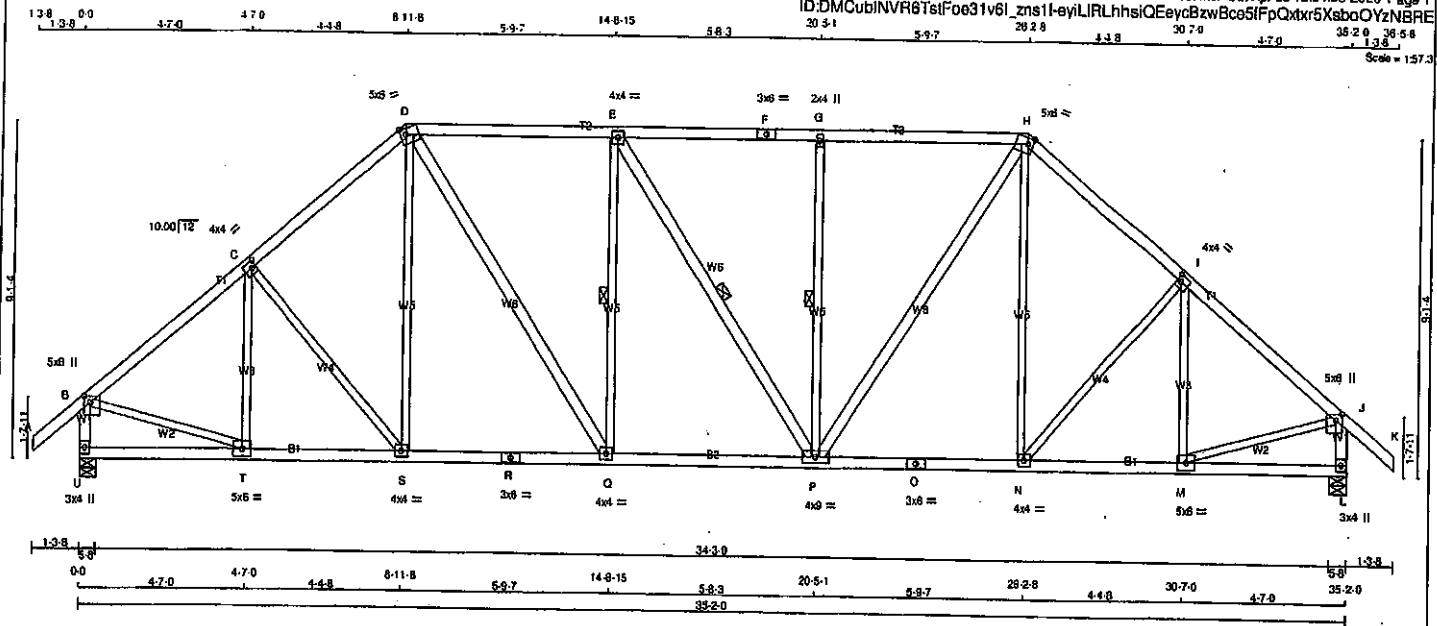
S-R	0/1487	-18.5	-18.5	0.38 (1)	10.00					
R-Q	0/1519	-18.5	-18.5	0.39 (1)	10.00					
Q-P	0/1519	-18.5	-18.5	0.39 (1)	10.00					
P-O	0/2163	-18.5	-18.5	0.42 (1)	10.00					
O-N	0/1519	-18.5	-18.5	0.39 (1)	10.00					
N-M	0/1519	-18.5	-18.5	0.39 (1)	10.00					
M-L	0/1487	-18.5	-18.5	0.39 (1)	10.00					



Structural component only
DWG# T-2007134

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408168	T6	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					

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ID:DMCubINVR6TstFoe31v6L_zns1t-eyiLIRLhhsIQEeycBzwBcs5IFpQxtr5XsboOYzNBRE



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	
U - B	2x4	DRY	No.2	SPF	
L - J	2x4	DRY	No.2	SPF	
U - 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					
C - Q	2x4	DRY	No.2	SPF	
E - P	2x4	DRY	No.2	SPF	
P - H	2x4	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

PLATES (table is in inches)	W	LEN	Y	X
JT TYPE	PLATES			
B TMWW+p	MT20	5.0	6.0	2.00 2.00
C TMWW-i	MT20	4.0	4.0	2.00 1.25
D TTWW-m	MT20	6.0	6.0	2.00 1.75
E TMWW-i	MT20	4.0	4.0	
F TS-i	MT20	3.0	6.0	
G TMWW-w	MT20	2.0	4.0	
H TTWW-m	MT20	5.0	6.0	2.00 1.75
I TMWW-i	MT20	4.0	4.0	2.00 1.25
J TMWW+p	MT20	5.0	6.0	2.00 2.00
L BMVt+p	MT20	3.0	4.0	
M BMWW-i	MT20	5.0	6.0	
N, O, S				
N BMWW-i	MT20	4.0	4.0	
O BS-i	MT20	3.0	6.0	
P BMWW-w	MT20	4.0	9.0	
R BS-i	MT20	3.0	6.0	
T BMWW-i	MT20	5.0	6.0	
U BMVt+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	DOWN	GROSS REACTION	BRG	IN-SX	IN-SX	IN-SX	IN-SX
U	2066	0	2066	0	0	5-8	5-8	5-8	5-8
L	2066	0	2066	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS		1ST CASE		MAX/MIN. COMPONENT REACTIONS		LIVE		PERM. LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
U	1458	971/0	0/0	0/0	0/0	488/0	0/0	U	1458	971/0	0/0	0/0	0/0	488/0	0/0
L	1458	971/0	0/0	0/0	0/0	488/0	0/0	L	1458	971/0	0/0	0/0	0/0	488/0	0/0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.44 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-Q, E-P, G-P.

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

LOADING		TOTAL LOAD CASES: (4)		CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD	LC1 MAX	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH
FR-TO		FROM	TO	CS1 (LC)	FR-TO		CS1 (LC)
A-B	0/41	-91.8	-91.8	0.13 (1)	T-C	-357/0	0.16 (1)
B-C	-1994/0	-91.8	-91.8	0.30 (1)	C-S	-121/0	0.10 (1)
C-D	-1957/0	-91.8	-91.8	0.29 (1)	S-D	0/188	0.05 (4)
D-E	-1923/0	-91.8	-91.8	0.40 (1)	D-Q	0/810	0.13 (1)
E-F	-1921/0	-91.8	-91.8	0.37 (1)	Q-E	-569/0	0.31 (1)
F-G	-1921/0	-91.8	-91.8	0.37 (1)	E-P	-3/0	0.00 (1)
G-H	-1921/0	-91.8	-91.8	0.40 (1)	P-H	0/807	0.31 (1)
H-I	-1957/0	-91.8	-91.8	0.29 (1)	I-J	0/169	0.05 (4)
I-J	-1994/0	-91.8	-91.8	0.30 (1)	J-K	-121/0	0.10 (1)
J-K	0/41	-91.8	-91.8	0.13 (1)	K-L	-358/0	0.16 (1)
U-B	-2028/0	0.0	0.0	0.22 (1)	B-T	0/1617	0.36 (1)
L-J	-2028/0	0.0	0.0	0.22 (1)	M-J	0/1617	0.36 (1)
U-T	0/0	-18.5	-18.5	0.08 (4)			
T-S	0/1555	-18.5	-18.5	0.30 (1)			
S-R	0/1477	-18.5	-18.5	0.30 (1)			
R-Q	0/1477	-18.5	-18.5	0.30 (1)			
Q-P	0/1923	-18.5	-18.5	0.38 (1)			
P-O	0/1478	-18.5	-18.5	0.30 (1)			
O-N	0/1478	-18.5	-18.5	0.30 (1)			
N-M	0/1555	-18.5	-18.5	0.31 (1)			
M-L	0/0	-18.5	-18.5	0.08 (4)			

TOTAL WEIGHT = 2 X 182 = 363 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. 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, NBCO 2010, NBCO 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, 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 (1.17")
CALCULATED VERT. DEFL.(LL) = 1/999 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = 1/999 (0.16")

CSI: TC=0.40/1.00 (D-E-1), BC=0.38/1.00 (P-Q-1),
WB=0.38/1.00 (B-T-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
(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 = 0.89 (B) (INPUT = 0.90)
JSI METAL = 0.50 (C) (INPUT = 1.00)

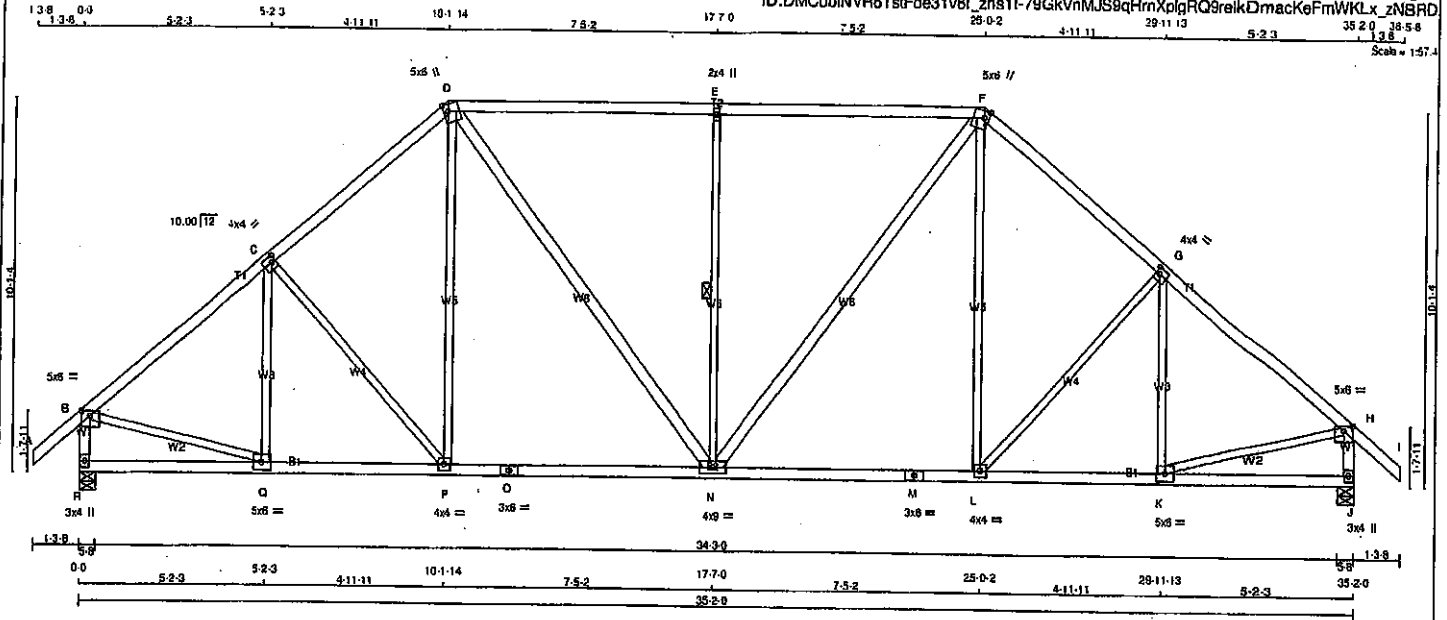


Structural component only
DWG# T-2007135

JOB NAME 408168	TRUSS NAME 17	QUANTITY 5	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TstFoe31v8l_zns11-79GKvNMJS9qHrnXpIqRQ9reikDrmackeFmWKLx_zNBRD



TOTAL WEIGHT = 5 X 173 = 867 lb (M/F)

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 - I	2x4	DRY	No.2	SPF		
I - 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 (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMWW-p	MT20	5.0	6.0	1.50	3.00
C	TMWW-l	MT20	4.0	4.0	2.00	1.25
D	TTWW-m	MT20	5.0	6.0	2.25	1.50
E	TMWW-w	MT20	2.0	4.0		
F	TTWW-m	MT20	5.0	6.0	2.25	1.50
G	TMWW-l	MT20	4.0	4.0	2.00	1.25
H	TMWW-p	MT20	5.0	6.0	1.50	3.00
J	BMV-l-p	MT20	3.0	4.0		
K	BMWW-l	MT20	5.0	6.0		
L	BMWW-l	MT20	4.0	4.0		
M	BS-l	MT20	3.0	6.0		
N	BMWW-l	MT20	4.0	4.0		
O	BS-l	MT20	3.0	6.0		
P	BMWW-l	MT20	4.0	4.0		
Q	BMWW-l	MT20	5.0	6.0		
R	BMV-l-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
R	2068	0	2068	0	5-8
J	2068	0	2068	0	5-8

UNFACTORED REACTIONS		MAX./MIN. COMPONENT REACTIONS						
JT	1ST CASE	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
R	1458	971 / 0	0 / 0	0 / 0	0 / 0	0 / 0	488 / 0	0 / 0
J	1458	971 / 0	0 / 0	0 / 0	0 / 0	0 / 0	488 / 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 = 3.98 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

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	MEMB.	MAX. FACTORED
FR-TO	FORCE (LBS)	FR-TO	FORCE (LBS)
A-B	0 / 41	Q-C	-302 / 0
B-C	-2021 / 0	C-P	-217 / 0
C-D	-1908 / 0	D-N	0 / 278
D-E	-1809 / 0	E-F	0 / 615
E-F	-1809 / 0	F-G	-839 / 0
F-G	-1908 / 0	G-H	0 / 615
G-H	-2021 / 0	H-I	-0 / 278
H-I	0 / 41	I-L	-217 / 0
I-L	-2024 / 0	L-M	-302 / 0
L-M	-2024 / 0	M-N	0 / 1829
M-N	0 / 0	N-K	0 / 1829
N-K	0 / 0	K-H	0 / 1829
K-H	0 / 0		
R-Q	0 / 0		
Q-P	0 / 1580		
P-O	0 / 1437		
O-N	0 / 1437		
N-M	0 / 1437		
M-L	0 / 1437		
L-K	0 / 1580		
K-J	0 / 0		

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, 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 086-09, 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 (1.17")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL) = L/380 (1.17")
CALCULATED VERT. DEFL.(TL) = L/999 (0.17")

CSI: TC=0.74/1.00 (D-E:1), BC=0.35/1.00 (L-N:1), WB=0.58/1.00 (E-N:1), SSI=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
(F3) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 616 354 1687 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

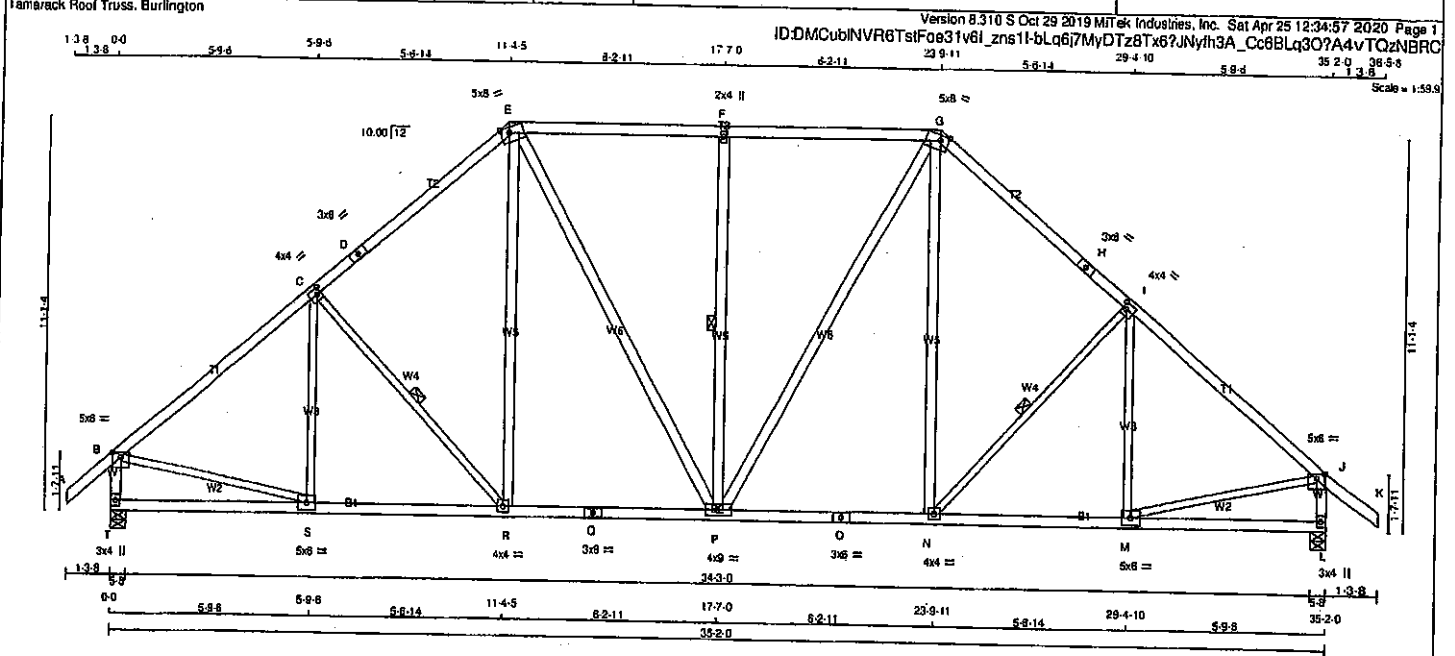
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (H) (INPUT = 0.90)
JSI METAL = 0.46 (O) (INPUT = 1.00)



Structural component only
DWG# T-2007136

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408168	T8	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					
Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Sat Apr 25 12:34:57 2020 Page 1					
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23 9:11 35 2:0 38 5:5 Scale = 1:50.0					

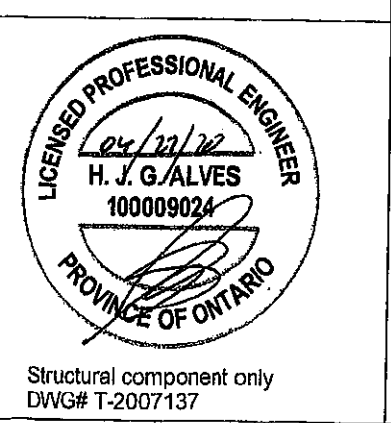


LUMBER
N.L.G.A. RULES
CHORDS SIZE LUMBER
A - D 2x4 DRY No.2
D - E 2x4 DRY No.2
E - G 2x4 DRY No.2
G - H 2x4 DRY No.2
H - K 2x4 DRY No.2
T - B 2x4 DRY No.2
L - J 2x4 DRY No.2
T - Q 2x4 DRY No.2
Q - O 2x4 DRY No.2
O - L 2x4 DRY No.2
ALL WEBS 2x4 DRY No.2
EXCEPT
S - C 2x3 DRY No.2
C - R 2x3 DRY No.2
N -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

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 - Q	2x4	DRY No.2
Q - 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 - R	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)	W	LEN	Y	X
JT TYPE PLATES				
B TMWV-p MT20	5.0	6.0	1.50	3.00
C TMWV-t MT20	4.0	4.0	2.00	1.25
D TS-t MT20	3.0	6.0		
E TTWV-m MT20	5.0	6.0	Edge	3.00
F TMW-w MT20	2.0	4.0		
G TTWV-m MT20	5.0	6.0	Edge	3.00
H TS-t MT20	3.0	6.0		
I TMWV-t MT20	4.0	4.0	2.00	1.25
J TMWV-p MT20	5.0	6.0	1.50	3.00
L BMV1-p MT20	3.0	4.0		
M BMWV-t MT20	5.0	6.0		
N BMWV-t MT20	4.0	4.0		
O BS-t MT20	3.0	6.0		
P BMWV-t MT20	4.0	4.0		
Q BS-t MT20	3.0	6.0		
R BMWV-t MT20	4.0	4.0		
S BMWV-t MT20	5.0	6.0		
T BMV1-p MT20	3.0	4.0		



Structural component only
DWG# T-2007137

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	0	0
T	2068	0	0	5-8
L	2068	0	0	5-8

UNFACTORED REACTIONS	1ST LCASE	MAX/MIN COMPONENT REACTIONS
JT	COMBINED	SNOW LIVE PERM.LIVE WIND DEAD SOIL
T	1458	971 / 0 0 / 0 0 / 0 488 / 0 0 / 0
L	1458	971 / 0 0 / 0 0 / 0 -0 / 0 488 / 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 = 4.27 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-R, F-P, H-N.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD LC1 (PLF)	MAX. FACTORED VERT. LOAD LC2 (PLF)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD LC3 (PLF)	
FR-TO		FROM	TO	UNBRAC LENGTH	FR-TO			
A-B	0 / 41	-91.8	-91.8	0.13 (1)	10.00	S-C	-245 / 10	0.17 (1)
B-C	-2039 / 0	-91.8	-91.8	0.50 (1)	4.27	C-H	-314 / 0	0.15 (1)
C-D	-1844 / 0	-91.8	-91.8	0.46 (1)	4.47	H-E	0 / 338	0.05 (1)
D-E	-1844 / 0	-91.8	-91.8	0.46 (1)	4.47	E-P	0 / 469	0.08 (1)
E-F	-1621 / 0	-91.8	-91.8	0.50 (1)	4.60	P-Q	-699 / 0	0.45 (1)
F-G	-1621 / 0	-91.8	-91.8	0.50 (1)	4.60			
G-H	-1844 / 0	-91.8	-91.8	0.46 (1)	4.47	N-G	0 / 469	0.08 (1)
H-I	-1844 / 0	-91.8	-91.8	0.46 (1)	4.47	N-I	-314 / 0	0.08 (1)
I-J	-2039 / 0	-91.8	-91.8	0.50 (1)	4.27	M-I	-245 / 10	0.15 (1)
J-K	0 / 41	-91.8	-91.8	0.13 (1)	10.00	B-S	0 / 1637	0.37 (1)
T-B	-2021 / 0	0.0	0.0	0.21 (1)	5.94	M-J	0 / 1637	0.37 (1)
L-J	-2021 / 0	0.0	0.0	0.21 (1)	5.94			
T-S	0 / 0	-18.5	-18.5	0.14 (4)	10.00			
S-R	0 / 1597	-18.5	-18.5	0.33 (1)	10.00			
R-Q	0 / 1387	-18.5	-18.5	0.30 (1)	10.00			
Q-P	0 / 1387	-18.5	-18.5	0.30 (1)	10.00			
P-O	0 / 1387	-18.5	-18.5	0.30 (1)	10.00			
O-N	0 / 1387	-18.5	-18.5	0.30 (1)	10.00			
N-M	0 / 1597	-18.5	-18.5	0.33 (1)	10.00			
M-L	0 / 0	-18.5	-18.5	0.14 (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, 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 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17")
CALCULATED VERT. DEFL.(LL) = L/989 (0.07")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/989 (0.14")
CSI: TC=0.50/1.00 (E-F:1), BC=0.33/1.00 (M-N:1), WB=0.45/1.00 (F-P:1), SS=0.28/1.00 (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.

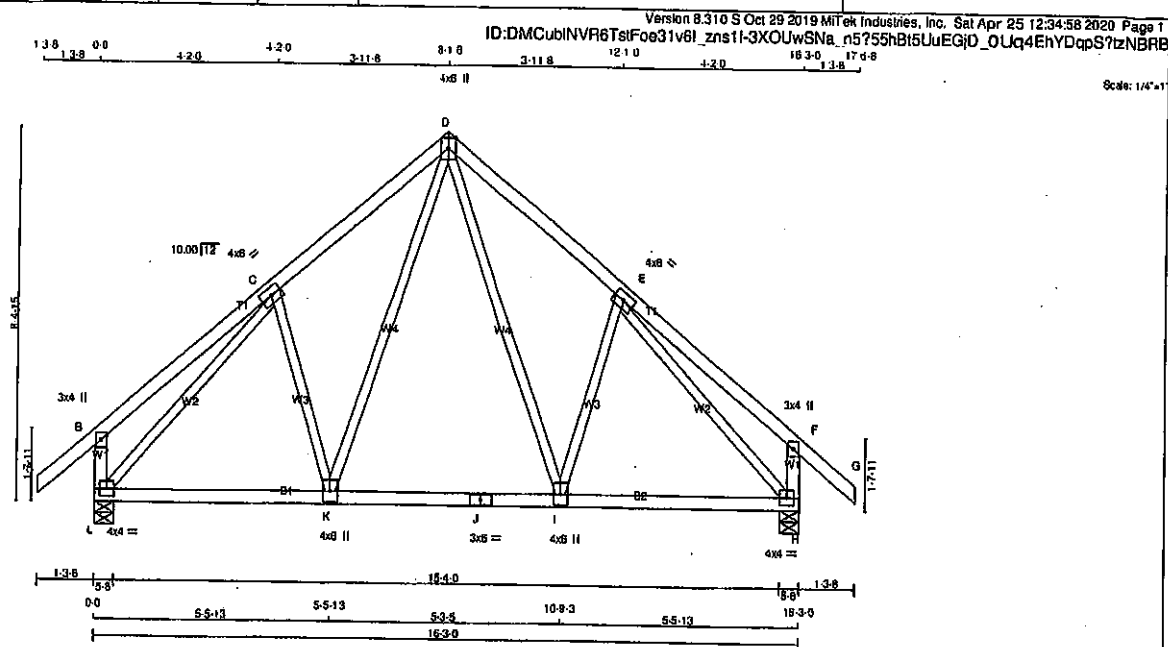
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 818 354 1667 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.89 (J) (INPUT = 0.80)
JSI METAL = 0.47 (D) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408168	T9	6	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					



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

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMV-p	MT20	3.0	4.0		
C TMVW-I	MT20	4.0	6.0		
D TMVW-p	MT20	4.0	6.0		
E TMVW-I	MT20	4.0	6.0		
F TMV-p	MT20	3.0	4.0		
H BMVW-I	MT20	4.0	4.0		
I BMVW-I	MT20	4.0	6.0		
J BS-I	MT20	3.0	6.0		
K BMVW-I	MT20	4.0	6.0		
L BMVW-I	MT20	4.0	4.0		

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

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	RECORD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
L	1023	0	1023	0	5-8
H	1023	0	1023	0	5-8

UNFACTORED REACTIONS

JT	1ST CASE	MAX/MIN	COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
L	721	487/0	0/0	0/0	0/0	0/0	0/0	234/0	0/0
H	721	487/0	0/0	0/0	0/0	0/0	0/0	234/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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		W E B S	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)
A-B	0/41	-91.8	-91.8 0.13 (1)	D-I	0/330
B-C	0/28	-91.8	-91.8 0.24 (1)	I-E	-216/0
C-D	-745/0	-91.8	-91.8 0.19 (1)	K-D	0/330
D-E	-745/0	-91.8	-91.8 0.19 (1)	C-K	-218/0
E-F	0/28	-91.8	-91.8 0.24 (1)	L-G	-943/0
F-G	0/41	-91.8	-91.8 0.13 (1)	E-H	-943/0
L-B	-267/0	0.0	0.0 0.03 (1)		
H-F	-267/0	0.0	0.0 0.03 (1)		
L-K	0/616	-18.5	-18.5 0.17 (4)		
K-J	0/449	-18.5	-18.5 0.16 (4)		
J-I	0/449	-18.5	-18.5 0.16 (4)		
I-H	0/616	-18.5	-18.5 0.17 (4)		

TOTAL WEIGHT = 6 X 80 = 481 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

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) = L360 (0.54)
CALCULATED VERT. DEFL.(LL) = 1/999 (0.02)
ALLOWABLE DEFL.(TL) = L360 (0.54)
CALCULATED VERT. DEFL.(TL) = 1/999 (0.04)

CSI: TC=0.24/1.00 (B-C:1), BC=0.17/1.00 (H-I:4),
WB=0.81/1.00 (C-L: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.

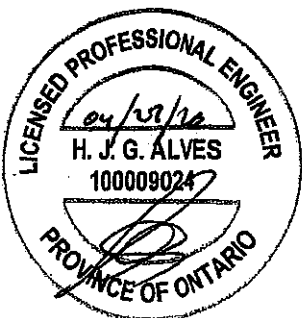
NAIL VALUES

PLATE GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)
MAX	MIN	MAX
618	354	1667
789	1987	1650

PLATE PLACEMENT TOL = 0.250 inches

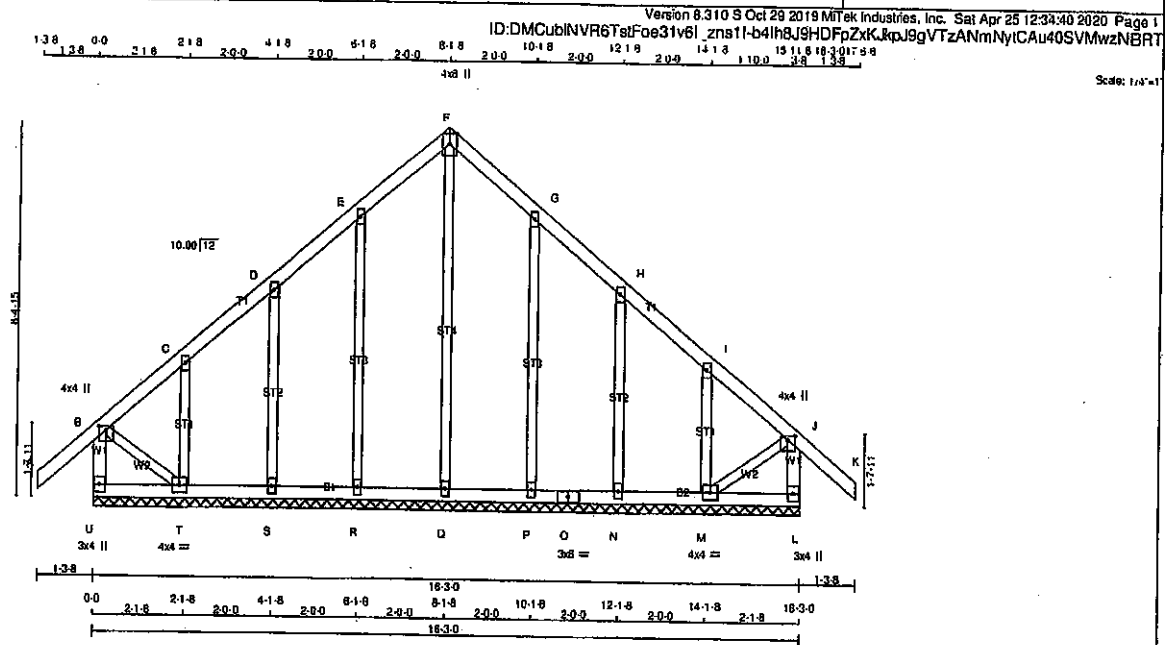
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.76 (C) (INPUT = 0.90)
JSI METAL= 0.25 (C) (INPUT = 1.00)



Structural component only
DWG# T-2007138

JOB NAME 408168	TRUSS NAME G9	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					



TOTAL WEIGHT = 81 b

LUMBER			
N. L. G. A. RULES	SIZE		LUMBER
CHORDS			
A - F	2x4	DRY	No.2
F - K	2x4	DRY	No.2
U - B	2x4	DRY	No.2
L - J	2x4	DRY	No.2
U - O	2x4	DRY	No.2
O - L	2x4	DRY	No.2
ALL WEBS	2x3	DRY	
ALL GABLE WEBS			
	2x3	DRY	No.2
DRY: SEASONED LUMBER.			
GABLE STUDS SPACED AT 2'-0" OC.			

DESCR.
SPF
SPF
SPF
SPF
SPF
SPF
SPF
SPF

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 = 8.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. (LC)
FR-TO		FROM TO			FR-TO		
A-B	0/41	-91.8	-91.8 0.13 (1)	10.00	Q-F	-124/0	0.17 (1)
B-C	-28/0	-91.8	-91.8 0.05 (1)	8.25	R-E	-210/0	0.16 (1)
C-D	-38/0	-91.8	-91.8 0.05 (1)	8.25	S-D	-169/0	0.08 (1)
D-E	-24/0	-91.8	-91.8 0.05 (1)	8.25	T-C	-205/0	0.04 (1)
E-F	-38/0	-91.8	-91.8 0.05 (1)	8.25	P-G	-210/0	0.16 (1)
F-G	-38/0	-91.8	-91.8 0.05 (1)	8.25	N-H	-159/0	0.06 (1)
G-H	-24/0	-91.8	-91.8 0.05 (1)	8.25	M-I	-205/0	0.04 (1)
H-I	-38/0	-91.8	-91.8 0.05 (1)	8.25	B-T	0/37	0.01 (1)
I-J	-28/0	-91.8	-91.8 0.05 (1)	8.25	M-J	0/37	0.01 (1)
J-K	0/41	-91.8	-91.8 0.13 (1)	10.00			
U-B	-248/0	0.0	0.0 0.03 (1)	7.81			
L-J	-248/0	0.0	0.0 0.03 (1)	7.81			
U-T	0/0	-18.5	-18.5 0.02 (4)	10.00			
T-S	0/25	-18.5	-18.5 0.02 (4)	10.00			
S-R	0/21	-18.5	-18.5 0.02 (4)	10.00			
R-Q	0/18	-18.5	-18.5 0.02 (4)	10.00			
Q-P	0/18	-18.5	-18.5 0.02 (4)	10.00			
P-O	0/21	-18.5	-18.5 0.02 (4)	10.00			
O-N	0/21	-18.5	-18.5 0.02 (4)	10.00			
N-M	0/25	-18.5	-18.5 0.02 (4)	10.00			
M-L	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

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=0.13/1.00 (A-B:1), BC=0.02/1.00 (M-N:4), WB=0.17/1.00 (F-Q:1), SS=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

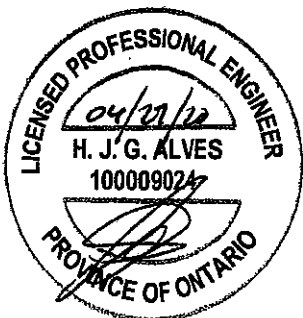
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

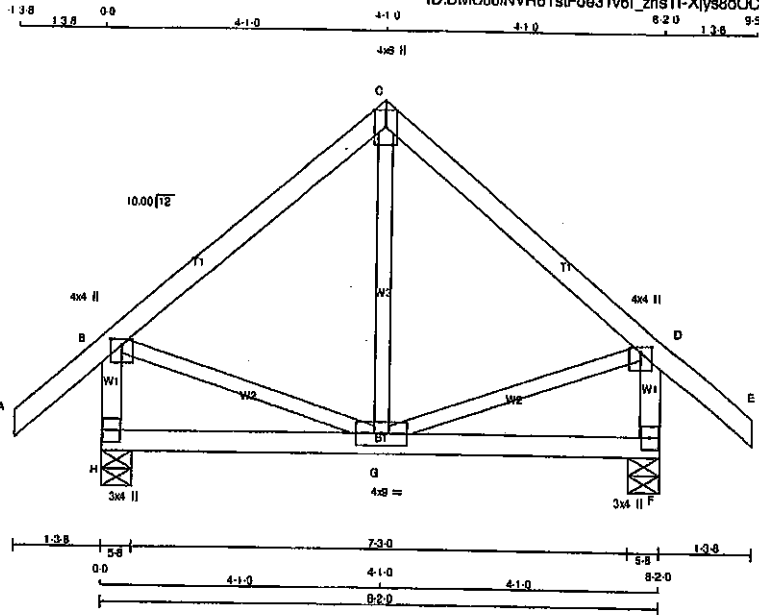
JSI GRIP= 0.52 (T) (INPUT = 0.90)
JSI METAL= 0.11 (G) (INPUT = 1.00)



Structural component only
DWG# T-2007123

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408168	T10	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					

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Scale = 1:30.3

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	4.0	4.0	1.00 2.00
C	TTW+p	MT20	4.0	8.0	Edge
D	TMVW+p	MT20	4.0	4.0	1.00 2.00
F	BMV1+p	MT20	3.0	4.0	
G	BMVWW-t	MT20	4.0	9.0	
H	BMV1+p	MT20	3.0	4.0	

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	
JT	SPF	GROSS REACTION	VERT	GROSS REACTION	DOWN	BRG	IN-SX	BRG	IN-SX
H	SPF	577	0	577	0	5-8	5-8	5-8	5-8
F	SPF	577	0	577	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	408	280 / 0	0 / 0	0 / 0	0 / 0	128 / 0	0 / 0
F	408	280 / 0	0 / 0	0 / 0	0 / 0	128 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		MAX. FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX	CS1 (LC)	UNBRAC LENGTH FR-TO	MEMB.	FORCE (LBS)	MAX	CS1 (LC)
FR-TO		FROM TO							
A-B	0 / 41	-91.8	-91.8	0.13 (1)	10.00	G-C	-37 / 57	0.02 (4)	
B-C	-264 / 0	-91.8	-91.8	0.20 (1)	8.25	B-G	0 / 213	0.05 (1)	
C-D	-264 / 0	-91.8	-91.8	0.20 (1)	8.25	G-D	0 / 213	0.05 (1)	
D-E	0 / 41	-91.8	-91.8	0.13 (1)	10.00				
H-B	-548 / 0	0.0	0.0	0.06 (1)	7.81				
F-D	-548 / 0	0.0	0.0	0.06 (1)	7.81				
H-G	0 / 0	-18.5	-18.5	0.09 (4)	10.00				
G-F	0 / 0	-18.5	-18.5	0.09 (4)	10.00				

TOTAL WEIGHT = 38 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, 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 (0.27")
CALCULATED VERT. DEFL.(LL) = L/989 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.27")
CALCULATED VERT. DEFL.(TL) = L/989 (0.01")

CS1: TC=0.20/1.00 (B-C:1), BC=0.09/1.00 (F-G:4), WB=0.05/1.00 (D-G:1), SS=0.11/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

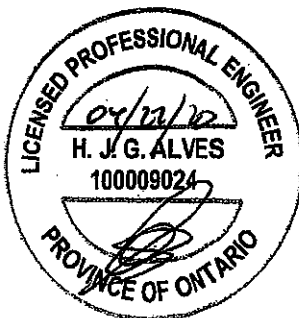
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES			
PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	
MT20	618	354	1867 766 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 6.0 Deg.

JSI GRIP = 0.48 (D) (INPUT = 0.90)
JSI METAL = 0.12 (D) (INPUT = 1.00)



Structural component only
DWG# T-2007139

DRWG NO.

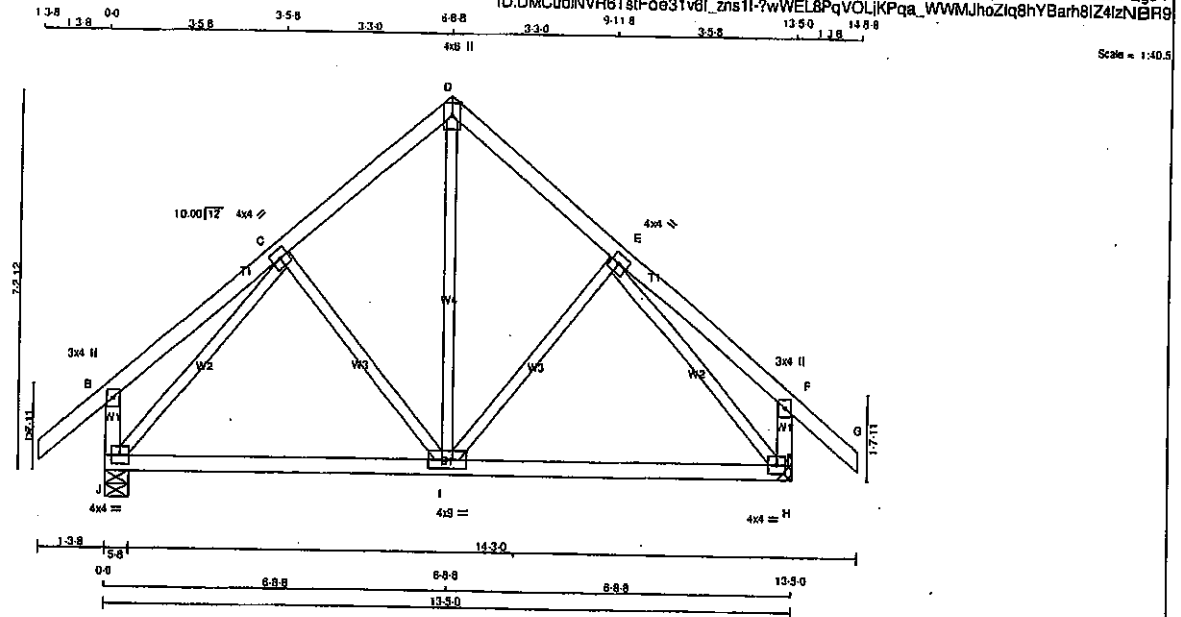
Scale = 1:29.6



Structural component only
DWG# T-2007124

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408168	T11	3	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					

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ID:DMCubINVR6t8tFoe31v6l_zns1l-7wWEL8PqVOLJKPqa_WWWJhoZlq8hYBam8lZ4lZNBH9



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.

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TMWW-t	MT20	4.0	4.0		
D	TTW+p	MT20	4.0	6.0	Edge	
E	TMWW-t	MT20	4.0	4.0		
F	TMV+p	MT20	3.0	4.0		
H	BMWW-t	MT20	4.0	4.0		
I	BMWW-t	MT20	4.0	9.0		
J	BMWW-t	MT20	4.0	4.0		

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

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

BEARINGS	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	DOWN	IN-SX	IN-SX
J	887	0	5-8	5-8
H	887	0	0	MECHANICAL

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
J	611	414/0	0/0	0/0	0/0	198/0	0/0
H	611	414/0	0/0	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 = 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 FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS (LC)
FR-TO		FROM TO			FR-TO		
A-B	0/41	-91.8	-91.8	0.13 (1)	10.00	I-D	0/382
B-C	0/23	-91.8	-91.8	0.16 (1)	10.00	I-E	-149/0
C-D	-509/0	-91.8	-91.8	0.13 (1)	6.25	C-I	-149/0
D-E	-509/0	-91.8	-91.8	0.13 (1)	6.25	J-C	-742/0
E-F	0/23	-91.8	-91.8	0.16 (1)	10.00	E-H	-742/0
F-G	0/41	-91.8	-91.8	0.13 (1)	10.00		
J-B	-244/0	0.0	0.0	0.03 (1)	7.81		
H-F	-244/0	0.0	0.0	0.03 (1)	7.81		
J-I	0/469	-18.5	-18.5	0.27 (4)	10.00		
I-H	0/469	-18.5	-18.5	0.27 (4)	10.00		

TOTAL WEIGHT = 3 X 64 = 191 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. 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 BCBC 2018, OBC 2012, ABC 2018
- 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/380 (0.45")
CALCULATED VERT. DEFL.(LL) = L/989 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.45")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.16/1.00 (E-F:1), BC=0.27/1.00 (I-J:4),
WB=0.33/1.00 (E-H:1), SSI=0.11/1.00 (D-E:1)
DCL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

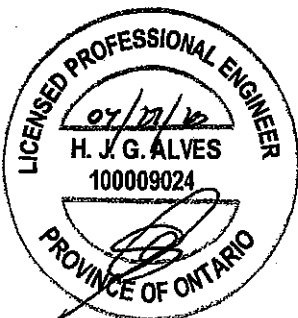
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PL) (FL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1687 788 1587 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

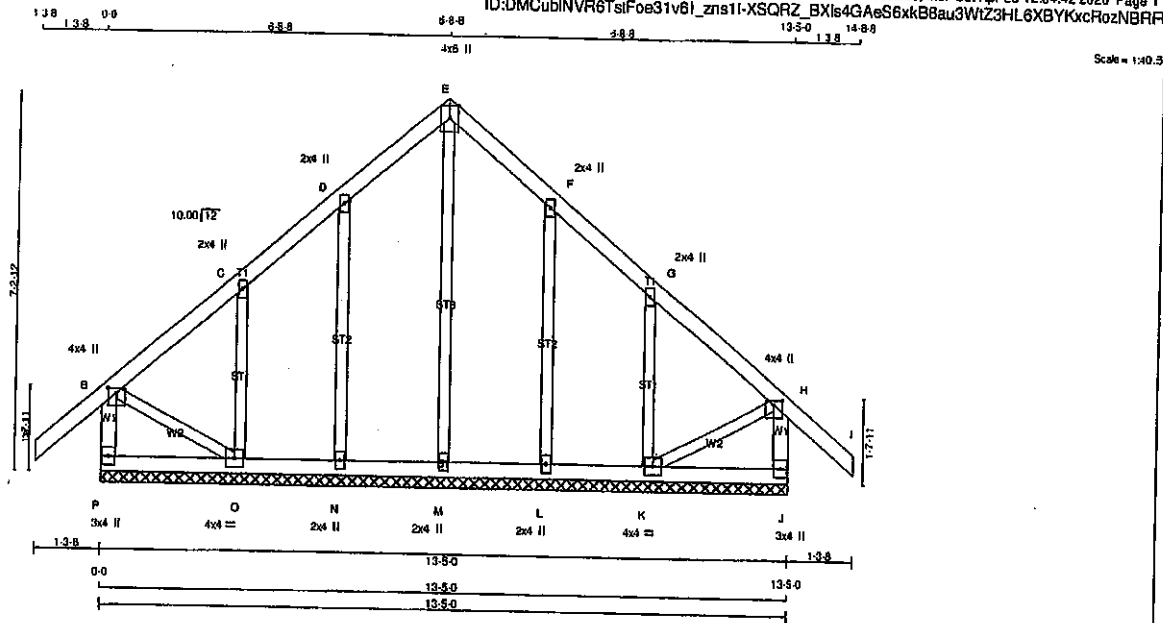
JSI GRIP= 0.84 (E) (INPUT = 0.80)
JSI METAL= 0.27 (E) (INPUT = 1.00)



Structural component only
DWG# T-2007140

JOB NAME 408168	TRUSS NAME G11	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:DMCubInVR6TslF0a31v6l_zns11-XSQRZ_BXIs4GAeS6xkBBau3WtZ3HL6XBYKxcRozNBRF



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" OC.

PLATES (table in inches)				
JT TYPE	PLATES	W	LEN	Y X
B TMVW+p	MT20	4.0	4.0	1.00 2.00
C, D, F, G				
C TMVW+w	MT20	2.0	4.0	
E TTW+p	MT20	4.0	6.0	Edge
H TMVW+p	MT20	4.0	4.0	1.00 2.00
J BMV1+p	MT20	3.0	4.0	
K BMVW1-i	MT20	4.0	4.0	
L, M, N				
L BMVW1+w	MT20	2.0	4.0	
O BMVW1-i	MT20	4.0	4.0	
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
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

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
P-B	-263 / 0	0.0	0.0 0.03 (1)	M-E	-128 / 0	0.11 (1)	
A-B	0 / 41	-91.8	-91.8 0.13 (1)	N-D	-190 / 0	0.09 (1)	
B-C	-24 / 0	-91.8	-91.8 0.08 (1)	O-C	-239 / 0	0.06 (1)	
C-D	-36 / 0	-91.8	-91.8 0.08 (1)	L-F	-190 / 0	0.09 (1)	
D-E	-35 / 0	-91.8	-91.8 0.05 (1)	K-G	-239 / 0	0.08 (1)	
E-F	-35 / 0	-91.8	-91.8 0.05 (1)	B-O	0 / 32	0.01 (1)	
F-G	-38 / 0	-91.8	-91.8 0.08 (1)	K-H	0 / 32	0.01 (1)	
G-H	-24 / 0	-91.8	-91.8 0.08 (1)				
H-I	0 / 41	-91.8	-91.8 0.13 (1)				
J-H	-263 / 0	0.0	0.0 0.03 (1)				
P-O	0 / 0	-18.5	-18.5 0.03 (4)				
O-N	0 / 22	-18.5	-18.5 0.03 (4)				
N-M	0 / 19	-18.5	-18.5 0.02 (4)				
M-L	0 / 19	-18.5	-18.5 0.02 (4)				
L-K	0 / 22	-18.5	-18.5 0.03 (4)				
K-J	0 / 0	-18.5	-18.5 0.03 (4)				

TOTAL WEIGHT = 65 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. C/C
THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010, NBCC 2015
THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, CBC 2012, ABC 2018
- 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
CSI: TC=0.13/1.00 (H-I), BC=0.03/1.00 (K-L), WB=0.11/1.00 (E-M), SS=0.08/1.00 (G-H, I)
DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10
COMP=1.10 SHEAR=1.10 TENS=1.10
COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

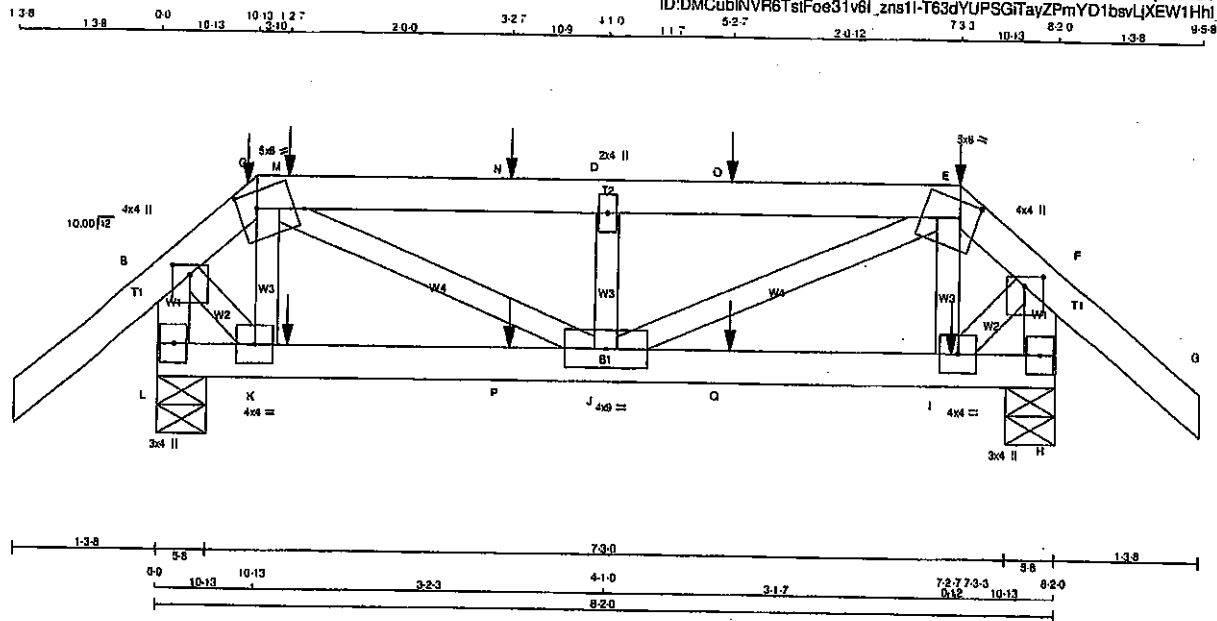
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.20 (B) (INPUT = 0.80)
JSI METAL = 0.13 (G) (INPUT = 1.00)



Structural component only
DWG# T-2007125

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408168	T12	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					
Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Sat Apr 25 12:35:01 2020 Page 1					
ID:DMCubINVR6TstFoe31v6l_zns1l-T63dYUPSGitayZPmYD1bsvLjXEW1Hhl_vn26cGzNBFB8					
Scale = 1:18.8					



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
L - B	2x4	DRY	No.2		SPF
H - F	2x4	DRY	No.2		SPF
L - 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	4.0	4.0	1.00	2.00
C	TTWW-m	MT20	5.0	6.0	1.75	2.00
D	TMW-w	MT20	2.0	4.0	1.00	2.00
E	TTWW-m	MT20	5.0	6.0	1.75	2.00
F	TMW-p	MT20	4.0	4.0	1.00	2.00
H	BMW1-p	MT20	3.0	4.0	1.00	2.00
I	BMWW-1	MT20	4.0	4.0	1.00	2.00
J	BMWW-1	MT20	4.0	4.0	1.00	2.00
K	BMWW-1	MT20	4.0	4.0	1.00	2.00
L	BMW1-p	MT20	3.0	4.0	1.00	2.00

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPLT	REQRD
JT	GROSS REACTION		GROSS REACTION			BRG	BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
L	913	0	913	0	0	5-8	5-8
H	911	0	911	0	0	5-8	5-8

UNFACTORED REACTIONS		1ST CASE		MAX. MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND
L	842	442/0	0/0	0/0	0/0
H	841	437/0	0/0	0/0	0/0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.82 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.	FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO	UNBRAC LENGTH	FR-TO			
A-B	0/41	-91.8 -91.8 0.14 (1)	10.00	J-D	-487/0	0.08 (1)	
B-C	-831/0	-91.8 -91.8 0.14 (1)	6.25	K-C	-158/0	0.02 (1)	
C-M	-1054/0	-91.8 -91.8 0.23 (1)	5.82	C-J	0/700	0.17 (1)	
M-N	-1054/0	-91.8 -91.8 0.23 (1)	5.82	B-K	0/525	0.13 (1)	
N-D	-1054/0	-91.8 -91.8 0.23 (1)	5.82	E-E	-149/0	0.02 (1)	
D-O	-1054/0	-91.8 -91.8 0.23 (1)	5.82	J-E	0/698	0.17 (1)	
O-E	-1054/0	-91.8 -91.8 0.23 (1)	5.82	F-F	0/528	0.13 (1)	
E-F	-632/0	-91.8 -91.8 0.14 (1)	6.25				
F-G	0/41	-91.8 -91.8 0.14 (1)	10.00				
L-B	-938/0	0.0 0.0 0.10 (1)	7.81				
H-F	-937/0	0.0 0.0 0.10 (1)	7.81				
L-K	0/0	-18.5 -18.5 0.05 (1)	10.00				
K-P	0/420	-18.5 -18.5 0.13 (1)	10.00				
P-J	0/420	-18.5 -18.5 0.13 (1)	10.00				
J-Q	0/421	-18.5 -18.5 0.14 (1)	10.00				
Q-I	0/421	-18.5 -18.5 0.14 (1)	10.00				
I-H	0/0	-18.5 -18.5 0.05 (1)	10.00				

FACTORED CONCENTRATED LOADS (LBS)										
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.	
C	10-13	-9	-10	---	FRONT	VERT	DEAD	---	---	C1
O	1-2-7	-114	-114	---	BACK	VERT	TOTAL	---	---	C1
C	10-13	-44	-44	---	FRONT	VERT	SNOW	---	---	C1
E	7-3-3	-9	-10	---	FRONT	VERT	TOTAL	---	---	C1
E	7-3-3	-90	-90	---	BACK	VERT	DEAD	---	---	C1
E	7-3-3	-44	-44	---	FRONT	VERT	SNOW	---	---	C1
I	7-2-7	-49	-49	---	BACK	VERT	TOTAL	---	---	C1
K	1-2-7	-49	-49	---	BACK	VERT	TOTAL	---	---	C1
N	3-2-7	-82	-82	---	BACK	VERT	TOTAL	---	---	C1
O	5-2-7	-82	-82	---	BACK	VERT	TOTAL	---	---	C1
P	3-2-7	-49	-49	---	BACK	VERT	TOTAL	---	---	C1
Q	5-2-7	-49	-49	---	BACK	VERT	TOTAL	---	---	C1

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

TOTAL WEIGHT = 34 lb (M)

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

SPECIFIED LOADS:
TOP CH. LL = 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

*** NON STANDARD GIRDER ***
ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, OBC 2012, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 089-09, 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

ALLOWABLE DEFL. (LL) = L/360 (0.27)
CALCULATED VERT. DEFL. (LL) = L/999 (0.02)
ALLOWABLE DEFL. (TL) = L/360 (0.27)
CALCULATED VERT. DEFL. (TL) = L/999 (0.03)

CSI: TC=0.23/1.00 (C-D:1), BC=0.14/1.00 (H-I:1), WB=0.17/1.00 (C-J:1), SS=0.22/1.00 (C-D:1)

DCL 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

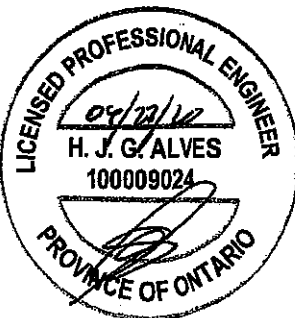
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 818 354 1667 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

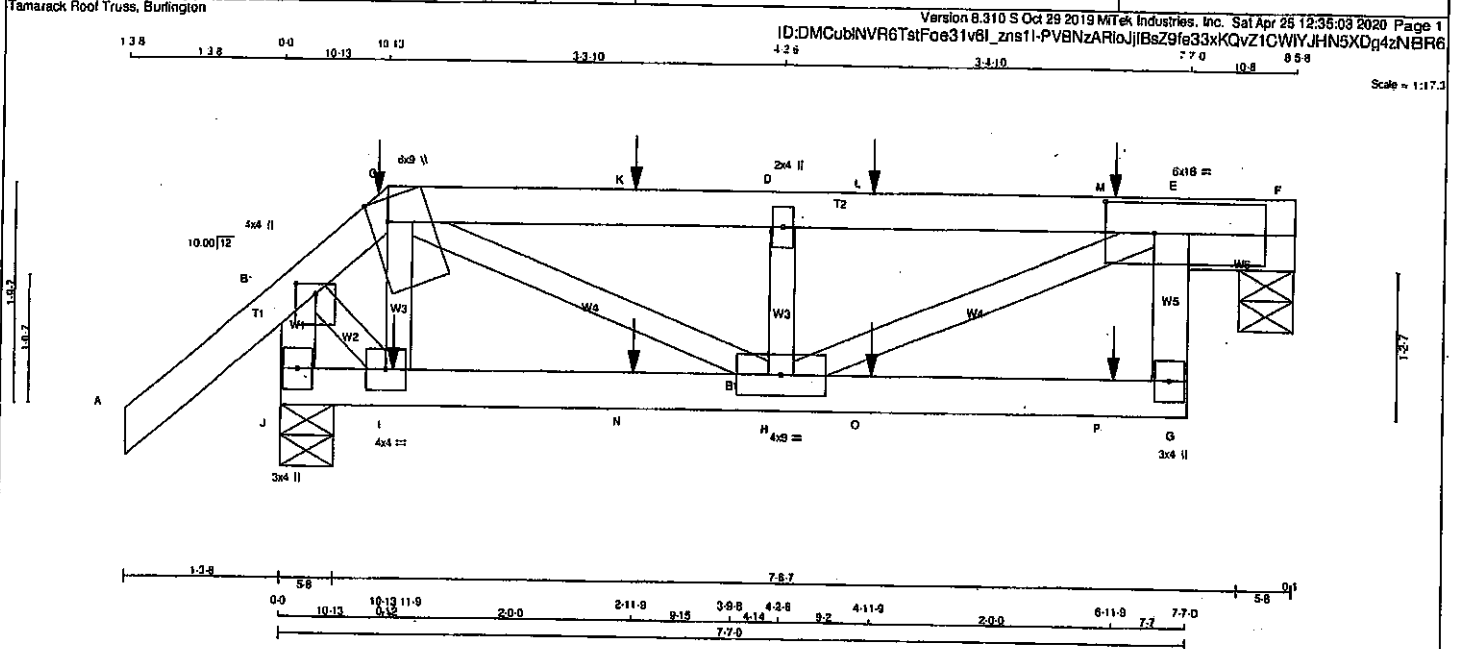
PLATE ROTATION TOL. = 5.0 Deg.

CONTINUED ON PAGE 2



Structural component only
DWG# T-2007141

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408168	T13	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					
Version 8.310 S Oct 29 2019 Mtek Industries, Inc. Sat Apr 26 12:35:03 2020 Page 1					
ID:DMCubINVR6TstFoe31v6I_zns11-PVBNzARioJlBsZ9fe33xKQvZ1CWiyJHN5XDq4zNBR6					
Scale = 1:12.5					



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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	4.0	4.0	1.00 2.00
C	TTWW+m	MT20	6.0	9.0	Edge 1.75
D	TMVW-w	MT20	2.0	4.0	
E	TMVWV-w	MT20	6.0	16.0	3.00 5.00
G	BMV+p	MT20	3.0	4.0	
H	BMVWV-w	MT20	4.0	9.0	
I	BMVW-w	MT20	4.0	4.0	
J	BMV+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	GROSS REACTION	VERT	HORIZ	DOWN	HORIZ	UP/LIFT	IN-SX	BRG	IN-SX
F	895	0	895	0	0	5-8	5-8	5-8	5-8
J	938	0	938	0	0	5-8	5-8	5-8	5-8

BEVELED PLATE OR SHIM REQUIRED TO PROVIDE FULL BEARING SURFACE WITH TRUSS CHORD AT JT(S): F

UNFACTORED REACTIONS

JT	1ST LCASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	490	327 / 0	0 / 0	0 / 0	0 / 0	0 / 0	163 / 0	0 / 0
J	659	449 / 0	0 / 0	0 / 0	0 / 0	0 / 0	210 / 0	0 / 0

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

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.

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	MAX. (LBS)	MEMB.	FORCE (LBS)	MAX. (LBS)	MAX. (LBS)
FR-TO				FR-TO			
A-B	0 / 41	-91.8	-91.8 0.14 (1)	I-C	-158 / 0	0.03 (1)	0.03 (1)
B-C	-856 / 0	-91.8	-91.8 0.14 (1)	B-I	0 / 548	0.14 (1)	0.14 (1)
C-K	-1230 / 0	-91.8	-91.8 0.46 (1)	H-D	-767 / 0	0.12 (1)	0.12 (1)
K-D	-1230 / 0	-91.8	-91.8 0.46 (1)	C-H	0 / 867	0.21 (1)	0.21 (1)
D-L	-1230 / 0	-91.8	-91.8 0.89 (1)	H-E	0 / 1345	0.33 (1)	0.33 (1)
L-M	-1230 / 0	-91.8	-91.8 0.89 (1)				
M-E	-1230 / 0	-91.8	-91.8 0.89 (1)				
E-F	0 / 0	-91.8	-91.8 0.35 (1)				
G-E	0 / 83	0.0	0.0 0.02 (4)				
J-B	-968 / 0	0.0	0.0 0.11 (1)				
J-I	0 / 0	-18.5	-18.5 0.06 (1)				
I-N	0 / 438	-18.5	-18.5 0.14 (1)				
N-H	0 / 438	-18.5	-18.5 0.14 (1)				
H-O	0 / 0	-18.5	-18.5 0.09 (1)				
O-P	0 / 0	-18.5	-18.5 0.09 (1)				
P-G	0 / 0	-18.5	-18.5 0.09 (1)				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LOC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	10-13	-9	-10	-	FRONT	VERT	DEAD	-	C1
C	10-13	-90	-90	-	FRONT	VERT	TOTAL	-	C1
C	11-9	-44	-44	-	FRONT	VERT	SNOW	-	C1
K	2-11-9	-49	-49	-	FRONT	VERT	TOTAL	-	C1
L	4-11-9	-82	-82	-	FRONT	VERT	TOTAL	-	C1
M	6-11-9	-82	-82	-	FRONT	VERT	TOTAL	-	C1
N	2-11-9	-49	-49	-	FRONT	VERT	TOTAL	-	C1
O	4-11-9	-49	-49	-	FRONT	VERT	TOTAL	-	C1
P	8-11-9	-53	-53	-	FRONT	VERT	TOTAL	-	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 32 lb (M)

DESIGN CRITERIA

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

SPECIFIED LOADS:

TOP CH. LL = 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. OC

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

*** NON STANDARD GIRDER ***

ADDT'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, 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

ALLOWABLE DEFL.(LL) = L/360 (0.25")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL) = L/360 (0.25")
CALCULATED VERT. DEFL.(TL) = L/688 (0.13")

CSI: TC=0.89/1.00 (D-E:1), BC=0.14/1.00 (H-I:1), WB=0.33/1.00 (E-H:1), SSI=0.42/1.00 (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.

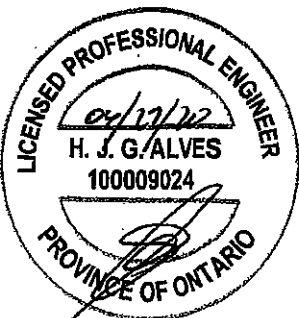
NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION
(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.

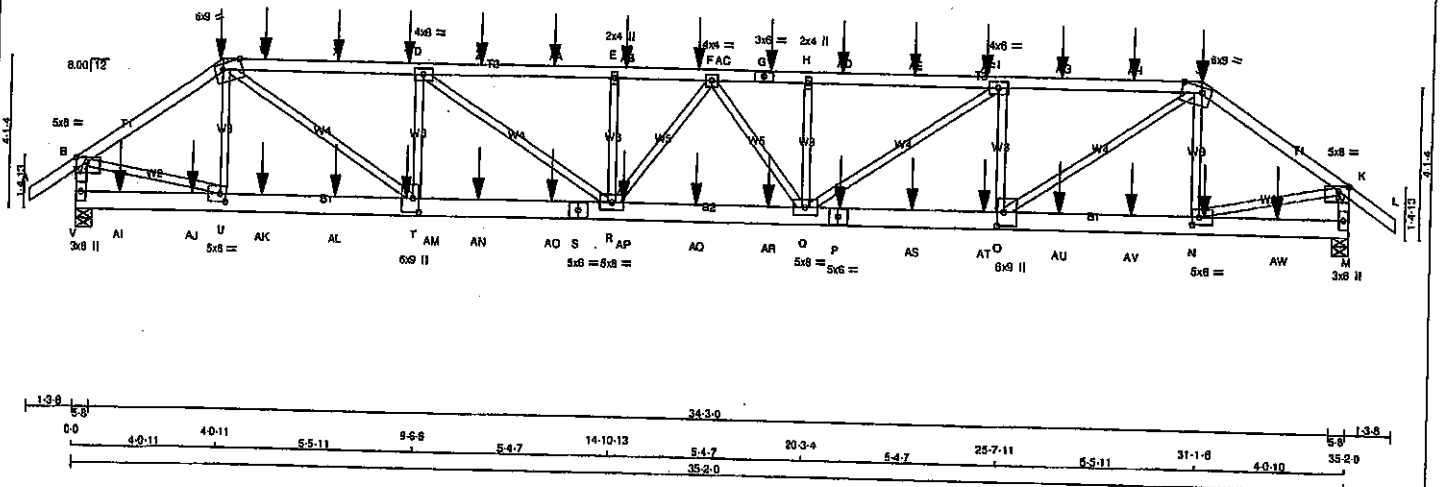
JSI GRIP = 0.79 (C) (INPUT = 0.90)
JSI METAL = 0.30 (H) (INPUT = 1.00)



Structural component only
DWG# T-2007142

JOB NAME 408169	TRUSS NAME T20	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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 ID:K7TPdngj0npl1qYdbWIOFzIdG-i8jtgasn1sB7_Budbz0zKub486zN_xrQMZbHOgzNBd
 Scale = 1:57.2



LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - C	2x4	DRY No.2	SPF
C - G	2x4	DRY No.2	SPF
G - J	2x4	DRY No.2	SPF
J - L	2x4	DRY No.2	SPF
V - B	2x4	DRY No.2	SPF
M - K	2x4	DRY No.2	SPF
V - S	2x6	DRY No.2	SPF
S - P	2x6	DRY No.2	SPF
P - M	2x6	DRY No.2	SPF

ALL WEBS 2x3 DRY No.2
 EXCEPT

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-C	12	SIDE (183.1)
C-G	12	SIDE (183.1)
G-J	12	SIDE (183.1)
J-L	12	SIDE (183.1)
V-B	12	TOP
M-K	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
V-S	12	SIDE (183.1)
S-P	12	SIDE (183.1)
P-M	12	SIDE (183.1)
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.

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	HORIZ	GROSS REACTION	HORIZ	BRG	IN-SX	BRG	IN-SX
V	3342	0	3342	0	0	5-8	5-8	5-8	5-8
M	3393	0	3393	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS		1ST CASE		MAX / MIN COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND
V	2363	1555 / 0	0 / 0	0 / 0	0 / 0
M	2397	1886 / 0	0 / 0	0 / 0	0 / 0

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

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		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO				FR-TO	
A-B	0 / 35	-91.8	-91.8 0.07 (1)	U-C	-596 / 0
B-C	-3951 / 0	-91.8	-91.8 0.22 (1)	C-T	0 / 3530
C-W	-6188 / 0	-91.8	-91.8 0.61 (1)	T-D	-1829 / 0
W-X	-6188 / 0	-91.8	-91.8 0.61 (1)	D-R	0 / 1802
X-Y	-6188 / 0	-91.8	-91.8 0.61 (1)	R-E	-602 / 0
Y-D	-6188 / 0	-91.8	-91.8 0.61 (1)	E-H	-596 / 0
D-Z	-7502 / 0	-91.8	-91.8 0.71 (1)	Q-I	0 / 1573
Z-AA	-7502 / 0	-91.8	-91.8 0.71 (1)	O-I	-1808 / 0
AA-E	-7502 / 0	-91.8	-91.8 0.35 (1)	O-J	0 / 3493
E-AB	-7502 / 0	-91.8	-91.8 0.35 (1)	N-J	-616 / 0
AB-AC	-7502 / 0	-91.8	-91.8 0.35 (1)	B-U	0 / 3374
AC-F	-7502 / 0	-91.8	-91.8 0.35 (1)	N-K	0 / 3439
F-G	-7509 / 0	-91.8	-91.8 0.37 (1)	R-F	-179 / 0
G-H	-7509 / 0	-91.8	-91.8 0.37 (1)	F-Q	-166 / 0
H-AD	-7509 / 0	-91.8	-91.8 0.71 (1)		
AD-AE	-7509 / 0	-91.8	-91.8 0.71 (1)		
AE-AF	-7509 / 0	-91.8	-91.8 0.71 (1)		
AF-I	-7509 / 0	-91.8	-91.8 0.71 (1)		
I-AG	-6217 / 0	-91.8	-91.8 0.61 (1)		
AG-AH	-6217 / 0	-91.8	-91.8 0.61 (1)		
AH-J	-6217 / 0	-91.8	-91.8 0.61 (1)		
J-K	-4025 / 0	-91.8	-91.8 0.22 (1)		
K-L	0 / 35	-91.8	-91.8 0.07 (1)		
V-B	-3298 / 0	0.0	0.0 0.18 (1)		
M-K	-3356 / 0	0.0	0.0 0.18 (1)		
V-AI	0 / 0	-18.5	-18.5 0.05 (4)		
AI-AJ	0 / 0	-18.5	-18.5 0.05 (4)		
AJ-U	0 / 0	-18.5	-18.5 0.05 (4)		
U-AK	0 / 3265	-18.5	-18.5 0.25 (1)		
AK-AL	0 / 3265	-18.5	-18.5 0.25 (1)		
AL-AM	0 / 3265	-18.5	-18.5 0.25 (1)		
AM-T	0 / 3265	-18.5	-18.5 0.25 (1)		
T-AN	0 / 6188	-18.5	-18.5 0.48 (1)		
AN-AO	0 / 6188	-18.5	-18.5 0.48 (1)		
AO-S	0 / 6188	-18.5	-18.5 0.48 (1)		
S-R	0 / 6188	-18.5	-18.5 0.48 (1)		
R-AP	0 / 7806	-18.5	-18.5 0.58 (1)		
AP-AQ	0 / 7806	-18.5	-18.5 0.58 (1)		
AQ-AR	0 / 7806	-18.5	-18.5 0.58 (1)		
AR-Q	0 / 7806	-18.5	-18.5 0.58 (1)		
Q-P	0 / 6217	-18.5	-18.5 0.48 (1)		
P-AS	0 / 6217	-18.5	-18.5 0.48 (1)		

TOTAL WEIGHT = 2 X 160 = 321 LB

DESIGN CRITERIA

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

SPECIFIED LOADS:

TOP CH. LL = 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

*** NON STANDARD GIRDER ***

ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, CBC 2012, ABC 2019
 - PART 9 OF CBC 2012 (2018 AMENDMENT)
 - CSA 088-09, CSA 088-14
 - TPO 2011, TPO 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 (0.23")
 ALLOWABLE DEFL. (TL) = L/360 (1.17")
 CALCULATED VERT. DEFL. (TL) = L/984 (0.44")

CSI: TC=0.71/1.00 (D-E:1), BC=0.56/1.00 (Q-R:1),
 WB=0.44/1.00 (C-T:1), SS=0.23/1.00 (G-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

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 = 0.71 (G) (INPUT = 0.90)
 JSI METAL = 0.59 (S) (INPUT = 1.00)



Structural component only
 DWG# T-2007145 1/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	TRUSS DESC.	DRWG NO.
408169	T20	1	2	GREEN PARK HOMES		

Tamarack Roof Truss, Burlington

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PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	8.0	1.50	3.50
C	TTWW-m	MT20	6.0	9.0	Edge	6.25
D	TMVW-l	MT20	4.0	6.0		
E	TMVW-w	MT20	2.0	4.0		
F	TMVW-l	MT20	4.0	4.0		
G	TS-l	MT20	3.0	6.0		
H	TMVW-w	MT20	2.0	4.0		
I	TMVW-l	MT20	4.0	6.0		
J	TTWW-m	MT20	6.0	9.0	Edge	6.25
K	TMVW-p	MT20	5.0	8.0	1.50	3.50
M	BMV1-p	MT20	3.0	6.0		
N	BMVW-l	MT20	5.0	6.0	2.50	2.00
O	BMVW-l	MT20	6.0	9.0	4.50	2.00
P	BS-l	MT20	5.0	6.0		
Q	BMVW-l	MT20	5.0	6.0		
R	BMVW-l	MT20	5.0	6.0		
S	BS-l	MT20	5.0	6.0		
T	BMVW-l	MT20	6.0	9.0	4.50	2.00
U	BMVW-l	MT20	5.0	6.0	2.50	2.00
V	BMV1-p	MT20	3.0	6.0		

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS

MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	FACTORED VERT. LOAD (LBS)	MAX. FACTORED CS (LC)	MAX. FACTORED UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CS (LC)
FR-TO		FROM	TO			FR-TO		
AS-AT	0/8217	-18.5	-18.5	0.46 (1)	10.00			
AT-O	0/8217	-18.5	-18.5	0.46 (1)	10.00			
O-AU	0/3328	-18.5	-18.5	0.28 (1)	10.00			
AU-AV	0/3328	-18.5	-18.5	0.28 (1)	10.00			
AV-N	0/3328	-18.5	-18.5	0.28 (1)	10.00			
N-AW	0/0	-18.5	-18.5	0.04 (4)	10.00			
AW-M	0/0	-18.5	-18.5	0.04 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	4-0-11	-49	-55	--	FRONT	VERT	DEAD	--	C1
C	4-0-11	-254	-254	--	FRONT	VERT	SNOW	--	C1
G	19-2-12	-110	-110	--	BACK	VERT	TOTAL	--	C1
J	31-1-6	-49	-55	--	FRONT	VERT	DEAD	--	C1
J	31-1-6	-117	-117	--	BACK	VERT	TOTAL	--	C1
J	31-1-6	-254	-254	--	FRONT	VERT	SNOW	--	C1
N	31-2-12	-26	-26	--	BACK	VERT	TOTAL	--	C1
P	21-2-12	-26	-26	--	BACK	VERT	TOTAL	--	C1
W	5-2-12	-110	-110	--	BACK	VERT	TOTAL	--	C1
X	7-2-12	-110	-110	--	BACK	VERT	TOTAL	--	C1
Y	9-2-12	-110	-110	--	BACK	VERT	TOTAL	--	C1
Z	11-2-12	-110	-110	--	BACK	VERT	TOTAL	--	C1
AA	13-2-12	-110	-110	--	BACK	VERT	TOTAL	--	C1
AB	15-2-12	-110	-110	--	BACK	VERT	TOTAL	--	C1
AC	17-2-12	-110	-110	--	BACK	VERT	TOTAL	--	C1
AD	21-2-12	-110	-110	--	BACK	VERT	TOTAL	--	C1
AE	23-2-12	-110	-110	--	BACK	VERT	TOTAL	--	C1
AF	25-2-12	-110	-110	--	BACK	VERT	TOTAL	--	C1
AG	27-2-12	-110	-110	--	BACK	VERT	TOTAL	--	C1
AH	29-2-12	-110	-110	--	BACK	VERT	TOTAL	--	C1
AI	1-2-12	-26	-26	--	BACK	VERT	TOTAL	--	C1
AJ	3-2-12	-26	-26	--	BACK	VERT	TOTAL	--	C1
AK	5-2-12	-26	-26	--	BACK	VERT	TOTAL	--	C1
AL	7-2-12	-26	-26	--	BACK	VERT	TOTAL	--	C1
AM	9-2-12	-26	-26	--	BACK	VERT	TOTAL	--	C1
AN	11-2-12	-26	-26	--	BACK	VERT	TOTAL	--	C1
AO	13-2-12	-26	-26	--	BACK	VERT	TOTAL	--	C1
AP	15-2-12	-26	-26	--	BACK	VERT	TOTAL	--	C1
AQ	17-2-12	-26	-26	--	BACK	VERT	TOTAL	--	C1
AR	19-2-12	-26	-26	--	BACK	VERT	TOTAL	--	C1
AS	23-2-12	-26	-26	--	BACK	VERT	TOTAL	--	C1
AT	25-2-12	-26	-26	--	BACK	VERT	TOTAL	--	C1
AU	27-2-12	-26	-26	--	BACK	VERT	TOTAL	--	C1
AV	29-2-12	-26	-26	--	BACK	VERT	TOTAL	--	C1
AW	33-2-12	-26	-26	--	BACK	VERT	TOTAL	--	C1

CONNECTION REQUIREMENTS

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

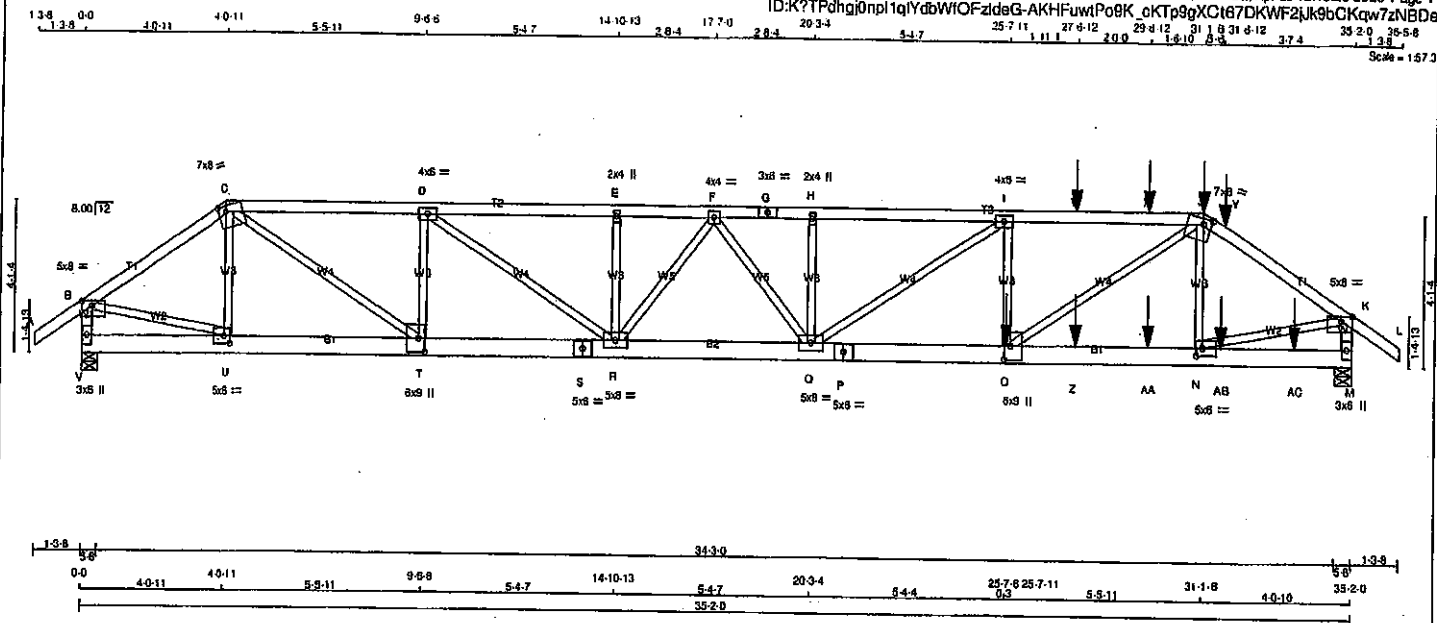


Structural component only
DWG# T-2007145

JOB NAME 408169	TRUSS NAME T20Z	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

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ID:K?TPdngj0npl1qYdbWIOFzIdaG-AKHFWuP06K_cKTP9gXC167DKWf2Jk9bCKqW7zNBDe



LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - C	2x4	DRY	No.2
C - G	2x4	DRY	No.2
G - J	2x4	DRY	No.2
J - L	2x4	DRY	No.2
V - B	2x4	DRY	No.2
M - K	2x4	DRY	No.2
V - S	2x6	DRY	No.2
S - P	2x6	DRY	No.2
P - M	2x6	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			

DRY: SEASONED LUMBER.
DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS: (0.122"x3") SPIRAL NAILS		
A-C 1	12	TOP
C-G 1	12	TOP
G-J 1	12	SIDE(81.0)
J-L 1	12	SIDE(81.0)
V-B 1	12	TOP
M-K 1	12	TOP
BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS		
V-S 2	12	TOP
S-P 2	12	TOP
P-M 2	12	SIDE(183.1)
WEBS: (0.122"x3") SPIRAL NAILS		
2x3 1	6	SIDE(557.9)
I-O 1	3	
D-T 1	3	

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			
GROSS REACTION				GROSS REACTION			
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
V	2938	0	2938	0	0	5-8	5-8
M	4796	0	4796	0	0	5-8	5-8

UNFACTORED REACTIONS							
1ST LCASE				MAX/MIN. COMPONENT REACTIONS			
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
V	2073	1388 / 0	0 / 0	0 / 0	0 / 0	684 / 0	0 / 0
M	3381	2278 / 0	0 / 0	0 / 0	0 / 0	1103 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.57 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				WEBS			
MEMB.	FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	0 / 35	-91.8	-91.8 0.07 (1)	10.00	U-C	-584 / 0	0.07 (1)
B-C	-3442 / 0	-91.8	-91.8 0.30 (1)	4.88	C-T	0 / 3700	0.46 (1)
C-D	-5905 / 0	-91.8	-91.8 0.43 (1)	3.70	T-D	-1893 / 0	0.25 (1)
D-E	-7947 / 0	-91.8	-91.8 0.58 (1)	3.11	D-R	0 / 2485	0.31 (1)
E-F	-7947 / 0	-91.8	-91.8 0.31 (1)	3.30	R-E	-368 / 0	0.05 (1)
F-G	-9222 / 0	-91.8	-91.8 0.38 (1)	3.01	Q-H	-346 / 0	0.04 (1)
G-H	-9222 / 0	-91.8	-91.8 0.38 (1)	3.01	Q-I	-503 / 0	0.19 (1)
H-I	-9222 / 0	-91.8	-91.8 0.77 (1)	2.73	O-I	-397 / 0	0.05 (1)
I-W	-9635 / 0	-91.8	-91.8 0.88 (1)	2.57	O-J	0 / 5776	0.71 (1)
W-X	-9635 / 0	-91.8	-91.8 0.88 (1)	2.57	N-J	-915 / 0	0.12 (1)
X-Y	-9635 / 0	-91.8	-91.8 0.88 (1)	2.57	B-U	0 / 2940	0.38 (1)
J-Y	-5847 / 0	-91.8	-91.8 0.33 (1)	3.78	N-K	0 / 5020	0.82 (1)
Y-K	-5847 / 0	-91.8	-91.8 0.33 (1)	3.78	R-F	-1209 / 0	0.21 (1)
K-L	0 / 35	-91.8	-91.8 0.07 (1)	10.00	F-Q	0 / 974	0.12 (1)
V-B	-2914 / 0	0.0	0.0 0.16 (1)	6.74			
M-K	-4771 / 0	0.0	0.0 0.27 (1)	5.48			
V-U	0 / 0	-18.5	-18.5 0.03 (4)	10.00			
U-T	0 / 2843	-18.5	-18.5 0.21 (1)	10.00			
T-S	0 / 5906	-18.5	-18.5 0.44 (1)	10.00			
S-R	0 / 5906	-18.5	-18.5 0.44 (1)	10.00			
R-Q	0 / 8853	-18.5	-18.5 0.82 (1)	10.00			
Q-P	0 / 9835	-18.5	-18.5 0.72 (1)	10.00			
P-O	0 / 9635	-18.5	-18.5 0.72 (1)	10.00			
O-Z	0 / 4855	-18.5	-18.5 0.41 (1)	10.00			
Z-AA	0 / 4855	-18.5	-18.5 0.41 (1)	10.00			
AA-N	0 / 4855	-18.5	-18.5 0.41 (1)	10.00			
N-AB	0 / 0	-18.5	-18.5 0.06 (4)	10.00			
AB-AC	0 / 0	-18.5	-18.5 0.06 (4)	10.00			
AC-M	0 / 0	-18.5	-18.5 0.06 (4)	10.00			

FACTORED CONCENTRATED LOADS (LBS)							
JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	HEEL
J	31-1-8	-49	-55	---	FRONT	VERT	DEAD
O	31-1-8	-254	-254	---	FRONT	VERT	SNOW
W	25-7-8	-2840	-2840	---	FRONT	VERT	TOTAL
X	27-6-12	-110	-110	---	FRONT	VERT	TOTAL
Y	29-6-12	-110	-110	---	FRONT	VERT	TOTAL
Z	27-6-12	-136	-136	---	FRONT	VERT	TOTAL
AA	29-8-12	-26	-26	---	FRONT	VERT	TOTAL
AB	31-8-12	-26	-26	---	FRONT	VERT	TOTAL
AC	33-6-12	-26	-26	---	FRONT	VERT	TOTAL

DESIGN CRITERIA

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

SPECIFIED LOADS:
TOP CH. LL = 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

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBCG 2010, NBCG 2015
- PART 9 OF NBCG 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 (1.17")
CALCULATED VERT. DEFL. (LL) = L/999 (0.28")
ALLOWABLE DEFL. (TL) = L/380 (1.17")
CALCULATED VERT. DEFL. (TL) = L/832 (0.51")

CSI: TC=0.88/1.00 (I-J:1), BC=0.72/1.00 (O-Q:1), WB=0.71/1.00 (J-O:1), GS=0.18/1.00 (J-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.89 (C) (INPUT = 0.90)
JSI METAL=0.87 (S) (INPUT = 1.00)



Structural component only
DWG# T-2007146 1/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408169	T20Z	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMWV-p	MT20	5.0	8.0	1.50	3.50
C	TTWW-m	MT20	7.0	8.0	1.75	2.50
D	TMWW-t	MT20	4.0	6.0		
E	TMW-w	MT20	2.0	4.0		
F	TMWW-t	MT20	4.0	4.0		
G	TS-t	MT20	3.0	6.0		
H	TMW-w	MT20	2.0	4.0		
I	TMWW-t	MT20	4.0	6.0		
J	TTWW-m	MT20	7.0	8.0	1.75	2.50
K	TMWV-p	MT20	5.0	8.0	1.50	3.50
M	BMV-t-p	MT20	3.0	6.0		
N	BMWW-t	MT20	5.0	6.0	2.50	2.00
O	BMWW-t	MT20	6.0	9.0	4.50	2.00
P	BS-t	MT20	5.0	6.0		
Q	BMWW-t	MT20	5.0	8.0		
R	BMWW-t	MT20	5.0	8.0		
S	BS-t	MT20	5.0	6.0		
T	BMWW-t	MT20	6.0	9.0	4.50	2.00
U	BMWW-t	MT20	5.0	8.0	2.50	2.00
V	BMV-t-p	MT20	3.0	6.0		

CONNECTION REQUIREMENTS

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

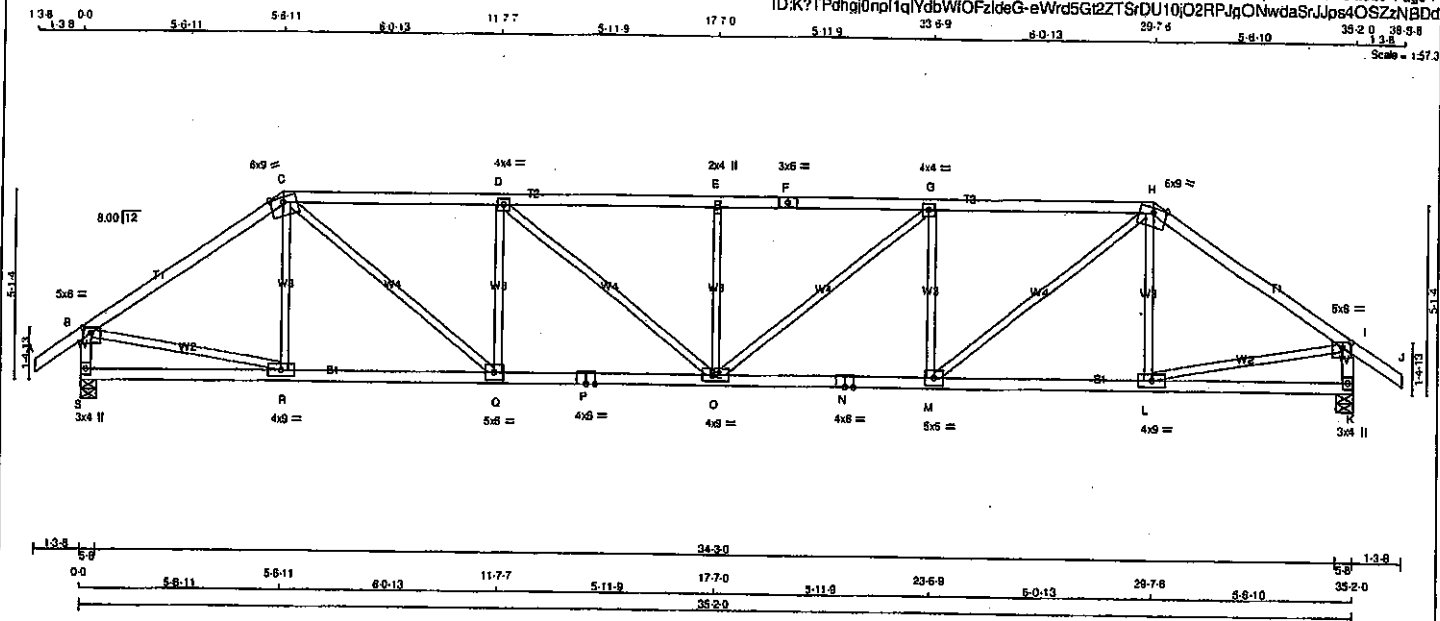


Structural component only
DWG# T-2007146 32

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408169	T21	2	1	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

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

DRY: SEASONED LUMBER.

PLATES (table in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMWV-p	MT20	5.0	6.0	1.75	2.75
C TTWW-m	MT20	6.0	9.0	Edge	
D TMWV-I	MT20	4.0	4.0		
E TMWV-w	MT20	2.0	4.0		
F TS-I	MT20	3.0	6.0		
G TMWV-I	MT20	4.0	4.0		
H TTWW-m	MT20	6.0	9.0	Edge	
I TMWV-p	MT20	5.0	6.0	1.75	2.75
K BMV-I-p	MT20	3.0	4.0		
L BMWV-I	MT20	4.0	9.0		
M BMWV-I	MT20	5.0	6.0		
N BS-I	MT20	4.0	6.0		
O BMWVW-I	MT20	4.0	9.0		
P BS-I	MT20	4.0	6.0		
Q BMWV-I	MT20	5.0	6.0		
R BMWV-I	MT20	4.0	9.0		
S 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		RECORD	
JT	VERT	GROSS REACTION	GROSS REACTION	DOWN	HORIZ	UPLIFT	IN-SX	IN-SX	BRO
S	2065	0	2065	0	0	0	5-8	5-8	5-8
K	2065	0	2065	0	0	0	5-8	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
JT	1458	970 / 0	0 / 0	0 / 0	0 / 0	488 / 0	0 / 0
S	1458	970 / 0	0 / 0	0 / 0	0 / 0	488 / 0	0 / 0
K	1458	970 / 0	0 / 0	0 / 0	0 / 0	488 / 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 = 2.97 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 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	R-C	-243 / 10	0.09 (1)
B-C	-2297 / 0	-91.8	-91.8 0.70 (1)	3.78	C-Q	0 / 1669	0.38 (1)
C-D	-3213 / 0	-91.8	-91.8 0.60 (1)	3.19	Q-D	-929 / 0	0.36 (1)
D-E	-3594 / 0	-91.8	-91.8 0.88 (1)	2.97	D-O	0 / 489	0.11 (1)
E-F	-3594 / 0	-91.8	-91.8 0.86 (1)	2.97	O-E	-505 / 0	0.19 (1)
F-G	-3594 / 0	-91.8	-91.8 0.86 (1)	2.97	G-G	0 / 490	0.11 (1)
G-H	-3213 / 0	-91.8	-91.8 0.60 (1)	3.19	M-G	-929 / 0	0.36 (1)
H-I	-2296 / 0	-91.8	-91.8 0.70 (1)	3.78	M-H	0 / 1670	0.38 (1)
I-J	0 / 35	-91.8	-91.8 0.12 (1)	10.00	L-H	-243 / 10	0.09 (1)
S-B	-2023 / 0	0.0	0.0 0.21 (1)	5.94	B-R	0 / 1943	0.44 (1)
K-I	-2023 / 0	0.0	0.0 0.21 (1)	5.94	L-I	0 / 1943	0.44 (1)
S-R	0 / 0	-18.5	-18.5 0.15 (4)	10.00			
R-Q	0 / 1904	-18.5	-18.5 0.39 (1)	10.00			
Q-P	0 / 3213	-18.5	-18.5 0.50 (1)	10.00			
P-O	0 / 3213	-18.5	-18.5 0.50 (1)	10.00			
O-N	0 / 3213	-18.5	-18.5 0.50 (1)	10.00			
N-M	0 / 3213	-18.5	-18.5 0.50 (1)	10.00			
M-L	0 / 1903	-18.5	-18.5 0.39 (1)	10.00			
L-K	0 / 0	-18.5	-18.5 0.15 (4)	10.00			

TOTAL WEIGHT = 2 X 140 = 280 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. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2015, 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 (1.17")
CALCULATED VERT. DEFL.(LL) = U/999 (0.21")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = U/999 (0.39")

CSI: TC=0.88/1.00 (E-G:1), BC=0.58/1.00 (O-Q:1),
WB=0.44/1.00 (B-R:1), SS=0.28/1.00 (G-H: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	788	1987	1658

PLATE PLACEMENT TOL. = 0.250 inches

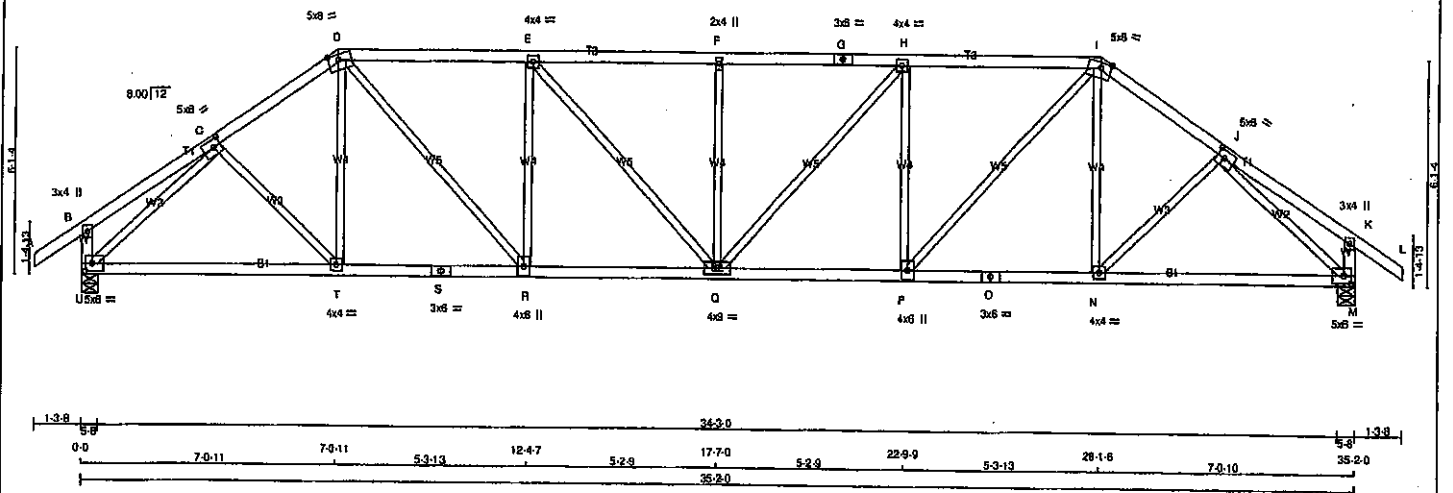
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (B) (INPUT = 0.90)
JSI METAL= 0.74 (P) (INPUT = 1.00)



Structural component only
DWG# T-2007147

JOB NAME 408169	TRUSS NAME T22	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.316 S Oct 29 2019 MTek Industries, Inc. Sat Apr 25 12:49:27 2020 Page 1	
ID:K7TPdhgJ0npl1qYdbWf0ZideG-6jO7JbugKnairecCH5ZgyXDemJ7DB9HS2Wpx77zNBDC				Scale = 1:57.0	



LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - D	2x4	DRY	No.2
D - G	2x4	DRY	No.2
G - I	2x4	DRY	No.2
I - L	2x4	DRY	No.2
U - B	2x4	DRY	No.2
M - K	2x4	DRY	No.2
U - S	2x4	DRY	No.2
S - O	2x4	DRY	No.2
O - M	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
SPF			
DRY, SEASONED LUMBER.			

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN	Y X
B TMV+p	MT20	3.0	4.0	
C TMVW-t	MT20	5.0	6.0	2.50 2.50
D TTWW-m	MT20	5.0	6.0	1.75 3.50
E TMVW-t	MT20	4.0	4.0	
F TMVW-w	MT20	2.0	4.0	
G TS-t	MT20	3.0	6.0	
H TMVW-t	MT20	4.0	4.0	
I TTWW-m	MT20	5.0	6.0	1.75 3.50
J TMVW-t	MT20	5.0	6.0	2.50 2.50
K TMV+p	MT20	3.0	4.0	
M BMVW-t	MT20	5.0	6.0	2.50 2.25
N BMVW-t	MT20	4.0	4.0	
O BS-t	MT20	3.0	6.0	
P BMVW-t	MT20	4.0	6.0	
Q BMVW-t	MT20	4.0	6.0	
R BMVW-t	MT20	4.0	6.0	
S BS-t	MT20	3.0	6.0	
T BMVW-t	MT20	4.0	4.0	
U BMVW-t	MT20	5.0	6.0	2.50 2.25

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	DOWN	GROSS REACTION	DOWN	BRG	IN-SX	BRG	IN-SX
U	2065	0	2065	0	0	5-8	5-8		
M	2065	0	2065	0	0	5-8	5-8		

UNFACTORED REACTIONS		1ST LOASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL		
U	1458	970 / 0	0 / 0	0 / 0	0 / 0	488 / 0	0 / 0		
M	1458	970 / 0	0 / 0	0 / 0	0 / 0	488 / 0	0 / 0		

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

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.

LOADING
TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX (PLF)	MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX (PLF)
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 35	-91.8	-91.8 0.12 (1)	C-T	0 / 135	0.03 (4)	
B-C	0 / 18	-91.8	-91.8 0.16 (1)	D-R	0 / 90	0.03 (4)	
C-D	-2305 / 0	-91.8	-91.8 0.23 (1)	E-Q	0 / 1218	0.27 (1)	
D-E	-2723 / 0	-91.8	-91.8 0.54 (1)	F-R	-814 / 0	0.48 (1)	
E-F	-2968 / 0	-91.8	-91.8 0.56 (1)	G-Q	0 / 363	0.08 (1)	
F-G	-2968 / 0	-91.8	-91.8 0.56 (1)	H-Q	-440 / 0	0.28 (1)	
G-H	-2968 / 0	-91.8	-91.8 0.56 (1)	I-Q	0 / 363	0.08 (1)	
H-I	-2723 / 0	-91.8	-91.8 0.54 (1)	J-Q	-814 / 0	0.48 (1)	
I-J	-2305 / 0	-91.8	-91.8 0.23 (1)	K-Q	0 / 1218	0.27 (1)	
J-K	0 / 18	-91.8	-91.8 0.16 (1)	L-Q	0 / 90	0.03 (4)	
K-L	0 / 35	-91.8	-91.8 0.12 (1)	M-Q	0 / 135	0.03 (4)	
U-B	-265 / 0	0.0	0.0 0.03 (1)	N-Q	-2515 / 0	0.97 (1)	
M-K	-265 / 0	0.0	0.0 0.03 (1)	J-M	-2514 / 0	0.97 (1)	
U-T	0 / 1802	-18.5	-18.5 0.40 (1)				
T-S	0 / 1901	-18.5	-18.5 0.41 (1)				
S-R	0 / 1901	-18.5	-18.5 0.41 (1)				
R-Q	0 / 2724	-18.5	-18.5 0.49 (1)				
Q-P	0 / 2723	-18.5	-18.5 0.49 (1)				
P-O	0 / 1900	-18.5	-18.5 0.41 (1)				
O-N	0 / 1900	-18.5	-18.5 0.41 (1)				
N-M	0 / 1801	-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 = 24.0 IN/C

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

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

(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 (0.16")
ALLOWABLE DEFL.(TL) = L/360 (1.17)
CALCULATED VERT. DEFL.(TL) = L/999 (0.29")

CRK TC=0.56/1.00 (E-F:1), BC=0.49/1.00 (G-R:1), WB=0.97/1.00 (C-U:1), SS=0.23/1.00 (H-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1887 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRP= 0.80 (M) (INPUT = 0.90)
JSI METAL= 0.83 (C) (INPUT = 1.00)

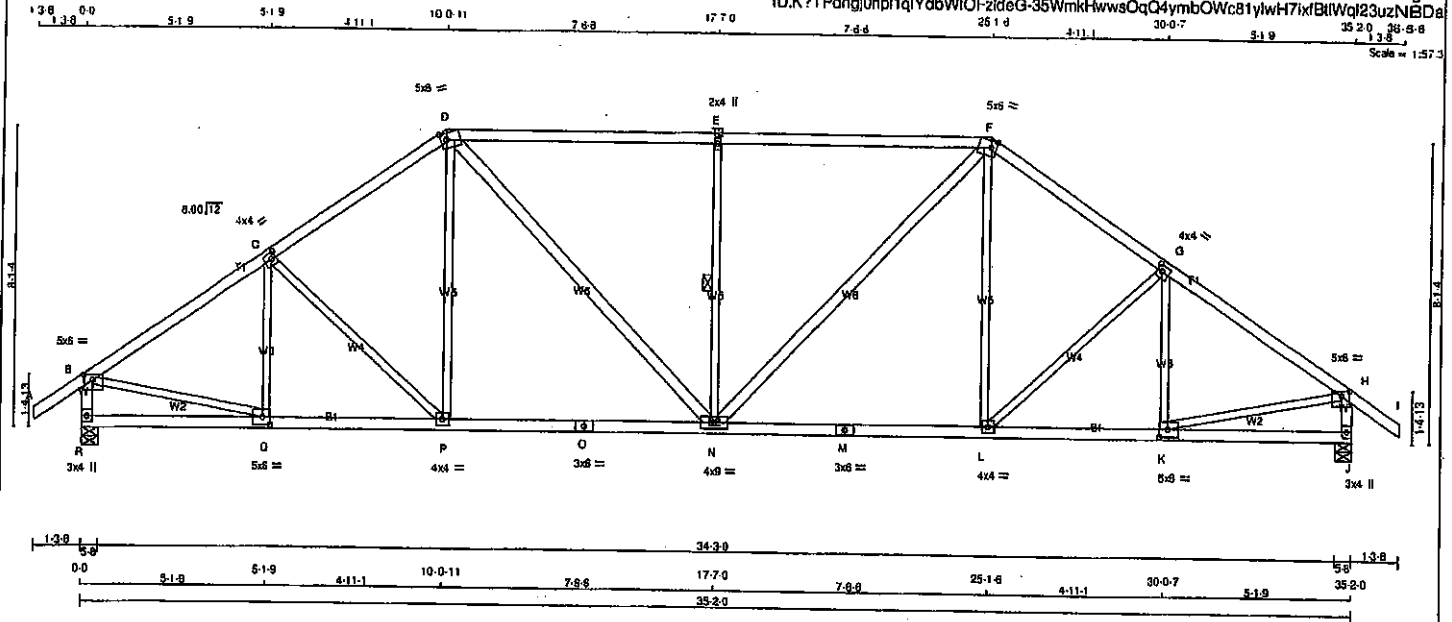


Structural component only
DWG# T-2007148

JOB NAME 408169	TRUSS NAME T24	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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

DRY: SEASONED LUMBER.

JT TYPE	PLATES	W	LEN	Y	X
B	TMW-p	MT20	5.0	6.0	1.75 2.75
C	TMW-w	MT20	4.0	4.0	2.00 1.60
D	TMW-m	MT20	5.0	6.0	2.25 1.75
E	TMW-w	MT20	2.0	4.0	
F	TMW-m	MT20	5.0	6.0	2.25 1.75
G	TMW-w	MT20	4.0	4.0	2.00 1.60
H	TMW-p	MT20	5.0	6.0	1.75 2.75
J	BMV1-p	MT20	3.0	4.0	
K	BMW1-t	MT20	5.0	6.0	2.50 2.75
L	BMW1-t	MT20	4.0	4.0	
M	BS-t	MT20	3.0	6.0	
N	BMW1-w	MT20	4.0	9.0	
O	BS-t	MT20	3.0	8.0	
P	BMW1-t	MT20	4.0	4.0	
Q	BMW1-t	MT20	5.0	6.0	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 GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
R	2065	0	2065	0	0	5-8	5-8	5-8	5-8
J	2065	0	2065	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
R	1458	970/0	0/0	0/0	0/0	488/0	0/0
J	1458	970/0	0/0	0/0	0/0	488/0	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 = 3.47 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-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		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)	MAX. CSI (LC)	MEMB.
FR-TO				FR-TO			
A-B	0/35	-91.8	-91.8 0.12 (1)	Q-C	-321/0	0.11 (1)	
B-C	-2318/0	-91.8	-91.8 0.38 (1)	Q-P	-218/0	0.18 (1)	
C-D	-2186/0	-91.8	-91.8 0.37 (1)	P-D	0/266	0.08 (1)	
D-E	-2274/0	-91.8	-91.8 0.81 (1)	D-N	0/691	0.11 (1)	
E-F	-2274/0	-91.8	-91.8 0.81 (1)	N-E	-851/0	0.35 (1)	
F-G	-2185/0	-91.8	-91.8 0.37 (1)	N-F	0/691	0.11 (1)	
G-H	-2317/0	-91.8	-91.8 0.38 (1)	L-F	0/266	0.08 (1)	
H-I	0/35	-91.8	-91.8 0.12 (1)	L-G	-218/0	0.18 (1)	
R-B	-2022/0	0.0	0.0 0.21 (1)	K-G	-321/0	0.11 (1)	
J-H	-2022/0	0.0	0.0 0.21 (1)	B-Q	0/1995	0.45 (1)	
R-Q	0/0	-18.5	-18.5 0.10 (4)	K-H	0/1995	0.45 (1)	
Q-P	0/1995	-18.5	-18.5 0.40 (1)				
P-O	0/1794	-18.5	-18.5 0.41 (1)				
O-N	0/1794	-18.5	-18.5 0.41 (1)				
N-M	0/1794	-18.5	-18.5 0.41 (1)				
M-L	0/1794	-18.5	-18.5 0.41 (1)				
L-K	0/1953	-18.5	-18.5 0.40 (1)				
K-J	0/0	-18.5	-18.5 0.10 (4)				

TOTAL WEIGHT = 2 X 158 = 317 lb (M/F)

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 CBC 2018, CBC 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/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")

CSI: TC=0.81/1.00 (D-E:1), BC=0.41/1.00 (N-P:1),
WB=0.45/1.00 (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
(PSI) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

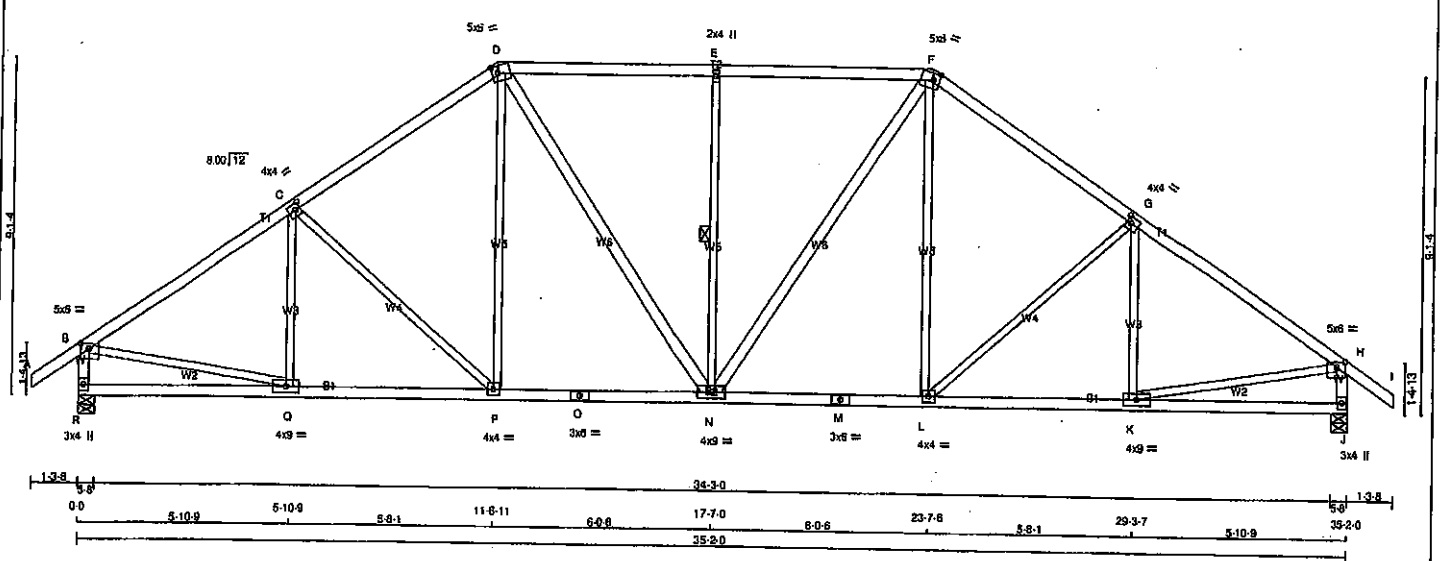
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.87 (B) (INPUT = 0.90)
JSI METAL = 0.64 (M) (INPUT = 1.00)



Structural component only
DWG# T-2007150

JOB NAME 408169	TRUSS NAME T25	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. Sat Apr 25 12:49:30 2020 Page 1 ID3K?TPdHgIOnp1qIYdbWIOFzIdG-XI48xdwYdyH8LnyE7Na9q9dX2TOe3ukU2bbKzNBDZ	



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
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			
D - N	2x4	DRY	No.2
N - F	2x4	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT TYPE	PLATES	W	LEN	Y	X
B TMWV-p	MT20	5.0	6.0	1.75	2.75
C TMWW-1	MT20	4.0	4.0	2.00	1.50
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	6.0	2.25	2.00
G TMWW-1	MT20	4.0	4.0	2.00	1.50
H TMWV-p	MT20	5.0	6.0	1.75	2.75
J BMV1-p	MT20	3.0	4.0		
K BMWW-1	MT20	4.0	9.0		
L BMWW-1	MT20	4.0	4.0		
M BS-1	MT20	3.0	6.0		
N BMWWV-1	MT20	4.0	9.0		
O BS-1	MT20	3.0	6.0		
P BMWW-1	MT20	4.0	4.0		
Q BMWW-1	MT20	4.0	9.0		
R BMV1-p	MT20	3.0	4.0		

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
R	2085	0	2085	0	5-8
J	2085	0	2085	0	5-8

UNFACTORED REACTIONS		1ST LOOSE	MAX/MIN	COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE	PERM.LIVE
R	1458	970 / 0	0 / 0	0 / 0
J	1458	970 / 0	0 / 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 = 3.99 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

† 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		MEMB.		WEBS	
MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FR-TO	MAX. UNBRACED LENGTH (FT)	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)
A-B	0 / 35	-91.8 -91.8 0.12 (1)	10.00	Q-C	-248 / 11
B-C	-2347 / 0	-91.8 -91.8 0.52 (1)	3.99	C-P	-356 / 0
C-D	-2086 / 0	-91.8 -91.8 0.48 (1)	4.22	P-D	0 / 342
D-E	-1985 / 0	-91.8 -91.8 0.49 (1)	4.26	D-N	0 / 477
E-F	-1985 / 0	-91.8 -91.8 0.49 (1)	4.26	N-E	-677 / 0
F-G	-2095 / 0	-91.8 -91.8 0.48 (1)	4.22	N-F	0 / 477
G-H	-2346 / 0	-91.8 -91.8 0.52 (1)	3.99	L-F	0 / 341
H-I	0 / 35	-91.8 -91.8 0.12 (1)	10.00	L-G	-356 / 0
R-B	-2018 / 0	0.0 0.0 0.21 (1)	5.94	K-G	-249 / 11
J-H	-2018 / 0	0.0 0.0 0.21 (1)	5.94	B-O	0 / 2014
R-Q	0 / 0	-18.5 -18.5 0.14 (4)	10.00	K-H	0 / 2014
Q-P	0 / 1981	-18.5 -18.5 0.39 (1)	10.00		
P-O	0 / 1716	-18.5 -18.5 0.34 (1)	10.00		
O-N	0 / 1716	-18.5 -18.5 0.34 (1)	10.00		
N-M	0 / 1716	-18.5 -18.5 0.34 (1)	10.00		
M-L	0 / 1716	-18.5 -18.5 0.34 (1)	10.00		
L-K	0 / 1980	-18.5 -18.5 0.39 (1)	10.00		
K-J	0 / 0	-18.5 -18.5 0.14 (4)	10.00		

TOTAL WEIGHT = 2 X 165 = 329 lb

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, 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 (0.10)
ALLOWABLE DEFL.(TL) = L/360 (1.17)
CALCULATED VERT. DEFL.(TL) = L/999 (0.19)

CSI: TC=0.52/1.00 (B-C:1), BC=0.39/1.00 (P-Q:1), WB=0.45/1.00 (B-Q:1), SS=0.27/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PS) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1666

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

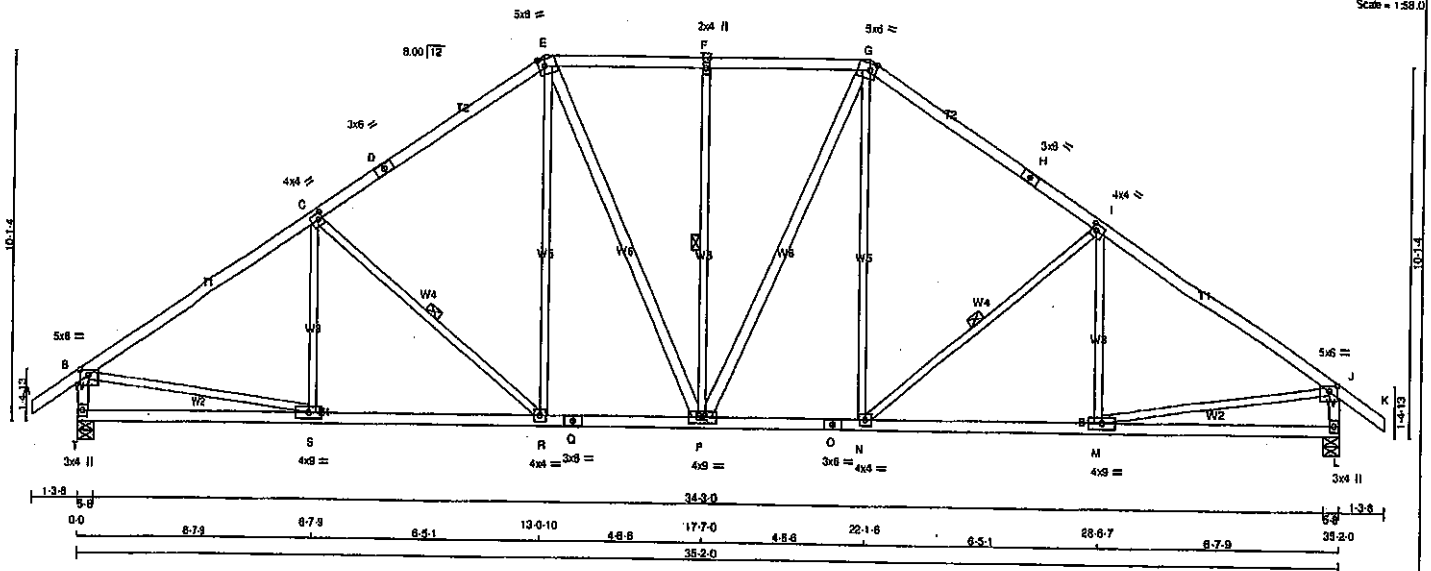
JSI GRIP= 0.87 (B) (INPUT = 0.90)
JSI METAL= 0.56 (M) (INPUT = 1.00)



Structural component only
DWG# T-2007 151

JOB NAME 408169	TRUSS NAME T26	QUANTITY 5	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:K7TPdhgJ0npl1qYdbWfOfzIdG-TgCuMjyo9JC7yPVA3e9rfawTUK7TsYXBCoXigOzNBDOX
Scale = 1:50.0



LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
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 - Q	2x4	DRY	No.2
Q - O	2x4	DRY	No.2
O - L	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
E - P	2x4	DRY	No.2
P - G	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	1.75 2.75
C TMVW-1	MT20	4.0	4.0	2.00 1.50
D TS-1	MT20	3.0	6.0	
E TTWW-m	MT20	5.0	8.0	2.25 2.00
F TMVW-w	MT20	2.0	4.0	
G TTWW-m	MT20	5.0	8.0	2.25 2.00
H TS-1	MT20	3.0	6.0	
I TMVW-t	MT20	4.0	4.0	2.00 1.50
J TMVW-p	MT20	5.0	6.0	1.75 2.75
L BMV1+p	MT20	3.0	4.0	
M BMVW-1	MT20	4.0	9.0	
N BMVW-1	MT20	4.0	4.0	
O BS-1	MT20	3.0	6.0	
P BMVWVW-t	MT20	4.0	9.0	
Q BS-1	MT20	3.0	6.0	
R BMVW-1	MT20	4.0	4.0	
S BMVW-1	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

FACTORED		MAXIMUM FACTORED		INPUT		RECORD	
GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
T	2065	0	2065	0	5-8	5-8	5-8
L	2065	0	2065	0	5-8	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
T	1458	970 / 0	0 / 0	0 / 0	0 / 0	488 / 0	0 / 0
L	1458	970 / 0	0 / 0	0 / 0	0 / 0	488 / 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 = 3.77 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-R, 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)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	
FR-TO				FR-TO			
A-B	0 / 35	-91.8	-91.8 0.12 (1)	10.00	S-C	-189 / 46	0.10 (1)
B-C	-2359 / 0	-91.8	-91.8 0.69 (1)	3.77	C-R	-485 / 0	0.24 (1)
C-D	-1998 / 0	-91.8	-91.8 0.62 (1)	4.11	R-E	0 / 416	0.09 (1)
D-E	-1998 / 0	-91.8	-91.8 0.62 (1)	4.11	E-P	0 / 315	0.05 (1)
E-F	-1761 / 0	-91.8	-91.8 0.27 (1)	4.77	P-F	-502 / 0	0.35 (1)
F-G	-1761 / 0	-91.8	-91.8 0.27 (1)	4.77	P-G	0 / 315	0.05 (1)
G-H	-1998 / 0	-91.8	-91.8 0.62 (1)	4.11	N-G	0 / 416	0.09 (1)
H-I	-1998 / 0	-91.8	-91.8 0.62 (1)	4.11	N-I	-484 / 0	0.24 (1)
I-J	-2358 / 0	-91.8	-91.8 0.69 (1)	3.77	M-I	-189 / 46	0.10 (1)
J-K	0 / 35	-91.8	-91.8 0.12 (1)	10.00	B-S	0 / 2022	0.45 (1)
T-B	-2014 / 0	0.0	0.0 0.21 (1)	5.95	M-J	0 / 2021	0.45 (1)
L-J	-2014 / 0	0.0	0.0 0.21 (1)	5.95			
T-S	0 / 0	-18.5	-18.5 0.19 (4)	10.00			
S-R	0 / 1996	-18.5	-18.5 0.42 (1)	10.00			
R-Q	0 / 1929	-18.5	-18.5 0.32 (1)	10.00			
Q-P	0 / 1929	-18.5	-18.5 0.32 (1)	10.00			
P-O	0 / 1929	-18.5	-18.5 0.32 (1)	10.00			
O-N	0 / 1929	-18.5	-18.5 0.32 (1)	10.00			
N-M	0 / 1995	-18.5	-18.5 0.42 (1)	10.00			
M-L	0 / 0	-18.5	-18.5 0.19 (4)	10.00			

TOTAL WEIGHT = 5 X 172 = 858 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. 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 086-08, 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) = L/999 (0.09)
ALLOWABLE DEFL.(TL) = L/360 (1.17)
CALCULATED VERT. DEFL.(TL) = L/999 (0.18)

CS: TC=0.69/1.00 (B-C:1), BC=0.42/1.00 (R-S:1),
WB=0.45/1.00 (B-S: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
(PS) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1867 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

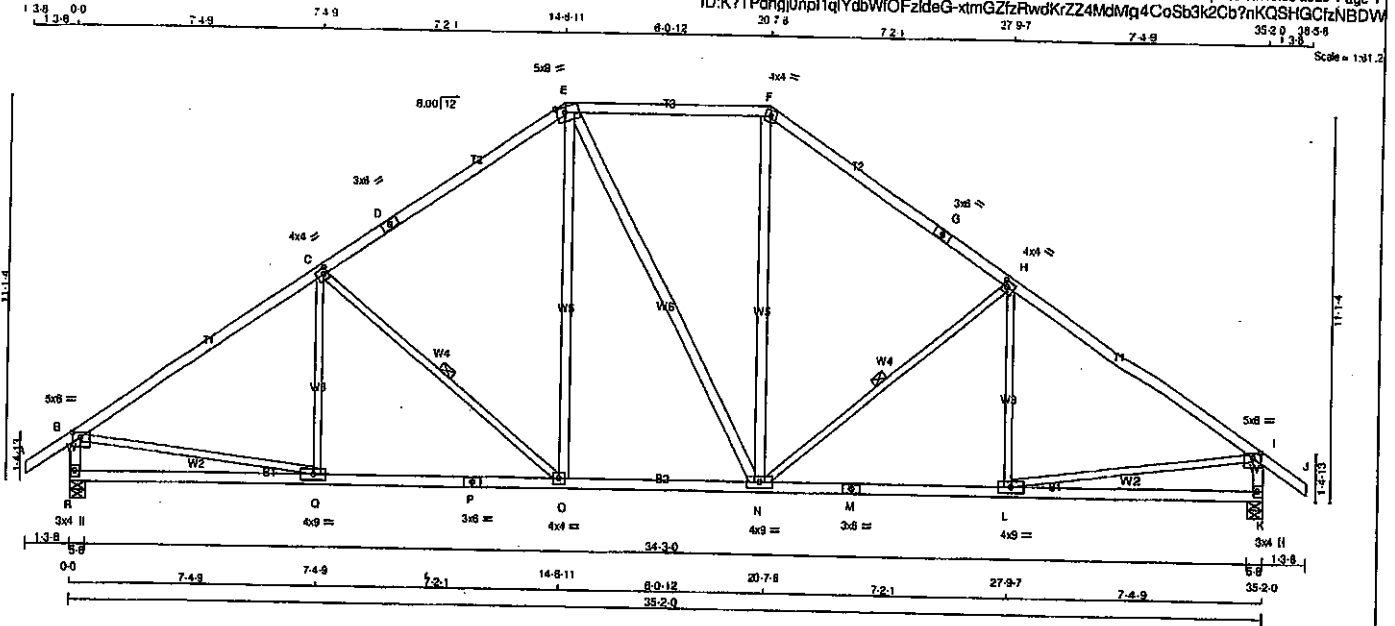
JSI GRIP= 0.87 (B) (INPUT = 0.90)
JSI METAL= 0.50 (C) (INPUT = 1.00)



Structural component only
DWG# T-2007152

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408169	T27	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					

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LUMBER		
N. L. G. A. RULES		
CHORDS	SIZE	LUMBER
A - D	2x4	DRY No.2
D - E	2x4	DRY No.2
E - F	2x4	DRY No.2
F - G	2x4	DRY No.2
G - J	2x4	DRY No.2
R - B	2x4	DRY No.2
K - I	2x4	DRY No.2
R - P	2x4	DRY No.2
P - M	2x4	DRY No.2
M - K	2x4	DRY No.2
ALL WEBS EXCEPT	2x3	DRY No.2
O - E	2x4	DRY No.2
E - N	2x4	DRY No.2
N - 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	1.75	2.75
C	TMVW-1	MT20	4.0	4.0	2.00	1.60
D	TS-1	MT20	3.0	6.0		
E	TTW-m	MT20	5.0	8.0	2.00	3.00
F	TTW-m	MT20	4.0	4.0		
G	TS-1	MT20	3.0	6.0		
H	TMVW-1	MT20	4.0	4.0	2.00	1.50
I	TMVW-p	MT20	5.0	6.0	1.75	2.75
K	BMV1-p	MT20	3.0	4.0		
L	BMVW-1	MT20	4.0	9.0		
M	BS-1	MT20	3.0	6.0		
N	BMVW-1	MT20	4.0	9.0		
O	BMVW-1	MT20	4.0	4.0		
P	BS-1	MT20	3.0	6.0		
Q	BMVW-1	MT20	4.0	9.0		
R	BMV1-p	MT20	3.0	4.0		

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

FACTORED		MAXIMUM FACTORED		INPUT		REQD	
GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	JT	HORZ	JT	IN-SX	JT	IN-SX
R	2065	0	2065	0	5-8	5-8	
K	2065	0	2065	0	5-8	5-8	

UNFACTORED REACTIONS

JT	1ST LCASE	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
R	1458	970 / 0	0 / 0	0 / 0	0 / 0	488 / 0	0 / 0
K	1458	970 / 0	0 / 0	0 / 0	0 / 0	488 / 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 = 3.45 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 LATERAL BRACE(S) AT 1/2 LENGTH OF C-O, H-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		FACTORED			WEBS			
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LCI	MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FORCE (LBS)	FACTORED MAX CSI (LC)
FR-TO		FROM	TO			FR-TO		
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00	C-Q	-139 / 76	0.08 (1)
B-C	-2358 / 0	-91.8	-91.8	0.89 (1)	3.45	C-O	-605 / 0	0.38 (1)
C-D	-1888 / 0	-91.8	-91.8	0.78 (1)	3.91	O-E	0 / 499	0.08 (1)
D-E	-1888 / 0	-91.8	-91.8	0.78 (1)	3.91	E-N	0 / 0	0.00 (7)
E-F	-1538 / 0	-91.8	-91.8	0.47 (1)	4.74	N-F	0 / 500	0.08 (1)
F-G	-1888 / 0	-91.8	-91.8	0.78 (1)	3.91	N-H	-604 / 0	0.38 (1)
G-H	-1888 / 0	-91.8	-91.8	0.78 (1)	3.91	L-H	-140 / 75	0.08 (1)
H-I	-2357 / 0	-91.8	-91.8	0.89 (1)	3.45	B-Q	0 / 2020	0.45 (1)
I-J	0 / 35	-91.8	-91.8	0.12 (1)	10.00	L-I	0 / 2019	0.45 (1)
R-B	-2009 / 0	0.0	0.0	0.21 (1)	5.95			
K-I	-2009 / 0	0.0	0.0	0.21 (1)	5.95			
R-Q	0 / 0	-18.5	-18.5	0.25 (4)	10.00			
Q-P	0 / 1999	-18.5	-18.5	0.45 (1)	10.00			
P-O	0 / 1999	-18.5	-18.5	0.45 (1)	10.00			
O-N	0 / 1538	-18.5	-18.5	0.33 (1)	10.00			
N-M	0 / 1998	-18.5	-18.5	0.45 (1)	10.00			
M-L	0 / 1998	-18.5	-18.5	0.45 (1)	10.00			
L-K	0 / 0	-18.5	-18.5	0.24 (4)	10.00			

TOTAL WEIGHT = 2 X 166 = 333 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. 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
- TFC 2011, TFC 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 (0.09")
ALLOWABLE DEFL. (TL) = L/360 (1.17")
CALCULATED VERT. DEFL. (TL) = L/999 (0.20")

CS: TC=0.89/1.00 (B-C:1), BC=0.45/1.00 (O-Q:1), WB=0.45/1.00 (B-Q: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) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1666

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.80 (F) (INPUT = 0.80)
JSI METAL=0.83 (F) (INPUT = 1.00)



Structural component only
DWG# T-2007153

CONTINUED ON PAGE 2

JOB NAME 408169	TRUSS NAME T28	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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PLATES (table in inches)

IT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-i	MT20	5.0	6.0	2.50	1.75
C	TTWW-m	MT20	5.0	6.0	2.00	1.50
D	TMVW-i	MT20	4.0	4.0		
E	TMVW-w	MT20	2.0	4.0		
F	TTWW-m	MT20	5.0	6.0	2.00	1.50
G	TMVW-p	MT20	5.0	6.0	Edge	
H	BMV1-p	MT20	3.0	6.0		
I, L, M						
I	BMVW-i	MT20	5.0	6.0		
J	BMVWW-i	MT20	5.0	6.0		
K	BS-i	MT20	5.0	6.0		
N	BMV1-p	MT20	3.0	6.0		

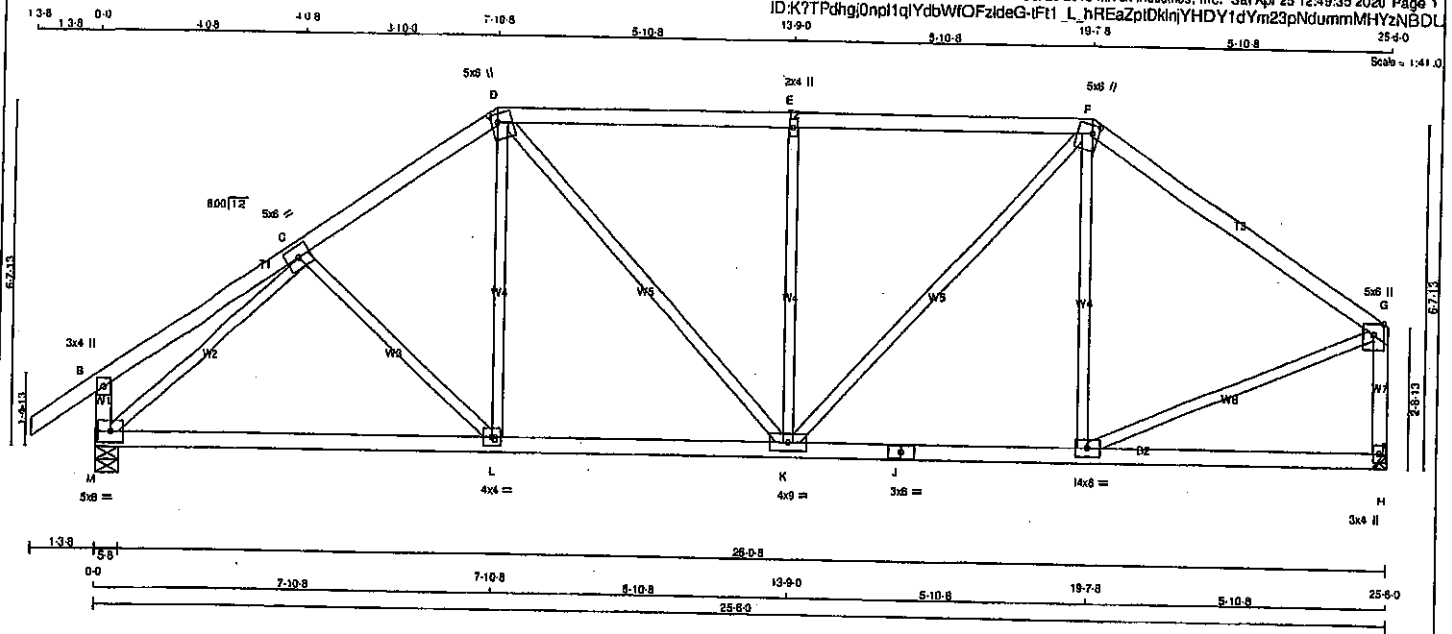
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.



Structural component only
DWG# T-2007154

JOB NAME 408169	TRUSS NAME T29	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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CHORDS	SIZE	DRY	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	No.2	SPF
F - G	2x4	DRY	No.2	SPF
M - B	2x4	DRY	No.2	SPF
H - G	2x4	DRY	No.2	SPF
M - J	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)	W	LEN	Y	X
BT TMV+p	MT20	3.0	4.0	
C TMVW-t	MT20	5.0	6.0	
D TTWW+m	MT20	5.0	6.0	2.00 1.50
E TMVW+m	MT20	2.0	4.0	
F TTWW+m	MT20	5.0	6.0	2.00 1.50
G TMVW+p	MT20	5.0	6.0	Edge
H BMV1+p	MT20	3.0	4.0	
I BMVW-t	MT20	4.0	6.0	
J BS-t	MT20	3.0	6.0	
K BMVW-t	MT20	4.0	6.0	
L BMVW-t	MT20	4.0	6.0	
M BMVW-t	MT20	5.0	6.0	

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

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

FACTORED	MAXIMUM FACTORED	INPUT	REQD
GROSS REACTION	GROSS REACTION	BRG	BRG
DOWN	HORIZ	UPLIFT	IN-SX
1532	0	0	5-8
1406	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	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
1081	723 / 0	0 / 0	0 / 0	0 / 0	358 / 0	0 / 0
984	652 / 0	0 / 0	0 / 0	0 / 0	342 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.89 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	MAX. FACTORED	FACTORED	MAX. FACTORED	WEBS	MAX. FACTORED	FACTORED	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD (LBS)	LC1 MAX (LBS)	MEMB.	FORCE (LBS)	MAX. (LBS)	LC1 MAX (LBS)
FR-TO				FR-TO			
A-B	0 / 35	-91.8	-91.8 0.12 (1)	10.00	C-L	-80 / 27	0.04 (1)
B-C	0 / 22	-91.8	-91.8 0.22 (1)	10.00	L-D	0 / 209	0.05 (4)
C-D	-1491 / 0	-91.8	-91.8 0.19 (1)	5.19	D-K	0 / 354	0.08 (1)
D-E	-1484 / 0	-91.8	-91.8 0.44 (1)	4.89	K-E	-662 / 0	0.48 (1)
E-F	-1484 / 0	-91.8	-91.8 0.44 (1)	4.89	K-F	0 / 863	0.15 (1)
F-G	-1228 / 0	-91.8	-91.8 0.44 (1)	5.25	I-F	-282 / 0	0.21 (1)
M-B	-266 / 0	0.0	0.0 0.03 (1)	7.61	M-C	-1757 / 0	0.83 (1)
H-G	-1362 / 0	0.0	0.0 0.20 (1)	6.98	I-G	0 / 1098	0.25 (1)
M-L	0 / 1279	-18.5	-18.5 0.36 (4)	10.00			
L-K	0 / 1223	-18.5	-18.5 0.36 (4)	10.00			
K-J	0 / 1014	-18.5	-18.5 0.28 (1)	10.00			
J-I	0 / 1014	-18.5	-18.5 0.26 (1)	10.00			
I-H	0 / 0	-18.5	-18.5 0.17 (4)	10.00			

TOTAL WEIGHT = 109 lb (M/F)

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, 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 (0.85")
CALCULATED VERT. DEFL. (LL) = 1/999 (0.05")
ALLOWABLE DEFL. (TL) = L/360 (0.85")
CALCULATED VERT. DEFL. (TL) = 1/999 (0.15")

CSI: TC=0.44/1.00 (F/G:1), BC=0.38/1.00 (K-L:4), WB=0.83/1.00 (C-M:1), SS=0.26/1.00 (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

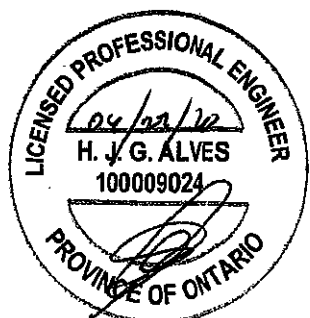
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1867 788 1867 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.82 (D) (INPUT = 0.90)
JSI METAL = 0.51 (G) (INPUT = 1.00)

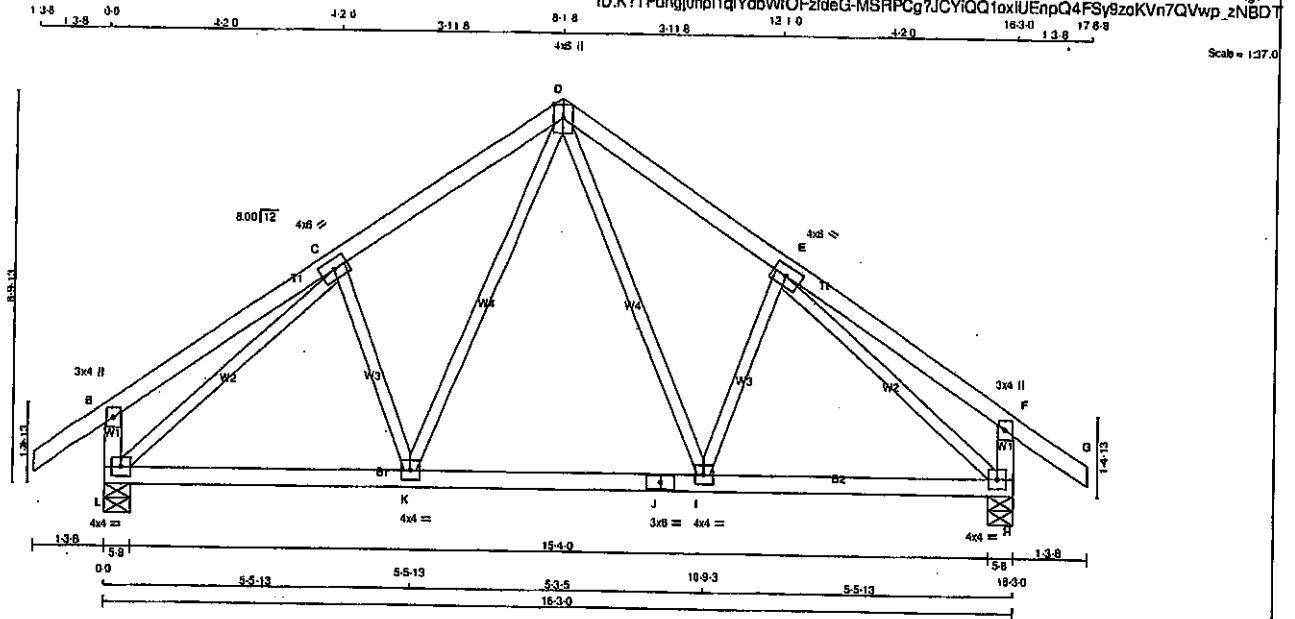


Structural component only
DWG# T-2007155

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408169	T30	2	1	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

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LUMBER	N. L. G. A. RULES	CHORDS	SIZE	DRY	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

DRY: SEASONED LUMBER.

PLATES (tablets in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0		
C	TMWW-t	MT20	4.0	8.0		
D	TTWW+p	MT20	4.0	8.0	Edge	
E	TMWW-t	MT20	4.0	8.0		
F	TMV+p	MT20	3.0	4.0		
H	BMVW1-t	MT20	4.0	4.0		
I	BMVW-t	MT20	4.0	4.0		
J	BS-t	MT20	3.0	8.0		
K	BMVW-t	MT20	4.0	4.0		
L	BMVW1-t	MT20	4.0	4.0		

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

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	RECORD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	DOWN	IN-SX	IN-SX
L	1022	0	5-8	5-8
H	1022	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LOASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
L	720	488 / 0	0 / 0	0 / 0	0 / 0	234 / 0	0 / 0
H	720	488 / 0	0 / 0	0 / 0	0 / 0	234 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	UNBRAC	MEMB.	WEBS	MAX. FACTORED	FACTORED
		(LBS)	(PLF)			(LC)	LENGTH			(LBS)	(LBS)
FR-TO			FROM	TO				FR-TO			
A-B	0 / 35	-91.8	-91.8	0.12 (1)	10.00	D-I	0 / 336	0.08 (1)			
B-C	0 / 24	-91.8	-91.8	0.24 (1)	10.00	I-E	-217 / 0	0.06 (1)			
C-D	-845 / 0	-91.8	-91.8	0.19 (1)	6.25	K-D	0 / 336	0.08 (1)			
D-E	-845 / 0	-91.8	-91.8	0.19 (1)	6.25	C-K	-217 / 0	0.06 (1)			
E-F	0 / 24	-91.8	-91.8	0.24 (1)	10.00	L-C	-1042 / 0	0.52 (1)			
F-G	0 / 35	-91.8	-91.8	0.12 (1)	10.00	E-H	-1042 / 0	0.52 (1)			
L-B	-288 / 0	0.0	0.0	0.03 (1)	7.81						
H-F	-288 / 0	0.0	0.0	0.03 (1)	7.81						
L-K	0 / 782	-18.5	-18.5	0.19 (1)	10.00						
K-J	0 / 557	-18.5	-18.5	0.17 (4)	10.00						
J-I	0 / 557	-18.5	-18.5	0.17 (4)	10.00						
I-H	0 / 782	-18.5	-18.5	0.19 (1)	10.00						

TOTAL WEIGHT = 2 X 72 = 145 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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBCG 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 (0.54")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.54")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.24/1.00 (B-C:1), BC=0.19/1.00 (H-I:1),
WB=0.52/1.00 (C-L:1), SS=0.15/1.00 (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.

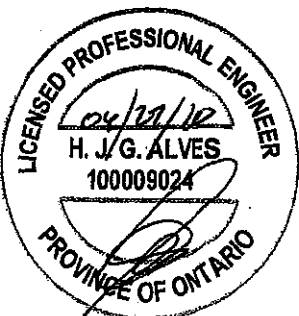
NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1867 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= 0.29 (L) (INPUT = 1.00)

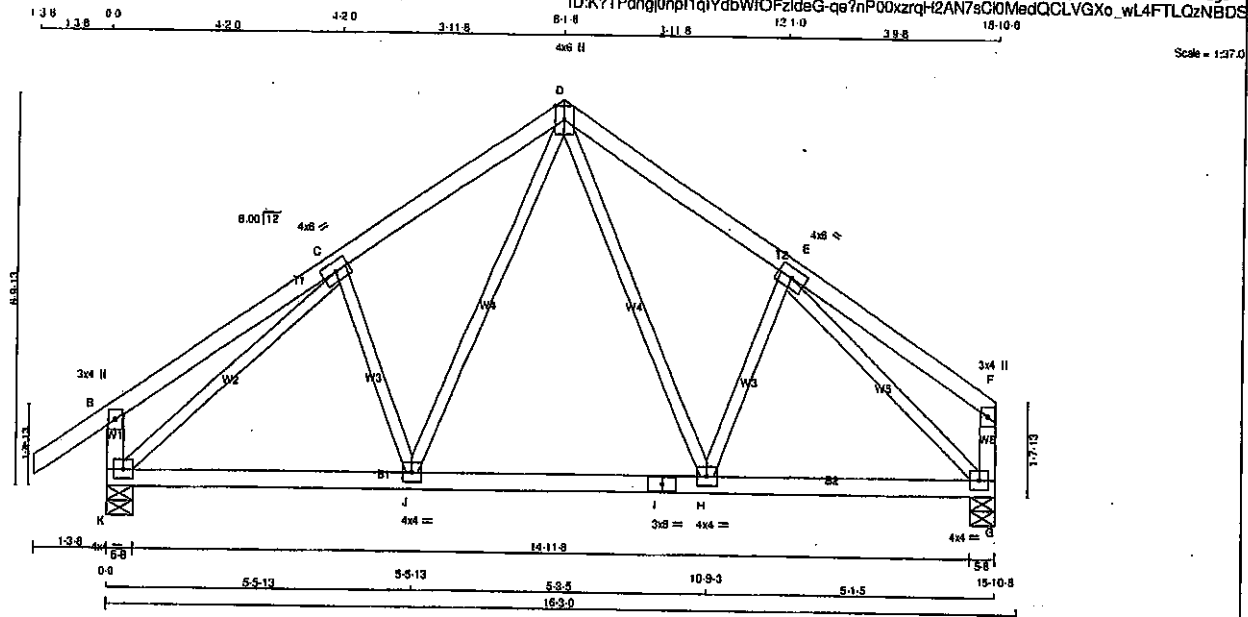


Structural component only
DWG# T-2007156

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408169	T30A	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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LUMBER	N. L. & A. RULES	CHORDS	SIZE	DRY	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF		
D - F	2x4	DRY	No.2	SPF		
K - B	2x4	DRY	No.2	SPF		
G - F	2x4	DRY	No.2	SPF		
K - I	2x4	DRY	No.2	SPF		
I - 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 TMV+P	MT20	3.0	4.0		
C TMVW+T	MT20	4.0	6.0		
D TMVW+P	MT20	4.0	6.0	Edge	
E TMVW+T	MT20	4.0	6.0		
F TMV+P	MT20	3.0	4.0		
G BMVW+T	MT20	4.0	4.0		
H BMVW+T	MT20	4.0	4.0		
I BS+T	MT20	3.0	6.0		
J BMVW+T	MT20	4.0	4.0		
K BMVW+T	MT20	4.0	4.0		

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

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

BEARINGS

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT	REQD
GROSS REACTION		GROSS REACTION		GROSS REACTION		BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	N-SX	IN-SX
K	1001	0	1001	0	0	5-8	5-8
G	875	0	875	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LOASE	MAX MIN COMPONENT REACTIONS	PERM	LIVE	WIND	DEAD	SOIL
K	COMBINED	SNOW	0/0	0/0	0/0	229/0	0/0
G	618	408/0	0/0	0/0	0/0	213/0	0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) K, 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	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	WEBS	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)
FR-TO					FR-TO			
A-B	0/35	-91.8	-91.8	0.12 (1)	D-H	0/272	0.06 (1)	
B-C	0/24	-91.8	-91.8	0.24 (1)	H-E	-160/2	0.05 (1)	
C-D	-617/0	-91.8	-91.8	0.19 (1)	J-D	0/342	0.08 (1)	
D-E	-788/0	-91.8	-91.8	0.18 (1)	C-J	-222/0	0.08 (1)	
E-F	0/24	-91.8	-91.8	0.22 (1)	K-C	-1012/0	0.51 (1)	
K-B	-268/0	0.0	0.0	0.03 (1)	E-G	-992/0	0.44 (1)	
G-F	-124/0	0.0	0.0	0.01 (1)				
K-J	0/740	-18.5	-18.5	0.18 (1)				
J-I	0/531	-18.5	-18.5	0.17 (4)				
I-H	0/531	-18.5	-18.5	0.17 (4)				
H-G	0/591	-18.5	-18.5	0.17 (1)				

TOTAL WEIGHT = 2 X 70 = 140 LB

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 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 (0.53")

CALCULATED VERT. DEFL.(LL) = L/999 (0.02")

ALLOWABLE DEFL.(TL) = L/360 (0.53")

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

CSI: TG=0.24/1.00 (B-C:1), BC=0.18/1.00 (J-K:1),

WB=0.51/1.00 (C-K:1), SB=0.15/1.00 (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	1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

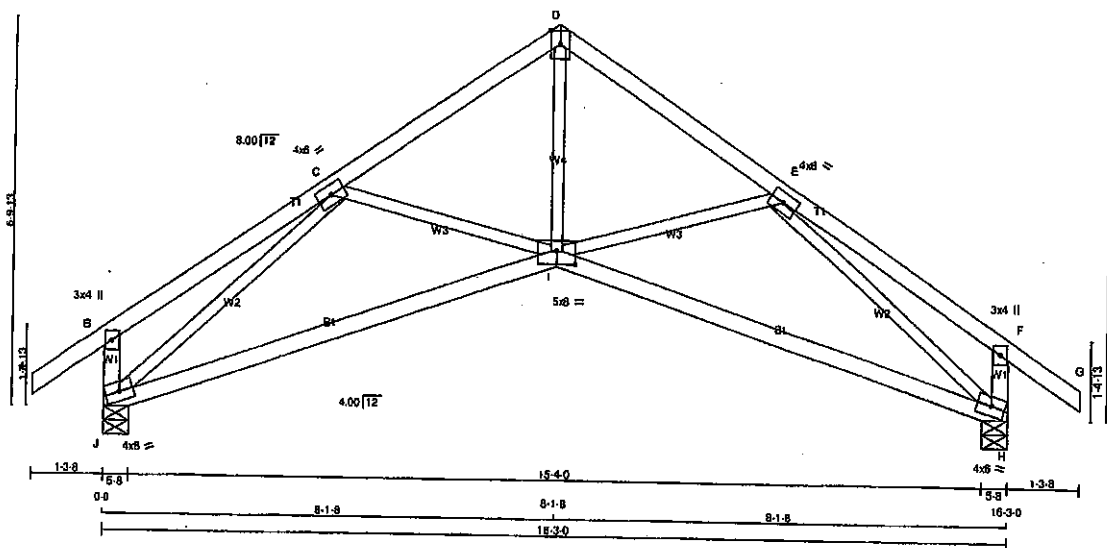
JSI METAL= 0.28 (K) (INPUT = 1.00)



Structural component only
DWG# T-2007157

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408169	T30S	2	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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 IDJK?TPdngj0npl1qYdbWfOfzdeG-lqZ9cm1Zk9y8gKyQuGFwAbElmYGAw4ak_1us2NBDR
 Scale = 1:37.5



LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			
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 - I	2x4	DRY	No.2
I - H	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			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-p	MT20	4.0	8.0		
D TTW+p	MT20	4.0	8.0	Edge	
E TMWW-p	MT20	4.0	8.0		
F TMV+p	MT20	3.0	4.0		
H BMVW1-p	MT20	4.0	8.0		
I BWVW1-p	MT20	5.0	8.0	2.75	4.00
J BMVW1-p	MT20	4.0	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	
JT	VERT	GROSS REACTION	HORZ	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
J	1022	0	1022	0	0	5-8	5-8	5-8	5-8
H	1022	0	1022	0	0	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
J	720	488 / 0	0 / 0	0 / 0	0 / 0	234 / 0	0 / 0
H	720	488 / 0	0 / 0	0 / 0	0 / 0	234 / 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 = 5.76 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FR-TO	
A-B	0 / 35	I-D	0 / 942
B-C	0 / 22	I-E	-143 / 11
C-D	-1134 / 0	C-I	-143 / 11
D-E	-1134 / 0	J-C	-1478 / 0
E-F	0 / 22	E-H	-1478 / 0
F-G	0 / 35		
J-B	-273 / 0		
H-F	-273 / 0		
J-I	0 / 1120		
I-H	0 / 1120		

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 NBCC 2010, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-09, CSA 086-14
- 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 (0.54")
 CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
 ALLOWABLE DEFL.(TL) = L/360 (0.54")
 CALCULATED VERT. DEFL.(TL) = L/769 (0.25")

CS: TC=0.22/1.00 (E-F:1), BC=0.44/1.00 (H-I:4), WB=0.78/1.00 (J-I:1), SS=0.15/1.00 (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) (PL) (PL)
 MAX MIN MAX MIN MAX MIN
 MT20 818 354 1667 768 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

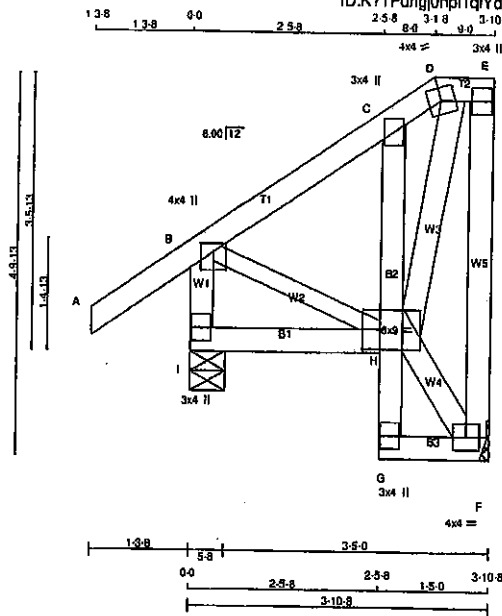
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (H) (INPUT = 0.90)
 JSI METAL = 0.35 (H) (INPUT = 1.00)



Structural component only
 DWG# T-2007158

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408169	T31S	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	



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

PLATES (Table is in inches)			
JT	TYPE	W	LEN Y X
B	BMVW+p	MT20	4.0 4.0 1.25 2.00
C	BMVW+p	MT20	3.0 4.0
D	TTW-m	MT20	4.0 4.0
E	TTW-m	MT20	3.0 4.0
F	BMVW1-i	MT20	4.0 4.0
G	BMVW+p	MT20	3.0 4.0
H	BMVWWV-i	MT20	6.0 9.0 3.00 2.75
I	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
F	193	0	193	0	0	MECHANICAL	
I	381	0	381	0	0	5-8	5-8

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

UNFACTORED REACTIONS							
1ST CASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	136	88/0	0/0	0/0	0/0	49/0	0/0
I	252	181/0	0/0	0/0	0/0	72/0	0/0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (5)

CHORDS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CS (LC)
FR-TO			
A-B	0/35	-91.8	-91.8 0.14 (5)
B-C	-87/0	-91.8	-91.8 0.09 (1)
C-D	-99/0	-91.8	-91.8 0.07 (1)
D-E	-11/0	-91.8	-91.8 0.07 (1)
E-F	-148/0	0.0	0.0 0.04 (1)
F-G	-327/0	0.0	0.0 0.02 (4)
G-H	0/8	-18.5	-18.5 0.03 (4)
H-I	-2/8	0.0	0.0 0.05 (1)
I-J	-203/0	0.0	0.0 0.04 (1)
J-K	0/30	-18.5	-18.5 0.03 (1)

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 29.5

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

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

(66% 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) = U/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = U/999 (0.01")

CSR: TC=0.14/1.00 (A-B-S), BC=0.05/1.00 (G-H-I), WB=0.03/1.00 (D-H-I), SS=0.12/1.00 (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

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 788 1987 1656

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)

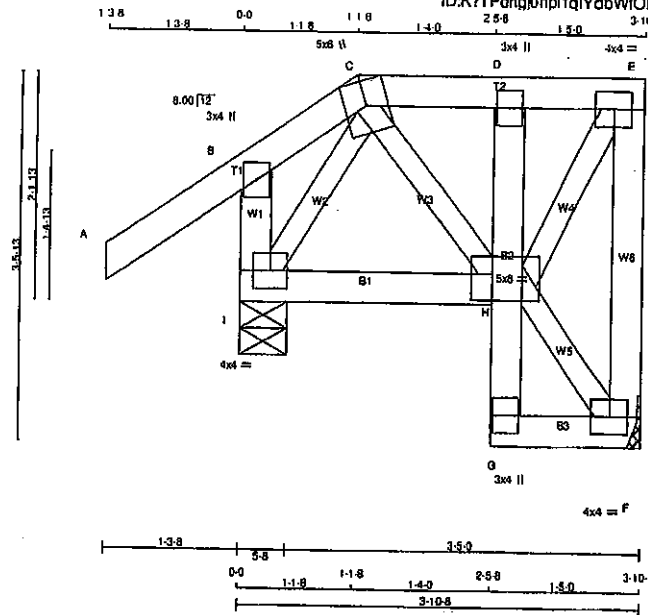


Structural component only
DWG# T-2007159

JOB NAME 408169	TRUSS NAME T32S	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. Sat Apr 25 12:49:40 2020 Page 1
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Scale = 1:20.1



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
F - H	2x4	DRY	No.2
I - J	2x4	DRY	No.2
K - L	2x4	DRY	No.2
M - N	2x4	DRY	No.2
O - P	2x4	DRY	No.2
Q - R	2x4	DRY	No.2
S - T	2x4	DRY	No.2
U - V	2x4	DRY	No.2
W - X	2x4	DRY	No.2
Y - Z	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	3.0	4.0	
C	TTWW+m	MT20	5.0	8.0	Edge
D	TMV+p	MT20	3.0	4.0	
E	TMVW+1	MT20	4.0	4.0	
F	BMVW+1	MT20	4.0	4.0	
G	BMV+p	MT20	3.0	4.0	
H	BMVWW+1	MT20	5.0	8.0	3.00 2.50
I	BMVW+1	MT20	4.0	4.0	

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

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

BEARINGS						
	FACTORED		MAXIMUM FACTORED		INPUT	REQD
	GROSS REACTION		GROSS REACTION		BRG	BRG
JT	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX
F	191	0	191	0	MECHANICAL	
I	362	0	362	0	5-8	5-8

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

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

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	136	87 / -12	0 / 0	0 / 0	0 / 0	49 / 0	0 / 0
I	253	182 / 0	0 / 0	0 / 0	0 / 0	71 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS				WEBS			
MEMB.	MAX. FACTORED	FACTORED		MEMB.	MAX. FACTORED		
	FORCE (LBS)	VERT. LOAD (PLF)	CS (LC)		FORCE (LBS)	MAX. CS (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	0 / 35	-91.8	-91.8 0.14 (5)	C-H	0 / 60	0.01 (1)	
B-C	-41 / 0	-91.8	-91.8 0.13 (5)	H-F	-7 / 0	0.00 (1)	
C-D	-89 / 0	-91.8	-91.8 0.02 (1)	H-E	0 / 153	0.03 (1)	
D-E	-86 / 0	-91.8	-91.8 0.02 (1)	I-C	-100 / 34	0.02 (1)	
E-F	-175 / 0	0.0	0.0 0.03 (1)				
F-B	-253 / 0	0.0	0.0 0.03 (1)				
I-H	-18 / 59	-18.5	-18.5 0.04 (4)				
G-H	0 / 13	0.0	0.0 0.01 (1)				
H-D	-142 / 0	0.0	0.0 0.01 (1)				
G-F	0 / 5	-18.5	-18.5 0.01 (4)				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 25 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 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

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")

CS: TC=0.14/1.00 (A-B-5), BC=0.04/1.00 (H-I-4), WB=0.03/1.00 (E-H-1), SS=0.09/1.00 (A-B-5)

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 768 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.18 (E) (INPUT = 0.90)
JSI METAL = 0.09 (E) (INPUT = 1.00)

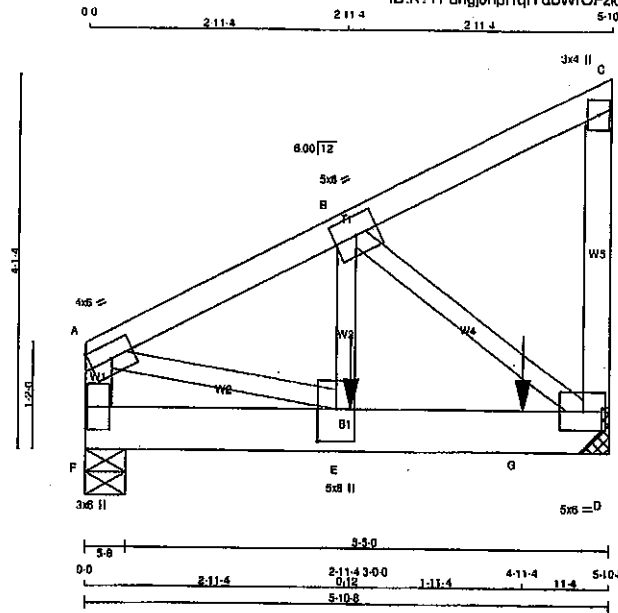


Structural component only
DWG# T-2007160

JOB NAME 408169	TRUSS NAME T33	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington		TRUSS DESC.		Version 8.310 S Oct 29 2019 Mittek Industries, Inc. Sat Apr 25 12:48:41 2020 Page 1	

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Scale = 1:23.3



LUMBER				N. L. G. A. RULES	
CHORDS	SIZE	LUMBER	DESCR.	SPF	SPF
F - A	2x4	DRY	No.2	SPF	SPF
A - C	2x4	DRY	No.2	SPF	SPF
D - C	2x4	DRY	No.2	SPF	SPF
F - D	2x6	DRY	No.2	SPF	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 (#)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
F - A 1	12	TOP
A - C 1	12	TOP
C - D 1	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
F - D 2	9	SIDE(305.2)
WEBS : (0.122"x3") SPIRAL NAILS		
B - E 1	2	SIDE(409.9)
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-t	MT20	4.0	6.0		Edge
B	TMVW-t	MT20	5.0	6.0		
C	TMVW-p	MT20	3.0	4.0		
D	BMVW-t	MT20	5.0	6.0		
E	BMVW-t	MT20	5.0	6.0	4.25	2.50

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
F	1914	0	1914	0
D	2859	0	2859	0

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX/MIN	COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
F	1348	916/0	0/0	0/0	0/0	434/0	0/0	
D	2015	1359/0	0/0	0/0	0/0	657/0	0/0	

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.59 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.

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
F-A	-1877/0	0.0	0.0 0.10 (1)	A-E	0/2380	0.29 (1)	
A-B	-2068/0	-91.8	-91.8 0.08 (1)	E-B	0/2808	0.32 (1)	
B-C	-7/0	-91.8	-91.8 0.09 (1)	B-D	-2898/0	0.35 (1)	
D-C	-120/0	0.0	0.0 0.01 (1)				
F-E	0/0	-18.5	-18.5 0.01 (1)				
E-G	0/2301	-18.5	-18.5 0.49 (1)				
G-D	0/2301	-18.5	-18.5 0.49 (1)				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LOC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	3-0-0	-2737	-2737	---	BACK	VERT	TOTAL	---	C1
G	4-11-4	-1388	-1388	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 29 = 58 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./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 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 (0.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL) = L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.10/1.00 (A-F:1), BC=0.49/1.00 (D-E:1), WB=0.35/1.00 (B-D:1), SS=0.33/1.00 (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.

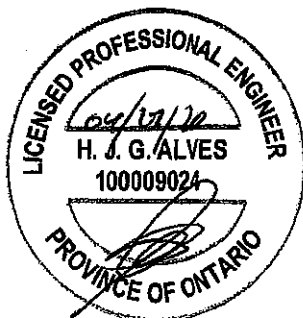
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.260 inches

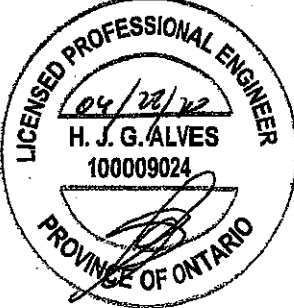
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.84 (B) (INPUT = 0.90)
JSI METAL= 0.44 (E) (INPUT = 1.00)



Structural component only
DWG# T-2007161 1/2

CONTINUED ON PAGE 2

JOB NAME 408169	TRUSS NAME T33	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.												
Tamarack Roof Truss, Burlington				Version 8.310 5 Oct 29 2019 Mitek Industries, Inc. Sat Apr 25 12:49:41 2020 Page 2 ID:K?TPdHgI0npl1qIYdbWIOFzIdeG-IPFIPO3S14LIXohu5IgyWUo8MznVTeTWGIdhUBzNBDO													
PLATES (table is in inches) <table border="1"><thead><tr><th>JT TYPE</th><th>PLATES</th><th>W</th><th>LEN</th><th>Y</th><th>X</th></tr></thead><tbody><tr><td>F 8MV1+p</td><td>MT20</td><td>3.0</td><td>6.0</td><td></td><td></td></tr></tbody></table> Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.						JT TYPE	PLATES	W	LEN	Y	X	F 8MV1+p	MT20	3.0	6.0		
JT TYPE	PLATES	W	LEN	Y	X												
F 8MV1+p	MT20	3.0	6.0														
 Structural component only DWG# T-2007161 3/2																	

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408170	T40	1	2	TRUSS DESC.		

Tamarack Root Truss, Burlington

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PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMW-1	MT20	5.0	8.0	
C	TTWW+m	MT20	5.0	6.0	2.00 2.25
D	TMWW-1	MT20	5.0	6.0	
E	TMW+w	MT20	3.0	6.0	
F	TS-1	MT20	5.0	6.0	
G	TMWW-1	MT20	5.0	6.0	
H	TTWW+m	MT20	5.0	6.0	2.00 2.25
I	TMW-1	MT20	5.0	8.0	
K	BMV1+p	MT20	3.0	6.0	
L	BMWW-1	MT20	5.0	6.0	2.50 2.50
M	BMWW-1	MT20	5.0	6.0	
N	BS-1	MT20	5.0	6.0	
O	BMWW-1	MT20	5.0	6.0	
P	BS-1	MT20	5.0	6.0	
Q	BMWW-1	MT20	5.0	6.0	
R	BMWW-1	MT20	5.0	6.0	2.50 2.50
S	BMV1+p	MT20	3.0	6.0	

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	5-10-8	-437	-437	---	FRONT	VERT	TOTAL	---	C1
E	17-7-0	-110	-110	---	FRONT	VERT	TOTAL	---	C1
H	29-3-8	-437	-437	---	FRONT	VERT	TOTAL	---	C1
L	29-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
N	21-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
O	17-7-0	-26	-26	---	FRONT	VERT	TOTAL	---	C1
P	13-11-4	-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	11-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
W	13-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
X	15-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Y	19-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Z	21-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AA	23-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AB	25-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AC	27-2-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
AD	1-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AE	3-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AF	7-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AG	9-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AH	11-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AI	15-11-4	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AJ	19-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AK	23-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AL	25-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AM	27-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AN	31-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1
AO	33-2-12	-26	-26	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

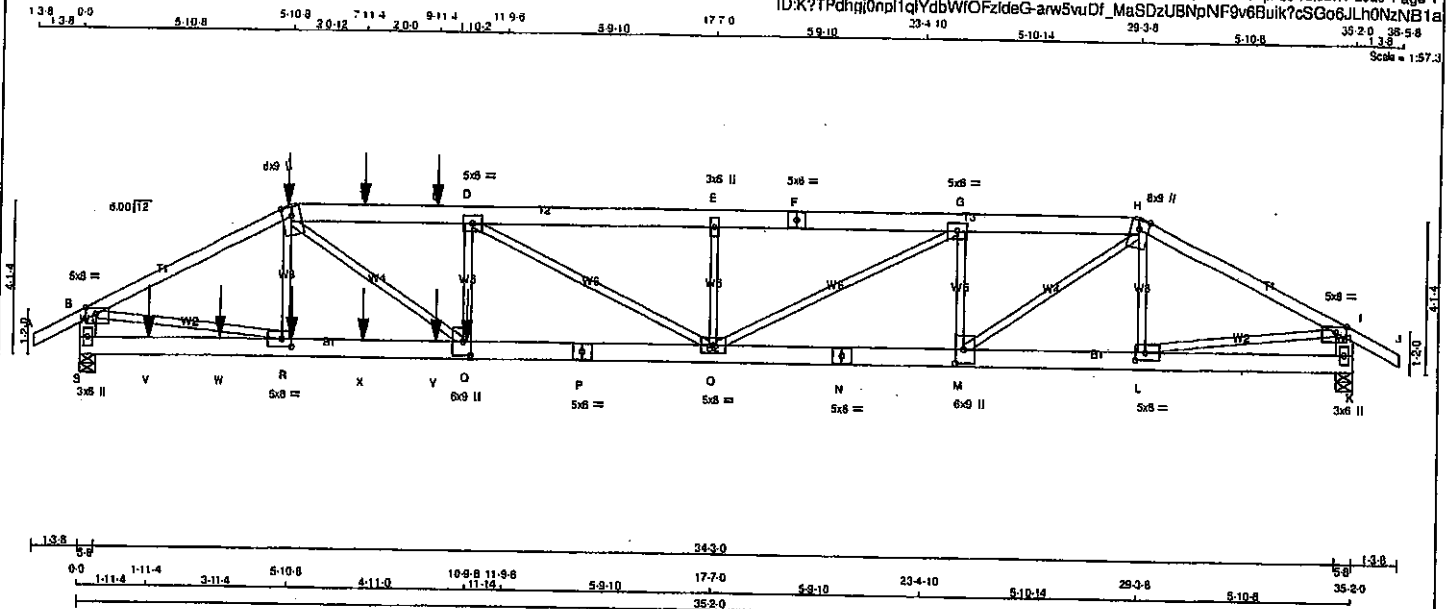


Structural component only
DWG# T-2007168

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408170	T40Z	1	2	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 29 2019 M/Tek Industries, Inc. Sat Apr 26 13:02:17 2020 Page 1
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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	
S - B	2x6	DRY	No.2	SPF	
K - I	2x6	DRY	No.2	SPF	
S - P	2x6	DRY	No.2	SPF	
P - N	2x6	DRY	No.2	SPF	
N - K	2x6	DRY	No.2	SPF	

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-C 1	12	SIDE(61.0)
H-J 1	12	TOP
C-F 2	12	SIDE(61.0)
F-H 2	12	TOP
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	TOP
N-K 2	12	TOP
WEBS : (0.122"x3") SPIRAL NAILS		
2x3 1	6	SIDE(525.1)
D-Q 1	3	
G-M 1	3	

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		REQD	
JT	GROSS REACTION	GROSS REACTION	DOWN	GROSS REACTION	UP	BRG	BRG	IN-SX	IN-SX
S	4582	0	4582	0	0	5-8	5-8		
K	3047	0	3047	0	0	5-8	5-8		

UNFACTORED REACTIONS		MAX./MIN. COMPONENT REACTIONS	
JT	1ST LOASE	MAX	MIN
S	COMBINED	2151 / 0	0 / 0
K	COMBINED	1436 / 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 = 3.15 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)
FR-TO	FROM TO		
A-B	0 / 28	-91.8	-91.8 0.07 (1)
B-C	-7293 / 0	-91.8	-91.8 0.72 (1)
C-T	-10549 / 0	-91.8	-91.8 0.34 (1)
T-U	-10549 / 0	-91.8	-91.8 0.34 (1)
U-D	-10549 / 0	-91.8	-91.8 0.34 (1)
D-E	-9485 / 0	-91.8	-91.8 0.31 (1)
E-F	-9485 / 0	-91.8	-91.8 0.29 (1)
F-G	-9485 / 0	-91.8	-91.8 0.20 (1)
G-H	-8956 / 0	-91.8	-91.8 0.17 (1)
H-I	-4608 / 0	-91.8	-91.8 0.48 (1)
I-J	0 / 28	-91.8	-91.8 0.07 (1)
S-B	-4503 / 0	0.0	0.0 0.16 (1)
K-I	-2990 / 0	0.0	0.0 0.11 (1)
S-V	0 / 0	-18.5	-18.5 0.06 (4)
V-W	0 / 0	-18.5	-18.5 0.06 (4)
W-R	0 / 0	-18.5	-18.5 0.06 (4)
R-X	0 / 6557	-18.5	-18.5 0.50 (1)
X-Y	0 / 6557	-18.5	-18.5 0.50 (1)
Y-Q	0 / 6557	-18.5	-18.5 0.50 (1)
Q-P	0 / 10548	-18.5	-18.5 0.77 (1)
P-O	0 / 10548	-18.5	-18.5 0.77 (1)
O-N	0 / 6965	-18.5	-18.5 0.50 (1)
N-M	0 / 6965	-18.5	-18.5 0.50 (1)
M-L	0 / 4144	-18.5	-18.5 0.29 (1)
L-K	0 / 0	-18.5	-18.5 0.04 (4)

FACTORED CONCENTRATED LOADS (LBS)	
JT	LOC.
C	5-10-8 -437
Q	10-9-8 -2715
R	5-11-4 -26
T	7-11-4 -110
U	9-11-4 -110
V	1-11-4 -25
W	3-11-4 -26
X	7-11-4 -26
Y	9-11-4 -26

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 189 = 358 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. 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, NBC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 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

ALLOWABLE DEFL.(LL) = L/360 (1.17")
CALCULATED VERT. DEFL.(LL) = 1/999 (0.26")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = 1/881 (0.48")

CSI: TC=0.72/1.00 (B-C:1), BC=0.77/1.00 (O-Q:1), WB=0.82/1.00 (B-R:1), SSI=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

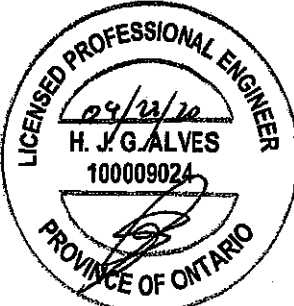
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(OR)Y SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1867 788 1987 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.99 (B) (INPUT = 0.90)
JSI METAL= 0.99 (P) (INPUT = 1.00)



Structural component only
DWG# T-2007169

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408170	T40Z	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	8.0	2.00	3.50
C	TTWW+m	MT20	8.0	9.0	Edge	
D	TMWW-t	MT20	5.0	8.0		
E	TMW+w	MT20	3.0	8.0		
F	TS-t	MT20	5.0	8.0		
G	TMWW-t	MT20	5.0	8.0		
H	TTWW+m	MT20	8.0	9.0	Edge	
I	TMVW-p	MT20	5.0	8.0	2.00	3.50
K	BMV1+p	MT20	3.0	8.0		
L	BMWW-t	MT20	5.0	8.0	2.50	3.25
M	BMWW-t	MT20	6.0	9.0	4.50	2.50
N	BS-t	MT20	5.0	8.0		
O	BMWW-t	MT20	5.0	8.0		
P	BS-t	MT20	5.0	8.0		
Q	BMWW-t	MT20	8.0	9.0	4.50	2.50
R	BMWW-t	MT20	5.0	8.0	2.50	3.25
S	BMV1+p	MT20	3.0	8.0		

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

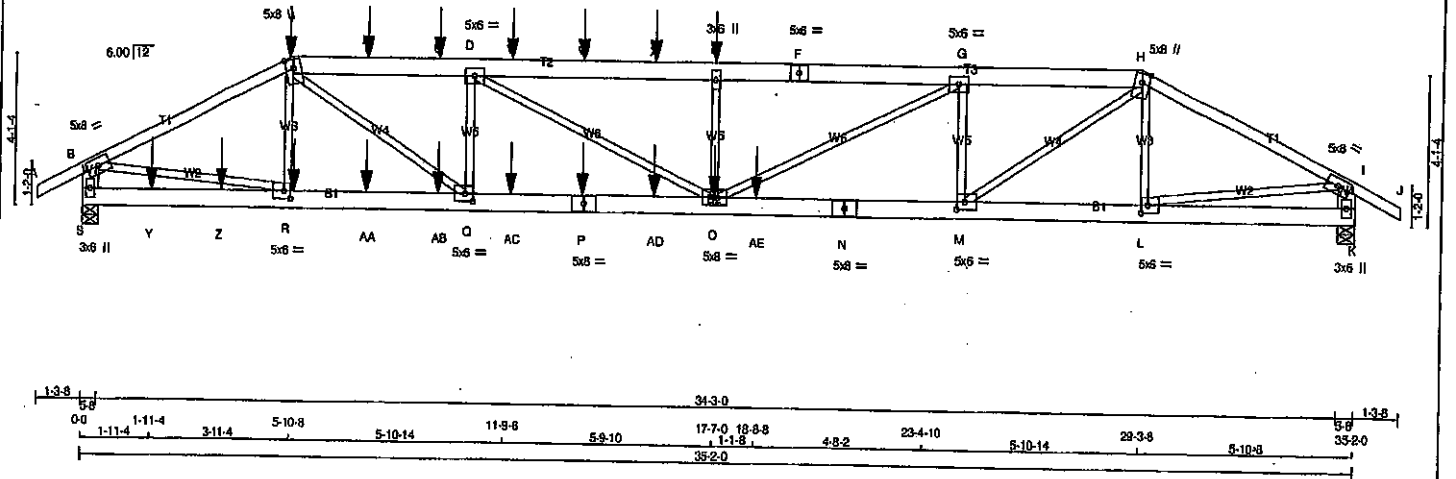
CONNECTION REQUIREMENTS

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



Structural component only
DWG# T-2007169 3/2

JOB NAME 412082	TRUSS NAME T40Z1	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.330 S May 6 2020 Mitek Industries, Inc. Fri Aug 21 09:09:10 2020 Page 1	
				ID:K?TPdhqj0np1qYdbWIOFzIdeG-9vFAFBaYNC6d0rWY2keyxUPxFS7pS1vhwjeZyhc7	



LUMBER N. L. G. A. RULES CHORDS SIZE LUMBER A - C 2x4 DRY No.2 C - F 2x6 DRY No.2 F - H 2x6 DRY No.2 H - J 2x4 DRY No.2 S - B 2x6 DRY No.2 K - I 2x6 DRY No.2 S - P 2x6 DRY No.2 P - N 2x6 DRY No.2 N - K 2x6 DRY No.2 ALL WEBS 2x3 DRY No.2 EXCEPT DRY: SEASONED LUMBER. DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS: CHORDS #ROWS SURFACE SPACING (IN) LOAD (PLF) TOP CHORDS: (0.122"x3") SPIRAL NAILS A-C 1 12 SIDE(61.0) H-J 1 12 TOP C-F 2 12 SIDE(183.1) F-H 2 12 TOP 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 TOP 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.		DESIGN CRITERIA SPECIFIED LOADS: TOP CH. LL = 25.8 PSF OL = 8.0 PSF BOT CH. LL = 0.0 PSF OL = 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, NBC2015 THIS DESIGN COMPLIES WITH: - PART 9 OF CBC2015, ABC 2019 - PART 9 OF OBC 2012 (2019 AMENDMENT) - CSA 086-14 - 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 (0.31") ALLOWABLE DEFL.(TL)= L/360 (1.17") CALCULATED VERT. DEFL.(TL) = L/749 (0.96") CSI: TC=0.60/1.00 (B-C:1), BC=1.00/1.00 (M-O:1), WB=0.68/1.00 (B-R:1), SSI=0.55/1.00 (M-O: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 (P5) (PL) (PLJ) MAX MIN MAX MIN MAX MIN MT20 650 371 1747 788 1987 1873 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.88 (I) (INPUT = 0.90) JSI METAL= 0.98 (P) (INPUT = 1.00)		BEARINGS FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT REQD BRG BRG JT 3876 0 3445 0 0 5-8 S 3876 0 3445 0 0 5-8 K 3445 0 3445 0 0 5-8 UNFACTORED REACTIONS 1ST LCASE MAX/MIN. COMPONENT REACTIONS JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL S 2738 1813/0 0/0 0/0 0/0 925/0 0/0 K 2431 1627/0 0/0 0/0 0/0 803/0 0/0 BRACING TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.42 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) FR-TO FROM TO CSI (LC) UNBRAC LENGTH FR-TO MEMB. MAX. FACTORED FORCE (LBS) MAX. FACTORED VERT. LOAD (PLF) A-B 0/28 -91.8 -91.8 0.07 (1) 10.00 R-C -518/0 0.08 (1) B-C -5045/0 -91.8 -91.8 0.80 (1) 3.53 C-Q 0/3942 0.49 (1) C-T -8591/0 -91.8 -91.8 0.30 (1) 3.92 Q-D 2223/0 0.28 (1) T-U -8591/0 -91.8 -91.8 0.30 (1) 3.92 D-O 0/2720 0.34 (1) U-D -8591/0 -91.8 -91.8 0.30 (1) 3.92 O-E -858/0 0.10 (1) D-V -10987/0 -91.8 -91.8 0.44 (1) 3.42 E-G 0/3120 0.39 (1) V-W -10987/0 -91.8 -91.8 0.44 (1) 3.42 M-H 0/4349 0.54 (1) W-X -10987/0 -91.8 -91.8 0.44 (1) 3.42 L-H -682/0 0.08 (1) X-E -10987/0 -91.8 -91.8 0.44 (1) 3.42 B-R 0/5487 0.88 (1) E-F -10987/0 -91.8 -91.8 0.36 (1) 3.51 L-I 0/4779 0.59 (1) F-G -10987/0 -91.8 -91.8 0.36 (1) 3.51 G-H -8238/0 -91.8 -91.8 0.20 (1) 4.11 H-I -5283/0 -91.8 -91.8 0.54 (1) 3.79 I-J 0/28 -91.8 -91.8 0.07 (1) 10.00 S-B -3800/0 0.0 0.0 0.13 (1) 7.25 K-I -3371/0 0.0 0.0 0.12 (1) 7.58 S-Y 0/0 -18.5 -18.5 0.06 (4) 10.00 Y-Z 0/0 -18.5 -18.5 0.06 (4) 10.00 Z-R 0/0 -18.5 -18.5 0.06 (4) 10.00 R-AA 0/5433 -18.5 -18.5 0.42 (1) 10.00 AA-AB 0/5433 -18.5 -18.5 0.42 (1) 10.00 AB-Q 0/5433 -18.5 -18.5 0.42 (1) 10.00 Q-AC 0/8590 -18.5 -18.5 0.78 (1) 10.00 AC-P 0/8590 -18.5 -18.5 0.78 (1) 10.00 P-AD 0/8590 -18.5 -18.5 0.78 (1) 10.00 AD-O 0/8590 -18.5 -18.5 0.78 (1) 10.00 O-AE 0/8237 -18.5 -18.5 1.00 (1) 10.00 AE-N 0/8237 -18.5 -18.5 1.00 (1) 10.00 N-M 0/8237 -18.5 -18.5 1.00 (1) 10.00 M-L 0/4755 -18.5 -18.5 0.48 (1) 10.00 L-K 0/0 -18.5 -18.5 0.05 (1) 10.00 FACTORED CONCENTRATED LOADS (LBS) JT LOC. LC1 MAX. MAX+ FACE DIR. TYPE HEEL CONN. C 5-10-8 -407 -407 -- FRONT VERT TOTAL -- C1 E 17-7-0 -110 -110 -- FRONT VERT TOTAL -- C1 O 17-7-0 -28 -28 -- FRONT VERT TOTAL -- C1 P 13-11-4 -28 -28 -- FRONT VERT TOTAL -- C1 R 5-11-4 -28 -28 -- 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 11-11-4 -110 -110 -- FRONT VERT TOTAL -- C1		STRUCTURAL COMPONENT ONLY DWG# T-2018857 1/2	
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JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
412082	T40Z1	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	8.0		
C	TTWW+m	MT20	5.0	8.0	Edge	
D	TMVW-t	MT20	5.0	8.0		
E	TMVW-w	MT20	3.0	8.0		
F	TS-t	MT20	5.0	8.0		
G	TMVW-t	MT20	5.0	8.0		
H	TTWW+m	MT20	5.0	8.0	Edge	
I	TMVW-t	MT20	5.0	8.0		
K	BMV1+p	MT20	3.0	8.0		
L	BMVW-t	MT20	5.0	8.0	2.50	2.25
M	BMVW-t	MT20	5.0	8.0	2.50	2.50
N	BS-t	MT20	5.0	8.0		
O	BMVW-t	MT20	5.0	8.0		
P	BS-t	MT20	5.0	8.0		
Q	BMVW-t	MT20	5.0	8.0	2.50	2.50
R	BMVW-t	MT20	5.0	8.0	2.50	2.25
S	BMV1+p	MT20	3.0	8.0		

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

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
W	13-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
X	15-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
Y	1-11-4	-25	-25	---	FRONT	VERT	TOTAL	---	C1
Z	3-11-4	-25	-25	---	FRONT	VERT	TOTAL	---	C1
AA	7-11-4	-25	-25	---	FRONT	VERT	TOTAL	---	C1
AB	9-11-4	-25	-25	---	FRONT	VERT	TOTAL	---	C1
AC	11-11-4	-25	-25	---	FRONT	VERT	TOTAL	---	C1
AD	15-11-4	-25	-25	---	FRONT	VERT	TOTAL	---	C1
AE	18-8-8	-1889	-1889	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

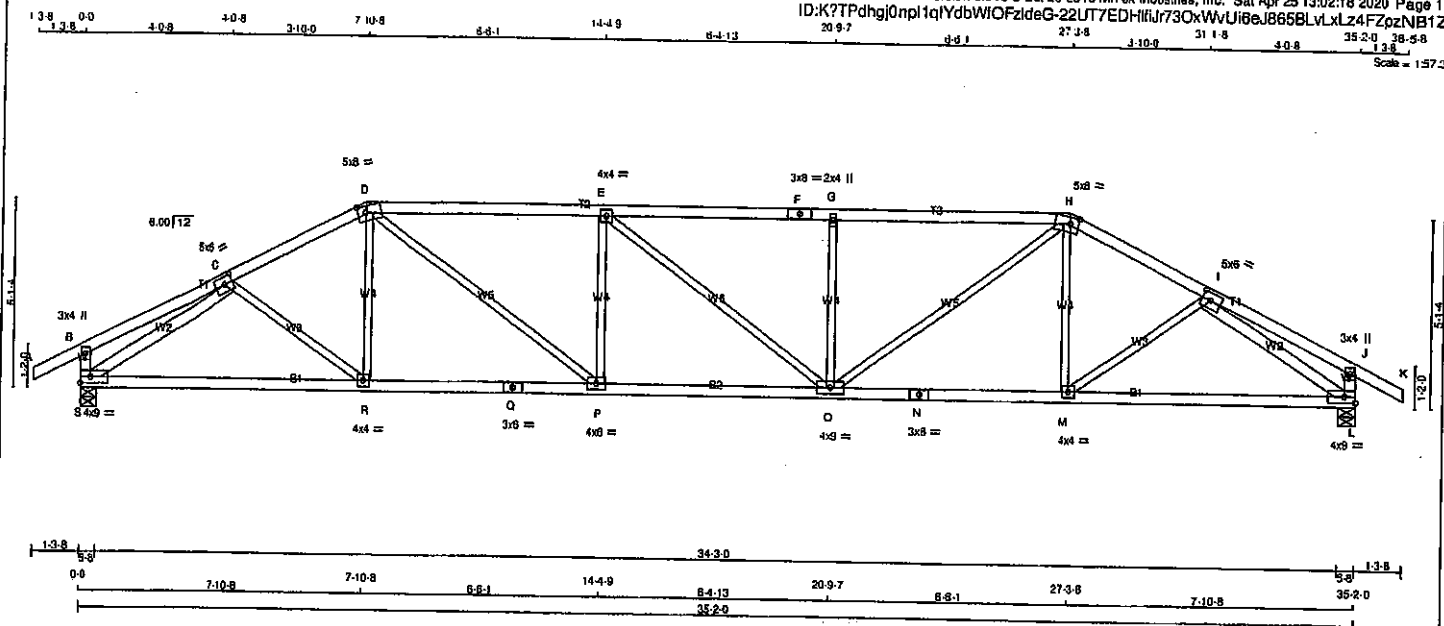


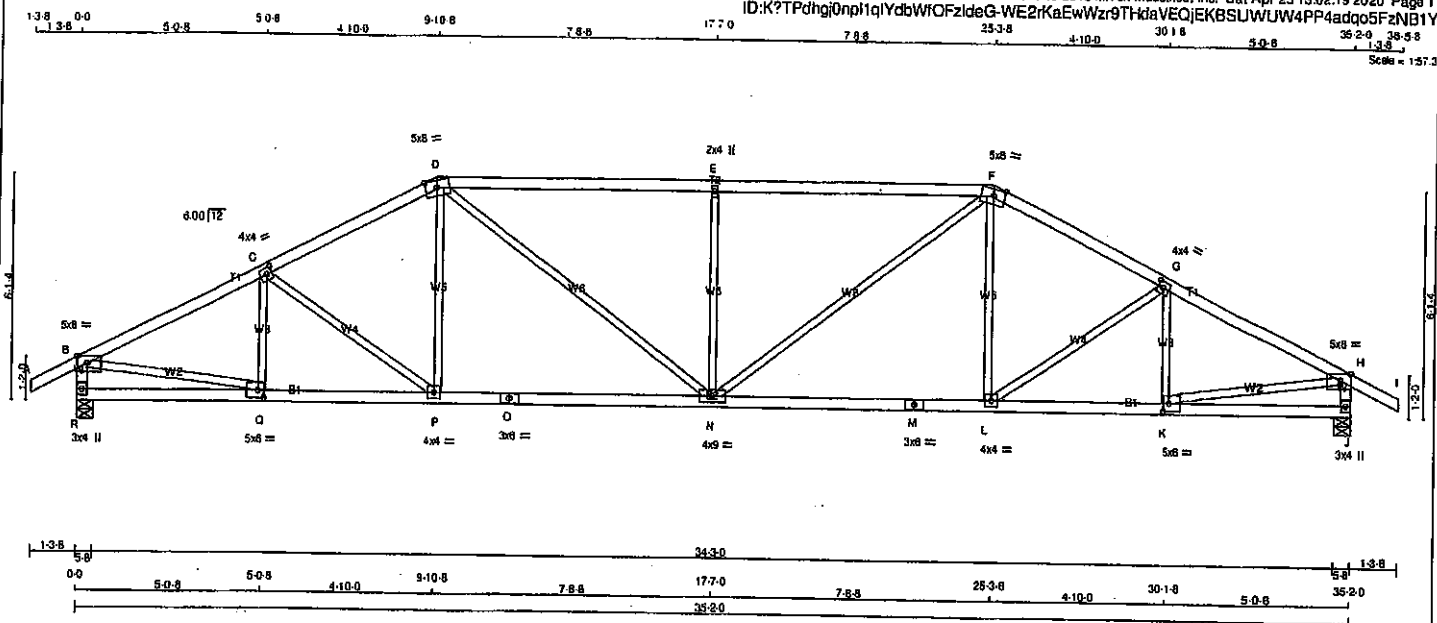
Structural component only
DWG# T-2018857 *22*

JOB NAME 408170	TRUSS NAME T41	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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20 9 7 27 3 8 31 1 8 35 3 0 38 5 8
Scale = 1:57.0





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
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			SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMWW-p	MT20	5.0	8.0	Edge 3.50
C	TMWW-i	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	TTWW-m	MT20	5.0	8.0	2.25 3.75
G	TMWW-i	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-i	MT20	5.0	8.0	2.50 2.00
L	BMWW-i	MT20	4.0	4.0	
M	BS-i	MT20	3.0	8.0	
N	BMWWWW-i	MT20	4.0	9.0	
O	BS-i	MT20	3.0	8.0	
P	BMWW-i	MT20	4.0	4.0	
Q	BMWW-i	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
GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT	JT VERT	UPLIFT	IN-SX
R 2063 0	2063 0	5-8	5-8
J 2063 0	2063 0	5-8	5-8

UNFACTORED REACTIONS

1ST CASE	MAX/MIN	COMPONENT REACTIONS
JT COMBINED	SNOW	LIVE
R	1457	989 / 0
J	1457	989 / 0
		PERM. LIVE
		WIND
		DEAD
		SOIL
		488 / 0
		488 / 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 = 2.78 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.	FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)
FR-TO		FROM TO		FR-TO			
A-B	0 / 28	-91.8 -91.8	0.12 (1)	Q-C	-353 / 0		0.08 (1)
B-C	-2834 / 0	-91.8 -91.8	0.39 (1)	C-P	-210 / 0		0.13 (1)
C-D	-2887 / 0	-91.8 -91.8	0.37 (1)	P-D	0 / 248		0.06 (4)
D-E	-3060 / 0	-91.8 -91.8	0.97 (1)	D-N	0 / 844		0.19 (1)
E-F	-3060 / 0	-91.8 -91.8	0.97 (1)	N-E	-872 / 0		0.51 (1)
F-G	-2687 / 0	-91.8 -91.8	0.37 (1)	N-F	0 / 844		0.19 (1)
G-H	-2834 / 0	-91.8 -91.8	0.39 (1)	L-F	0 / 248		0.06 (4)
H-I	0 / 28	-91.8 -91.8	0.12 (1)	L-G	-210 / 0		0.13 (1)
R-B	-2018 / 0	0.0 0.0	0.20 (1)	K-G	-353 / 0		0.08 (1)
J-H	-2018 / 0	0.0 0.0	0.20 (1)	B-Q	0 / 2591		0.58 (1)
				K-H	0 / 2591		0.58 (1)
R-Q	0 / 0	-18.5 -18.5	0.10 (4)				
Q-P	0 / 2555	-18.5 -18.5	0.51 (1)				
P-O	0 / 2386	-18.5 -18.5	0.49 (1)				
O-N	0 / 2386	-18.5 -18.5	0.49 (1)				
N-M	0 / 2386	-18.5 -18.5	0.49 (1)				
M-L	0 / 2386	-18.5 -18.5	0.49 (1)				
L-K	0 / 2555	-18.5 -18.5	0.51 (1)				
K-J	0 / 0	-18.5 -18.5	0.10 (4)				

TOTAL WEIGHT = 2 X 139 = 277 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. 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, NBCS 2010, NBCS 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 (0.17)

ALLOWABLE DEFL. (TL) = L/360 (1.17)

CALCULATED VERT. DEFL. (TL) = L/999 (0.34)

CSI: TC=0.87/1.00 (D-E-1), BC=0.51/1.00 (P-Q-1), WB=0.58/1.00 (B-C-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

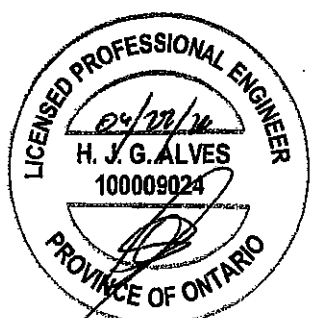
PLATE GRIP (DRY)	SHEAR (PSI)	SECTION (PL)
MAX MIN	MAX MIN	MAX MIN
MT20	818 354	1687 788
		1987 1658

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

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

JSI METAL = 0.75 (M) (INPUT = 1.00)

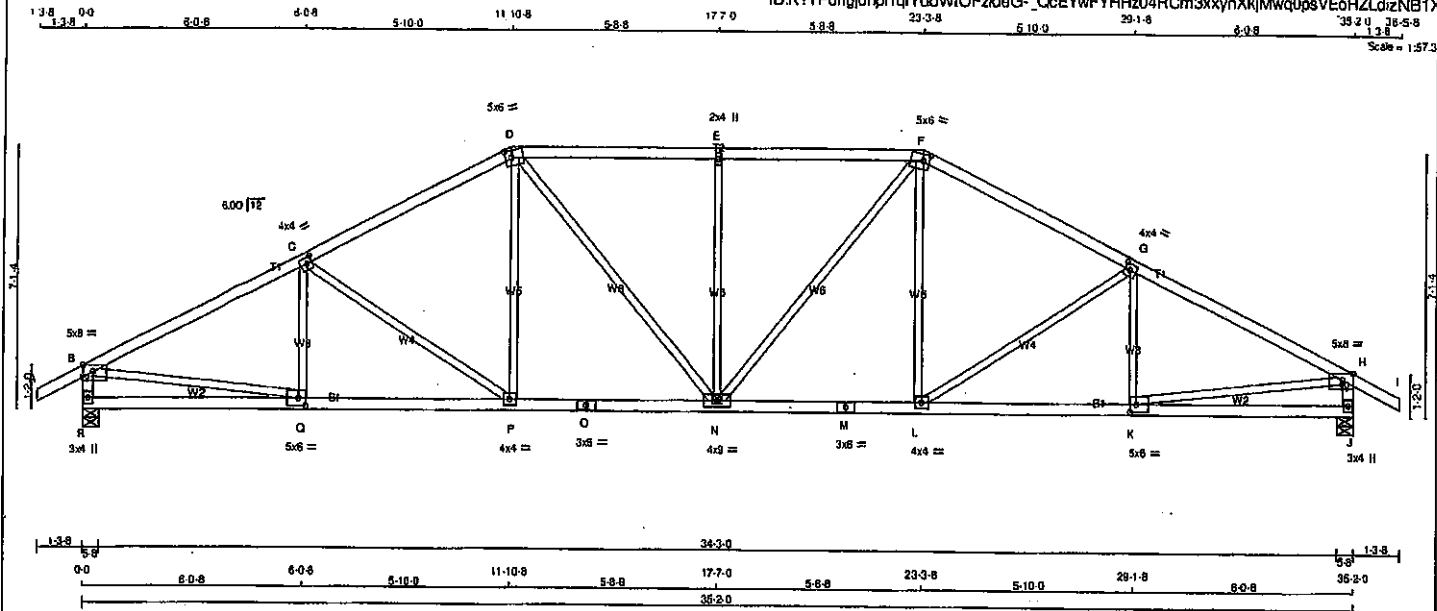


JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408170	T43	2	1	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

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

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-t	MT20	4.0	4.0	2.00	1.75
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	2.25	2.00
G	TMVW-t	MT20	4.0	4.0	2.00	1.75
H	TMVW-p	MT20	5.0	8.0	Edge	3.50
J	BMV1+p	MT20	3.0	4.0		
K	BMVW-t	MT20	5.0	6.0	2.50	2.25
L	BMVW-t	MT20	4.0	4.0		
M	BS-t	MT20	3.0	6.0		
N	BMVWVW-t	MT20	4.0	9.0		
O	BS-t	MT20	3.0	6.0		
P	BMVWVW-t	MT20	4.0	4.0		
Q	BMVWVW-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		REQ'D	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	HORZ	DOWN	UPLIFT	BRG	IN-SX
R	2063	0	2063	0	0	5-8	5-8		
J	2063	0	2063	0	0	5-8	5-8		

UNFACTORED REACTIONS		1ST CASE		MAX./MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
R	1457	969 / 0	0 / 0	0 / 0	488 / 0
J	1457	969 / 0	0 / 0	0 / 0	488 / 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 = 3.58 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.

LOADING

TOTAL LOAD CASES: (4)		CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FROM	TO	FR-TO	
A-B	0 / 28	-91.8	-91.8	Q-C	-255 / 12
B-C	-2689 / 0	-91.8	-91.8	C-P	-495 / 0
C-D	-2539 / 0	-91.8	-91.8	P-D	0 / 350
D-E	-2559 / 0	-91.8	-91.8	D-N	0 / 482
E-F	-2559 / 0	-91.8	-91.8	N-E	-641 / 0
F-G	-2539 / 0	-91.8	-91.8	N-F	0 / 482
G-H	-2689 / 0	-91.8	-91.8	L-F	0 / 350
H-I	0 / 28	-91.8	-91.8	L-G	-435 / 0
R-B	-2014 / 0	0.0	0.0	K-G	-255 / 12
J-H	-2014 / 0	0.0	0.0	K-Q	0 / 2635
				K-H	0 / 2635
R-Q	0 / 0	-18.5	-18.5		
Q-P	0 / 2609	-18.5	-18.5		
P-D	0 / 2249	-18.5	-18.5		
O-N	0 / 2249	-18.5	-18.5		
N-M	0 / 2249	-18.5	-18.5		
M-L	0 / 2249	-18.5	-18.5		
L-K	0 / 2609	-18.5	-18.5		
K-J	0 / 0	-18.5	-18.5		

TOTAL WEIGHT = 2 X 145 = 289 lb [MJF]

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, 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/899 (0.15')
ALLOWABLE DEFL.(TL) = L/360 (1.17')
CALCULATED VERT. DEFL.(TL) = L/999 (0.28')

CSI: TC=0.58/1.00 (B-C:1), BC=0.49/1.00 (P-Q:1), WB=0.59/1.00 (B-Q:1), SS=0.23/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

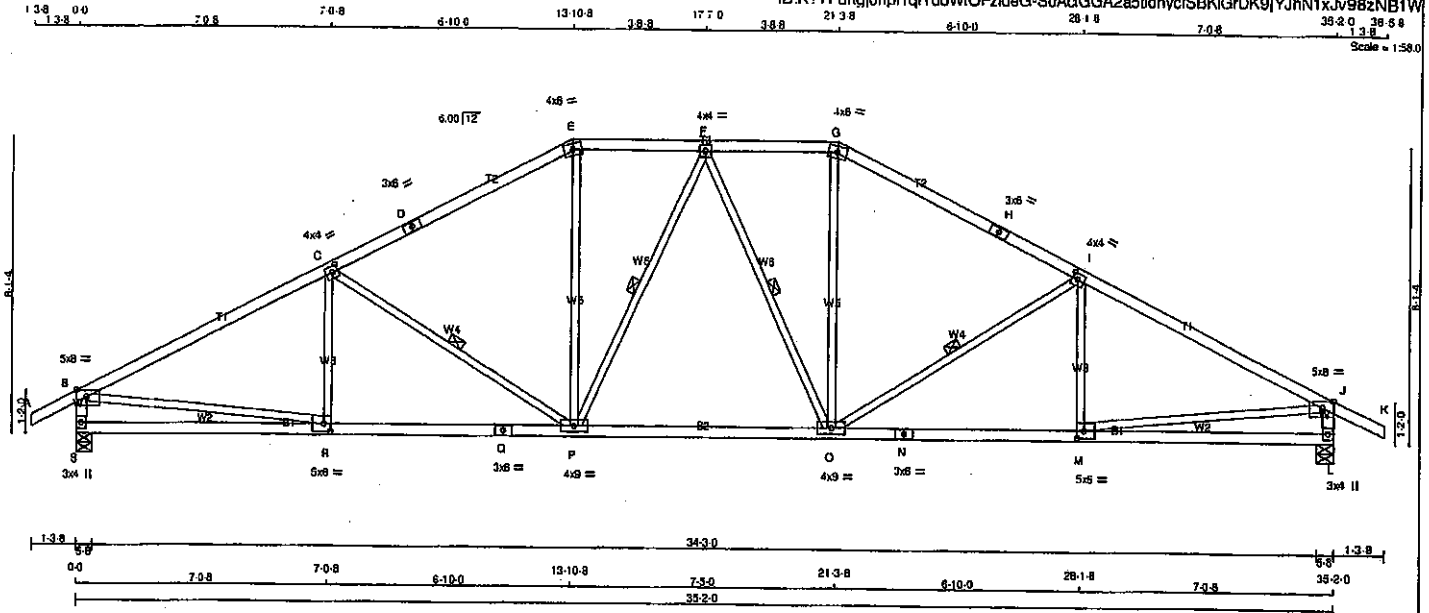
JSI GRIP=0.69 (Q) (INPUT = 0.90)
JSI METAL=0.69 (M) (INPUT = 1.00)



Structural component only
DWG# T-2007172

JOB NAME 408170	TRUSS NAME T44	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
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
S - B	2x4	DRY	No.2
L - J	2x4	DRY	No.2
S - Q	2x4	DRY	No.2
Q - N	2x4	DRY	No.2
N - L	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMWV-p	MT20	5.0	8.0	Edge	3.50
C TMWV-l	MT20	4.0	4.0	2.00	1.75
D TS-l	MT20	3.0	6.0		
E TTW-m	MT20	4.0	6.0		
F TMWV-l	MT20	4.0	4.0		
G TTW-m	MT20	4.0	6.0		
H TS-l	MT20	3.0	6.0		
I TMWV-l	MT20	4.0	4.0	2.00	1.75
J TMWV-p	MT20	5.0	8.0	Edge	3.50
L BMV1+p	MT20	3.0	4.0		
M BMWV-l	MT20	5.0	6.0	2.50	2.25
N BS-l	MT20	3.0	6.0		
O BMWV-l	MT20	4.0	9.0		
P BMWV-l	MT20	4.0	9.0		
Q BS-l	MT20	3.0	6.0		
R BMWV-l	MT20	5.0	8.0	2.50	2.25
S 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	RECORD BRG
JT	VERT	DOWN	UPLIFT	IN-SX
S	2063	0	0	5-8
L	2063	0	0	5-8

UNFACTORED REACTIONS

	1ST LCASE	MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
S	1457	989 / 0	0 / 0	0 / 0	0 / 0	488 / 0	0 / 0
L	1457	989 / 0	0 / 0	0 / 0	0 / 0	488 / 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 = 3.25 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 C-P, F-P, Q-Q, I-Q.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD LC1 (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO				FR-TO			
A-B	0 / 28	-91.8	-91.8 0.12 (1)	10.00	R-C	-182 / 52	0.08 (1)
B-C	-2908 / 0	-91.8	-91.8 0.83 (1)	3.25	C-P	-637 / 0	0.29 (1)
C-D	-2373 / 0	-91.8	-91.8 0.72 (1)	3.66	P-E	0 / 674	0.15 (1)
D-E	-2373 / 0	-91.8	-91.8 0.72 (1)	3.66	F-F	-222 / 0	0.11 (1)
E-F	-2100 / 0	-91.8	-91.8 0.19 (1)	4.53	F-Q	-222 / 0	0.11 (1)
F-G	-2100 / 0	-91.8	-91.8 0.19 (1)	4.53	Q-G	0 / 874	0.15 (1)
G-H	-2373 / 0	-91.8	-91.8 0.72 (1)	3.66	O-I	-637 / 0	0.29 (1)
H-I	-2373 / 0	-91.8	-91.8 0.72 (1)	3.66	M-I	-182 / 52	0.08 (1)
I-J	-2908 / 0	-91.8	-91.8 0.83 (1)	3.25	B-R	0 / 2649	0.80 (1)
J-K	0 / 28	-91.8	-91.8 0.12 (1)	10.00	M-J	0 / 2649	0.80 (1)
S-B	-2008 / 0	0.0	0.0 0.20 (1)	5.96			
L-J	-2008 / 0	0.0	0.0 0.20 (1)	5.96			
S-R	0 / 0	-18.5	-18.5 0.20 (4)	10.00			
R-Q	0 / 2830	-18.5	-18.5 0.52 (1)	10.00			
Q-P	0 / 2830	-18.5	-18.5 0.52 (1)	10.00			
P-O	0 / 2193	-18.5	-18.5 0.45 (1)	10.00			
O-N	0 / 2830	-18.5	-18.5 0.52 (1)	10.00			
N-M	0 / 2830	-18.5	-18.5 0.52 (1)	10.00			
M-L	0 / 0	-18.5	-18.5 0.20 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.8 PSF
DL = 9.0 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 6.00/12

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

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

(58 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.17")
CALCULATED VERT. DEFL.(LL) = L/999 (0.14")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/999 (0.30")

CSI: TC=0.83/1.00 (B-C:1), BC=0.52/1.00 (P-R:1), WB=0.80/1.00 (B-R: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

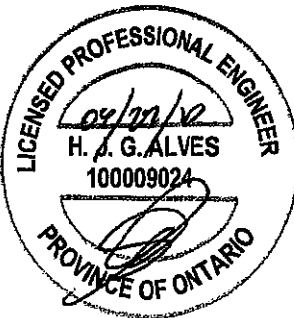
COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
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 = 0.88 (M) (INPUT = 0.90)
JSI METAL = 0.79 (Q) (INPUT = 1.00)



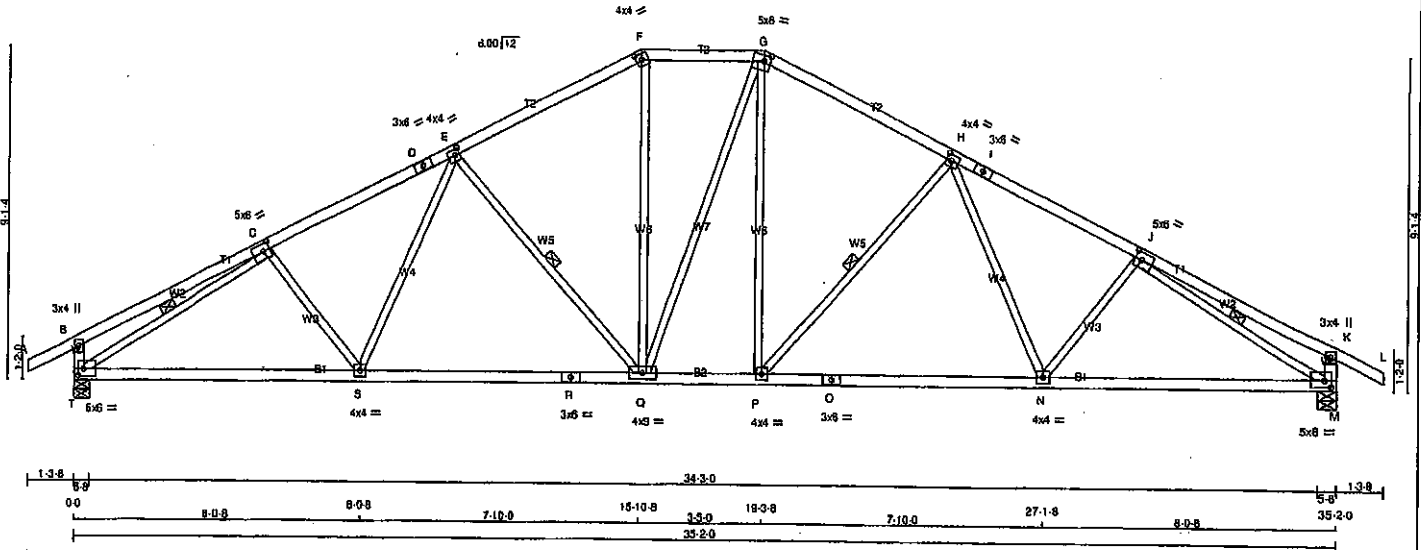
Structural component only
DWG# T-2007173

JOB NAME 408170	TRUSS NAME T45	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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ID:K7TPdhg0np1qYdbWfQFzIdeG-wpi_zbGopuDKKIM9AMzQsy6jVPHiyXGb2SiazNB1V

1.38 0.0 5.53 5.53 5.21 10.713 5.21 15.108 3.59 19.38 5.21 24.43 5.21 29.813 5.43 35.20 38.58 1.38
Scale = 1:50.0



LUMBER			
N L G A RULES	SIZE	LUMBER	DESCR.
CHORDS			
A - D	2x4	DRY	No.2
D - F	2x4	DRY	No.2
F - G	2x4	DRY	No.2
G - I	2x4	DRY	No.2
I - L	2x4	DRY	No.2
T - B	2x4	DRY	No.2
M - K	2x4	DRY	No.2
T - R	2x4	DRY	No.2
R - O	2x4	DRY	No.2
O - M	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 TMV+p	MT20	3.0	4.0	
C TMWW-I	MT20	5.0	6.0	2.50 2.25
D TS-I	MT20	3.0	6.0	
E TMWW-I	MT20	4.0	4.0	2.00 1.50
F TTW-h	MT20	4.0	4.0	2.00 1.75
G TTWW-m	MT20	5.0	6.0	2.00 2.00
H TMWW-I	MT20	4.0	4.0	2.00 1.50
I TS-I	MT20	3.0	6.0	
J TMWW-I	MT20	5.0	6.0	2.50 2.25
K TMV+p	MT20	3.0	4.0	
M BMVW-I	MT20	5.0	6.0	2.25 2.00
N P-S				
N BMWW-I	MT20	4.0	4.0	
O BS-I	MT20	3.0	6.0	
Q BMWW-I	MT20	4.0	4.0	
R BS-I	MT20	3.0	6.0	
T BMVW-I	MT20	5.0	6.0	2.25 2.00

BEARINGS

	FACTORED GROSS REACTION	FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	UPLIFT	IN-SX
T	2063	0	0	5-8
M	2063	0	0	5-8

UNFACTORED REACTIONS

	1ST LCASE	MAX / MIN	COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERMALIVE	WIND	DEAD	SOIL
T	1457	869 / 0	0 / 0	0 / 0	0 / 0	488 / 0	0 / 0
M	1457	869 / 0	0 / 0	0 / 0	0 / 0	488 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.86 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-Q, H-P, O-T, J-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. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	
FR-TO		FROM TO		FR-TO			
A-B	0 / 28	-91.8 -91.8 0.12 (1)	10.00	C-S	-110 / 37	0.04 (1)	
B-C	0 / 19	-91.8 -91.8 0.32 (1)	10.00	S-E	0 / 278	0.06 (1)	
C-D	-2759 / 0	-91.8 -91.8 0.40 (1)	3.86	E-Q	-681 / 0	0.31 (1)	
D-E	-2759 / 0	-91.8 -91.8 0.40 (1)	3.86	Q-F	0 / 613	0.14 (1)	
E-F	-2167 / 0	-91.8 -91.8 0.36 (1)	4.30	F-G	0 / 4	0.00 (1)	
F-G	-1925 / 0	-91.8 -91.8 0.18 (1)	4.71	G-H	0 / 609	0.14 (1)	
G-H	-2188 / 0	-91.8 -91.8 0.36 (1)	4.30	H-I	-682 / 0	0.31 (1)	
H-I	-2760 / 0	-91.8 -91.8 0.40 (1)	3.86	I-J	0 / 278	0.06 (1)	
I-J	-2760 / 0	-91.8 -91.8 0.40 (1)	3.86	J-K	-110 / 37	0.04 (1)	
J-K	0 / 19	-91.8 -91.8 0.32 (1)	10.00	K-L	-3040 / 0	0.85 (1)	
K-L	0 / 28	-91.8 -91.8 0.12 (1)	10.00	L-M	-3041 / 0	0.85 (1)	
L-M	-326 / 0	0.0 0.0 0.03 (1)	7.81				
M-K	-326 / 0	0.0 0.0 0.03 (1)	7.81				
T-S	0 / 2536	-18.5 -18.5 0.55 (1)	10.00				
S-R	0 / 2362	-18.5 -18.5 0.53 (1)	10.00				
R-Q	0 / 2362	-18.5 -18.5 0.53 (1)	10.00				
Q-P	0 / 1924	-18.5 -18.5 0.40 (1)	10.00				
P-O	0 / 2362	-18.5 -18.5 0.53 (1)	10.00				
O-N	0 / 2362	-18.5 -18.5 0.53 (1)	10.00				
N-M	0 / 2537	-18.5 -18.5 0.56 (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 = 38.0 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, NBCG 2010, NBCG 2015

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

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 (0.32")

CSI: TC=0.40/1.00 (H-J-I), BC=0.58/1.00 (M-N-I), WB=0.85/1.00 (J-M-I), SS=0.20/1.00 (B-C-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

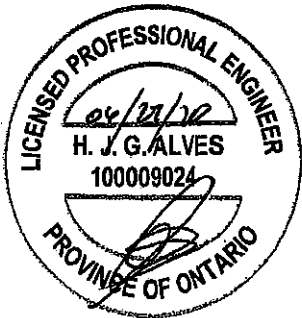
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PU) (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 (M) (INPUT = 0.80)
JSI METAL= 0.78 (G) (INPUT = 1.00)



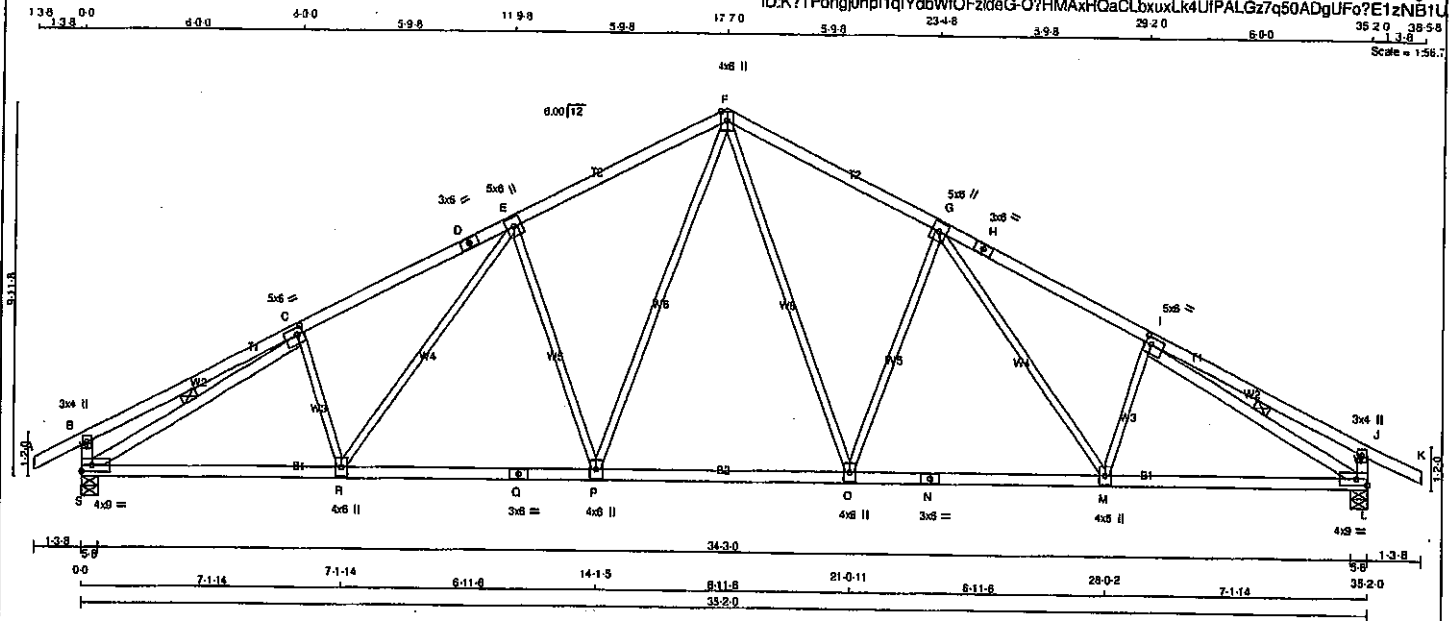
Structural component only
DWG# T-2007174

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408170	T46	6	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 6 X 152 = 910 lb (MIP)

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
S - B	2x4	DRY	No.2
L - J	2x4	DRY	No.2
S - Q	2x4	DRY	No.2
Q - N	2x4	DRY	No.2
N - L	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2
S - C	2x4	DRY	No.2
I - L	2x4	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMV+p	MT20	3.0	4.0
C	TMVW-1	MT20	5.0	8.0 2.25 2.00
D	TS-1	MT20	3.0	8.0
E	TMVW-1	MT20	5.0	8.0
F	TMVW-1	MT20	4.0	8.0 Edge
G	TMVW-1	MT20	5.0	8.0
H	TS-1	MT20	3.0	8.0
I	TMVW-1	MT20	5.0	8.0 2.25 2.00
J	TMV+p	MT20	3.0	4.0
L	BMVW-1	MT20	4.0	9.0 Edge
M, O, P, R				
M	BMVW-1	MT20	4.0	8.0
N	BS-1	MT20	3.0	8.0
Q	BS-1	MT20	3.0	8.0
S	BMVW-1	MT20	4.0	8.0 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	RECORD
JT	VERT	HORZ	VERT	HORZ	UPLIFT
S	2083	0	2083	0	0
L	2083	0	2083	0	0

UNFACTORED REACTIONS		1ST CASE	MAX/MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
S	1467	989/0	0/0
L	1467	989/0	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 = 3.75 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-S, 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)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO	FROM	TO	FR-TO
A-B	0/28	-91.8	0/866
B-C	0/22	-91.8	0/729
C-D	-2808/0	-91.8	0/391
D-E	-2808/0	-91.8	0/18
E-F	-2322/0	-91.8	0/866
F-G	-2322/0	-91.8	0/729
G-H	-2808/0	-91.8	0/391
H-I	-2808/0	-91.8	0/18
I-J	0/22	-91.8	0/866
J-K	0/28	-91.8	0/729
K-L	-344/0	0.0	0/391
L-J	-344/0	0.0	0/18
S-R	0/2574	-18.5	0/866
R-Q	0/2291	-18.5	0/729
Q-P	0/2291	-18.5	0/391
P-O	0/1762	-18.5	0/18
O-N	0/2291	-18.5	0/866
N-M	0/2291	-18.5	0/729
M-L	0/2574	-18.5	0/391

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 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 (1.17")
CALCULATED VERT. DEFL. (LL) = L/999 (0.14")
ALLOWABLE DEFL. (TL) = L/360 (1.17")
CALCULATED VERT. DEFL. (TL) = L/999 (0.28")

CSI: TO=0.49/1.00 (G-I:1), BC=0.53/1.00 (R-S:1), WB=0.72/1.00 (E-P:1), SS=0.22/1.00 (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 1987 1666

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

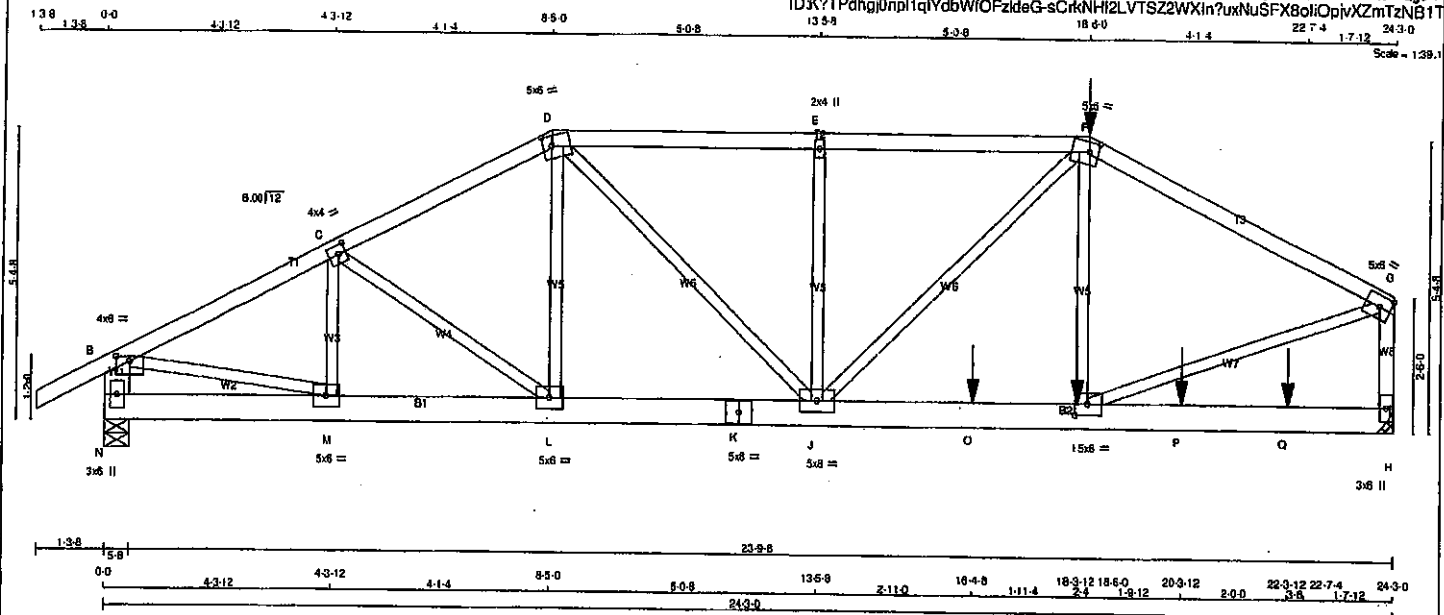
JSI GRIP= 0.87 (C) (INPUT = 0.90)
JSI METAL= 0.77 (I) (INPUT = 1.00)



Structural component only
DWG# T-2007175

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408170	T47	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					

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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		
N - B	2x6 DRY	No.2	SPF		
H - G	2x4 DRY	No.2	SPF		
N - K	2x6 DRY	No.2	SPF		
K - H	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 - D	12	TOP
D - F	12	SIDE(81.0)
F - G	12	SIDE(81.0)
H - G	12	TOP
N - B	12	TOP
BOTTOM CHORDS : (0.122'X3') SPIRAL NAILS		
N - K	12	TOP
K - H	12	SIDE(183.1)
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 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 GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	UPLIFT	IN-SX
N	2120	0	2120	0
H	3119	0	3119	0

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

UNFACTORED REACTIONS
1ST LC CASE MAX/MIN COMPONENT REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
N	1495	1003 / 0	0 / 0	0 / 0	0 / 0	492 / 0	0 / 0
H	2201	1472 / 0	0 / 0	0 / 0	0 / 0	729 / 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 = 4.64 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. FACTORED	WEBS	MAX. FACTORED	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD LC1 (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO		FR-TO		
A-B	0 / 28	-91.8 -91.8 0.07 (1)	10.00	M-C	-408 / 0	0.04 (1)
B-C	-2914 / 0	-91.8 -91.8 0.17 (1)	5.22	C-L	-88 / 0	0.01 (1)
C-D	-2892 / 0	-91.8 -91.8 0.17 (1)	5.24	L-D	0 / 70	0.01 (4)
D-E	-3517 / 0	-91.8 -91.8 0.27 (1)	4.74	D-J	0 / 1336	0.17 (1)
E-F	-3517 / 0	-91.8 -91.8 0.27 (1)	4.74	J-E	-555 / 0	0.12 (1)
F-G	-3486 / 0	-91.8 -91.8 0.39 (1)	4.84	J-F	0 / 575	0.07 (1)
N-B	-2064 / 0	0.0 0.0 0.07 (1)	7.81	I-F	0 / 522	0.08 (1)
H-G	-2933 / 0	0.0 0.0 0.20 (1)	6.72	I-G	0 / 3293	0.41 (1)
				B-M	0 / 2684	0.33 (1)
N-M	0 / 0	-18.5 -18.5 0.03 (1)	10.00			
M-L	0 / 2822	-18.5 -18.5 0.21 (1)	10.00			
L-K	0 / 2568	-18.5 -18.5 0.33 (1)	10.00			
K-J	0 / 2568	-18.5 -18.5 0.33 (1)	10.00			
J-O	0 / 3109	-18.5 -18.5 0.69 (1)	10.00			
O-I	0 / 3109	-18.5 -18.5 0.69 (1)	10.00			
I-P	0 / 0	-18.5 -18.5 0.32 (1)	10.00			
P-Q	0 / 0	-18.5 -18.5 0.32 (1)	10.00			
Q-H	0 / 0	-18.5 -18.5 0.32 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
F	18-6-0	-178	-178	---	FRONT	VERT	TOTAL	C1
I	18-3-12	-35	-35	---	FRONT	VERT	TOTAL	C1
O	18-4-8	-1661	-1661	---	FRONT	VERT	TOTAL	C1
P	20-3-12	-283	-283	---	FRONT	VERT	TOTAL	C1
Q	22-3-12	-284	-284	---	FRONT	VERT	TOTAL	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 114 = 228 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. 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, 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 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 25.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.81")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (0.81")
CALCULATED VERT. DEFL.(TL) = L/999 (0.15")

CSI: TC=0.38/1.00 (F-G-1), BC=0.69/1.00 (I-J-1), WB=0.41/1.00 (G-I-1), SS=0.37/1.00 (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)	(PLI)	(PLI)
MAX	MIN	MAX	MIN
MT20	818	354	1667
	788	1887	1858

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (I) (INPUT = 0.90)
JSI METAL= 0.44 (G) (INPUT = 1.00)



Structural component only
DWG# T-2007176 1/2

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408170	T47	1	2	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

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PLATES (Table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	4.0	6.0	1.00	3.00
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	6.0	2.25	2.00
G	TMVW-t	MT20	5.0	6.0		Edge
H	BMV1-p	MT20	3.0	6.0		
I	BMWW-t	MT20	5.0	6.0	2.50	2.75
J	BMWW-t	MT20	5.0	6.0		
K	BS-t	MT20	5.0	6.0		
L	BMWW-t	MT20	5.0	6.0		
M	BMWW-t	MT20	5.0	6.0		
N	BMV1-p	MT20	3.0	6.0		

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



Structural component only
DWG# T-2007176 4/2

Tamarack Roof Truss, Burlington



DRY; SEASONED LUMBER.

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER							
<u>BEARINGS</u>							
	FACTORED		MAXIMUM FACTORED		INPUT	REQ'D	
	GROSS	REACTION	GROSS	REACTION	BRG	BRG	
	VERT	HORZ	DOWN	HORZ	UP/IN-SX	IN-SX	
JT							
M	1461	0	1461	0	5-8	5-8	
H	1337	0	1337	0	MECHANICAL		

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

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.68 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-1.

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 LCL (PLF)	MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO		FR-TO			
A-B	0 / 28	-91.8	-91.8 0.12 (1)	10.00	L-C	-165 / 32	0.04 (1)
B-C	-1844 / 0	-91.8	-91.8 0.36 (1)	4.58	C-K	-438 / 0	0.31 (1)
C-D	-1488 / 0	-91.8	-91.8 0.34 (1)	5.00	K-D	0 / 334	0.08 (1)
D-E	-181 / 0	-91.8	-91.8 0.46 (1)	5.27	D-I	-189 / 0	0.09 (1)
E-F	-1336 / 0	-91.8	-91.8 0.18 (1)	5.42	I-E	0 / 175	0.05 (4)
F-G	0 / 18	-91.8	-91.8 0.21 (1)	10.00	F-H	0 / 156	0.04 (4)
G-B	-1419 / 0	0.0	0.0 0.14 (1)	8.85	B-L	0 / 1692	0.38 (1)
H-G	-138 / 0	0.0	0.0 0.02 (1)	7.81	F-H	-1563 / 0	0.82 (1)
M-L	0 / 0	-18.5	-18.5 0.12 (4)	10.00			
L-K	0 / 1671	-18.5	-18.5 0.32 (1)	10.00			
K-J	0 / 1313	-18.5	-18.5 0.38 (4)	10.00			
J-I	0 / 1313	-18.5	-18.5 0.38 (4)	10.00			
I-H	0 / 1069	-18.5	-18.5 0.34 (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 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) = $L/360$ (0.81")
CALCULATED VERT. DEFL(LL) = $L/999$ (0.05")
ALLOWABLE DEFL.(TL) = $L/360$ (0.81")
CALCULATED VERT. DEFL(TL) = $L/999$ (0.14")

CSI: TC=0.48/1.00 (D-E:1), BC=0.38/1.00 (I-K:4),
WB=0.82/1.00 (F-H:1), SSI=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

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	1856

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

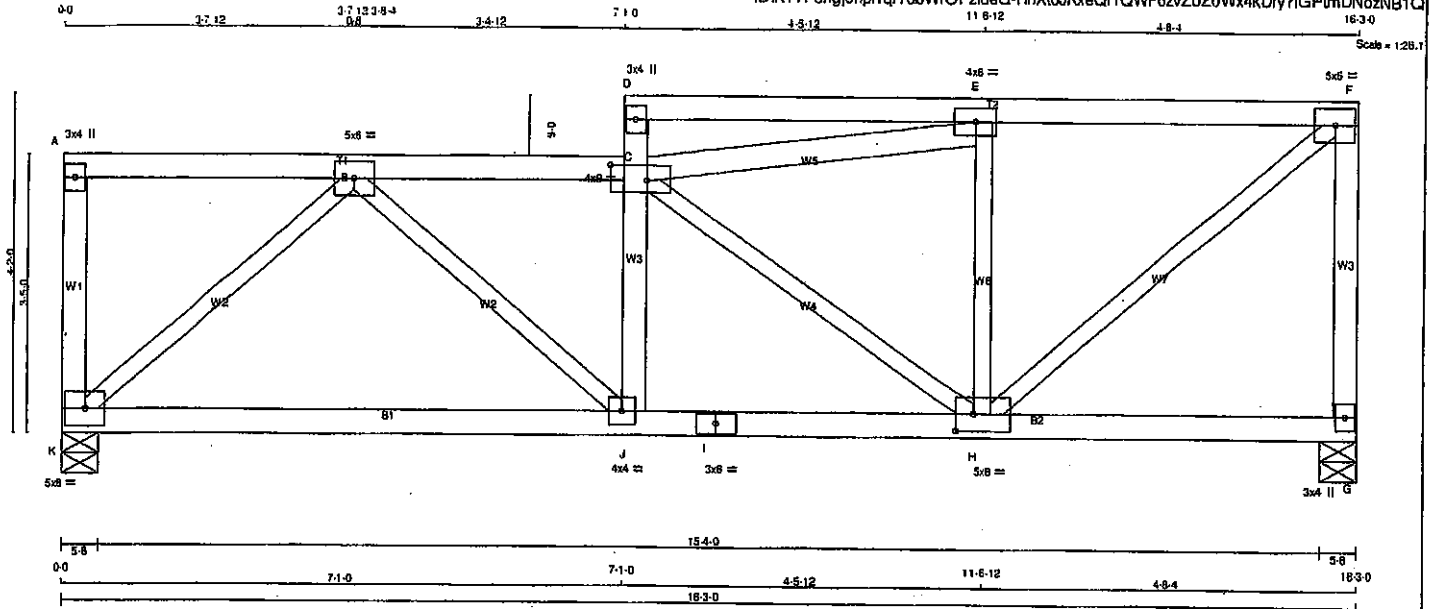
JSI GRIP= 0.90 (B) (INPUT = 0.90)
JSI METAL= 0.50 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007177

JOB NAME 408170	TRUSS NAME T49	QUANTITY 3	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington					

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

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	6.0	
C	TMWW-t	MT20	4.0	9.0	2.25 5.50
D	TMV+p	MT20	3.0	4.0	
E	TMWW-t	MT20	4.0	6.0	
F	TMWW-t	MT20	5.0	6.0	
G	BMV1+p	MT20	3.0	4.0	
H	BMWW-t	MT20	5.0	8.0	2.50 2.50
I	BS-t	MT20	3.0	6.0	
J	BMWW-t	MT20	4.0	4.0	
K	BMWW-t	MT20	5.0	6.0	

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

PROVIDE ADEQUATE DRAINAGE TO PREVENT PONDING

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
K	1079	0	1079	0
G	1079	0	1079	0

UNFACTORED REACTIONS

JT	1ST LOASE	MAX./MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
K	780	416 / 0	0 / 0	0 / 0	0 / 0	0 / 0	364 / 0	0 / 0
G	780	416 / 0	0 / 0	0 / 0	0 / 0	0 / 0	364 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.47 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.

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
K-A	-163 / 0	0.0	0.0 0.04 (1)	7.81	K-B	-1328 / 0	0.65 (1)
A-B	0 / 0	-114.3	-114.3 0.32 (1)	10.00	B-J	0 / 538	0.18 (1)
B-C	-1416 / 0	-114.3	-114.3 0.37 (1)	4.47	C-E	-961 / 0	0.30 (1)
J-C	-228 / 0	0.0	0.0 0.08 (1)	7.81	C-H	-489 / 0	0.30 (1)
C-D	-183 / 0	0.0	0.0 0.09 (1)	7.81	H-E	-471 / 0	0.18 (1)
D-E	-58 / 0	-114.3	-114.3 0.51 (1)	6.25	H-F	0 / 1303	0.39 (1)
E-F	-1004 / 0	-114.3	-114.3 0.55 (1)	4.81			
G-F	-1039 / 0	0.0	0.0 0.37 (1)	6.91			
K-J	0 / 1013	-18.5	-18.5 0.41 (4)	10.00			
J-I	0 / 1402	-18.5	-18.5 0.48 (4)	10.00			
I-H	0 / 1402	-18.5	-18.5 0.48 (4)	10.00			
H-G	0 / 0	-18.5	-18.5 0.13 (4)	10.00			

TOTAL WEIGHT = 3 X 72 = 216 lb

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 25.6	PSF
	DL = 15.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.4	PSF
TOTAL LOAD	= 48.0	PSF

SPACING = 24.0 IN. C/C

LOADING IN ALL FLAT SECTIONS BASED ON A SLOPE OF 0.00/12

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 088-08, CSA 088-14
- 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 (0.54")
CALCULATED VERT. DEFL. (LL) = L/999 (0.03")
ALLOWABLE DEFL. (TL) = L/360 (0.54")
CALCULATED VERT. DEFL. (TL) = L/999 (0.11")

CSI: TO=0.65/1.00 (E-F:1), BC=0.48/1.00 (H-J:4), WB=0.65/1.00 (B-K: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
FLAT ROOF FACTOR = 0.75

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (C) (INPUT = 0.80)
JSI METAL= 0.82 (I) (INPUT = 1.00)



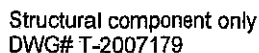
Structural component only
DWG# T-2007178

DRWG NO.

Version 8.310 S Oct 29 2019 MTek Industries, Inc. Sat Apr 25 13:02:28 2020 Page 1
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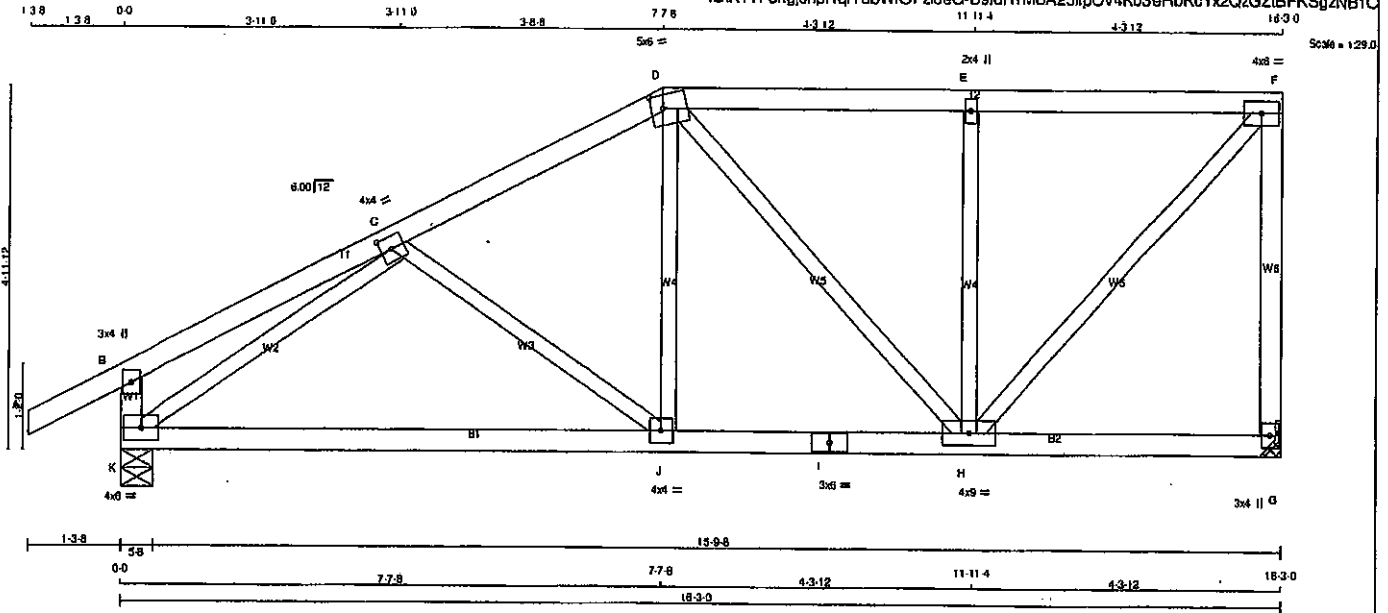


JSI GRIP= 0.71 (H) (INPUT = 0.90)
JSI METAL= 0.32 (I) (INPUT = 1.00)



JOB NAME 408170	TRUSS NAME T51	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMV+p	MT20	3.0	4.0
C	TMWW-1	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	TMW-1	MT20	4.0	6.0
G	BMV1+p	MT20	3.0	4.0
H	BMWW-1	MT20	4.0	9.0
I	BS-1	MT20	3.0	6.0
J	BMWW-1	MT20	4.0	4.0
K	BMVW1-1	MT20	4.0	8.0

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER									
BEARINGS									
JT	VERT	HORZ	FACTORED	MAXIMUM FACTORED	INPUT	RECORD			
G	896	0	896	0	0	5-8	5-8		
K	1020	0	1020	0	0	5-8	5-8		

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

UNFACTORED REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
G	633	416 / 0	0 / 0	0 / 0	0 / 0	218 / 0	0 / 0
K	719	485 / 0	0 / 0	0 / 0	0 / 0	234 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.21 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING									
TOTAL LOAD CASES: (4)									
CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED HORIZ. LOAD (LC)	MAX. FACTORED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORIZ. LOAD (LC)	MAX. FACTORED LENGTH (LC)	
FR-TO		FROM	TO		FR-TO		FROM	TO	
A-B	0 / 28	-91.8	-91.8	0.12 (1)	10.00	C-J	-215 / 0	0.08 (1)	
B-C	0 / 17	-91.8	-91.8	0.20 (1)	10.00	J-D	0 / 266	0.06 (1)	
C-D	-901 / 0	-91.8	-91.8	0.22 (1)	6.21	D-H	-210 / 0	0.14 (1)	
D-E	-654 / 0	-91.8	-91.8	0.29 (1)	6.25	H-E	-488 / 0	0.18 (1)	
E-F	-654 / 0	-91.8	-91.8	0.29 (1)	6.25	H-F	0 / 961	0.22 (1)	
F-G	-658 / 0	0.0	0.0	0.35 (1)	7.81	K-C	-1192 / 0	0.43 (1)	
K-B	-261 / 0	0.0	0.0	0.03 (1)	7.81				
K-J	0 / 965	-18.5	-18.5	0.30 (4)	10.00				
J-I	0 / 796	-18.5	-18.5	0.30 (4)	10.00				
I-H	0 / 796	-18.5	-18.5	0.30 (4)	10.00				
H-G	0 / 0	-18.5	-18.5	0.08 (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, NBC 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.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.54")
CALCULATED VERT. DEFL. (LL) = L/999 (0.02")
ALLOWABLE DEFL. (TL) = L/360 (0.54")
CALCULATED VERT. DEFL. (TL) = L/999 (0.12")

CSI: TC=0.35/1.00 (F-G:1), BC=0.30/1.00 (J-K:4), WB=0.43/1.00 (C-K:1), SSI=0.19/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

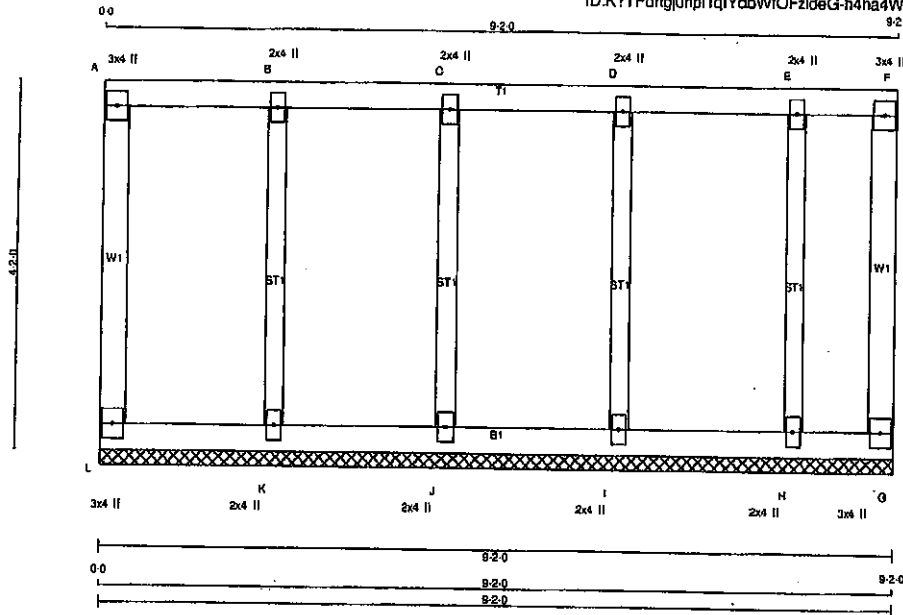
JSI GRIP = 0.86 (C) (INPUT = 0.90)
JSI METAL = 0.40 (C) (INPUT = 1.00)



Structural component only
DWG# T-2007180

JOB NAME 408170	TRUSS NAME G52	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. Sat Apr 25 13:02:13 2020 Page 1	

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LUMBER
N. L. G. A. RULES
CHORDS SIZE LUMBER
L - A 2x4 DRY No.2
A - F 2x4 DRY No.2
G - F 2x4 DRY No.2
L - G 2x4 DRY No.2
ALL WEBS 2x3 DRY No.2
ALL GABLE WEBS 2x3 DRY No.2
DRY: SEASONED LUMBER.
GABLE STUDS SPACED AT 2'-0" OC.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
A TMV+p	MT20	3.0	4.0		
B, C, D, E					
B TMV+w	MT20	2.0	4.0		
F TMV+p	MT20	3.0	4.0		
G BMV1+p	MT20	3.0	4.0		
H, I, J, K					
H BMV1+w	MT20	2.0	4.0		
L BMV1+p	MT20	3.0	4.0		

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER
PROVIDE ADEQUATE DRAINAGE TO PREVENT PONDING.
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 = 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. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
L-A	-100 / 0	0.0 0.0	0.02 (1)	7.81	K-B	-245 / 0	0.08 (1)
A-B	-4 / 0	-114.3 -114.3	0.08 (1)	10.00	J-C	-224 / 0	0.08 (1)
B-C	-4 / 0	-114.3 -114.3	0.08 (1)	10.00	I-D	-238 / 0	0.08 (1)
C-D	-4 / 0	-114.3 -114.3	0.07 (1)	10.00	H-E	-188 / 0	0.08 (1)
D-E	-4 / 0	-114.3 -114.3	0.07 (1)	10.00			
E-F	-4 / 0	-114.3 -114.3	0.05 (1)	10.00			
G-F	-54 / 0	0.0 0.0	0.02 (1)	7.81			
L-K	0 / 4	-18.5 -18.5	0.02 (4)	10.00			
K-J	0 / 4	-18.5 -18.5	0.02 (4)	10.00			
J-I	0 / 4	-18.5 -18.5	0.02 (4)	10.00			
I-H	0 / 4	-18.5 -18.5	0.02 (4)	10.00			
H-G	0 / 4	-18.5 -18.5	0.01 (4)	10.00			

TOTAL WEIGHT = 41 lb [M/R]

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 15.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.4 PSF
TOTAL LOAD = 48.0 PSF

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON A SLOPE OF 0.00/12

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 086-09, 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=0.08/1.00 (B-C:1), BC=0.02/1.00 (J-K:4), WB=0.09/1.00 (B-K:1), SSI=0.13/1.00 (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
FLAT ROOF FACTOR = 0.75

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

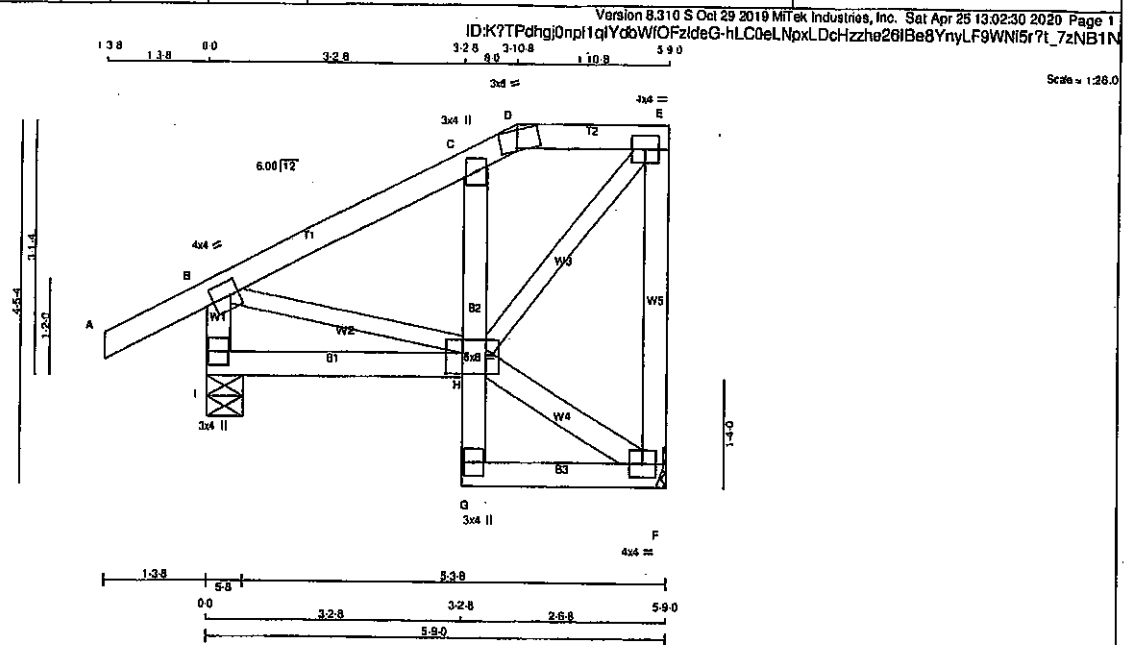
PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP=0.17 (B) (INPUT = 0.90)
JSI METAL=0.07 (K) (INPUT = 1.00)



Structural component only
DWG# T-2007166

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408170	T53S	1	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 - E	2x4	DRY	No.2
F - E	2x4	DRY	No.2
I - B	2x4	DRY	No.2
I - H	2x4	DRY	No.2
G - C	2x4	DRY	No.2
G - F	2x4	DRY	No.2
ALL WEBS	2x4	DRY	No.2
EXCEPT			
B - H	2x3	DRY	No.2
H - E	2x3	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (tablets in inches)					
JT	TYPE	PLATES	W	LEN	Y X
A	TMVW-I	MT20	4.0	4.0	2.00 1.25
C	TMVW-p	MT20	3.0	4.0	
D	TT-m	MT20	3.0	8.0	0.50 2.50
E	TMVW-I	MT20	4.0	4.0	
F	BMVW-I	MT20	4.0	4.0	
G	BMVW-p	MT20	3.0	4.0	
H	BMVW-W-I	MT20	5.0	8.0	3.00 2.50
I	BMVW-I	MT20	3.0	4.0	

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

BEARINGS		FACTORED	MAXIMUM FACTORED	INPUT	RECORD
JT	GROSS REACTION	GROSS REACTION	GROSS REACTION	BRG	BRG
F	VERT	HORZ	DOWN	HORZ	UPLIFT
302	0	302	0	0	5-8
457	0	457	0	0	5-8

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

UNFACTORED REACTIONS		1ST LCASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
214	138/0	0/0	0/0
320	225/0	0/0	0/0

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 = 7.81 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.	FACTORED	FACTORED	FACTORED	MEMB.	FACTORED	FACTORED	FACTORED
	FORCE	VERT. LOAD	LC1 MAX		FORCE	MAX	MAX
	(LBS)	(PLF)	CSI (LC)		(LBS)	CSI (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	0/28	-91.8	-91.8 0.12 (1)	10.00	H-F	-10/0	0.00 (1)
B-C	-217/0	-91.8	-91.8 0.14 (1)	6.25	B-H	0/153	0.03 (1)
C-D	-200/0	-91.8	-91.8 0.05 (1)	8.25	H-E	0/247	0.08 (1)
D-E	-167/0	-91.8	-91.8 0.03 (1)	8.25			
F-E	-273/0	0.0	0.0 0.03 (1)	7.81			
I-B	-420/0	0.0	0.0 0.04 (4)	7.81			
I-H	0/41	-18.5	-18.5 0.05 (4)	10.00			
G-H	0/25	0.0	0.0 0.02 (1)	10.00			
H-C	-188/0	0.0	0.0 0.04 (1)	7.81			
G-F	0/16	-18.5	-18.5 0.02 (4)	10.00			

TOTAL WEIGHT = 33 lb [M]

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 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 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 (0.19")
CALCULATED VERT. DEFL. (LL) = L/998 (0.00")
ALLOWABLE DEFL. (TL) = L/360 (0.19")
CALCULATED VERT. DEFL. (TL) = L/999 (0.00")

CSI: TC=0.14/1.00 (B-C:1), BC=0.05/1.00 (H-I:4), WB=0.08/1.00 (E-H:1), SSI=0.11/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

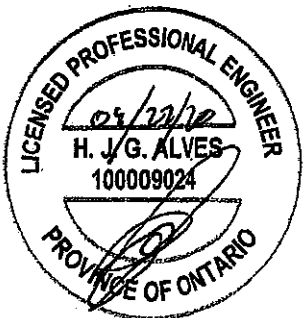
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES			
PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	818 354	1667 788	1887 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.36 (H) (INPUT = 0.90)
JSI METAL = 0.13 (B) (INPUT = 1.00)



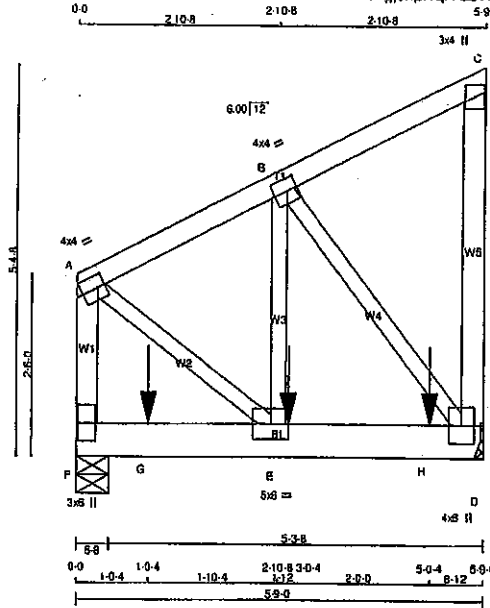
Structural component only
DWG# T-2007181

Structural component only
DWG# T-2007182

JOB NAME 408170	TRUSS NAME T55	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.310 8 Oct 29 2019 Mittek Industries, Inc. Sat Apr 25 13:02:32 2020 Page 1
IDK?TPdhqj0npl1qVdbW/OFzKdeG-dkKm30C3SzTJWH74mT9mG3DvHl_9dNX?Z9U_2?zNB1L



Scale = 1/20.2

LUMBER					DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER		
F - A	2x4	DRY	No.2	SPF	
A - C	2x4	DRY	No.2	SPF	
D - C	2x4	DRY	No.2	SPF	
F - D	2x6	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		
F - A 1 12	TOP	
A - C 1 12	TOP	
C - D 1 12	TOP	
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
F - D 2 12	SIDE (183.1)	
WEBS : (0.122"x3") SPIRAL NAILS		
B - E 1 6	SIDE (45.6)	
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 PLYS FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.

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

PLATES (table in inches)

JT TYPE	PLATES	W	LEN	Y	X
A TMVW-t	MT20	4.0	4.0	2.00	1.25
B TMVW-t	MT20	4.0	4.0	2.00	1.75
C TMV+p	MT20	3.0	4.0		
D BMVW1+p	MT20	4.0	6.0		
E BMVW-t	MT20	5.0	6.0		

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORIZ	DOWN	HORIZ	UPLIFT
F	1589	0	1589	0	5-8
D	1880	0	1880	0	MECHANICAL

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	1121	750 / 0	0 / 0	0 / 0	0 / 0	0 / 0	371 / 0	0 / 0
D	1185	792 / 0	0 / 0	0 / 0	0 / 0	0 / 0	384 / 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 = 8.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED HORZ. LOAD (LBS)
F-A	-1074 / 0	0.0	0.0
A-B	-867 / 0	-91.8	-91.8
B-C	-12 / 0	-91.8	-91.8
D-C	-105 / 0	0.0	0.0
F-G	0 / 0	-18.5	-18.5
G-E	0 / 0	-18.5	-18.5
E-H	0 / 786	-18.5	-18.5
H-D	0 / 786	-18.5	-18.5

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	3-0-4	-877	-877	--	BACK	VERT	TOTAL	--	C1
G	1-0-4	-877	-877	--	BACK	VERT	TOTAL	--	C1
H	5-0-4	-880	-880	--	BACK	VERT	TOTAL	--	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 34 = 67 lb [M]

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
OL = 6.0 PSF
BOT CH. LL = 0.0 PSF
OL = 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, 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 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.07/1.00 (A-F:1), BC=0.21/1.00 (D-E:1), WB=0.21/1.00 (B-D:1), SS=0.20/1.00 (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.

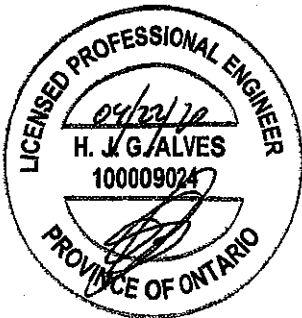
NAIL VALUES

PLATE GRIP (OR) Y 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 = 0.72 (A) (INPUT = 0.90)
JSI METAL = 0.18 (D) (INPUT = 1.00)



Structural component only
DWG# T-20071831/2

CONTINUED ON PAGE 2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408170	T55	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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ID:K?TFdhqjQnpltdYdbWOFzldG-dkKm30C3SzTJWH74mT9mG3DyHl 9dNX?Z9U 27zNB1L

PLATES (table is in inches)
JT TYPE PLATES W LEN Y X
F BMV1+p MT20 3.0 6.0



Structural component only
DWG# T-2007183

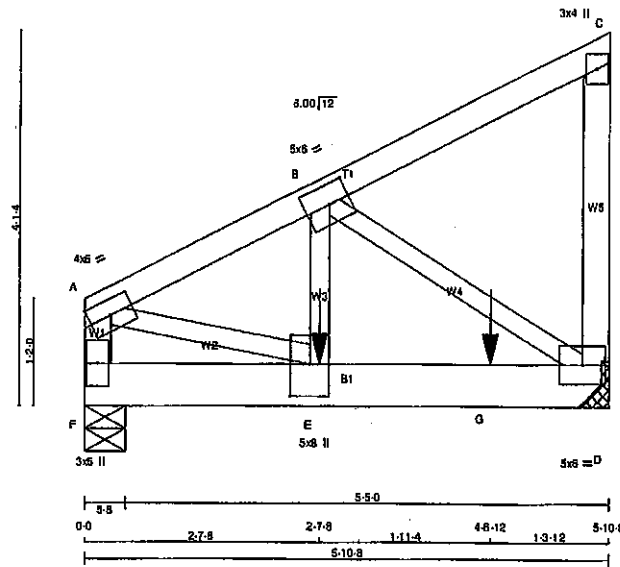
JOB NAME 408170	TRUSS NAME T56	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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ID:K?TPdhgJOnp1tqYdbWOFzIdG-6wu8GMPIDGbA8RIGJAg?cHm499FsMnS8opDXbRzNB1K

Scale = 1:25.0



TOTAL WEIGHT = 2 X 29 = 57 lb

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
F - A	2x4	DRY	No.2
A - C	2x4	DRY	No.2
D - C	2x4	DRY	No.2
F - D	2x6	DRY	No.2
ALL WEBS	2x3	DRY	No.2
DRY: SEASONED LUMBER.			

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
F-A	12	TOP
A-C	12	TOP
C-D	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
F-D	5	SIDE(549.3)
WEBS : (0.122"x3") SPIRAL NAILS		
B-E	2	SIDE(259.5)
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 TRANSFERRING. REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
A	TMVW-1	MT20	4.0	6.0	Edge
B	TMVW-1	MT20	5.0	6.0	2.50 2.75
C	TMVW-1	MT20	3.0	4.0	
D	BMVW-1	MT20	5.0	6.0	
E	BMVW-1	MT20	5.0	8.0	4.25 2.50

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
F	2334	0	2334	0	0	5-8	5-8
D	2733	0	2733	0	0	MECHANICAL	

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

UNFACTORED REACTIONS							
JT	1ST LOASE	MAX/MIN. COMPONENT REACTIONS	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	1845	1103/0	0/0	0/0	0/0	543/0	0/0
D	1929	1290/0	0/0	0/0	0/0	639/0	0/0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.20 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
F-A	-2316 / 0	0.0	0.0 0.13 (1)	A-E	0 / 2888	0.36 (1)	
A-B	-3101 / 0	-91.8	-91.8 0.08 (1)	E-B	0 / 2880	0.36 (1)	
B-C	-5 / 0	-91.8	-91.8 0.08 (1)	B-D	-3303 / 0	0.42 (1)	
D-C	-138 / 0	0.0	0.0 0.02 (1)				
F-E	0 / 0	-18.5	-18.5 0.01 (4)				
E-G	0 / 2779	-18.5	-18.5 0.57 (1)				
G-D	0 / 2779	-18.5	-18.5 0.57 (1)				

FACTORED CONCENTRATED LOADS (LBS)							
JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
E	2-7-8	-3101	-3101	---	BACK	VERT	TOTAL
G	4-6-12	-1318	-1318	---	BACK	VERT	TOTAL

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. 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 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 (0.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.13/1.00 (A-F:1), BC=0.57/1.00 (D-E:1),
WB=0.42/1.00 (B-D:1), SS=0.27/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (E) (INPUT = 0.80)
JSI METAL = 0.50 (E) (INPUT = 1.00)



Structural component only
DWG# T-2007184 1/2

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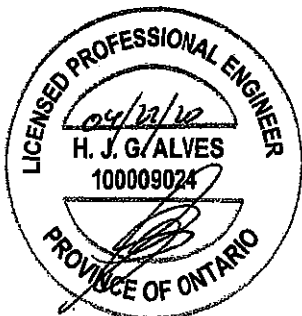
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408170	T56	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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PLATES (table in inches)

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

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

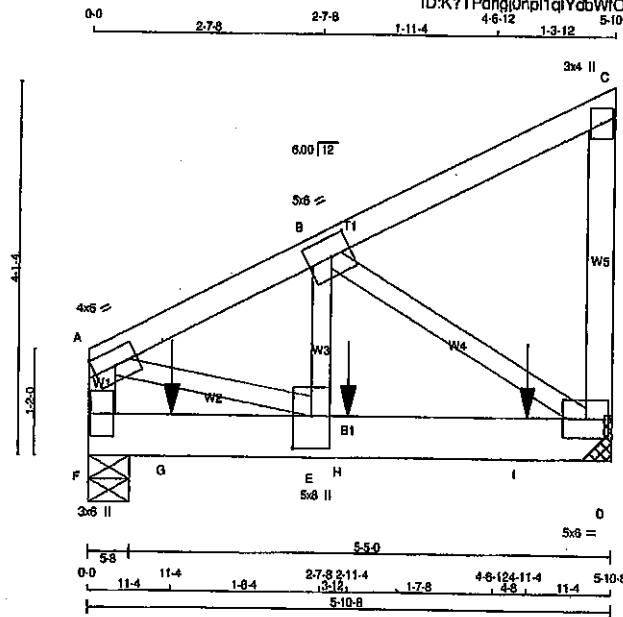


Structural component only
DWG# T-2007184 3/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
412082	T56Z	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

Version 8.330 S May 8 2020 MITek Industries, Inc. Fri Aug 21 08:08:11 2020 Page 1
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Scale = 1:23.4



TOTAL WEIGHT = 2 X 29 = 57 lb

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
F - A	2x4	DRY	No.2
A - C	2x4	DRY	No.2
D - C	2x4	DRY	No.2
F - D	2x8	DRY	No.2
ALL WEBS	2x3	DRY	No.2
DRY: SEASONED LUMBER.			

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD (PLF)
TOP CHORDS: (0.122"x3") SPIRAL NAILS		
F-A	12	TOP
A-C	12	TOP
C-D	12	TOP
BOTTOM CHORDS: (0.122"x3") SPIRAL NAILS		
F-D	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 is in inches)	JT TYPE	PLATES	W	LEN	Y	X
A - TMVW-t	MT20	4.0	6.0	Edge		
B - TMVW-t	MT20	5.0	6.0	2.50	2.75	
C - TMVW-p	MT20	3.0	4.0			
D - BMVW1-t	MT20	5.0	6.0			
E - BMVW-t	MT20	5.0	8.0	4.25	2.50	
F - BMV1-p	MT20	3.0	8.0			

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
F	972	0	972	0	5-8
D	1907	0	1907	0	0

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

UNFACTORED REACTIONS

JT	1ST LCASE	MAX / MIN	COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	680	487 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	194 / 0	0 / 0
D	1343	914 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	429 / 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 = 6.25 FT. MAX. UNSHEATHED 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	
F-A	-920 / 0	A-E	0 / 1088
A-B	-1153 / 0	E-B	0 / 889
B-C	-11 / 0	B-D	-1240 / 0
D-C	-125 / 0		
F-G	0 / 0		
G-E	0 / 0		
E-H	0 / 1043		
H-I	0 / 1043		
I-D	0 / 1043		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	11-4	-258	-258	---	---	---	---	---	C1
H	2-11-4	-348	-348	---	---	---	---	---	C1
I	4-11-4	-1629	-1629	---	---	---	---	---	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. OC

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPC 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 (0.20")
CALCULATED VERT. DEFL. (LL) = L/999 (0.01")
ALLOWABLE DEFL. (TL) = L/360 (0.20")
CALCULATED VERT. DEFL. (TL) = L/999 (0.03")

CSI: TC=0.06/1.00 (B-C:1), BC=0.45/1.00 (D-E:1), WB=0.18/1.00 (B-D:1), SSI=0.37/1.00 (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 (PS)	SECTION (PLI)
MT20	850	371	1747
	1747	788	1887

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.31 (E) (INPUT = 0.90)
JSI METAL = 0.19 (E) (INPUT = 1.00)



Structural component only
DWG# T-2018858

JOB NAME 412083	TRUSS NAME T200	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

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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	3.00	2.00
D, F, I						
D	TMWV-t	MT20	5.0	6.0		
E	TMW+w	MT20	3.0	6.0		
G	TMW+w	MT20	3.0	6.0		
H	TS-t	MT20	5.0	6.0		
J	TTWW+m	MT20	5.0	8.0	3.00	2.00
K	TMWV-p	MT20	5.0	8.0	Edge	
M	BMV1+p	MT20	3.0	6.0		
N	BMWV-t	MT20	5.0	8.0	2.50	3.75
O	BMWV-t	MT20	6.0	9.0	4.50	2.00
P	BS-t	MT20	5.0	6.0		
Q	BMWV-t	MT20	5.0	8.0		
R	BMWV-t	MT20	5.0	8.0		
S	BS-t	MT20	5.0	6.0		
T	BMWV-t	MT20	6.0	9.0	4.50	2.00
U	BMWV-t	MT20	5.0	8.0	2.50	3.75
V	BMV1+p	MT20	3.0	6.0		

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

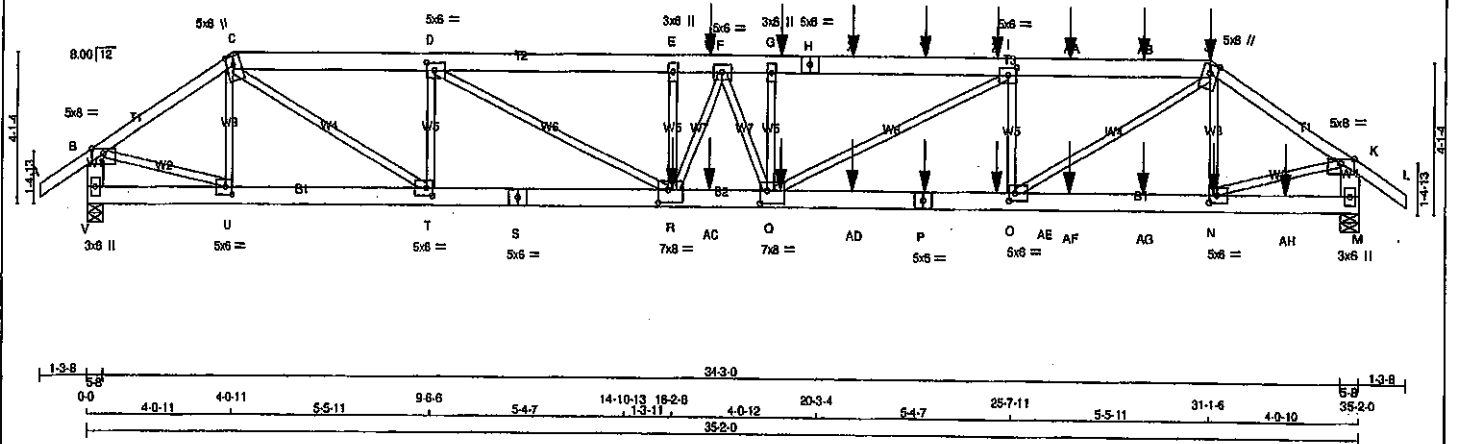
CONNECTION REQUIREMENTS

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



Structural component only
DWG# T-2018864 2/2

JOB NAME 412083	TRUSS NAME T200Z	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWG NO.
Tamarack Roof Truss, Burlington				Version 8.330 5 May 6 2020 Mtek Industries, Inc. Fri Aug 21 09:14:10 2020 Page 1	
ID:K?TPdhqj0npl1qYcbWfOfZdeG-NdNbDmCjOv3?xSK627?6CvjsBu76903kabbABylh7R				35-2-0 35-5-8 1-3-8	
1-3-8 0-0 4-0-11 4-0-11 5-5-11 9-6-6 5-4-7 14-10-13 2-8-3 17-7-0 2-8-4 20-3-4 5-4-7 25-7-11 5-5-11 31-1-6 4-0-10 35-2-0 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 - H	2x6	DRY No.2	SPF
H - J	2x6	DRY No.2	SPF
J - L	2x4	DRY No.2	SPF
V - B	2x6	DRY No.2	SPF
M - K	2x6	DRY No.2	SPF
V - S	2x6	DRY No.2	SPF
S - P	2x6	DRY No.2	SPF
P - M	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	12	TOP
J - L	12	SIDE(61.0)
C - H	12	SIDE(183.1)
H - J	12	SIDE(61.0)
V - B	12	TOP
M - K	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
V - S	12	TOP
S - P	12	SIDE(183.1)
P - M	12	SIDE(183.1)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	SIDE(385.5)
E - R	4	
G - Q	4	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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
V	3618	0	3618	0	5-8
M	4120	0	4120	0	5-8

UNFACTORED REACTIONS		1ST LOOSE	MAX/MIN	COMPONENT REACTIONS
		COMBINED	SNOW	LIVE
JT	2557	1889 / 0	0 / 0	0 / 0
V	2911	1924 / 0	0 / 0	0 / 0
M				

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. FURLIN 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.

LOADING
TOTAL LOAD CASES: (4)

CHORDS		MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
		MEMB.	FORCE (LBS)	MEMB.	FORCE (LBS)
		FR-TO	FROM TO	FR-TO	FROM TO
A-B	0 / 35	-91.8	-91.8 0.07 (1)	U-C	-808 / 0
B-C	-4310 / 0	-91.8	-91.8 0.23 (1)	C-T	0 / 5092
C-D	-7849 / 0	-91.8	-91.8 0.23 (1)	T-D	-2685 / 0
D-E	-11477 / 0	-91.8	-91.8 0.43 (1)	D-R	0 / 4135
E-W	-11477 / 0	-91.8	-91.8 0.25 (1)	R-E	-352 / 0
W-F	-11477 / 0	-91.8	-91.8 0.25 (1)	F-Q	-734 / 0
F-G	-11047 / 0	-91.8	-91.8 0.27 (1)	Q-I	0 / 3152
G-H	-11047 / 0	-91.8	-91.8 0.43 (1)	I-O	-2584 / 0
H-X	-11047 / 0	-91.8	-91.8 0.43 (1)	O-J	0 / 4063
X-Y	-11047 / 0	-91.8	-91.8 0.43 (1)	J-N	-871 / 0
Y-Z	-11047 / 0	-91.8	-91.8 0.43 (1)	B-U	0 / 3709
Z-I	-11047 / 0	-91.8	-91.8 0.43 (1)	N-K	0 / 4263
I-AA	-8280 / 0	-91.8	-91.8 0.31 (1)	R-F	0 / 597
AA-AB	-8280 / 0	-91.8	-91.8 0.31 (1)	F-Q	-624 / 0
AB-J	-8280 / 0	-91.8	-91.8 0.31 (1)		
J-K	-4952 / 0	-91.8	-91.8 0.26 (1)		
K-L	0 / 35	-91.8	-91.8 0.07 (1)		
V-B	-3593 / 0	0.0	0.0 0.13 (1)		
M-K	-4085 / 0	0.0	0.0 0.15 (1)		
V-U	0 / 0	-18.5	-18.5 0.02 (4)		
U-T	0 / 3820	-18.5	-18.5 0.25 (1)		
T-S	0 / 7848	-18.5	-18.5 0.60 (1)		
S-R	0 / 7848	-18.5	-18.5 0.60 (1)		
R-AC	0 / 11287	-18.5	-18.5 0.82 (1)		
AC-Q	0 / 11287	-18.5	-18.5 0.82 (1)		
Q-AD	0 / 8279	-18.5	-18.5 0.82 (1)		
AD-P	0 / 8279	-18.5	-18.5 0.82 (1)		
P-AE	0 / 8279	-18.5	-18.5 0.82 (1)		
AE-O	0 / 8279	-18.5	-18.5 0.82 (1)		
O-AP	0 / 4158	-18.5	-18.5 0.30 (1)		
AP-AG	0 / 4158	-18.5	-18.5 0.30 (1)		
AG-N	0 / 4158	-18.5	-18.5 0.30 (1)		
N-AH	0 / 0	-18.5	-18.5 0.04 (4)		
AH-M	0 / 0	-18.5	-18.5 0.04 (4)		

FACTORED CONCENTRATED LOADS (LBS)		LOC	LC1	MAX	MAX	FACE	DIR	TYPE	HEEL	CONN.
JT	19-2-12	-110	-110	---	---	BACK	VERT	TOTAL	---	C1
G	31-1-6	-49	-55	---	---	FRONT	VERT	DEAD	---	C1
J	31-1-6	-117	-117	---	---	BACK	VERT	TOTAL	---	C1
J	31-1-6	-254	-254	---	---	FRONT	VERT	SNOW	---	C1
N	31-2-12	-26	-26	---	---	BACK	VERT	TOTAL	---	C1

DESIGN CRITERIA

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

SPECIFIED LOADS:
TOP CH. LL = 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

*** NON STANDARD GIRDER ***
ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

THIS DESIGN COMPLIES WITH:
PART 9 OF CBC 2018, ABC 2018
PART 9 OF CBC 2012 (2019 AMENDMENT)
CSA 086-14
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 (0.28")
ALLOWABLE DEFL.(TL) = L/360 (1.17")
CALCULATED VERT. DEFL.(TL) = L/816 (0.52")

CSI: TC=0.43/1.00 (G-I); BC=0.82/1.00 (Q-R); WB=0.63/1.00 (C-T); SI=0.19/1.00 (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

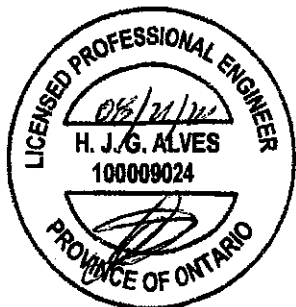
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES		PLATE GRIP(DRY)	SHEAR	SECTION
		(PSI)	(PL)	(PL)
MAX	MIN	MAX	MIN	MAX
MT20	650	371	1747	788
				1997

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.89 (J) (INPUT = 0.80)
JSI METAL = 0.78 (S) (INPUT = 1.00)



Structural component only
DWG# T-2018865 1/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
412083	T200Z	1	2	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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PLATES (table in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMW-p	MT20	5.0	8.0	Edge	
C	TTWW+m	MT20	5.0	8.0	Edge	
D	TMWW-l	MT20	5.0	8.0	2.50	2.75
E	TMW-w	MT20	3.0	6.0		
F	TMWW-l	MT20	5.0	6.0		
G	TMW-w	MT20	3.0	6.0		
H	TS-l	MT20	5.0	6.0		
I	TMWW-l	MT20	5.0	6.0	2.50	2.75
J	TTWW+m	MT20	5.0	8.0	Edge	
K	TMW-p	MT20	5.0	8.0	Edge	
M	BMV1+p	MT20	3.0	6.0		
N	BMWW-l	MT20	5.0	6.0	2.50	2.50
O	BMWW-l	MT20	5.0	6.0	2.50	2.00
P	BS-l	MT20	5.0	6.0		
Q	BMWW-l	MT20	7.0	8.0	4.25	2.25
R	BMWW-l	MT20	7.0	8.0	4.25	3.25
S	BS-l	MT20	5.0	6.0		
T	BMWW-l	MT20	5.0	6.0	2.50	2.00
U	BMWW-l	MT20	5.0	6.0	2.50	2.50
V	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
P	23-2-12	-28	-28	---	BACK	VERT	TOTAL	---	C1
Q	19-2-12	-28	-28	---	BACK	VERT	TOTAL	---	C1
R	16-2-8	-2180	-2180	---	BACK	VERT	TOTAL	---	C1
W	17-2-12	-110	-110	---	BACK	VERT	TOTAL	---	C1
X	21-2-12	-110	-110	---	BACK	VERT	TOTAL	---	C1
Y	23-2-12	-110	-110	---	BACK	VERT	TOTAL	---	C1
Z	25-2-12	-110	-110	---	BACK	VERT	TOTAL	---	C1
AA	27-2-12	-110	-110	---	BACK	VERT	TOTAL	---	C1
AB	28-2-12	-110	-110	---	BACK	VERT	TOTAL	---	C1
AC	17-2-12	-28	-28	---	BACK	VERT	TOTAL	---	C1
AD	21-2-12	-28	-28	---	BACK	VERT	TOTAL	---	C1
AE	25-2-12	-28	-28	---	BACK	VERT	TOTAL	---	C1
AF	27-2-12	-28	-28	---	BACK	VERT	TOTAL	---	C1
AG	28-2-12	-28	-28	---	BACK	VERT	TOTAL	---	C1
AH	33-2-12	-28	-28	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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



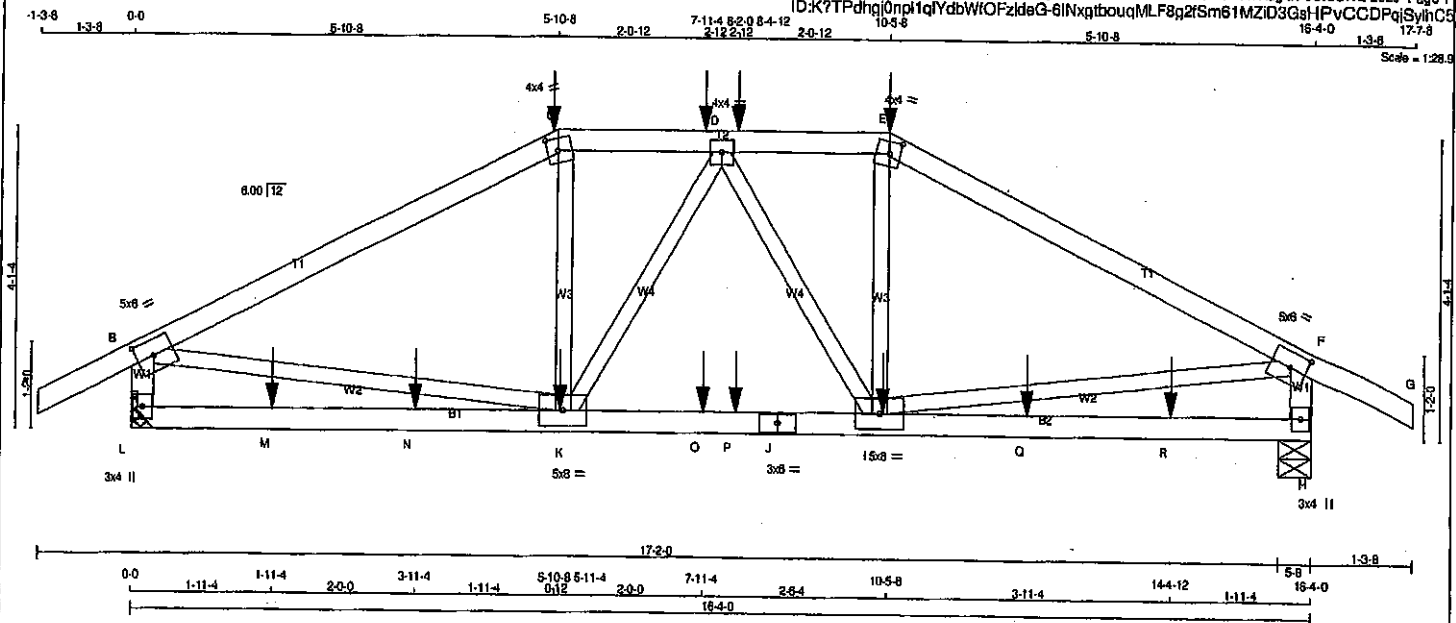
Structural component only
DWG# T-2018865 9/2

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
412082	T300	1	1	GREEN PARK HOMES	

Tamarack Roof Truss, Burlington

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TOTAL WEIGHT = 66 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		
E - G	2x4	DRY	No.2	SPF		
L - B	2x4	DRY	No.2	SPF		
H - F	2x4	DRY	No.2	SPF		
L - J	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 is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMW-t	MT20	5.0	6.0	2.50	2.75
C	TTW-m	MT20	4.0	4.0	2.00	1.75
D	TMW-t	MT20	4.0	4.0		
E	TTW-m	MT20	4.0	4.0	2.00	1.75
F	TMW-t	MT20	5.0	6.0	2.50	2.75
H	BMV1-p	MT20	3.0	4.0		
I	BMWW-t	MT20	5.0	8.0		
J	BS-t	MT20	3.0	6.0		
K	BMWW-t	MT20	5.0	8.0		
L	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	HORIZ	DOWN	HORIZ
L	1847	0	1847	0
H	1847	0	1847	0

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

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
L	1164	788 / 0	0 / 0	0 / 0	0 / 0	0 / 0	396 / 0	0 / 0
H	1164	788 / 0	0 / 0	0 / 0	0 / 0	0 / 0	396 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.67 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	LOC	MAX	MAX	MEMB.	MAX. FACTORED	FACTORED	VERT. LOAD	LOC	MAX	MAX	MEMB.
FR-TO														
A-B	0 / 28	-91.8	-91.8	0.13	(1)	10.00	K-C	0 / 161	0.06	(4)				
B-C	-2058 / 0	-91.8	-91.8	0.81	(1)	3.67	I-E	0 / 161	0.06	(4)				
C-D	-1848 / 0	-91.8	-91.8	0.11	(1)	4.82	B-K	0 / 1858	0.46	(1)				
D-E	-1848 / 0	-91.8	-91.8	0.11	(1)	4.82	I-F	0 / 1858	0.46	(1)				
E-F	-2058 / 0	-91.8	-91.8	0.81	(1)	3.67	K-D	-258 / 0	0.09	(1)				
F-G	0 / 28	-91.8	-91.8	0.13	(1)	10.00	O-I	-258 / 0	0.09	(1)				
L-B	-1578 / 0	0.0	0.0	0.16	(1)	6.53								
H-F	-1578 / 0	0.0	0.0	0.16	(1)	6.53								
L-M	0 / 0	-18.5	-18.5	0.26	(4)	10.00								
M-N	0 / 0	-18.5	-18.5	0.26	(4)	10.00								
N-K	0 / 0	-18.5	-18.5	0.26	(4)	10.00								
K-O	0 / 1972	-18.5	-18.5	0.46	(1)	10.00								
O-P	0 / 1972	-18.5	-18.5	0.46	(1)	10.00								
P-J	0 / 1972	-18.5	-18.5	0.46	(1)	10.00								
J-I	0 / 1972	-18.5	-18.5	0.46	(1)	10.00								
I-Q	0 / 0	-18.5	-18.5	0.26	(4)	10.00								
Q-R	0 / 0	-18.5	-18.5	0.26	(4)	10.00								
R-H	0 / 0	-18.5	-18.5	0.26	(4)	10.00								

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LOC1	MAX	MAX	FACE	DIR.	TYPE	HEEL	CONN.
C	5-10-8	-407	-407	---	FRONT	VERT	TOTAL	---	C1
D	7-11-4	-110	-110	---	FRONT	VERT	TOTAL	---	C1
E	8-4-12	-110	-110	---	FRONT	VERT	TOTAL	---	C1
F	10-5-8	-407	-407	---	FRONT	VERT	TOTAL	---	C1
I	10-4-12	-28	-28	---	FRONT	VERT	TOTAL	---	C1
K	5-11-4	-28	-28	---	FRONT	VERT	TOTAL	---	C1
M	1-11-4	-25	-25	---	FRONT	VERT	TOTAL	---	C1
N	3-11-4	-25	-25	---	FRONT	VERT	TOTAL	---	C1
O	7-11-4	-25	-25	---	FRONT	VERT	TOTAL	---	C1
P	8-4-12	-25	-25	---	FRONT	VERT	TOTAL	---	C1
Q	12-4-12	-25	-25	---	FRONT	VERT	TOTAL	---	C1
R	14-4-12	-25	-25	---	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 6.00/12

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2015, ABC 2019
- PART 9 OF CBC 2012 (2015 AMENDMENT)
- CSA D86-14
- 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) = $L/360$ (0.54")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.05")
ALLOWABLE DEFL.(TL) = $L/360$ (0.54")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.11")

CSI: TC=0.91/1.00 (E-F:1), BC=0.46/1.00 (I-K:1), WB=0.46/1.00 (F-I:1), SSI=0.21/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 650 371 1747 788 1997 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP=0.87 (K) (INPUT = 0.80)

JSI METAL=0.57 (J) (INPUT = 1.00)

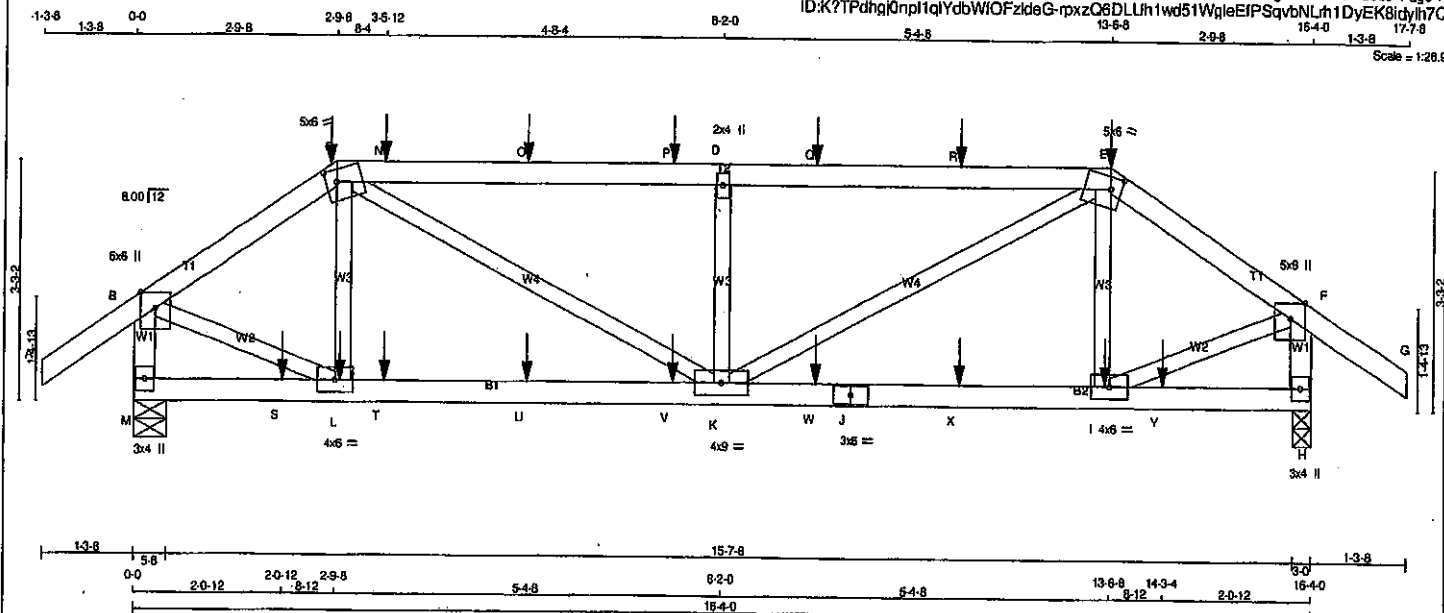


Structural component only
DWG# T-2018859

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
412083	T310	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 MTek Industries, Inc. Fri Aug 21 09:14:11 2020 Page 1
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JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
412083	T310	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
X	11-5-12	-7	-7	---	BACK	VERT	TOTAL	---	C1
Y	14-3-4	-9	-9	---	BACK	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

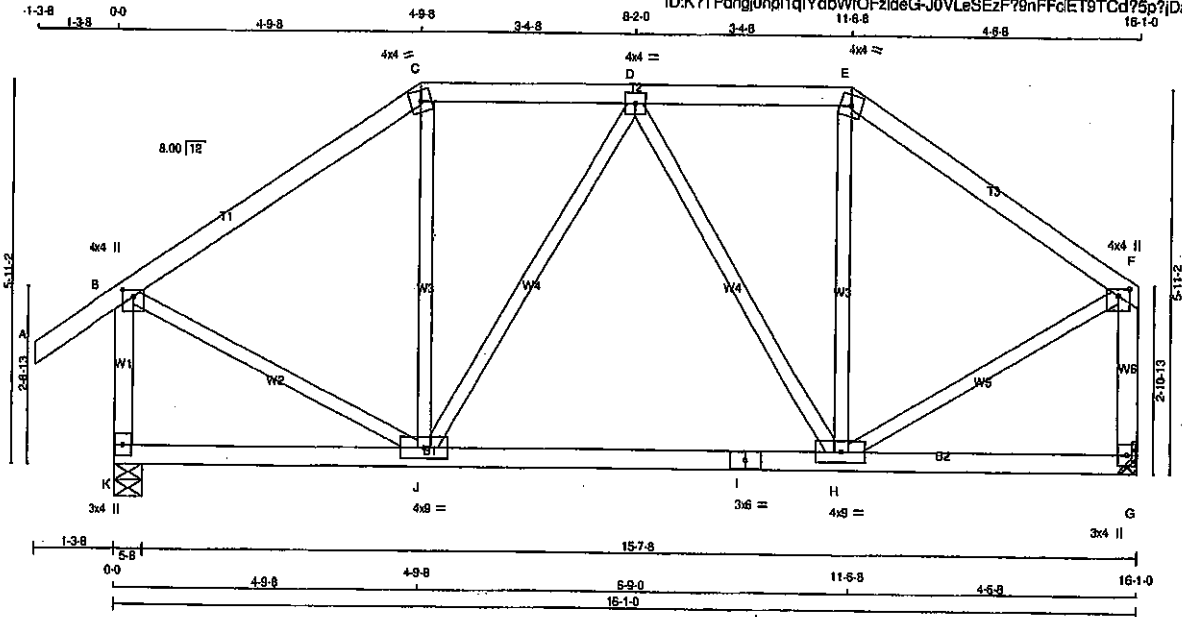


Structural component only
DWG# T-2018866 3/2

JOB NAME 412083	TRUSS NAME T311	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 MITek Industries, Inc. Fri Aug 21 09:14:12 2020 Page 1
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TOTAL WEIGHT = 73 lb
[M/F]

LUMBER					DESCR.	
N. L. G. A. RULES	CHORDS	SIZE	LUMBER			
A - C	2x4	DRY	No.2	SPF		
C - E	2x4	DRY	No.2	SPF		
E - F	2x4	DRY	No.2	SPF		
K - B	2x4	DRY	No.2	SPF		
G - F	2x4	DRY	No.2	SPF		
K - I	2x4	DRY	No.2	SPF		
I - 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	TMW+p	MT20	4.0	4.0	1.25	2.00
C	TTW-m	MT20	4.0	4.0		
D	TMWV+1	MT20	4.0	4.0		
E	TTW-m	MT20	4.0	4.0		
F	TMWV+p	MT20	4.0	4.0	1.25	2.00
G	BMV+p	MT20	3.0	4.0		
H	BMWVW-1	MT20	4.0	9.0		
I	BS-1	MT20	3.0	6.0		
J	BMWVW-1	MT20	4.0	9.0		
K	BMV+p	MT20	3.0	4.0		

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
K	1013	0	1013	0	0
G	887	0	887	0	0

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

UNFACTORED REACTIONS

JT	1ST LGASE	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
K	714	482 / 0	0 / 0	0 / 0	0 / 0	232 / 0	0 / 0
G	627	411 / 0	0 / 0	0 / 0	0 / 0	218 / 0	0 / 0

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

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)	MAX. FACTORED VERT. LOAD (PL)	MAX. FACTORED UNBRACED LENGTH (LBS)
FR-TO			
A-B	0 / 35	-91.8	10.00
B-C	-658 / 0	-91.8	6.25
C-D	-545 / 0	-91.8	6.25
D-E	-529 / 0	-91.8	6.25
E-F	-638 / 0	-91.8	6.25
K-B	-979 / 0	0.0	7.81
G-F	-856 / 0	0.0	7.81
K-J	0 / 0	-18.5	10.00
J-I	0 / 647	-18.5	10.00
I-H	0 / 647	-18.5	10.00
H-G	0 / 0	-18.5	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, NBC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2015, ABC 2018
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- 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 (0.54")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.54")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.28/1.00 (B-C:1), BC=0.20/1.00 (H-J:4), WB=0.18/1.00 (D-H:1), SS=0.15/1.00 (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) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.85 (B) (INPUT = 0.90)
JSI METAL= 0.21 (I) (INPUT = 1.00)

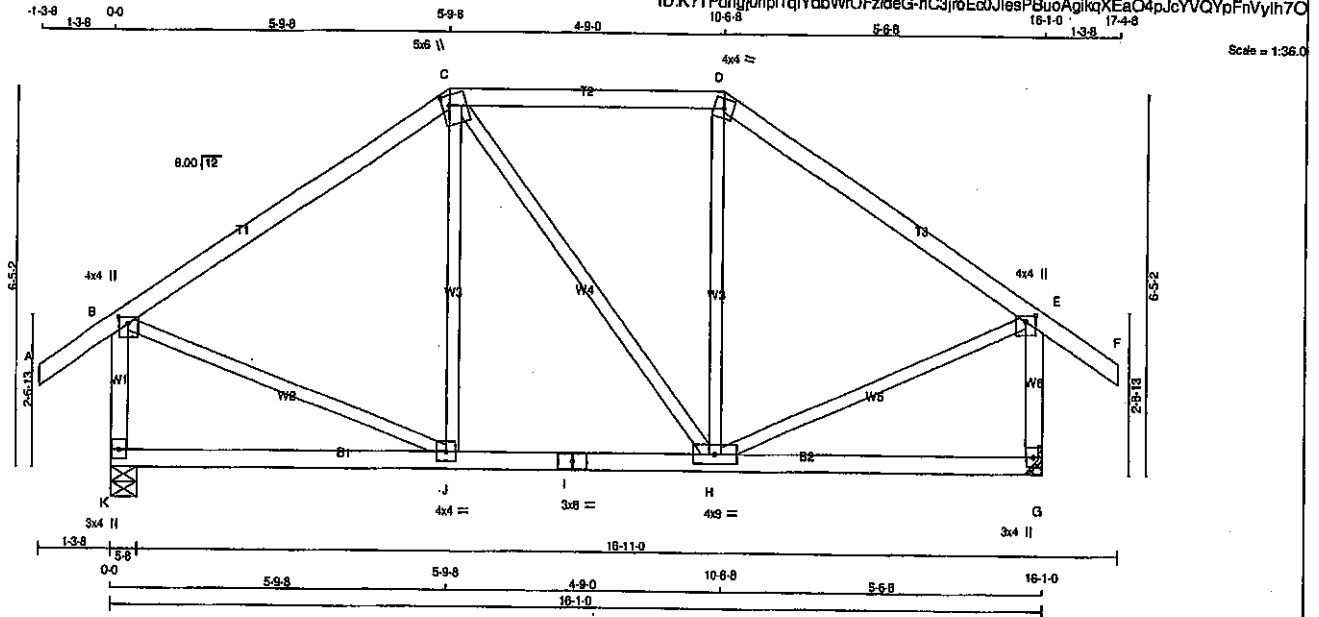


Structural component only
DWG# T-2018867

JOB NAME 412083	TRUSS NAME T312	QUANTITY 1	PLY 1	JOB DESC. GREEN PARK HOMES	DRWG NO.
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Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 Mitek Industries, Inc. Fri Aug 21 08:14:13 2020 Page 1
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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	
K - B	2x4	DRY	No.2	SPF	
G - E	2x4	DRY	No.2	SPF	
K - I	2x4	DRY	No.2	SPF	
I - G	2x4	DRY	No.2	SPF	
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.25	2.00
C	TTWV+m	MT20	5.0	8.0	2.00	1.50
D	TTW-m	MT20	4.0	4.0		
E	TMVW+p	MT20	4.0	4.0	1.25	2.00
G	BMV1+p	MT20	3.0	4.0		
H	BMVWW-t	MT20	4.0	9.0		
I	BS-t	MT20	3.0	6.0		
J	BMVW-t	MT20	4.0	4.0		
K	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
K	1013	0	1013	0
G	1013	0	1013	0

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

UNFACTORED REACTIONS

JT	1ST LOASE	MAX/MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
K	714	482/0	0/0	0/0	0/0	232/0	0/0
G	714	482/0	0/0	0/0	0/0	232/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO	UNBRAC	FR-TO			
A-B	0/35	-91.8	-91.8 0.12 (1)	10.00	J-C	-102/48	0.07 (1)
B-C	-859/0	-91.8	-91.8 0.40 (1)	8.25	C-H	-19/0	0.02 (1)
C-D	-534/0	-91.8	-91.8 0.27 (1)	8.25	H-D	-113/39	0.08 (1)
D-E	-845/0	-91.8	-91.8 0.37 (1)	8.25	B-J	0/586	0.13 (1)
E-F	0/35	-91.8	-91.8 0.12 (1)	10.00	H-E	0/583	0.13 (1)
K-B	-987/0	0.0	0.0 0.13 (1)	7.81			
G-E	-988/0	0.0	0.0 0.14 (1)	7.81			
K-J	0/0	-18.5	-18.5 0.13 (4)	10.00			
J-I	0/546	-18.5	-18.5 0.17 (4)	10.00			
I-H	0/546	-18.5	-18.5 0.17 (4)	10.00			
H-G	0/0	-18.5	-18.5 0.12 (4)	10.00			

TOTAL WEIGHT = 73 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./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 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2018
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-14
- 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) = $L/360$ (0.54")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.01")
ALLOWABLE DEFL.(TL) = $L/360$ (0.54")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.04")

CSI: TC=0.40/1.00 (B-C:1), BC=0.17/1.00 (H-J:4),
WB=0.13/1.00 (B-J:1), SSI=0.17/1.00 (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	650 371	1747 788

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.66 (B) (INPUT = 0.90)
JSI METAL = 0.20 (B) (INPUT = 1.00)

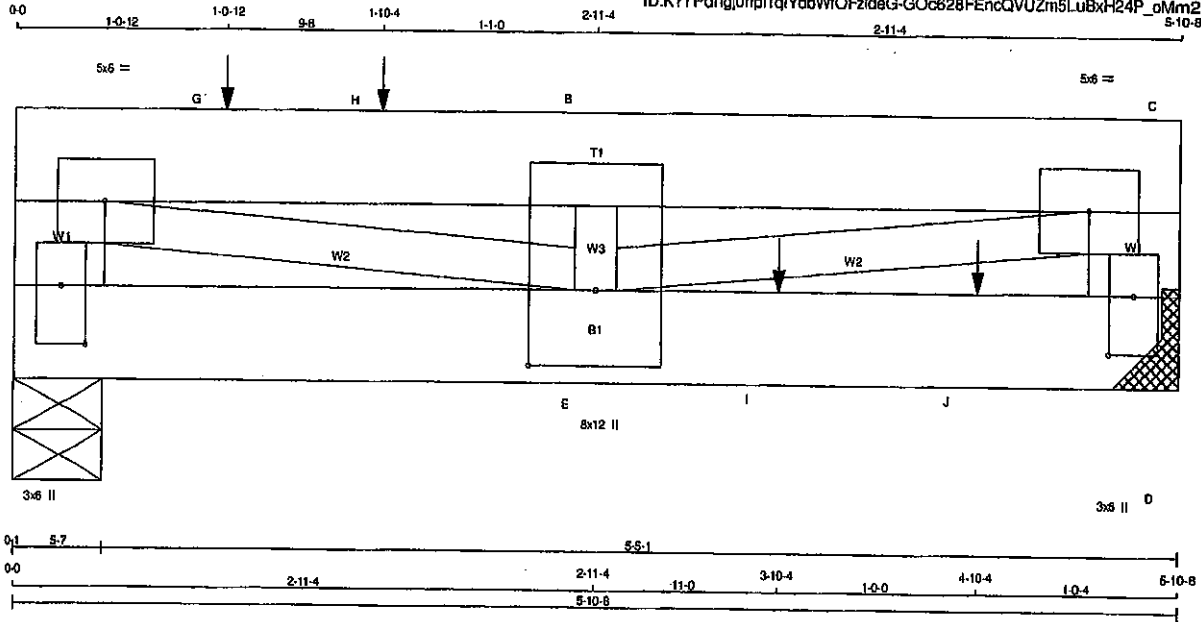


Structural component only
DWG# T-2018868

JOB NAME 412083	TRUSS NAME T313	QUANTITY 1	PLY 2	JOB DESC. GREEN PARK HOMES	DRWGNO.
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Tamarack Roof Truss, Burlington

Version 8.330 S May 6 2020 Mitek Industries, Inc. Fri Aug 21 09:14:14 2020 Page 1
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5-10-8



Scale = 1:10.8

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
F - A	2x6	DRY	No.2
A - C	2x8	DRY	No.2
D - C	2x8	DRY	No.2
F - D	2x6	DRY	No.2
ALL WEBS	2x3	DRY	No.2
DRY: SEASONED LUMBER.			

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		TOP
F - A	2	12
A - C	2	12
C - D	2	12
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		SIDE(14.0)
F - D	2	12
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	1	8

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 UOL 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 (tab/p is in inches)	JT TYPE	PLATES	W	LEN	Y	X
A	TMVW-1	MT20	5.0	6.0		
B						
C	TMVW-1	MT20	5.0	6.0		
D	BMV1+p	MT20	3.0	6.0	3.50	1.50
E						
F	TMBMWWW	MT20	8.0	12.0	4.50	4.00

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
F	1843	0	1843	0	5-8 (5-7)
D	2198	0	2198	0	MECHANICAL

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

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

UNFACTORED REACTIONS

1ST LOSE	MAX/MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM LIVE	WIND	DEAD	SOIL
F	1307	837/0	0/0	0/0	0/0	469/0	0/0
D	1558	1011/0	0/0	0/0	0/0	545/0	0/0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.58 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.

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
F-A	-1719/0	F-A	0/3328
A-G	-3189/0	A-E	0/3328
G-H	-3189/0	E-B	-949/0
H-B	-3189/0	E-C	0/3328
B-C	-3189/0		
D-C	-1155/0		
F-E	0/0		
E-I	0/0		
I-J	0/0		
J-D	0/0		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
G	1-0-12	-199	-199	---	TOP	VERT	---	C1
H	1-10-4	-1185	-1185	---	TOP	VERT	---	C1
I	3-10-4	-868	-868	---	FRONT	VERT	---	C1
J	4-10-4	-894	-894	---	FRONT	VERT	---	C1

CONNECTION REQUIREMENTS

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

TOTAL WEIGHT = 2 X 27 = 54 lb

DESIGN CRITERIA

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

SPECIFIED LOADS:

TOP CH.	LL	= 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. OC

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

*** NON STANDARD GIRDER ***

ADD'L USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2015, ABC 2015
- PART 9 OF CBC 2012 (2015 AMENDMENT)
- CSA 088-14
- 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 (0.20")

CALCULATED VERT. DEFL.(LL) = L/999 (0.03")

ALLOWABLE DEFL.(TL) = L/360 (0.20")

CALCULATED VERT. DEFL.(TL) = L/999 (0.06")

CSI: TC=0.42/1.00 (A-B:1), BC=0.39/1.00 (D-E:1),

WB=0.41/1.00 (A-E:1), SS=0.35/1.00 (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 (PS)	(PL)	(PL)
MAX	MIN	MAX	MIN
MT20	650	371	1747

PLATE PLACEMENT TOL. = 0.250 inches

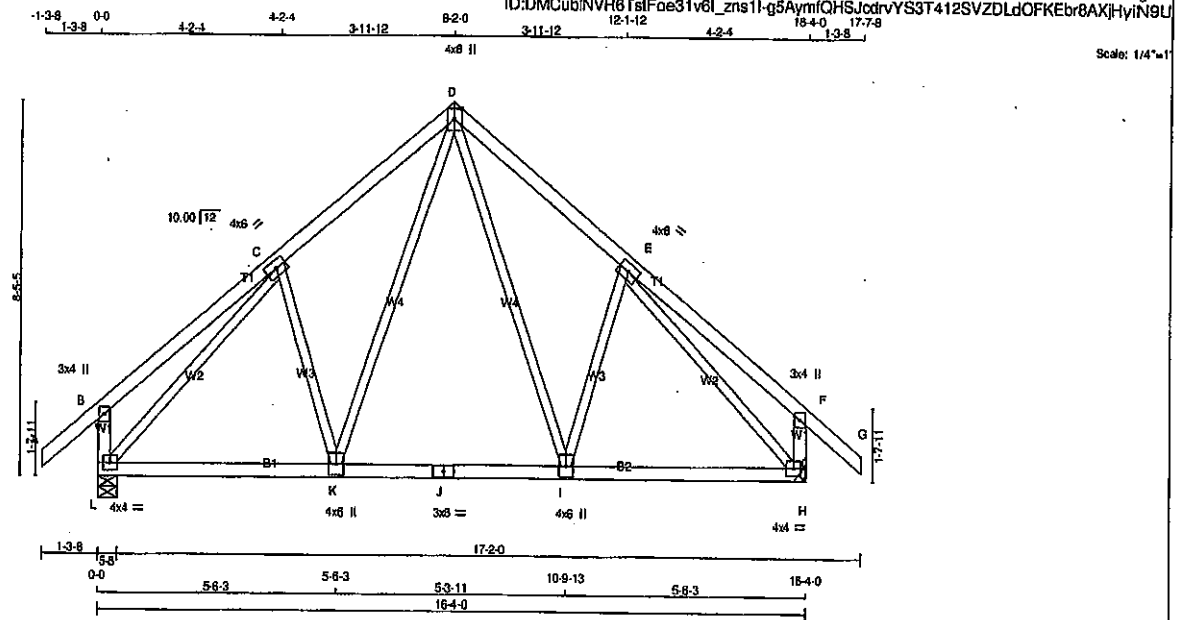
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (E) (INPUT = 0.90)
JSI METAL= 0.36 (C) (INPUT = 1.00)



Structural component only
DWG# T-2018869

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
412345	T500	3	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					



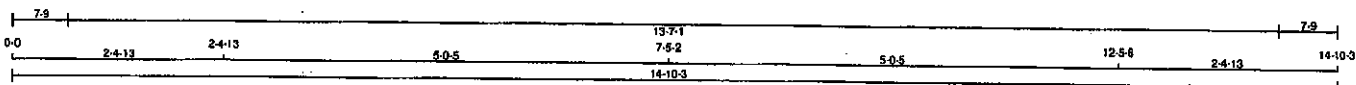
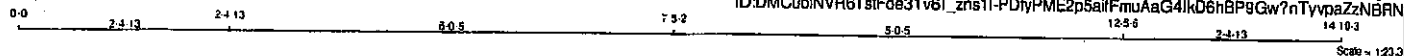
LUMBER					
N. L. G. A. RULES					
CHORDS		SIZE	LUMBER	DESCR	
A - D	2x4	DRY	No.2	SPF	
O - G	2x4	DRY	No.2	SPF	
L - B	2x4	DRY	No.2	SPF	
H - F	2x4	DRY	No.2	SPF	
L - J	2x4	DRY	No.2	SPF	
J - H	2x4	DRY	No.2	SPF	
ALL WEBS		2x3	DRY	No.2	SPF

Structural component only
DWG# T-2019648

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408168	PB1	3	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:DMCubINVR6TstFoe31v6I_zns11-PDtyPME2p5aifmuAaG4lkD6hBPgGw7nTyypaZzNBRN



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

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMB1-I	MT20	3.0	4.0	1.50 2.00
C	TTWW+M	MT20	5.0	6.0	2.25 1.50
D	TTWW+M	MT20	2.0	4.0	
E	TTWW+M	MT20	5.0	6.0	2.25 1.50
F	TMB1-I	MT20	3.0	4.0	1.50 2.00
H	BMWW1+M	MT20	2.0	4.0	
I	BMWW1+M	MT20	4.0	9.0	
J	BMWW1+M	MT20	2.0	4.0	

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

FACTORED		MAXIMUM FACTORED		INPUT		REQD	
GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
B	169	0	169	0	0	13-7-1	13-7-1
F	169	0	169	0	0	13-7-1	13-7-1
J	268	0	268	0	0	13-7-1	13-7-1
I	683	0	683	0	0	13-7-1	13-7-1
H	268	0	268	0	0	13-7-1	13-7-1

UNFACTORED REACTIONS

1ST CASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	116	93/0	0/0	0/0	0/0	23/0	0/0
F	116	93/0	0/0	0/0	0/0	23/0	0/0
J	207	118/0	0/0	0/0	0/0	89/0	0/0
I	481	327/0	0/0	0/0	0/0	154/0	0/0
H	207	118/0	0/0	0/0	0/0	89/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS				
MEMB.	FORCE	FACTORED			MEMB.	FACTORED		
	(LBS)	VERT. LOAD	MAX	MAX.		FORCE	MAX	
		(PLF)	CSI (LC)	UNBRAC		(LBS)	CSI (LC)	
FR-TO		FROM TO		LENGTH	FR-TO			
A-B	0/14	-91.8	-91.8	0.02 (1)	10.00	J-C	-194/0	0.03 (1)
B-L	-31/4	-91.8	-91.8	0.01 (1)	6.25	C-I	-22/0	0.01 (1)
L-C	-60/0	-91.8	-91.8	0.03 (1)	6.25	I-D	-578/0	0.03 (1)
C-D	-8/0	-91.8	-91.8	0.39 (1)	10.00	D-E	-22/0	0.01 (1)
D-E	-8/0	-91.8	-91.8	0.39 (1)	10.00	E-H	-194/0	0.03 (1)
E-N	-60/0	-91.8	-91.8	0.03 (1)	6.25	K-L	-121/0	0.00 (1)
N-F	-31/4	-91.8	-91.8	0.01 (1)	6.25	M-N	-121/0	0.00 (1)
F-G	0/14	-91.8	-91.8	0.02 (1)	10.00			
B-K	0/42	-18.5	-18.5	0.04 (1)	10.00			
K-J	0/42	-18.5	-18.5	0.07 (4)	10.00			
J-I	0/29	-18.5	-18.5	0.10 (4)	10.00			
I-H	0/29	-18.5	-18.5	0.10 (4)	10.00			
H-M	0/42	-18.5	-18.5	0.07 (4)	10.00			
M-F	0/42	-18.5	-18.5	0.04 (1)	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 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=0.39/1.00 (C-D-1), BC=0.10/1.00 (H-I-4), WB=0.08/1.00 (D-I-1), SS=0.22/1.00 (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
(PS) (PL) (PL)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

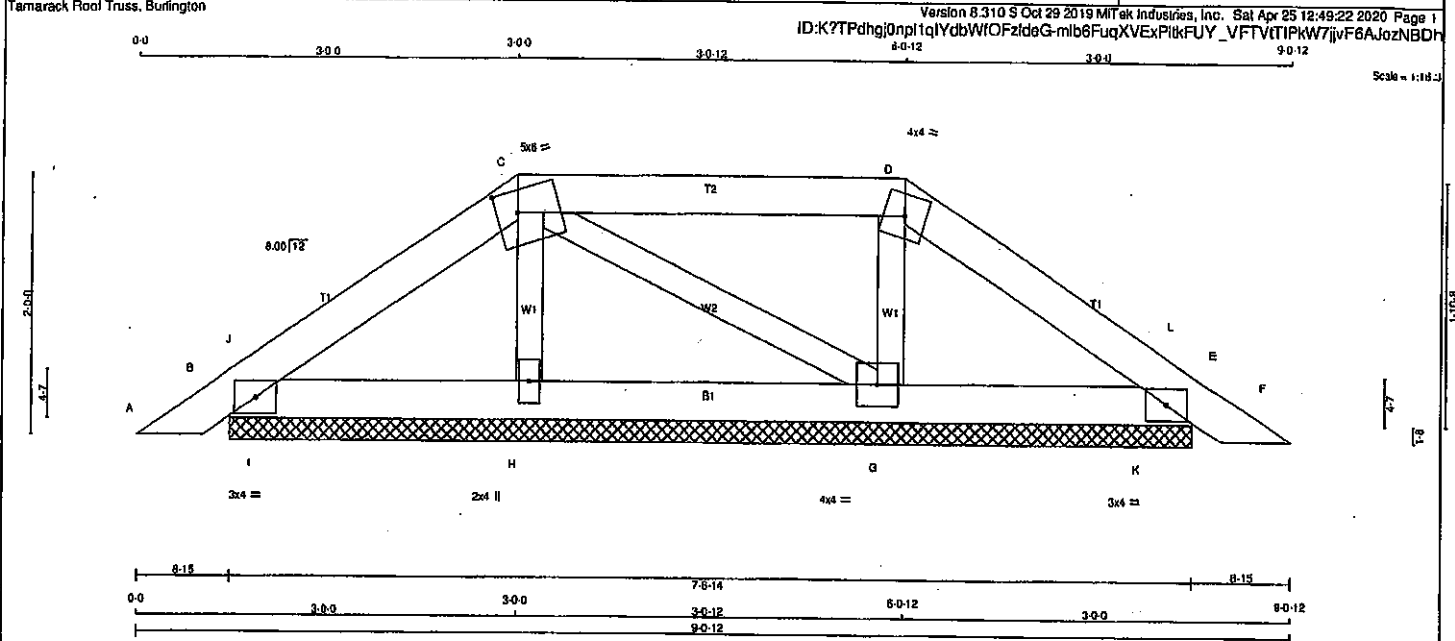
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.30 (D) (INPUT = 0.90)
JSI METAL= 0.12 (D) (INPUT = 1.00)



Structural component only
DWG# T-2007128

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408169	PB20	3	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					
Version 8.310 S Oct 29 2019 MITek Industries, Inc. Sat Apr 25 12:49:22 2020 Page 1					
ID:K?TPdhgJ0npl1qYdbWOFzIdG-mlb6FuqXVEXPltkFUY_VFTV(TIPkW7jvF6AJozNBDH					
Scale = 1:10.0					



LUMBER				DESIGN CRITERIA			
N. L. G. A. RULES				TOTAL WEIGHT = 3 X 25 = 75 lb			
CHORDS	SIZE	DRY	LUMBER	(M)			
A - C	2x4	DRY	No.2	SPECIFIED LOADS:			
C - D	2x4	DRY	No.2	TOP CH. LL = 25.6 PSF			
D - F	2x4	DRY	No.2	DL = 6.0 PSF			
B - E	2x4	DRY	No.2	BOT CH. LL = 0.0 PSF			
ALL WEBS 2x3 DRY No.2 SPF				DL = 7.4 PSF			
DRY: SEASONED LUMBER.				TOTAL LOAD = 39.0 PSF			

PLATES (tablets in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMB1-I	MT20	3.0	4.0	
C	TTWW-m	MT20	5.0	6.0	2.00 2.00
D	TTW-m	MT20	4.0	4.0	
E	TMB1-I	MT20	3.0	4.0	
G	BMW1-I	MT20	4.0	4.0	
H	BMW1-w	MT20	2.0	4.0	

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

BEARINGS					
JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG	
B	221 0	221 0	7-8-14	7-8-14	
E	209 0	209 0	7-8-14	7-8-14	
H	248 0	248 0	7-8-14	7-8-14	
G	280 0	280 0	7-8-14	7-8-14	

UNFACTORED REACTIONS					
JT	1ST CASE	SNOW	LIVE	PERM. LIVE	WIND
B	154	113 / 0	0 / 0	0 / 0	41 / 0
E	148	108 / 0	0 / 0	0 / 0	39 / 0
H	176	109 / 0	0 / 0	0 / 0	67 / 0
G	198	127 / 0	0 / 0	0 / 0	71 / 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				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED LC1 (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED LC1 (LC)
FR-TO		FROM			FR-TO		
A-B	0 / 15	-91.8	-91.8 0.03 (1)	10.00	H-C	-178 / 0	0.03 (1)
B-J	-63 / 0	-91.8	-91.8 0.01 (1)	8.25	C-G	-21 / 0	0.00 (1)
J-C	-74 / 0	-91.8	-91.8 0.05 (1)	8.25	G-D	-198 / 0	0.03 (1)
C-D	-30 / 0	-91.8	-91.8 0.15 (1)	8.25	I-J	-121 / 0	0.00 (1)
D-L	-54 / 0	-91.8	-91.8 0.06 (1)	8.25	K-L	-123 / 0	0.00 (1)
L-E	-41 / 0	-91.8	-91.8 0.01 (1)	8.25			
E-F	0 / 15	-91.8	-91.8 0.03 (1)	10.00			
B-I	0 / 60	-18.5	-18.5 0.08 (1)	10.00			
I-H	0 / 60	-18.5	-18.5 0.08 (1)	10.00			
H-G	0 / 48	-18.5	-18.5 0.03 (1)	10.00			
G-K	0 / 43	-18.5	-18.5 0.08 (1)	10.00			
K-E	0 / 43	-18.5	-18.5 0.08 (1)	10.00			

CS1: TC=0.15/1.00 (C-D:1), BC=0.08/1.00 (B-I:1), WB=0.03/1.00 (D-G:1), SS1=0.11/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

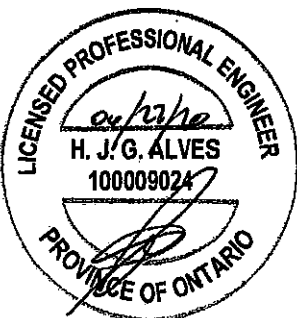
MT20 618 354 1667 788 1987 1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

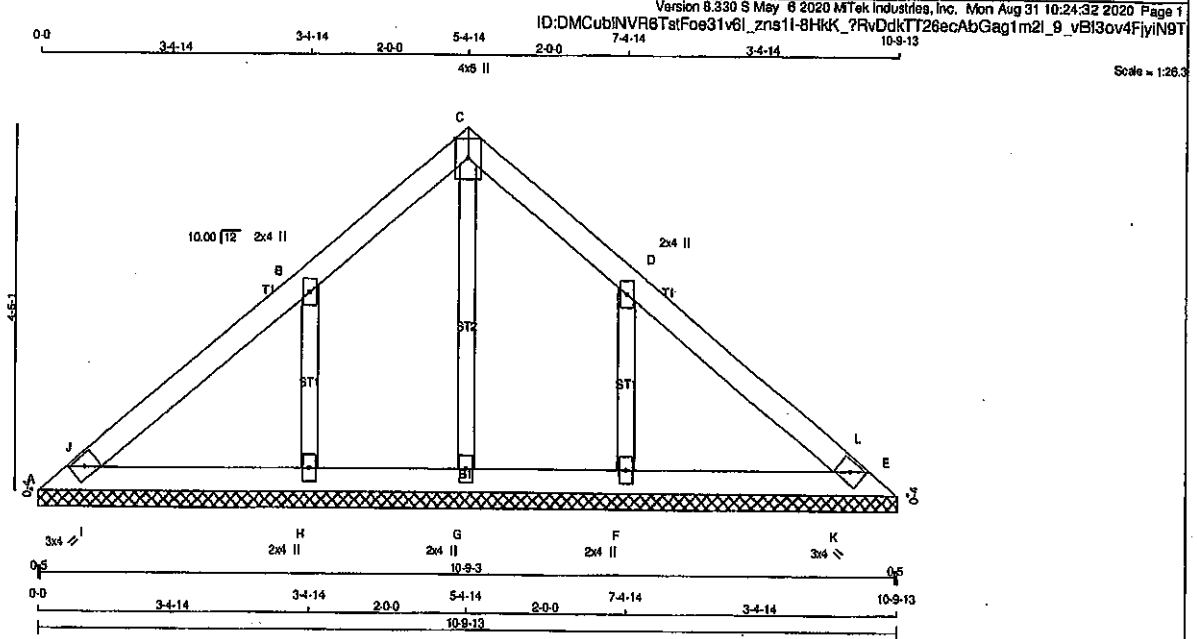
JSI GRIP= 0.18 (B) (INPUT = 0.90)

JSI METAL= 0.04 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007144

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
412345	V500	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.		Version 8.330 S May 8 2020 MTEK Industries, Inc. Mon Aug 31 10:24:32 2020 Page 1	



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	6.0 Edge
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

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	HORZ	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
A	108	0	108	0	0	10-9-13	(10-9-13)	10-9-13	(10-9-13)
E	108	0	108	0	0	10-9-13	(10-9-13)	10-9-13	(10-9-13)
G	219	0	219	0	0	10-9-13	(10-9-13)	10-9-13	(10-9-13)
H	378	0	378	0	0	10-9-13	(10-9-13)	10-9-13	(10-9-13)
F	378	0	378	0	0	10-9-13	(10-9-13)	10-9-13	(10-9-13)

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

UNFACTORED REACTIONS

1ST CASE		MAX. MIN. COMPONENT REACTIONS		SNOW		LIVE		PERM. LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	SNOW	LIVE
A	76	52.0	0.0	0.0	0.0	24.0	0.0	0.0	0.0	0.0	0.0	24.0	0.0	0.0	0.0
E	76	52.0	0.0	0.0	0.0	24.0	0.0	0.0	0.0	0.0	0.0	24.0	0.0	0.0	0.0
G	156	97.0	0.0	0.0	0.0	59.0	0.0	0.0	0.0	0.0	0.0	59.0	0.0	0.0	0.0
H	266	175.0	0.0	0.0	0.0	91.0	0.0	0.0	0.0	0.0	0.0	91.0	0.0	0.0	0.0
F	266	175.0	0.0	0.0	0.0	91.0	0.0	0.0	0.0	0.0	0.0	91.0	0.0	0.0	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 = 6.25 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX	MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX
FR-TO		FROM	TO	FR-TO		FROM	TO
A-J	0.80	-91.8	-91.8 0.02 (4)	G-C	-232.0	0.07 (1)	
J-B	0.92	-91.8	-91.8 0.11 (1)	H-B	-273.0	0.05 (1)	
B-C	0.83	-91.8	-91.8 0.11 (1)	F-D	-273.0	0.05 (1)	
C-D	0.83	-91.8	-91.8 0.11 (1)	I-J	-98.2	0.00 (1)	
D-L	0.92	-91.8	-91.8 0.11 (1)	K-L	-98.2	0.00 (1)	
L-E	0.80	-91.8	-91.8 0.02 (4)				
A-I	-74.0	-18.5	-18.5 0.07 (1)				
I-H	-55.0	-18.5	-18.5 0.07 (1)				
H-G	-66.0	-18.5	-18.5 0.05 (1)				
G-F	-66.0	-18.5	-18.5 0.05 (1)				
F-K	-55.0	-18.5	-18.5 0.07 (1)				
K-E	-74.0	-18.5	-18.5 0.07 (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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- 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=0.11/1.00 (D-L:1), BC=0.07/1.00 (F-K:1),
WB=0.07/1.00 (G-G:1), SS=0.09/1.00 (D-L: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 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

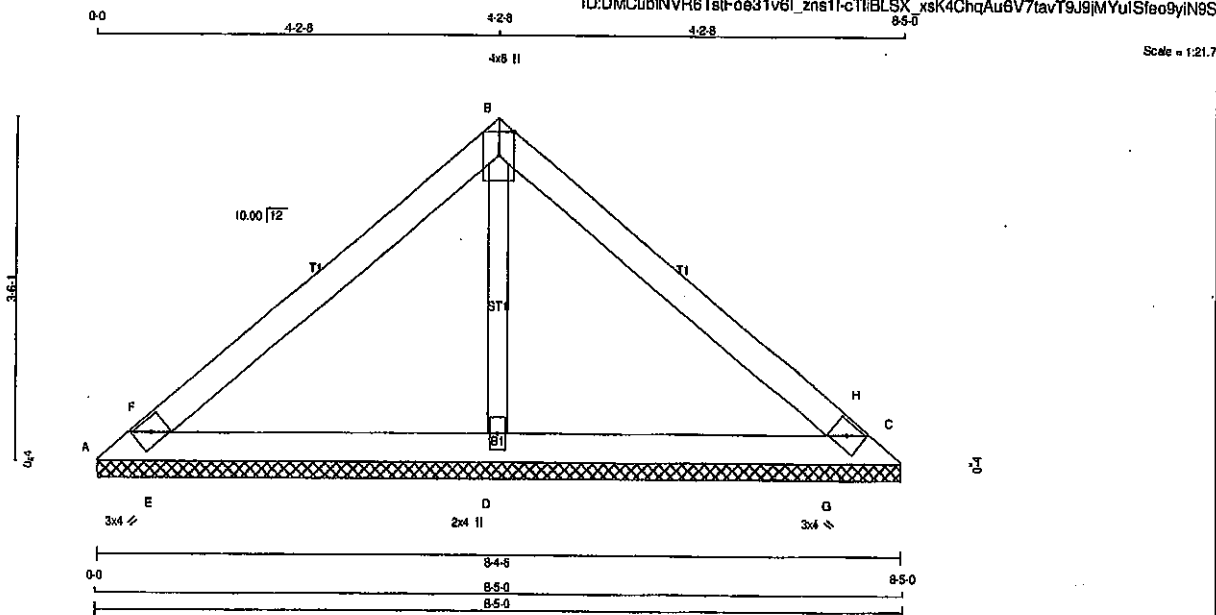
JSI GRIP= 0.19 (B) (INPUT = 0.90)
JSI MISTAL= 0.15 (B) (INPUT = 1.00)



Structural component only
DWG# T-2019651

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
412345	V501	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:DMCubINVR6TslFoe31v6I_zns11-cTtBLsx_xsk4ChqAu6V7tavT9J9IMYulSleo9yiN8S



TOTAL WEIGHT = 23 lb

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

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	6.0 Edge
C	TBM1-h	MT20	3.0	4.0
D	BMW1+w	MT20	2.0	4.0

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

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

FACTORED		MAXIMUM FACTORED		INPUT		REQD	
GROSS REACTION		GROSS REACTION		BRG		BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
A	58	0	58	0	0	8-4-6	8-4-6
C	58	0	58	0	0	8-4-6	8-4-6
D	811	0	811	0	0	8-4-6	8-4-6

UNFACTORED REACTIONS

1ST CASE		MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
A	39	26/0	0/0	0/0	0/0	13/0	0/0	
C	39	26/0	0/0	0/0	0/0	13/0	0/0	
D	574	376/0	0/0	0/0	0/0	198/0	0/0	

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC) (PLF)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC) (PLF)	
FR-TO				FR-TO			
A-F	0/269	-31.8	-31.8 0.11 (1)	D-B	-624/0	0.12 (1)	
F-B	0/249	-31.8	-31.8 0.20 (1)	E-F	-234/0	0.00 (1)	
B-H	0/249	-31.8	-31.8 0.20 (1)	G-H	-234/0	0.00 (1)	
H-C	0/269	-31.8	-31.8 0.11 (1)				
A-E	-239/0	-18.5	-18.5 0.15 (1)				
E-D	-199/0	-18.5	-18.5 0.15 (1)				
D-G	-199/0	-18.5	-18.5 0.15 (1)				
G-C	-239/0	-18.5	-18.5 0.15 (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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2015, ABC 2015
- PART 9 OF CBC 2012 (2015 AMENDMENT)
- CSA 086-14
- 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

CS: TC=0.20/1.00 (B-F:1), BC=0.15/1.00 (D-E:1),
WB=0.12/1.00 (B-D:1), SSI=0.13/1.00 (A-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

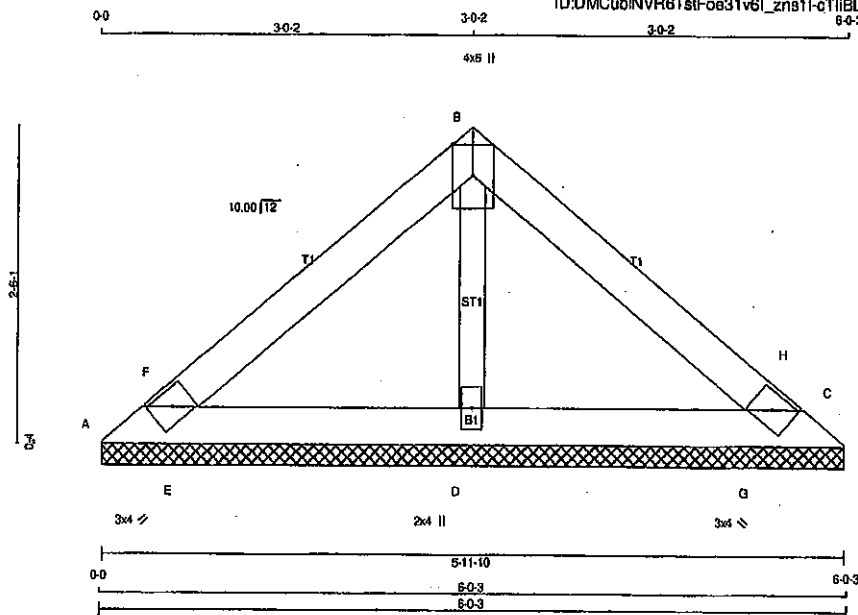
JSI GRIP= 0.31 (D) (INPUT = 0.90)
JSI METAL= 0.13 (D) (INPUT = 1.00)



Structural component only
DWG# T-2019652

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
412345	V502	1	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington		TRUSS DESC.			

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ID:DMCubINVR6TstFoe31v6L_zna11-cTiIBLSX_xsK4ChqAu6V7tax79KDjNduISfo9yIN9S



Scale = 1:10.8

TOTAL WEIGHT = 16.5

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

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	6.0	Edge
C	TBM1-h	MT20	3.0	4.0	
D	BMW1+u	MT20	2.0	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
A	79	0	79	0	0
C	79	0	79	0	0
D	500	0	500	0	0

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
A	55	38.0	0.0	0.0	0.0	18.0	0.0
C	55	38.0	0.0	0.0	0.0	18.0	0.0
D	354	230.0	0.0	0.0	0.0	124.0	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)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM	TO	FR-TO			
A-F	0 / 115	-91.8	-91.8 0.04 (1)	D-B	-353.0	0.06 (1)	
F-B	0 / 115	-91.8	-91.8 0.09 (1)	E-F	-138.0	0.00 (1)	
B-H	0 / 115	-91.8	-91.8 0.09 (1)	G-H	-138.0	0.00 (1)	
H-C	0 / 115	-91.8	-91.8 0.04 (1)				
A-E	-113.0	-18.5	-18.5 0.09 (1)				6.25
E-D	-91.0	-18.5	-18.5 0.09 (1)				6.25
D-G	-91.0	-18.5	-18.5 0.09 (1)				6.25
G-C	-113.0	-18.5	-18.5 0.09 (1)				6.25

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 9, NBC 2015

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 086-14
- 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=0.09/1.00 (B-H:1), BC=0.09/1.00 (D-G:1), WB=0.06/1.00 (B-D:1), SS=0.08/1.00 (A-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	
MAX	MIN	MAX	MIN
MT20	650	371	1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (D) (INPUT = 0.90)

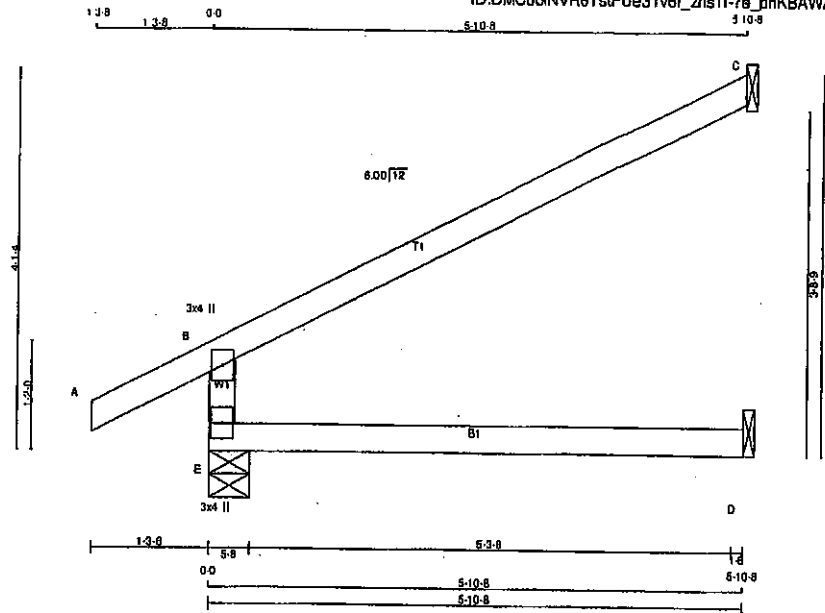
JSI METAL= 0.07 (D) (INPUT = 1.00)



Structural component only
DWG# T-2019653

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408168	J1	19	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:DMCubINVR6TstFoe31v6l_zns11-7a_pnkBAWAC7001JURin76ba9zNy3aYKn_h9zEzNBRC



Scale = 1/22.5

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	GROSS REACTION	DOWN	HORZ	BRG	BRG	IN-SX	IN-SX
E	525	0	525	0	0	5-8	5-8	1-8	1-8
C	202	0	202	0	0	1-8	1-8	1-8	1-8
D	45	0	50	0	0	1-8	1-8	1-8	1-8

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS		1ST LOASE		MAX/MIN. COMPONENT REACTIONS		PERM. LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL	JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND
E	389	287/0	0/0	0/0	0/0	111/0	0/0	E	389	287/0	0/0	0/0	0/0
C	139	113/0	0/0	0/0	0/0	28/0	0/0	C	139	113/0	0/0	0/0	0/0
D	36	0/0	0/0	0/0	0/0	36/0	0/0	D	36	0/0	0/0	0/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS	
MEMB.	MAX. FACTORED	FORCE	VERT. LOAD LC1	MEMB.	MAX. FACTORED
FR-TO	(LBS)	(PLF)	CSI (LC)	FR-TO	(LBS)
E-B	-481/0	0.0	0.0 0.13 (4)	E-B	-481/0
A-B	0/28	-91.8	-91.8 0.12 (1)	A-B	0/28
B-C	-30/0	-91.8	-91.8 0.54 (1)	B-C	-30/0
E-D	0/0	-18.5	-18.5 0.13 (4)	E-D	0/0

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 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 6.4 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) = $L/999$ (0.03")

CSI: TC=0.54/1.00 (B-C:1), BC=0.13/1.00 (D-E:4), WB=0.00/1.00 (n/a:0), SSI=0.24/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.19 (E) (INPUT = 0.90)
JSI METAL = 0.13 (B) (INPUT = 1.00)

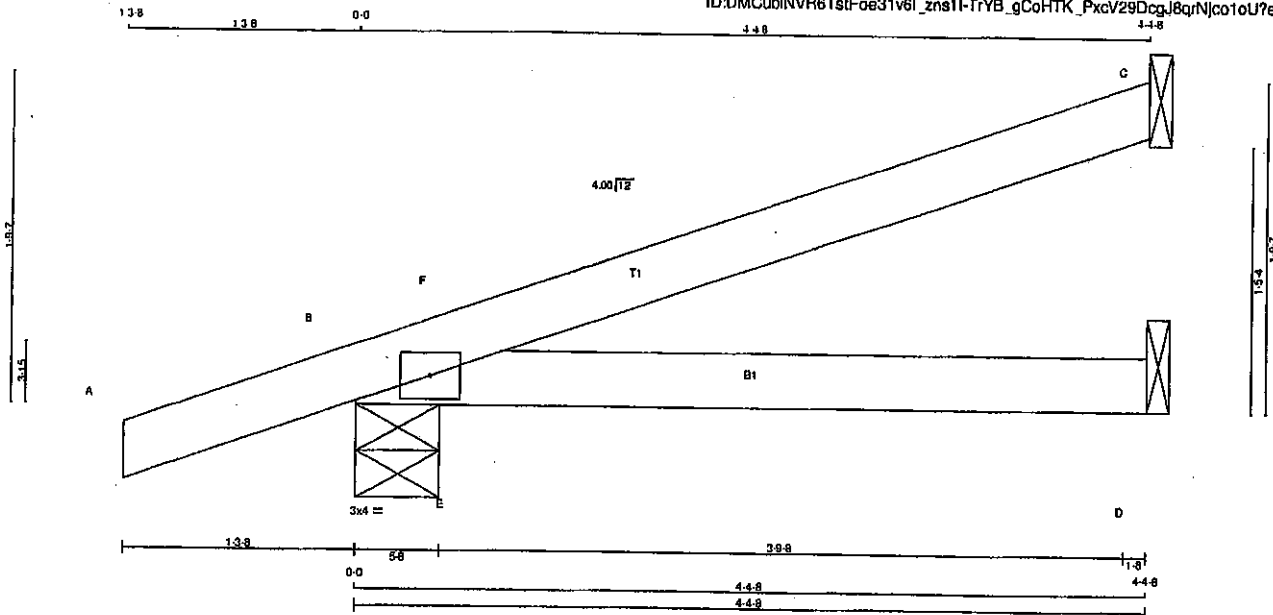


Structural component only
DWG# T-2007126

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408168	J2	8	1	GREEN PARK HOMES	
Tamerack Roof Truss, Burlington				TRUSS DESC:	

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ID:DMCubINVR6TstFoe31v6l_zns11-TrYB_gCoHTK_PxcV29DcgJ8q/NJco1oU7eQJvhzNBRP

Scale = 1:11.5



TOTAL WEIGHT = 8 X 12 = 96 lb (M)

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

PLATES (table is in inches)			
JT TYPE	PLATES	W	LEN Y X
B	TMB1-I	MT20	3.0 4.0

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

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		RECORD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
C	174	0	174	0	0	1-8	1-8
B	364	0	364	0	0	5-8	5-8
D	68	0	68	0	0	1-8	1-8

SEE MITEK STANDARD DETAIL 897791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
C	120	93/0	0/0	0/0	0/0	0/0	27/0	0/0
B	255	180/0	0/0	0/0	0/0	0/0	75/0	0/0
D	50	19/0	0/0	0/0	0/0	0/0	32/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		FACTORED		WEBS		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX	MEMB.	FORCE (LBS)	MAX	MAX
FR-TO		FROM	TO	FR-TO			
A-B	0/18	-91.8	-91.8 0.11 (1)	10.00	E-F	-194/7	0.00 (1)
B-F	-14/0	-91.8	-91.8 0.05 (4)	8.25			
F-C	0/2	-91.8	-91.8 0.22 (1)	10.00			
B-E	0/0	-18.5	-18.5 0.17 (1)	10.00			
E-D	0/0	-18.5	-18.5 0.17 (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. 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 CBC 2018, OBC 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) = $L/360$ (0.19")
CALCULATED VERT. DEFL. (LL) = $L/999$ (0.02")
ALLOWABLE DEFL. (TL) = $L/360$ (0.19")
CALCULATED VERT. DEFL. (TL) = $L/999$ (0.05")

CSI: TC=0.22/1.00 (C-F:1), BC=0.17/1.00 (D-E:1), WB=0.00/1.00 (E-F:1), SS=0.16/1.00 (B-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

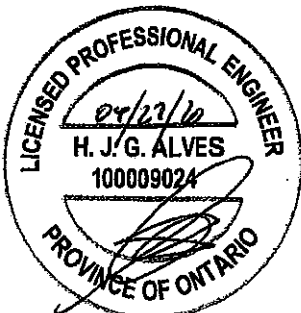
NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.24 (B) (INPUT = 0.99)
JSI METAL = 0.07 (B) (INPUT = 1.00)

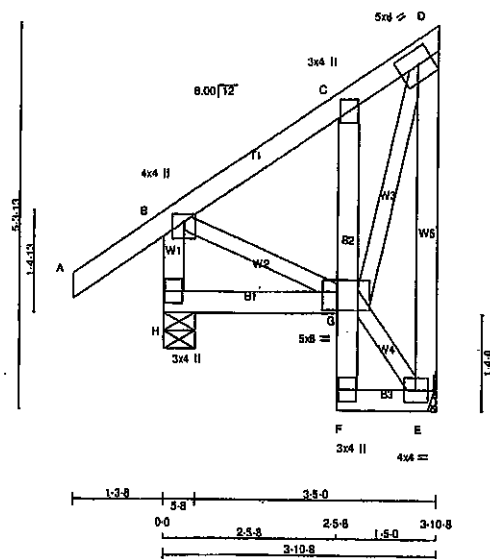


Structural component only
DWG# T-2007127

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408169	J20S	3	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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 ID:K7TPdng0np1qYdbWOFzdeG-I21k2YpvkxpY7j82wrSGiGzsv3rng3ZgbMdnLzNBD

Scale = 1:29.3



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

DRY, SEASONED LUMBER.

PLATES (table is in inches)	JT TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.25	2.00
C	TMV+p	MT20	3.0	4.0		
D	TMVW+1	MT20	5.0	6.0	2.50	2.50
E	BMVW+1	MT20	4.0	4.0		
F	BMV+p	MT20	3.0	4.0		
G	BMVW+1	MT20	5.0	6.0	3.00	2.50
H	BMV+1	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	DOWN	IN-SX	IN-SX
H	332	0	0	5-8
E	208	0	0	MECHANICAL

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

UNFACTORED REACTIONS

1ST CASE	MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD
H	232	168 / 0	0 / 0	0 / 0	0 / 0	68 / 0
E	145	95 / 0	0 / 0	0 / 0	0 / 0	50 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 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	VERT. LOAD	MEMB.	FORCE
	(LBS)	LC1		(LBS)
FR-TO		FROM TO	FR-TO	
H-B	-307 / 0	0.0	0.0	0.03 (1)
A-B	0 / 35	-91.8	-91.8	0.14 (5)
B-C	-83 / 0	-91.8	-91.8	0.07 (1)
C-D	-100 / 0	-91.8	-91.8	0.08 (1)
H-G	0 / 0	-18.5	-18.5	0.04 (4)
F-G	0 / 12	0.0	0.0	0.02 (1)
G-C	-218 / 0	0.0	0.0	0.02 (1)
F-E	0 / 9	-18.5	-18.5	0.01 (4)

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 3 X 29 = 86 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 LD	= 38.0 PSF

SPACING = 24.0 IN./C

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

CSI: TC=0.14/1.00 (A-B-5), BC=0.04/1.00 (G-H-4), WB=0.05/1.00 (D-E-1), SS=0.09/1.00 (A-B-5)

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

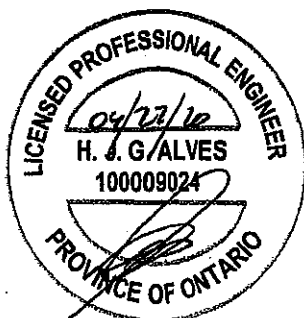
NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP = 0.21 (B) (INPUT = 0.90)
 JSI METAL = 0.07 (C) (INPUT = 1.00)

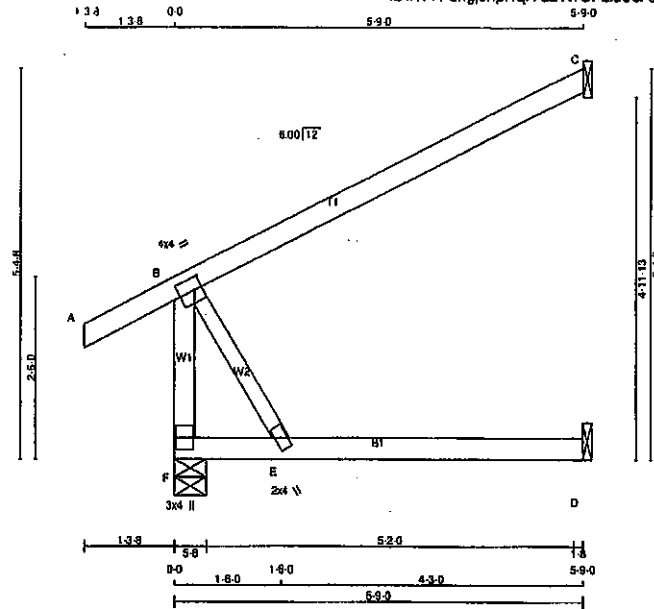


Structural component only
 DWG# T-2007143

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408170	J40	1	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

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ID:K?TPdngl0npl1qYcbWFOFzideG-9GFyHsAnRRCIMWichqYYGUjuVsSPHGLQM61Q2zNB1c



Scale = 1:20.2

TOTAL WEIGHT = 20 lb [M]

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.					

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW1	MT20	4.0	4.0	2.00 1.25
E	BMVW1	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		REQRD	
JT	VERT	GROSS REACTION	HORZ	GROSS REACTION	HORZ	BRG	IN-SX	BRG	IN-SX
F	441	0	441	0	0	5-8	5-8	5-8	5-8
C	284	0	284	0	0	1-8	1-8	1-8	1-8
D	53	0	53	0	0	1-8	1-8	1-8	1-8

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS		1ST LCASE		MAX/MIN COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
F	310	217/0	0/0	0/0	0/0
C	182	147/0	0/0	0/0	0/0
D	43	0/0	0/0	0/0	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		FACTORED		WEBS	
MEMB.	FORCE (LBS)	VERT. LOAD	LC1 MAX	MEMB.	FORCE (LBS)
FR-TO		FROM	TO	FR-TO	
F-B	-388/0	0.0	0.0	0.05 (1)	7.81
A-B	0/28	-91.8	-91.8	0.12 (1)	10.00
B-C	0/0	-91.8	-91.8	0.52 (1)	10.00
F-E	0/0	-18.5	-18.5	0.14 (4)	10.00
E-D	0/0	-18.5	-18.5	0.18 (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. 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 BCBC 2010, OBC 2012, ABC 2019
- PART 9 OF OBC 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 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.52/1.00 (B-C:1), BC=0.18/1.00 (D-E:4), WB=0.00/1.00 (B-E: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

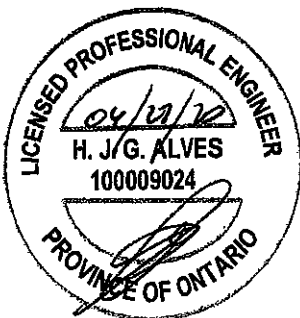
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1887 788 1987 1666

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.24 (B) (INPUT = 0.80)
JSI METAL= 0.07 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007167

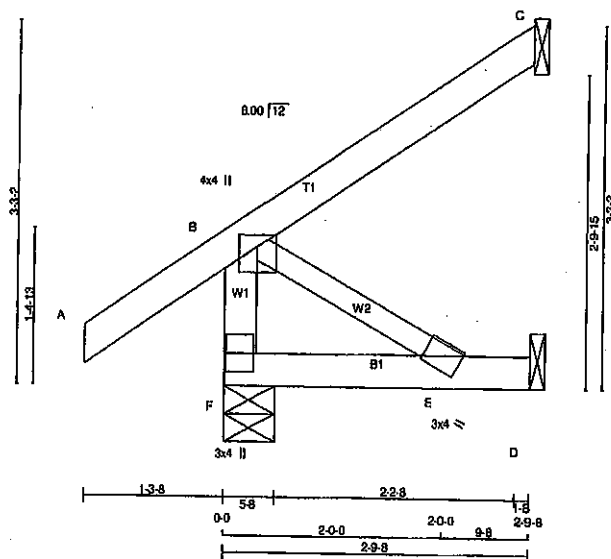
JOB NAME 412083	TRUSS NAME J310	QUANTITY 7	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

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1-3.8 1-3.8 0-0 2-9.8 2-9.8

Scale = 1:19.1



<u>LUMBER</u>					
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.					

PLATES (table is in inches)	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.25	2.00
E	BMVW+p	MT20	3.0	4.0		
F	BMV1+p	MT20	3.0	4.0		

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

BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REQD
GROSS REACTION	GROSS REACTION	DOWN	BRG	BRG
JT	VERT	HORZ	UPLIFT	IN-SX
F	280	0	0	5-8
C	128	0	0	1-8
D	28	0	0	1-8

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS	1ST CASE	MAX/MIN	COMPONENT REACTIONS	PERM	LIVE	WIND	DEAD	SOIL
JT	COMBINED	SNOW	LIVE	PERM	LIVE	WIND	DEAD	SOIL
F	186	142/0	0/0	0/0	0/0	0/0	54/0	0/0
C	88	71/0	0/0	0/0	0/0	0/0	17/0	0/0
D	21	0/0	0/0	0/0	0/0	0/0	21/0	0/0

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

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

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

LOADING
TOTAL LOAD CASES: (5)

CHORDS	MAX. FACTORED	FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE	VERT. LOAD LC1	MEMB.	FORCE
	(LBS)	(PLF)		(LBS)
FR-TO		FROM TO	FR-TO	
F-B	-254/0	0.0 0.0 0.03 (1)	7.81	0/0
A-B	0/35	-91.8 -91.8 0.13 (5)	10.00	
B-C	0/0	-91.8 -91.8 0.12 (1)	10.00	
F-E	0/0	-18.5 -18.5 0.04 (4)	10.00	
E-D	0/0	-18.5 -18.5 0.03 (4)	10.00	

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 7 X 12 = 83 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. C/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC 2015, ABC 2019
- PART 9 OF CBC 2012 (2019 AMENDMENT)
- CSA 088-14
- 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 (0.00")

CSI: TC=0.13/1.00 (A-B:5), BC=0.04/1.00 (E-F:4),
WB=0.00/1.00 (B-E:1), SS=0.09/1.00 (A-B:5)

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 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

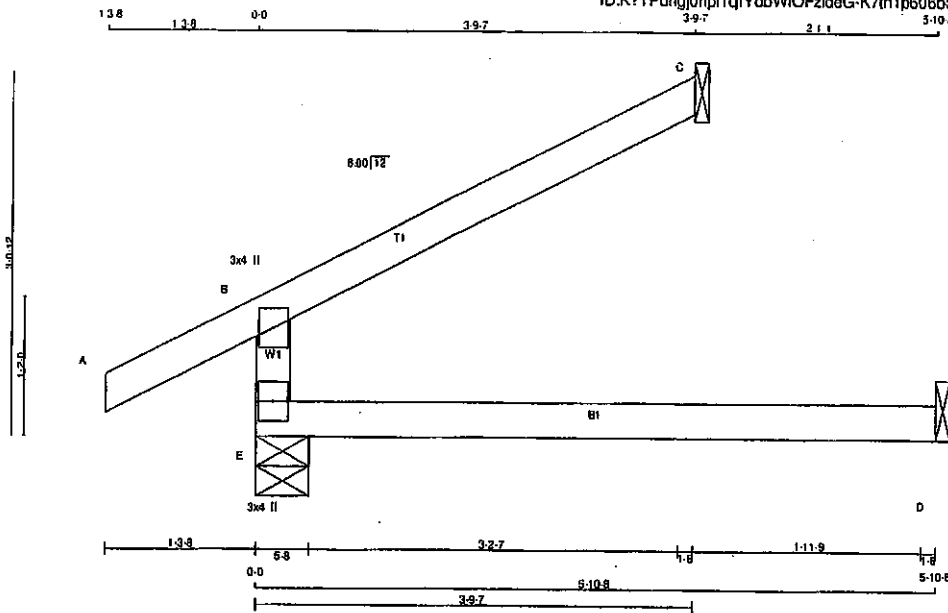
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.17 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)



Structural component only
DWG# T-2018863

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408170	C40	3	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					
Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Sat Apr 25 13:02:08 2020 Page 1					
ID:K?TPdhgj0npl1q/YdbWIOFzIdeG-K7th1p606bSjebITMQj8l?Emz4pp?Znt2Qj[COzNB1]					
Scale = 1:17.9					



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN	Y X
B	TMV+p	MT20	3.0	4.0
E	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	GROSS REACTION	VERY	HORZ	GROSS REACTION	DOWN	HORZ	UPLIFT	BRG	BRG
E	405	0	0	405	0	0	0	5-8	5-8
C	130	0	0	130	0	0	0	1-8	1-8
D	45	0	0	50	0	0	0	1-8	1-8

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS		1ST LOSE		MAX/MIN. COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND
E	255	190 / 0	0 / 0	0 / 0	0 / 0
C	90	73 / 0	0 / 0	0 / 0	0 / 0
D	38	0 / 0	0 / 0	0 / 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	
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD LC1 (PLF)	MAX. UNBRACED LENGTH FR-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) 6.25
E-D	0 / 0	-18.5	-18.5 0.13 (4) 10.00

TOTAL WEIGHT = 3 X 14 = 42 lb [M]

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, 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 (0.20")
CALCULATED VERT. DEFL. (LL) = L/999 (0.00")
ALLOWABLE DEFL. (TL) = L/360 (0.20")
CALCULATED VERT. DEFL. (TL) = L/999 (0.03")

CSI: TC=0.22/1.00 (B-C:1), BC=0.13/1.00 (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)	(PL)
MAX MIN	MAX MIN
MT20	618 354 1667 788 1987 1656

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

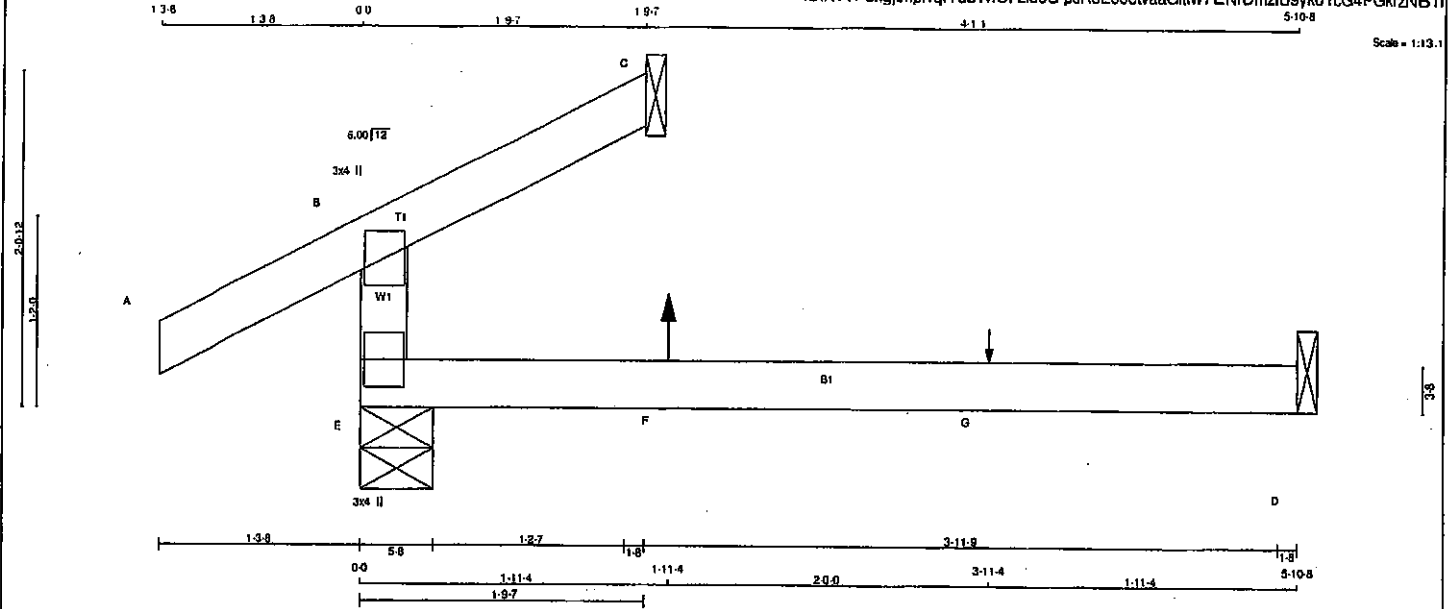
JSI GRIP = 0.14 (E) (INPUT = 0.80)
JSI METAL = 0.09 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007162

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408170	C41	3	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington				TRUSS DESC.	

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ID:K?TPdngJnpi1qYdbWIOFzIdeG-pJR3E96etvaaGltfw7ENrDmzlU9yk01cG4PGkrzNB11



TOTAL WEIGHT = 3 X 12 = 35 lb [M]

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 (tablets 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		RECORD	
JT	VERT	GROSS REACTION	HORZ	DOWN	HORZ	BRG	IN-SX	BRG	IN-SX
E	284	0	284	0	0	5-8	5-8		
C	63	0	63	0	0	1-8	1-8		
D	44	0	62	0	0	1-8	1-8		

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

1ST LOASE		MAX/MIN. COMPONENT REACTIONS		PERM. LIVE		WIND		DEAD		SOIL	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL				
E	200	137 / 0	0 / 0	0 / 0	0 / 0	62 / 0	0 / 0				
C	46	21 / 0	0 / 0	0 / 0	0 / 0	25 / 0	0 / 0				
D	35	0 / 3	0 / 0	0 / 0	0 / 0	37 / 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 = 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: (7)

CHORDS		FACTORED		WEBS		FACTORED	
MEMB.	MAX. FORCE (LBS)	VERT. LOAD (LBS)	MAX. CSI (LC)	MEMB.	MAX. FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM	TO	FR-TO			
E-B	-227 / 0	0.0	0.0	0.11 (4)	7.81		
A-B	0 / 28	-91.8	-91.8	0.12 (1)	10.00		
B-C	-9 / 9	-91.8	-91.8	0.08 (4)	10.00		
E-F	0 / 0	-18.5	-18.5	0.14 (4)	10.00		
F-G	0 / 0	-18.5	-18.5	0.14 (4)	10.00		
G-D	0 / 0	-18.5	-18.5	0.14 (4)	10.00		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX.	FACE	DIR.	TYPE	HEEL	CONN.
F	1-11-4	7	1	12	BACK	VERT	TOTAL	---	G1
G	3-11-4	1	1	---	BACK	VERT	TOTAL	---	G1

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

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

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/380 (0.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/380 (0.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.12/1.00 (A-B:1), BC=0.14/1.00 (D-E:4),
WB=0.00/1.00 (n/a:0), SSI=0.09/1.00 (A-B: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
(PSI)	(PLI)	(PLI)	
MAX MIN	MAX MIN	MAX MIN	
MT20	618	354	1697
	788	1987	1658

PLATE PLACEMENT TOL = 0.250 inches

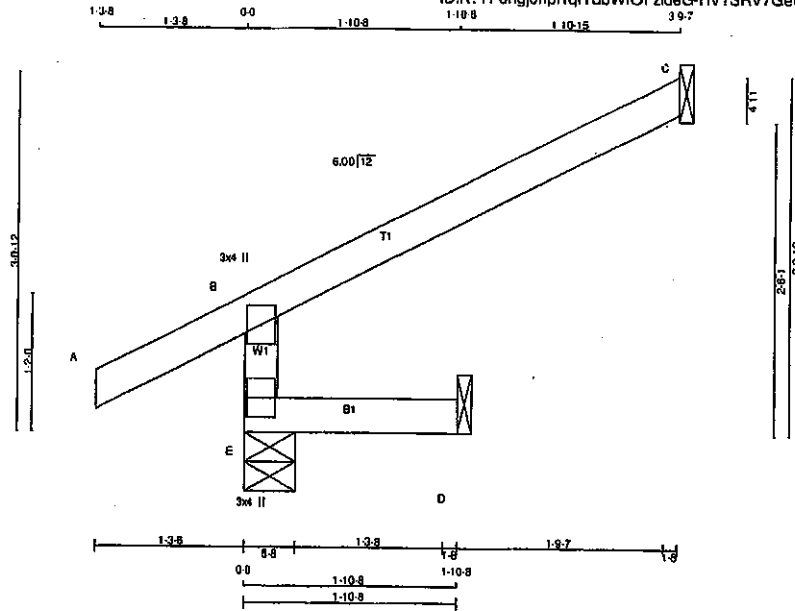
PLATE ROTATION TOL = 5.0 Deg.

JSI GRP = 0.10 (E) (INPUT = 0.90)
JSI METAL = 0.08 (B) (INPUT = 1.00)



Structural component only
DWG# T-2007163

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
408170	C42	3	1	GREEN PARK HOMES	
Tamarack Roof Truss, Burlington					
Version 8.310 S Oct 29 2019 Mitek Industries, Inc. Sat Apr 25 13:02:10 2020 Page 1					
ID:K?TPdhgJ0np1tqYdbWfOfzIdG-HV7SRV7GeCiRuvRrTfCnQJ6SuW4TTHmVh8pHhZNB1h					
Scale = 1:18.2					



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

DRY: SEASONED LUMBER.

PLATES (table in inches)			
JT	TYPE	PLATES	W LEN Y X
B	TMV+p	MT20	3.0 4.0
E	8MV1+p	MT20	3.0 4.0

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

	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
JT	381	0	381	0	5-8	5-8
E	130	0	130	0	1-8	1-8
C	16	0	17	0	1-8	1-8

SEE MITEK 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	60/0	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		W E B S	
	MAX. FACTORED	FORCE	VERT. LOAD	LC1 MAX	MEMB.	MAX. FACTORED
	(LBS)	(LBS)	(PLF)	CSI (LC)		(LBS)
FR-TO			FROM	TO	LENGTH	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	-19/0		-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

TOTAL WEIGHT = 3 X 10 = 29 lb

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 9, NBCC 2010, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBCC 2010, OBC 2012, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-09, CSA 086-14
- TPC 2011, TPC 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 (0.18")
CALCULATED VERT. DEFL. (LL) = L/999 (0.00")
ALLOWABLE DEFL. (TL) = L/360 (0.18")
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 (A-B-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.

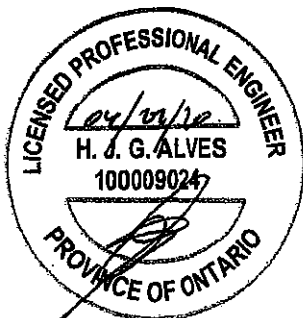
NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JS1 GRIP = 0.14 (E) (INPUT = 0.90)
JS1 METAL = 0.09 (B) (INPUT = 1.00)

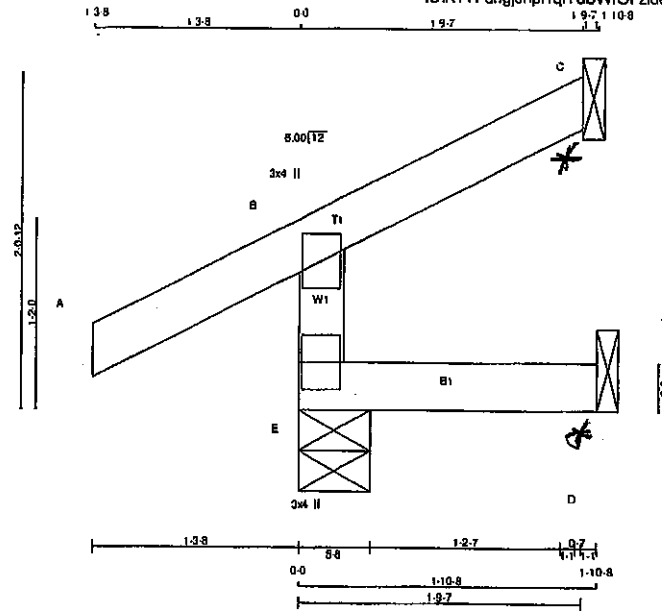


Structural component only
DWG# T-2007164

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
408170	C43	3	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

Version 8.310 S Oct 28 2019 Mitek Industries, Inc. Sat Apr 25 13:02:11 2020 Page 1
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Scale = 1:13.1

LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS	2x4	DRY	SPF
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
B	TMV+p	MT20	3.0	4.0	X
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		DOWN		HORZ		UPLIFT		BRG	
JT	VERT	JT	HORZ	JT	UPLIFT	JT	IN-SX	JT	IN-SX
E	271	0	271	0	0	5-8	5-8	5-8	5-8
C	45	0	45	0	-23	1-8	1-8	1-8	1-8
D	8	0	17	0	-2	1-8	1-8	1-8	1-8

* SEE MITEK STANDARD DETAIL B97781H FOR CONNECTION TO JOINT(S) 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		1ST LCASE		MAX/MIN. COMPONENT REACTIONS		PERM. LIVE		WIND		DEAD		SOIL	
JT	COMBINED	JT	SNOW	JT	LIVE	JT	WIND	JT	DEAD	JT	SOIL	JT	SOIL
E	188	141/0	0/0	0/0	0/0	0/0	0/0	47/0	0/0	0/0	0/0	0/0	0/0
C	31	24/-18	0/0	0/0	0/0	0/0	0/0	7/0	0/0	0/0	0/0	0/0	0/0
D	7	0/-8	0/0	0/0	0/0	0/0	0/0	12/0	0/0	0/0	0/0	0/0	0/0

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

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

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

LOADING

TOTAL LOAD CASES: (5)		CHORDS		W E B S	
MEMB.		MAX. FACTORED FORCE (LBS)		MAX. FACTORED FORCE (LBS)	
FR-TO		FROM TO		LENGTH FR-TO	
E-B	-244/0	0.0	0.0	0.04 (5)	7.81
A-B	0/28	-91.8	-91.8	0.12 (1)	10.00
B-C	-17/0	-91.8	-91.8	0.09 (1)	8.25
E-D	0/0	-18.5	-18.5	0.04 (5)	10.00

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 3 X 7 = 21 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

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

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=0.12/1.00 (A-B:1), BC=0.04/1.00 (D-E:5),
WB=0.00/1.00 (N/A:0), SSI=0.09/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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

NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 788 1987 1858

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-2007165

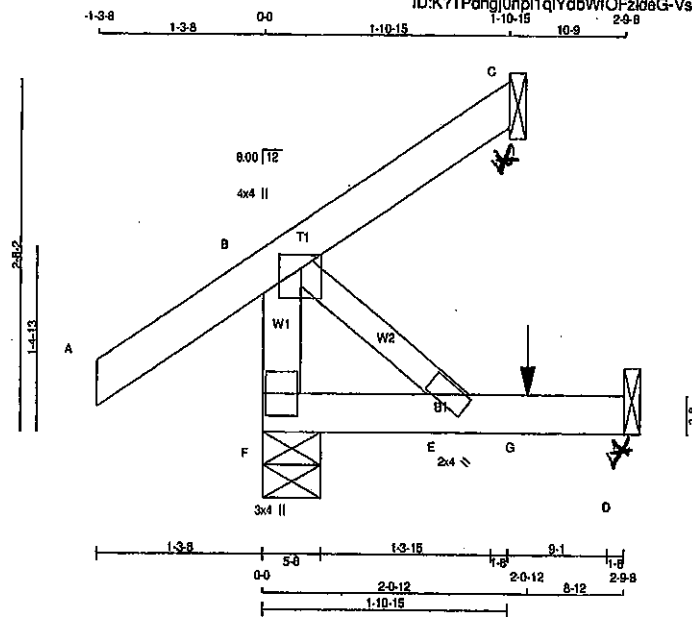
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREEN PARK HOMES	DRWG NO.
412083	C310	2	1	TRUSS DESC.		

Tamarack Roof Truss, Burlington

ID:K7TPdhj0npl1qYdbWOFzdeG-Vs74NP9Df9PdWK8YtC23yMl5WajBAUsUpdN1Pylh7V

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Scale = 1:16.2



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.					

PLATES (table is in inches)	JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	4.0	4.0	1.25	2.00	
E	BMV+w	MT20	2.0	4.0			
F	BMV+p	MT20	3.0	4.0			

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
F	285	285	0	5-8
C	42	42	0	5-8
D	28	31	0	1-8

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 LOASE	MAX/MIN. COMPONENT REACTIONS	PERM. LIVE	WIND	DEAD	SOIL
F	199	144/0	0/0	0/0	55/0	0/0
C	29	24/-25	0/0	0/0	5/0	0/0
D	22	0/0	0/0	0/0	22/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS	MEMB.	MAX. FACTORED 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)	MAX. FACTORED VERT. LOAD (LBS)
FR-TO									
F-B	-259/0	0.0	0.0	0.03 (1)	7.81	0/0	0.00 (1)		
A-B	0/35	-91.8	-91.8	0.14 (5)	10.00				
B-C	-25/0	-91.8	-91.8	0.13 (5)	6.25				
F-E	0/0	-18.5	-18.5	0.04 (4)	10.00				
E-G	0/0	-18.5	-18.5	0.04 (4)	10.00				
G-D	0/0	-18.5	-18.5	0.04 (4)	10.00				

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
G	2-0-12	-3	-3		FRONT	VERT	TOTAL		C1

CONNECTION REQUIREMENTS

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

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 2 X 10 = 20 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. O.C.

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF NBCG 2015, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- 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 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.00")

CSI: TC=0.14/1.00 (A-B:5), BC=0.04/1.00 (E-F:4), WB=0.00/1.00 (B-E:1), SS=0.09/1.00 (A-B:5)

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	650	371	1747
	788	1987	1873

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.17 (B) (INPUT = 0.90)
JSI METAL= 0.05 (B) (INPUT = 1.00)

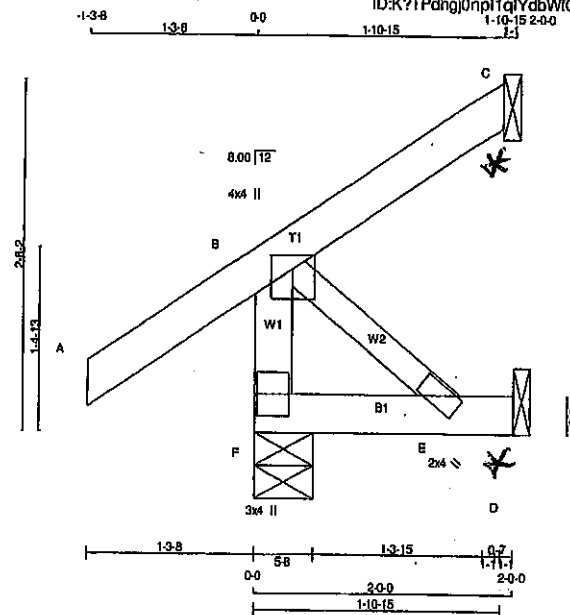


Structural component only
DWG# T-2018861

JOB NAME 412083	TRUSS NAME C311	QUANTITY 2	PLY 1	JOB DESC. GREEN PARK HOMES	TRUSS DESC.	DRWG NO.
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Tamarack Roof Truss, Burlington

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1-10-15 2:00



Scale = 1:16.2

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	DRY	No.2
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.			

PLATES (tablets in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW+p	MT20	4.0	4.0	1.25 2.00
E	BMW+rw	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	
SPF	GROSS REACTION			GROSS REACTION		BRG		BRG	
SPF	JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
F		277	0	277	0	0	5-8	5-8	
SPF	C	42	0	42	0	-35	1-8	1-8	
	D	18	0	21	0	0	1-8	1-8	

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) F, C, D

PROVIDE ANCHORAGE AT BEARING JOINT C FOR 150 LBS FACTORED UPLIFT

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	193	144/0	0/0	0/0	0/0	49/0	0/0
C	29	24/-25	0/0	0/0	0/0	6/0	0/0
D	15	0/0	0/0	0/0	0/0	15/0	0/0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

FR-TO	CHORDS				WEBS			
	MAX. FACTORED MEMB. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LG1 MAX. CSI (LC)	UNBRAC LENGTH	MAX. FACTORED MEMB. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LG1 MAX. CSI (LC)	UNBRAC LENGTH
F-B	-259/0	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	-25/0	-91.8	-91.8 0.12 (1)	6.25				
F-E	0/0	-18.5	-18.5 0.02 (4)	10.00				
E-D	0/0	-18.5	-18.5 0.02 (4)	10.00				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

TOTAL WEIGHT = 2 X 9 = 19 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/C

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBCC 2015, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- 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=0.12/1.00 (A-B:1), BC=0.02/1.00 (E-F:4), WB=0.00/1.00 (B-E:1), SS=0.09/1.00 (B-C:1)

OOL 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 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.17 (B) (INPUT = 0.90)
JSI METAL = 0.05 (B) (INPUT = 1.00)



Structural component only
DWG# T-2018862

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:

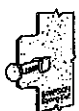
- Use all specified fasteners; see General Notes.
- Nails must be driven at an angle through the joist or truss into the header to achieve the tabulated resistances (except LUL).
- Where 16d commons are specified, 10d commons may be used at 0.83 of the tabulated factored resistance.
- Not designed for 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:

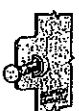
- LUS, LJS, LUL and HUS hangers cannot be modified.
- Other sizes available; consult your Simpson Strong-Tie representative.
- See Hanger Options information on p. 126.



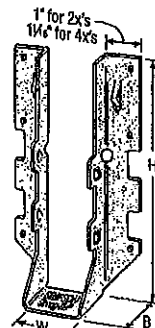
Double-Shear
Nailing
Top View



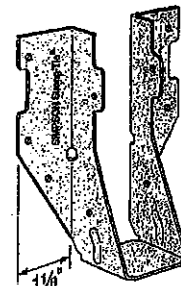
Double-Shear
Nailing
Side View;
Do not
bend tab



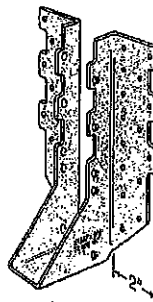
Dome Double-Shear
Nailing Side View
(available on
some models)
U.S. Patent 5,603,580



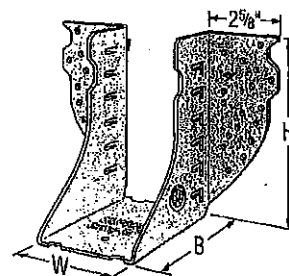
LUS28



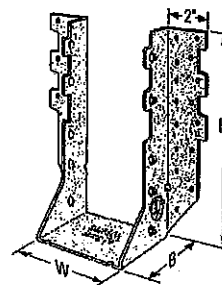
LU26L



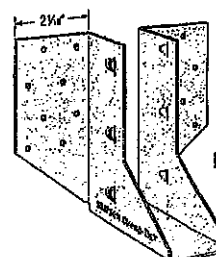
HUS210
(HUS26, HUS28,
and HHUS similar)



HGUS28-2

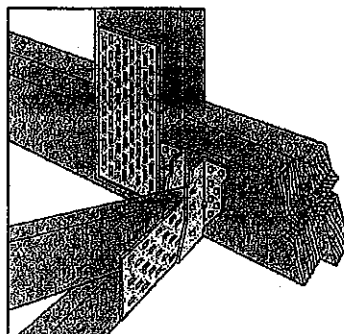


HHUS210-2



LJS26DS

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



Plated Truss Connectors

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

See Hanger Options information on pp. 125-127.

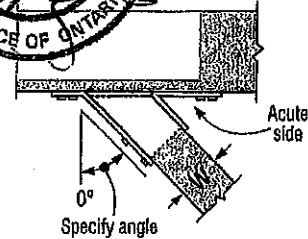
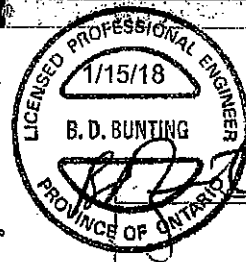
HHUS — Sloped and/or Skewed Seat

- 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)	(K _D = 1.00)	(K _D = 1.15)	(K _D = 1.00)		
lb.	lb.	lb.	lb.										
kN	kN	kN	kN										
Single 2x Sizes													
■	LUS24	18	1 1/8	3 1/2	1 1/4	2 1/4	(4) 10d	(2) 10d	710	1625	645	1155	
									3.16	7.23	2.87	5.14	
	LU24L	22	1 1/8	3	1 1/4	2 1/8	(4) 10d	(2) 10d x 1 1/2"	360	1020	320	725	
■									1.60	4.54	1.42	3.22	
	LU26L	22	1 1/8	5	1 1/4	4 1/4	(6) 10d	(4) 10d x 1 1/2"	720	1605	645	1140	
									3.20	7.14	2.87	5.07	
SS	LUS26	18	1 1/8	4 1/4	1 1/4	3 1/4	(4) 10d	(4) 10d	1420	2170	1290	1630	
■									6.32	9.85	5.74	7.25	
	HUS26	16	1 1/8	5 1/4	3	3 1/8	(14) 16d	(6) 16d	2705	4940	2065	3875	
									11.80	21.97	9.20	17.24	
■	LJS26DS	18	1 1/8	5	3 1/2	4 1/4	(16) 16d	(6) 16d	2055	4265	1480	4115	
									9.14	18.97	6.49	18.31	
	HGUS26	12	1 1/8	5 1/4	5	4 1/4	(20) 16d	(8) 16d	2885	6625	2685	5700	
■									11.98	29.51	11.98	25.35	
	LU28L	20	1 1/8	6 1/4	1 1/4	5 1/4	(8) 10d	(6) 10d x 1 1/2"	1140	2185	1020	1550	
									5.07	9.72	4.54	6.89	
SS	LUS28	18	1 1/8	6 1/4	1 1/4	3 1/4	(6) 10d	(4) 10d	1420	2520	1290	1790	
■									6.32	11.21	5.74	7.96	
	HUS28	16	1 1/8	7 1/4	3	6 1/8	(22) 16d	(8) 16d	3605	5365	2675	4345	
									16.04	23.88	11.90	19.33	
■	HGUS28	12	1 1/8	7 1/4	5	6 1/4	(36) 16d	(12) 16d	3310	7675	3310	6900	
									14.74	34.19	14.74	30.73	
	LU210L	20	1 1/8	8	1 1/4	7 1/4	(10) 10d	(6) 10d x 1 1/2"	1140	2495	1020	1770	
■									5.07	11.10	4.54	7.87	
	SS	LUS210	18	1 1/8	7 1/4	1 1/4	3 1/4	(8) 10d	(4) 10d	1420	2785	1290	2210
									6.32	12.39	5.74	9.83	

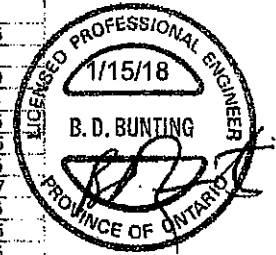
1. Factored uplift resistances have been increased 15% for wind or earthquake loading; no further increase is allowed.
2. Designer must ensure that hanger is compatible with truss when reduced heel height is used.
3. d_g is the distance from the bearing seat to the top joist nail.
4. Resistances shown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

Face-Mount Hangers

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		
Double 2x Sizes													
LUS24-2	18	3 3/8	3 3/8	2	1 1/8	(4) 16d	(2) 16d	835	2020	590	1435		
								3.71	8.99	2.62	6.38		
LUS26-2	18	3 3/8	4 1/8	2	4	(4) 16d	(4) 16d	1720	2595	1545	1920		
								7.65	11.54	6.87	8.54		
HHUS26-2	14	3 3/8	5 3/8	3	3 1/8	(14) 16d	(6) 16d	2850	7335	2085	5205		
								12.68	32.83	9.20	23.15		
HGUS26-2	12	3 3/8	5 3/8	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3110	6355		
								19.51	39.81	13.83	28.27		
LUS28-2	18	3 3/8	7	2	4	(8) 16d	(4) 16d	1720	3325	1545	2575		
								7.65	14.79	6.87	11.45		
HHUS28-2	14	3 3/8	7 3/8	3	6 1/8	(22) 16d	(8) 16d	3765	8940	2675	6345		
								16.75	39.77	11.90	28.22		
HGUS28-2	12	3 3/8	7 3/8	4	6 1/8	(36) 16d	(12) 16d	6070	12980	4310	9215		
								27.00	57.74	19.17	40.99		
LUS210-2	18	3 3/8	9	2	6	(8) 16d	(6) 16d	2580	4500	2320	3195		
								11.48	20.02	10.32	14.21		
HHUS210-2	14	3 3/8	9 3/8	3	8	(30) 16d	(10) 16d	4670	9660	4235	7000		
								20.77	42.97	18.84	31.14		
HGUS210-2	12	3 3/8	9 3/8	4	8 1/8	(46) 16d	(16) 16d	6840	14015	4855	10270		
								30.43	62.34	21.60	45.60		
Triple 2x Sizes													
HGUS26-3	12	4 1/8	5 1/8	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3110	6355		
								19.51	39.81	13.83	28.27		
HGUS28-3	12	4 1/8	7 1/8	4	6 3/8	(36) 16d	(12) 16d	6070	12980	4310	9215		
								27.00	57.74	19.17	40.99		
HHUS210-3	14	4 1/8	9	3	7 3/8	(30) 16d	(10) 16d	4670	9670	4235	6865		
								20.77	43.02	18.84	30.54		
HGUS210-3	12	4 1/8	9 1/8	4	8 3/8	(46) 16d	(16) 16d	6840	14645	4855	10400		
								30.43	65.14	21.60	46.26		
Quadruple 2x Sizes													
HGUS26-4	12	6 1/8	5 1/8	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3110	6355		
								19.51	39.81	13.83	28.27		
HGUS28-4	12	6 3/8	7 3/8	4	6 1/8	(36) 16d	(12) 16d	6070	12980	4310	9215		
								27.00	57.74	19.17	40.99		
HHUS210-4	14	6 1/8	8 1/8	3	7 3/8	(30) 16d	(10) 16d	4670	10155	4235	7210		
								20.77	45.17	18.84	32.07		
HGUS210-4	12	6 1/8	9 3/8	4	8 1/8	(46) 16d	(16) 16d	6840	14645	4855	10400		
								30.43	65.14	21.60	46.26		
HGUS212-4	12	6 3/8	10 1/8	4	10 1/8	(56) 16d	(20) 16d	7640	14995	5425	10845		
								33.98	66.70	24.13	47.35		
HGUS214-4	12	6 3/8	12 1/8	4	11 1/8	(66) 16d	(22) 16d	10130	16400	7195	11845		
								45.08	72.95	32.00	51.80		
4x Sizes													
LUS46	18	3 3/8	4 1/8	2	3 3/8	(4) 16d	(4) 16d	1720	2595	1545	1920		
								7.65	11.54	6.87	8.54		
HHUS46	14	3 3/8	5 1/8	3	3 1/8	(14) 16d	(6) 16d	2540	7335	2085	5205		
								11.30	32.83	9.20	23.15		
HGUS46	12	3 3/8	5 1/8	4	4 1/8	(20) 16d	(8) 16d	4385	8950	3110	6355		
								19.51	39.81	13.83	28.27		
LUS48	18	3 3/8	6 1/8	2	3 3/8	(6) 16d	(4) 16d	1720	3325	1545	2575		
								7.65	14.79	6.87	11.45		
HHUS48	14	3 3/8	7 1/8	3	6 1/8	(22) 16d	(8) 16d	3765	8940	2675	6345		
								16.75	39.77	11.90	28.22		
HGUS48	12	3 3/8	7 1/8	4	6 3/8	(36) 16d	(12) 16d	6070	12980	4310	9215		
								27.00	57.74	19.17	40.99		
LUS410	18	3 3/8	8 1/8	2	5 1/8	(8) 16d	(6) 16d	2580	4500	2320	3195		
								11.48	20.02	10.32	14.21		
HGUS410	12	3 3/8	9	4	8 1/8	(46) 16d	(16) 16d	6840	14015	4855	10270		
								30.43	62.34	21.60	45.69		
HGUS412	12	3 3/8	10 1/8	4	10 3/8	(56) 16d	(20) 16d	7640	14995	5425	10845		
								33.98	66.70	24.13	47.35		
HGUS414	12	3 3/8	12 1/8	4	11 1/8	(66) 16d	(22) 16d	10130	16400	7195	11845		
								45.08	72.95	32.00	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

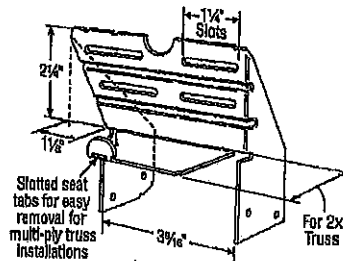
Design: Factored resistances are in accordance with CSA 086-14

Installation:

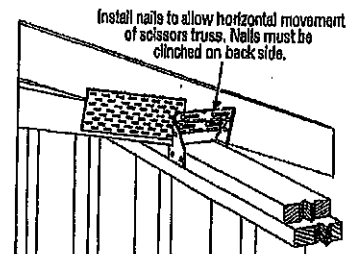
- Use all specified fasteners.
- Nails: 10d = 0.148" dia. x 3" long common wire, 10d x 1½" = 0.148" dia. x 1½" long.
- Drive 10d nails into the truss at the inside end of the slotted holes (inside end is towards the centre of the truss) and clinch on the back side. Do not seat these nails into the truss—allow room under the nail head for movement of the truss with respect to the wall.

Optional TC Installation:

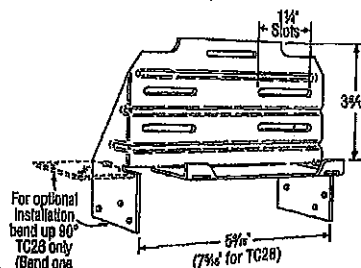
- Bend one flange up 90°. Drive specified nails into the top and face of the top plates or install Titen® screws into the top and face of masonry wall. See optional load tables and installation details.



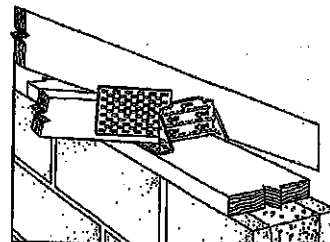
TC24
U.S. Patent 4,932,173



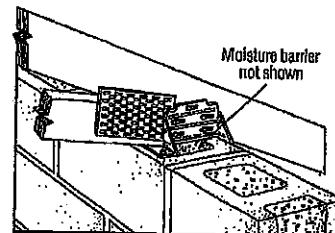
Typical TC24 Installation



TC26
(TC28 Similar)



Optional TC26 Installation for Grouted Concrete Block using a Wood Nailer (8", 10", 12" Wall Installation Similar)



Optional TC26 Installation for Grouted Concrete Block using Titen Screws

Model No.	Fasteners		Factored Resistance	
	Truss	Wall Plates	D.Fir-L	S-P-F
			Uplift (K _u =1.15)	Uplift (K _u =1.15)
TC24	(4) 10d	(4) 10d	605	430
TC26	(5) 10d	(5) 10d	1015	720
TC28	(5) 10d	(5) 10d	1015	720

Optional TC Installation Table

Model No.	Fasteners		Factored Resistance	
	Truss	Wall Plates	D.Fir-L	S-P-F
			Uplift (K _u =1.15)	Uplift (K _u =1.15)
TC26	(5) 10d	(5) 10d x 1½"	810	660
	(5) 10d	(5) 10d	930	660

1. Factored resistances have been increased 16% for earthquake or wind loading; no further increase allowed; reduce where other loads govern.
2. Grout strength is 15 MPa minimum.
3. Optional TC26 installation with 10d nails requires minimum 3" top plate thickness.
4. TC26 fastened to grouted concrete block with (5) - ¾" x 2¼" Titen screws has a factored uplift resistance of 275 lb.



(800) 999-5099
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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 1 1/2"	(4) 8d	—	740	685	300	660	485	215
					3.29	3.05	1.33	3.02	2.16	0.96
SS H2A	18	(5) 8d x 1 1/2"	(2) 8d x 1 1/2"	(5) 8d x 1 1/2"	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	160	210
					3.71	0.78	0.93	3.29	0.71	0.93
SS H3	18	(4) 8d	(4) 8d	—	740	180	265	615	125	190
					3.29	0.80	1.18	2.74	0.56	0.85
H6	16	—	(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 1 1/2"	(5) 10d x 1 1/2"	—	1120	—	—	1025	—	—
					4.98	—	—	4.56	—	—
SS H10A ³	18	(9) 10d x 1 1/2"	(9) 10d x 1 1/2"	—	1735	795	410	1505	585	290
					7.72	3.54	1.82	6.69	2.51	1.29
H10AR	18	(9) 10d x 1 1/2"	(9) 10d x 1 1/2"	—	1485	690	430	1220	570	305
					6.61	3.07	1.91	5.43	2.54	1.36
H10A-2	18	(9) 10d x 1 1/2"	(9) 10d x 1 1/2"	—	1835	1275	430	1645	880	305
					8.16	5.67	1.91	7.32	3.91	1.36
H10S ^{2,3}	18	(8) 8d x 1 1/2"	(8) 8d x 1 1/2"	(8) 8d	1465	795	315	1040	565	225
					6.62	3.54	1.40	4.63	2.51	1.00
H11Z	18	(6) 16d x 2 1/2"	(6) 16d x 2 1/2"	—	1095	920	545	780	655	390
					4.87	4.09	2.42	3.47	2.91	1.73
H14	18	① (12) 8d x 1 1/2"	(13) 8d	—	2390	855	320	1805	610	230
					10.63	3.80	1.42	8.03	2.71	1.02
		② (12) 8d x 1 1/2"	(15) 8d	—	2390	865	320	1805	610	230
					10.63	3.80	1.42	8.03	2.71	1.02
TSP	16	(9) 10d x 1 1/2"	(6) 10d x 1 1/2"	—	1295	440	—	920	310	—
					5.76	1.96	—	4.09	1.38	—
		(9) 10d x 1 1/2"	(6) 10d	—	1580	440	—	1105	310	—
					6.94	1.96	—	4.92	1.38	—

1. Factored resistances have been increased 15% for short term loading; no further increase is allowed.
2. Factored resistances are for one anchor. A minimum rafter thickness of 2 1/2" must be used when framing anchors are installed on the same side of the plate (exception: H2.5A).
3. 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.
4. When cross-grain bending or cross-grain tension cannot be avoided, mechanical reinforcement to resist such forces should be considered.
5. 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).
6. 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.

7. 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.
8. H10S nails to plates are optional for uplift but required for lateral loads.
9. 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.
10. 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.
11. 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 1 1/2" nails into the top plates and (3) 8d x 1 1/2" nails into the lowest three flange holes into the truss bottom chord is 495 lb. (2.20 kN).
12. Nails: 16d x 2 1/2" = 0.162" dia. x 2 1/2" long, 10d = 0.148" dia. x 3" long, 10d x 1 1/2" = 0.148" dia. x 1 1/2" long, 8d = 0.131" dia. x 2 1/2" long, 8d x 1 1/2" = 0.131" dia. x 1 1/2" long. See pp. 27-28 for other nail sizes and information.

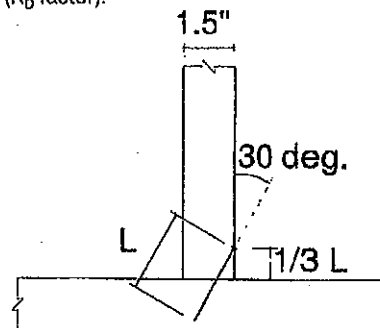
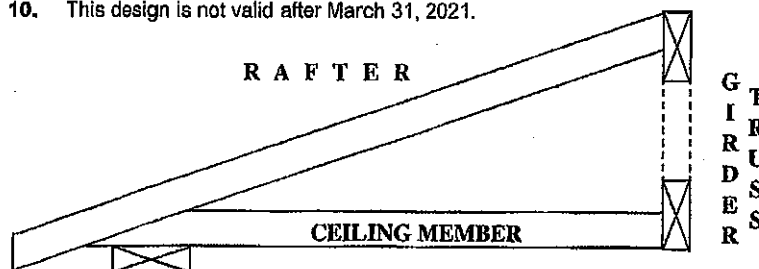
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

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.

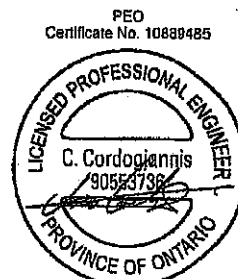


TOE-NAIL INSTALLATION

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

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100 Industrial Rd.
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December 2, 2019



BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

B97791H2

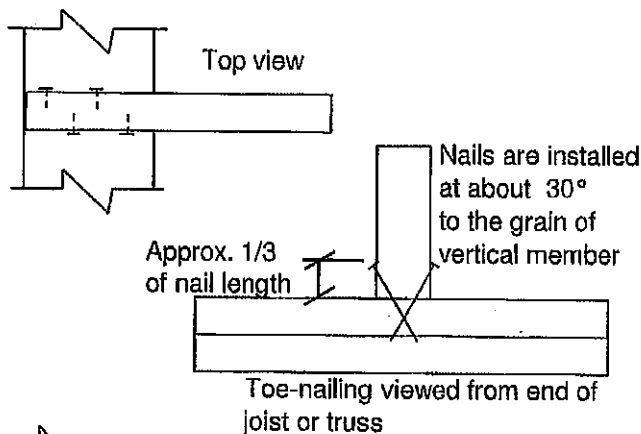
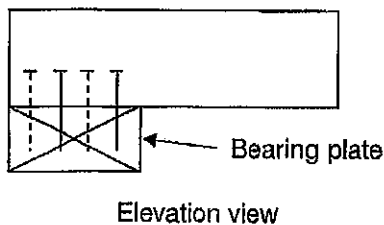
NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL WITHDRAWAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	30	42
	3.25	0.144	32	45
	3.50	0.160	38	52
COMMON SPIRAL	3.00	0.122	26	36
	3.25	0.122	28	40
	3.50	0.152	36	50

Note: If using truss with D. Fir lumber and S-P-F bearing plate, use values in table for S-P-F.

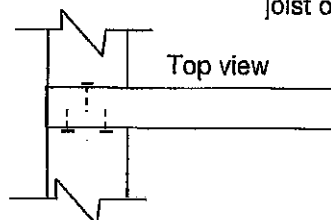
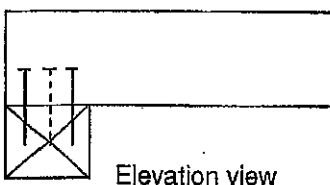
NOTES:

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



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Bradford, Ontario L3Z 3G7

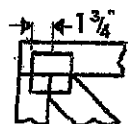
PEO
Certificate No. 10889485.



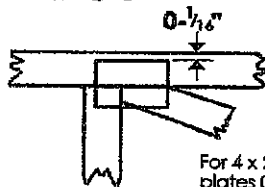
December 2, 2019

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



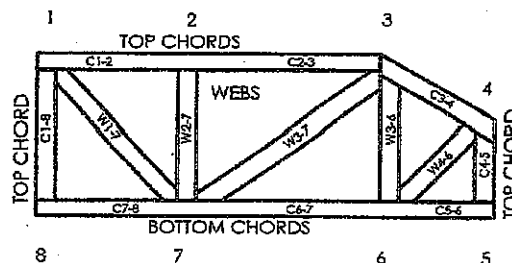
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

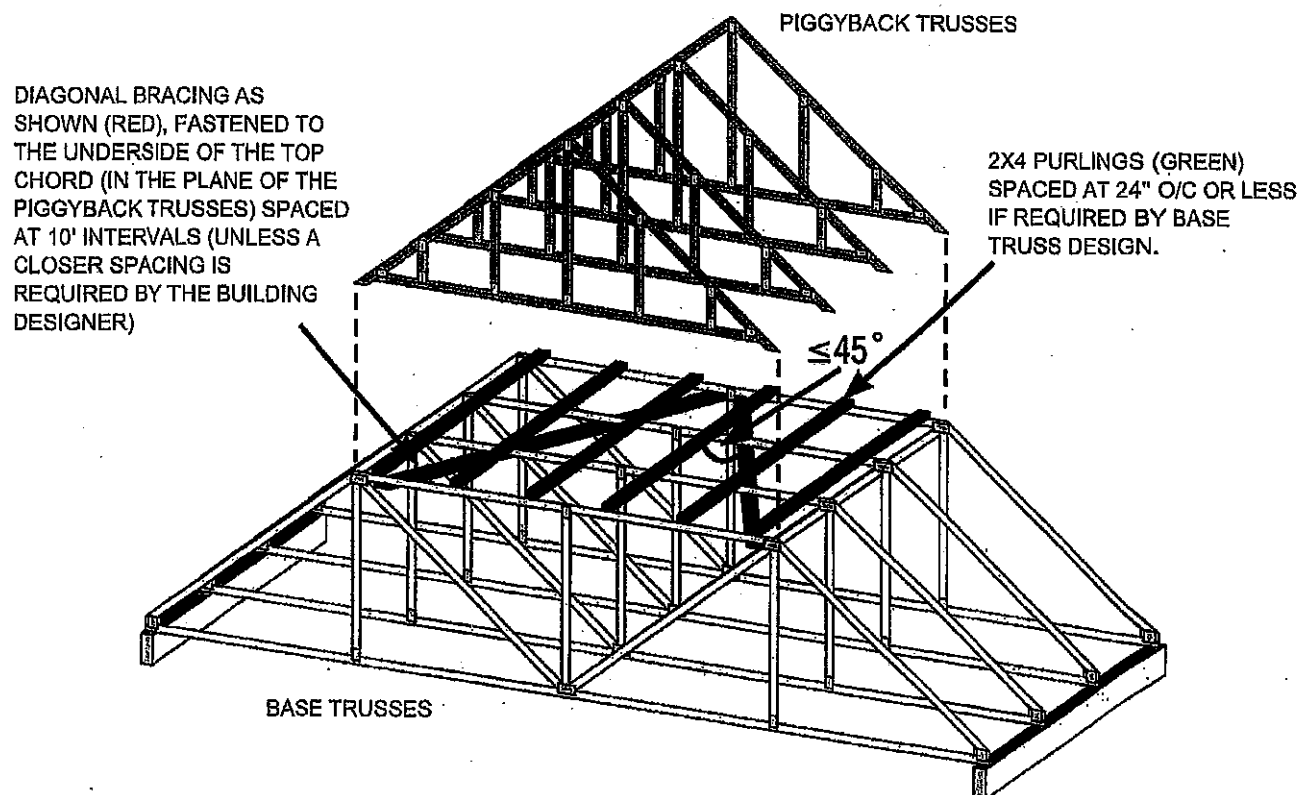
1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator bracing should be considered.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

Overview:

Where piggybacks are connected ovetop 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:

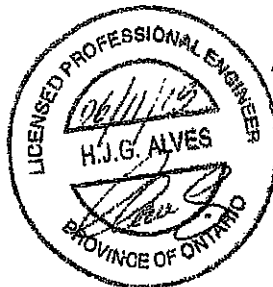


NOTE: THE SLOPED PORTION OF THE TOP CHORD OF THE BASE TRUSS AND PIGGYBACK TRUSS IN THIS SKETCH IS ASSUMED TO BE SHEATHED IN ACCORDANCE WITH THE OBC.

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 manufacturer's responsibility to ensure that the trusses are manufactured in conformance with Alves Engineering Services Inc. specifications outlined below.

SPECIFICATIONS

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

T-1300213

Feb 09, 2018